# LISTING OF ALL KNOWN SLIDE RULES WITH HYPERBOLIC SCALES

# by William K. Robinson

	rces of information; and for explanations of symbols	
1ALVIN (Japan San-Ai Group) Front scales: #Sr SA & SA P' P#O CE CL C	ALVIN ELITE VECTOR No. 1157    D, DF, LL2, LL3    Note:Sr is radians; Sθ degrees	25 cm.; Plastic face on laminated wood ; Cursor is not fra Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2,
	and DF; $\pi/4$ and M is on A and B; C and C1 are on C and D.	
5	*) is at right on vertical line over A & B scales; $\pi/4$ is at a vertical l	ine on left over the A & B scales, and $\sqrt{4/\pi}$ on the right over
2ARISTO (Germany) Made in Hamburg	ARISTO HyperboLog No. 971 1953 - 1960	25 cm.; Plastic; Cursor is not framed. This early version
Front scales:    LLo1, LLo2, LLo3, DF    CF, CIF,	, L, CI, C    D, LL3, LL2, LL1	Back scales:    Th, K, A    B, T&T, ST, S&S, C    D, DI,
-	DF, CI, DI, and CIF. The marks " and ' are on scale ST.	Cui
	*) at right on vertical line over A & B scales; There is a $\pi/4$ vertical	
ARISTO (Germany) Made in Germany	ARISTO HyperboLog No. 0971 1961 - 1972	
Front scales:    LLo1, LLo2, LLo3, DF    CF, CIF,		Back scales:    Th, K, A    B, T&T, ST, S&S, C    D, DI,
-	DF, CI, DI, and CIF. The marks " and ' are on the back C scale; e i $\pi/4$ vertical line over A & B scales; There is a $\pi/4$ vertical	
	<b>Cursor Back</b> has marks; kW at top middle and PS2 at right on vertic.	-
aARISTO (Germany)		25 cm.; Plastic; Cursor is not framed. Has fixed plastic e
Front scales:    Lloo, LLo1, LLo2, LLo3, DF    CF		Back scales:    H2, Sh2, Th, K, A    B, T&T, ST, S&S, P.
	DF,CI, CIF, and DI. The marks Q" and Q'are on back scale C; e is o	
	on right over CF/DF scales (for multiplication of the value on C/D by	
	at right on vertical line over A & B scales; There is a $\pi/4$ vertical line	he on left over the A & B scales, and $\sqrt{4/\pi}$ on right over the C
ARQUIMEDES (Brazil)	Archimedes Vectolog 21-D	25 cm.
Front scales:    LLo1, LLo2, LLo3, DF    CF, CIF,		<b>Back scales:</b>    L, K, A    B, T, ST, S, C    D, Th, Sh2, Sh
	orted to the ISRG to exist by João Roberto Gabbardo 06/09/2006. By	
BEACON (Korea)	BEACON KOREA No. 315	25 cm.; Plastic; Cursor is not framed. Has adjustable me
<b>Front scales:</b> $  $ L, K, DF $  $ CF, CIF, CI, C $  $ D, LL. <b>Gauge Marks on scales:</b> $\pi$ is on CF and DF; c is c		Back scales:   Sh1, Sh2, Th, A    B, TI2&TI2, TI1&TI1, Cui
0		
	TING REGARDING THE SLIDE RULES DESIGNED E	
BLUNDELL (Great Britain)	Multilog Vector Duplex No. JV 56 1957-1965	Source: Hopp page 144.
	Hopp shows same scales as below No. 506 (Academy Duplex). So	
BLUNDELL (Great Britain)	Log-Log Electro No. 506 (Academy Duplex) 965-1970	25 cm.; Plastic; Cursor is not framed. Has fixed plastic of
<b>Front scales:</b> $\parallel LL_{01}, LL_{02}, LL_{03}, DF \parallel CF, CIF, C$	DF, CI, DI, and CIF; The marks 9' and 9" are on front scales C and I	Back scales:    Sinh1, Sinh2, Tanh, A    B, T&T, ST, S& ). Cu
	at right over A and B scales; There a $\pi$ /4 vertical line on left over t	
BLUNDELL (Great Britain)	Log-Log Electro No. A506 (Super Duplex) 1970-1980	25 cm.; Plastic; Cursor is not framed. Has fixed plastic e
Front scales:    LL01, L102, LL03, DF    CF, CIF,	· · · · · · · · · · · · · · · · · · ·	Back scales:    Sinh1, Sinh2, Tanh, A    B, T&T, ST, S&
Have a picture for this slide rule from Ron Manley	's Web Site of "sliderules.clara.co.uk". Has same scales as above No	. 506 (Academy Duplex) but some are with different type for
Need gauge marks and cursor lines information as	pictures do not show this detail.	
SEE THE NOTE AT END OF THIS LIST	ING REGARDING CHINESE SLIDE RULES.	
aCHINA BEIJING	6681 Haiou Pai (Seagull) See Haiou Pai on this list	25 cm.; Plastic; Cursor is not framed. Has fixed plastic e
Front scales:    Ln <sub>01</sub> , Ln <sub>02</sub> , Ln <sub>03</sub> , DF    CF, CIF, H		
	$H, CI, C \parallel D, LL_3, LL_2, LL_1 \parallel$	Back scales:    L, Sh1, Sh2, A    B, T, ST, S, C    D, P, T
Need gauge marks and cursor lines information as		<b>Back scales:</b>    L, Sh1, Sh2, A    B, T, ST, S, C    D, P, T
Need gauge marks and cursor lines information as		
Need gauge marks and cursor lines information as oCHINA B	pictures do not show this detail.	
Need gauge marks and cursor lines information as CHINA B CHINA S	pictures do not show this detail. No number	Same as listed Has This appears to be a renamed Flying Fish 1002
Need gauge marks and cursor lines information as CHINA B CHINA S CHINA SHANGHAI	pictures do not show this detail. No number Cultural Revolution Slide Rule 1002	Same as listed     Has       This appears to be a renamed Flying Fish 1002     Maybe same as listing under Flying Fish 1015-1
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Need gauge marks and cursor lines information as OCHINA B OCHINA S ICHINA SHANGHAI Do not have a picture or manual for this slide rule. OCHINA SHANGHAI Do not have a picture or manual for this slide rule. ICHINA SHANGHAI Do not have a picture or manual for this slide rule. ICHINA SHANGHAI Do not have a picture or manual for this slide rule. ICOMPASS (JAPAN San-Ai Group) Front scales:    Sr, S0, P', P    Q, CF, CI, C    D, D Gauge Marks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, CF and Compared to the statemarks on scales: π is on A, B, C, D, C	pictures do not show this detail. No number Cultural Revolution Slide Rule 1002 1015-1 Hopp does not list it. Need complete information: listing of details of 1018 Hopp does not list it. Need complete information: listing of details of 5891 (Has same scales as K&E 4083-3 (1955 ) Hopp does not list it. Need complete information: listing of details of No. 1325 F, LL2, LL3    Note: Sr is radians; S0 degrees	Same as listed         Hat           This appears to be a renamed Flying Fish 1002         Maybe same as listing under Flying Fish 1015-1           of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Flying Fish 1018           of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Flying Fish 1018           of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Shanghai (China) 5891           of dimensions, physical appearance, scales, gauge marks,cur         25 cm.; Plastic face on laminated wood ; Cursor is not fit           Back scales:            Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2,
Need gauge marks and cursor lines information as OCHINA B OCHINA S OCHINA S OCHINA SHANGHAI Do not have a picture or manual for this slide rule. OCHINA SHANGHAI Do not have a picture or manual for this slide rule. OCHINA SHANGHAI Do not have a picture or manual for this slide rule. OCHINA SHANGHAI Do not have a picture or manual for this slide rule. COMPASS (JAPAN San-Ai Group) Front scales:    Sr, Sθ, P', P    Q, CF, CI, C    D, D Gauge Marks on scales: π is on A, B, C, D, CF ar SEE THE NOTE AT END OF THIS LIST	pictures do not show this detail. No number Cultural Revolution Slide Rule 1002 1015-1 Hopp does not list it. Need complete information: listing of details of 1018 Hopp does not list it. Need complete information: listing of details of 5891 (Has same scales as K&E 4083-3 (1955 ) Hopp does not list it. Need complete information: listing of details of 5891 (Has same scales as K&E 4083-3 (1955 ) Hopp does not list it. Need complete information: listing of details of No. 1325 F, LL2, LL3    Note: Sr is radians; Sθ degrees nd DF; π/4 and M is on A and B; C and C1 are on C and D.	Same as listed       Hat         This appears to be a renamed Flying Fish 1002       Maybe same as listing under Flying Fish 1015-1         of dimensions, physical appearance, scales, gauge marks,cur       Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,cur       Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,cur       Maybe same as listing under Shanghai (China) 5891         of dimensions, physical appearance, scales, gauge marks,cur       25 cm.; Plastic face on laminated wood ; Cursor is not fit         Back scales:          Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2,         Cu       Cu
Need gauge marks and cursor lines information as <b>CHINA B</b> <b>CHINA S</b> <b>CHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>CHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>3CHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>3CHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>4COMPASS (JAPAN San-Ai Group)</b> Front scales:    Sr, Sθ, P', P    Q, CF, CI, C    D, D <b>Gauge Marks on scales:</b> π is on A, B, C, D, CF ar <b>SEE THE NOTE AT END OF THIS LIST</b>	pictures do not show this detail. No number Cultural Revolution Slide Rule 1002 1015-1 Hopp does not list it. Need complete information: listing of details of 1018 Hopp does not list it. Need complete information: listing of details of 5891 (Has same scales as K&E 4083-3 (1955 ) Hopp does not list it. Need complete information: listing of details of No. 1325 F, LL2, LL3    Note: Sr is radians; Sθ degrees nd DF; π/4 and M is on A and B; C and C1 are on C and D. TING REGARDING THE DIETZGEN SLIDE RULES. No. 1735 Maniphase Multiplex (Variation 1)1941 -52	Same as listed       Ha:         This appears to be a renamed Flying Fish 1002       Maybe same as listing under Flying Fish 1015-1         of dimensions, physical appearance, scales, gauge marks,cur       Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,cur       Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,cur       Maybe same as listing under Shanghai (China) 5891         of dimensions, physical appearance, scales, gauge marks,cur       25 cm.; Plastic face on laminated wood ; Cursor is not fr         Back scales:          Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, Cu         10 in.; Plastic face on wood ; Cursor is not framed. Adju
Need gauge marks and cursor lines information as OCHINA B OCHINA S ICHINA SHANGHAI Do not have a picture or manual for this slide rule. OCHINA SHANGHAI Do not have a picture or manual for this slide rule. ICHINA SHANGHAI Do not have a picture or manual for this slide rule. ICHINA SHANGHAI Do not have a picture or manual for this slide rule. ICHINA SHANGHAI Do not have a picture or manual for this slide rule. ICHINA SHANGHAI Do not have a picture or manual for this slide rule. ICOMPASS (JAPAN San-Ai Group) Front scales:    Sr, S0, P', P    Q, CF, CI, C    D, D Gauge Marks on scales: π is on A, B, C, D, CF an SEE THE NOTE AT END OF THIS LIST ICHING SCHORE (USA) Vector Type Log Log Front scales:    L, LL1, DF    CF, CIF, CI, C    D, J	pictures do not show this detail. No number Cultural Revolution Slide Rule 1002 1015-1 Hopp does not list it. Need complete information: listing of details of 1018 Hopp does not list it. Need complete information: listing of details of 5891 (Has same scales as K&E 4083-3 (1955 ) Hopp does not list it. Need complete information: listing of details of No. 1325 F, LL2, LL3    Note: Sr is radians; Sθ degrees nd DF; π/4 and M is on A and B; C and C1 are on C and D. TING REGARDING THE DIETZGEN SLIDE RULES. No. 1735 Maniphase Multiplex (Variation 1)1941 -52	Same as listed       Ha         This appears to be a renamed Flying Fish 1002         Maybe same as listing under Flying Fish 1015-1         of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Shanghai (China) 5891         of dimensions, physical appearance, scales, gauge marks,cur         25 cm.; Plastic face on laminated wood ; Cursor is not ff         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, Cu         10 in.; Plastic face on wood ; Cursor is not framed. Adju         Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, T
Need gauge marks and cursor lines information as OCHINA B OCHINA S OCHINA S OCHINA S OCHINA SHANGHAI Do not have a picture or manual for this slide rule. OCHINA SHANGHAI Do not have a picture or manual for this slide rule. OCHINA SHANGHAI Do not have a picture or manual for this slide rule. OCMPASS (JAPAN San-Ai Group) Front scales:    Sr, Sθ, P', P    Q, CF, CI, C    D, D Gauge Marks on scales: π is on A, B, C, D, CF an SEE THE NOTE AT END OF THIS LIST SDIETZGEN (USA) Vector Type Log Log Front scales:    L, LL1, DF    CF, CIF, CI, C    D, J Gauge Marks on scales: π is on A, B, CF, and DF SDIETZGEN (USA) Vector Type Log Log	pictures do not show this detail. No number Cultural Revolution Slide Rule 1002 1015-1 Hopp does not list it. Need complete information: listing of details of 1018 Hopp does not list it. Need complete information: listing of details of 5891 (Has same scales as K&E 4083-3 (1955) Hopp does not list it. Need complete information: listing of details of No. 1325 F, LL2, LL3    Note: Sr is radians; S0 degrees nd DF; π/4 and M is on A and B; C and C1 are on C and D. TING REGARDING THE DIETZGEN SLIDE RULES. No. 1735 Maniphase Multiplex (Variation 1)1941 -52 LL3, LL2   <sup>2</sup> ; π /4 is on A and B scales; The marks 1°, ' and " are on scale ST. No. 1735 Maniphase Multiplex (Variation 2) 1950	Same as listed       Ha:         This appears to be a renamed Flying Fish 1002         Maybe same as listing under Flying Fish 1015-1         of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Shanghai (China) 5891         of dimensions, physical appearance, scales, gauge marks,cur         25 cm.; Plastic face on laminated wood ; Cursor is not framed. Scales:         Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, Cu         10 in.; Plastic face on wood ; Cursor is not framed. Adju         Back scales:          LL0, LL00, A    B, T&T, ST, S&S    D, T         Cu
Need gauge marks and cursor lines information as <b>OCHINA B</b> <b>OCHINA S</b> <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICOMPASS (JAPAN San-Ai Group)</b> Front scales: $   Sr, S0, P', P    Q, CF, CI, C    D, D$ <b>Gauge Marks on scales:</b> $\pi$ is on A, B, C, D, CF at <b>SEE THE NOTE AT END OF THIS LIST</b> <b>5DIETZGEN (USA) Vector Type Log Log</b> Front scales: $   L, L1, DF    CF, CIF, CI, C    D, 1$ <b>Gauge Marks on scales:</b> $\pi$ is on A, B, CF, and DF <b>5DIETZGEN (USA) Vector Type Log Log</b> Front scales: $   LL02, LL03, DF    CF, CIF, CI, C    C, C$	pictures do not show this detail. No number Cultural Revolution Slide Rule 1002 1015-1 Hopp does not list it. Need complete information: listing of details of 1018 Hopp does not list it. Need complete information: listing of details of 5891 (Has same scales as K&E 4083-3 (1955 ) Hopp does not list it. Need complete information: listing of details of No. 1325 F, LL2, LL3    Note: Sr is radians; S0 degrees nd DF; $\pi/4$ and M is on A and B; C and C1 are on C and D. ING REGARDING THE DIETZGEN SLIDE RULES. No. 1735 Maniphase Multiplex (Variation 1)1941 -52 LL3, LL2   F; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST. No. 1735 Maniphase Multiplex (Variation 2) 1950    D, LL3, LL2	Same as listed       Ha:         This appears to be a renamed Flying Fish 1002         Maybe same as listing under Flying Fish 1015-1         of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Shanghai (China) 5891         of dimensions, physical appearance, scales, gauge marks,cur         25 cm.; Plastic face on laminated wood ; Cursor is not ff         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2,         Cu         10 in.; Plastic face on wood ; Cursor is not framed. Adju         Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, T         Cu         10 in.; Plastic face on wood; Cursor has metal frame. Active
Need gauge marks and cursor lines information as OCHINA B OCHINA S OCHINA S OCHINA S OCHINA SHANGHAI Do not have a picture or manual for this slide rule. OCHINA SHANGHAI Do not have a picture or manual for this slide rule. OCHINA SHANGHAI Do not have a picture or manual for this slide rule. OCHINA SHANGHAI Do not have a picture or manual for this slide rule. COMPASS (JAPAN San-Ai Group) Front scales:    Sr, S0, P', P    Q, CF, CI, C    D, D Gauge Marks on scales: π is on A, B, C, D, CF at SEE THE NOTE AT END OF THIS LIST DIETZGEN (USA) Vector Type Log Log Front scales:    LL1, DF    CF, CIF, CI, C    D, 1 Gauge Marks on scales: π is on A, B, CF, and DF SDIETZGEN (USA) Vector Type Log Log Front scales:    LL02, LL03, DF    CF, CIF, CI, C Gauge Marks on scales: π is on A, B, CF, and DF	pictures do not show this detail. No number Cultural Revolution Slide Rule 1002 1015-1 Hopp does not list it. Need complete information: listing of details of 1018 Hopp does not list it. Need complete information: listing of details of 5891 (Has same scales as K&E 4083-3 (1955) Hopp does not list it. Need complete information: listing of details of No. 1325 F, LL2, LL3    Note: Sr is radians; S0 degrees nd DF; π/4 and M is on A and B; C and C1 are on C and D. TING REGARDING THE DIETZGEN SLIDE RULES. No. 1735 Maniphase Multiplex (Variation 1)1941 -52 LL3, LL2   <sup>2</sup> ; π /4 is on A and B scales; The marks 1°, ' and " are on scale ST. No. 1735 Maniphase Multiplex (Variation 2) 1950	Same as listed       Ha         This appears to be a renamed Flying Fish 1002         Maybe same as listing under Flying Fish 1015-1         of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Shanghai (China) 5891         of dimensions, physical appearance, scales, gauge marks,cur         Maybe same as listing under Shanghai (China) 5891         of dimensions, physical appearance, scales, gauge marks,cur         25 cm.; Plastic face on laminated wood ; Cursor is not fi         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, Cu         10 in.; Plastic face on wood ; Cursor is not framed. Adju         Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, T         Cu         10 in.; Plastic face on wood; Cursor has metal frame. Addition in.; Plastic face on wood; Cursor has metal frame. Addition in.; Plastic face on wood; Cursor has metal frame. Addition in.; Plastic face on wood; Cursor has metal frame. Addition in.; Plastic face on wood; Cursor has metal frame. Addition in.; Plastic face on wood; Cursor has metal frame. Addition in.; Plastic face on wood; Cursor has metal frame. Addition in.; Plastic face on wood; Cursor has metal frame. Addition in.; Plastic face on wood; Cursor has metal frame. Addition in.; Plastic face on wood; Cursor has metal frame. Addition in.; Plastic face on wood; Cursor has metal frame. Addition in.; Plastic face on wood; Cursor has metal frame. Addition in.; Plastic face on wood; Cursor
Need gauge marks and cursor lines information as <b>DCHINA B</b> <b>DCHINA S</b> <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICOMPASS (JAPAN San-Ai Group)</b> Front scales: $   Sr, S\theta, P', P    Q, CF, CI, C    D, D. Gauge Marks on scales: \pi is on A, B, C, D, CF arSEE THE NOTE AT END OF THIS LIST5DIETZGEN (USA) Vector Type Log LogFront scales:    LL1, DF    CF, CIF, CIF, CI, C    D, D. Gauge Marks on scales: \pi is on A, B, CF, and DF6DIETZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C    C, D. Gauge Marks on scales: \pi is on A, B, CF, and DF7DIETZGEN (USA) Vector Type Log Log$	pictures do not show this detail. No number Cultural Revolution Slide Rule 1002 1015-1 Hopp does not list it. Need complete information: listing of details of 1018 Hopp does not list it. Need complete information: listing of details of 5891 (Has same scales as K&E 4083-3 (1955) Hopp does not list it. Need complete information: listing of details of No. 1325 F, LL2, LL3    Note: Sr is radians; S0 degrees nd DF; $\pi/4$ and M is on A and B; C and C1 are on C and D. TING REGARDING THE DIETZGEN SLIDE RULES. No. 1735 Maniphase Multiplex (Variation 1)1941 -52 LL3, LL2   $T; \pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST. No. 1725 Maniphase Multiplex (Variation 2) 1950    D, LL3, LL2   $T; \pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST. No. 1725 Maniphase Multiplex	Same as listed       Haster         This appears to be a renamed Flying Fish 1002       Maybe same as listing under Flying Fish 1015-1         of dimensions, physical appearance, scales, gauge marks,cur       Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,cur       Maybe same as listing under Shanghai (China) 5891         of dimensions, physical appearance, scales, gauge marks,cur       Maybe same as listing under Shanghai (China) 5891         of dimensions, physical appearance, scales, gauge marks,cur       25 cm.; Plastic face on laminated wood ; Cursor is not fr         Back scales:          Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, Cu         10 in.; Plastic face on wood ; Cursor is not framed. Adju         Back scales:          Ll0, LL00, A    B, T&T, ST, S&S    D, T         10 in.; Plastic face on wood; Cursor has metal frame. Ad         Back scales:          L, LL01, LL1, A    B, T&T, ST, S&S    D, T         Cu       25 cm; Plastic face on wood; Cursor has metal frame. Ad
Need gauge marks and cursor lines information as <b>OCHINA B</b> <b>OCHINA S</b> <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICOMPASS (JAPAN San-Ai Group)</b> Front scales: $   Sr, S0, P', P    Q, CF, CI, C    D, D. Gauge Marks on scales: \pi is on A, B, C, D, CF arSEE THE NOTE AT END OF THIS LISTICAUSA VECTO TYPE Log LogFront scales:    L, LL1, DF    CF, CIF, CI, C    D, D. Gauge Marks on scales: \pi is on A, B, CF, and DFICITZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C, CIFCILTZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C, CIFICITZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C, CIF$	pictures do not show this detail. No number Cultural Revolution Slide Rule 1002 1015-1 Hopp does not list it. Need complete information: listing of details of 1018 Hopp does not list it. Need complete information: listing of details of 5891 (Has same scales as K&E 4083-3 (1955) Hopp does not list it. Need complete information: listing of details of No. 1325 F, LL2, LL3    Note: Sr is radians; S0 degrees nd DF; $\pi/4$ and M is on A and B; C and C1 are on C and D. TNG REGARDING THE DIETZGEN SLIDE RULES. No. 1735 Maniphase Multiplex (Variation 1)1941 -52 LL3, LL2   $\gamma$ ; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST. No. 1735 Maniphase Multiplex (Variation 2) 1950    D, LL3, LL2   $\gamma$ ; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST. No. 1725 Maniphase Multiplex    D, LL3, LL2	Same as listed       Hass         This appears to be a renamed Flying Fish 1002         Maybe same as listing under Flying Fish 1015-1         of dimensions, physical appearance, scales, gauge marks,curs         Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,curs         Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,curs         Maybe same as listing under Shanghai (China) 5891         of dimensions, physical appearance, scales, gauge marks,curs         25 cm.; Plastic face on laminated wood ; Cursor is not fra         Back scales:       Sh1, A    B, K, Th, C    D, Tr1, Tr2,         Cur         10 in.; Plastic face on wood ; Cursor is not framed. Adjur         Back scales:       LL0, LL00, A    B, T&T, ST, S&S    D, T         10 in.; Plastic face on wood; Cursor has metal frame. Ad         Back scales:       L, LL01, LL1, A    B, T&T, ST, S&S    D         Cur       Cur         25 cm; Plastic face on wood; Cursor has metal frame. Ad         Back scales:       Sh1, Sh2, Th, A    B, T&T, ST, S&S    D
Need gauge marks and cursor lines information as <b>OCHINA B</b> <b>OCHINA S</b> <b>OCHINA S</b> <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>OCHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICHINA SHANGHAI</b> Do not have a picture or manual for this slide rule. <b>ICOMPASS (JAPAN San-Ai Group)</b> <b>Front scales:</b> $   Sr, S\theta, P', P    Q, CF, CI, C    D, D Gauge Marks on scales: \pi is on A, B, C, D, CF arSEE THE NOTE AT END OF THIS LISTSDIETZGEN (USA) Vector Type Log LogFront scales:    L, LL1, DF    CF, CIF, CI, C    D, D Gauge Marks on scales: \pi is on A, B, CF, and DFSDIETZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C, Gauge Marks on scales: \pi is on A, B, CF, and DFTDIETZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C, Gauge Marks on scales: \pi is on A, B, CF, and DFTDIETZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C, C Gauge Marks on scales: \pi is on A, B, CF, and DFTDIETZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C, C Gauge Marks on scales: \pi is on A, B, CF, and DFTDIETZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C, C Gauge Marks on scales: \pi is on A, B, CF, and DFTDIETZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C, CGauge Marks on scales: \pi is on A, B, CF, and DFTDIETZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C, CGauge Marks on scales: \pi is on A, B, CF, and DFTDIETZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C, CGauge Marks on scales: \pi is on A, B, CF, and DFTDIETZGEN (USA) Vector Type Log LogFront scales:    LL02, LL03, DF    CF, CIF, CI, C, CGauge Marks on scales: \pi is on A, B, CF, and DFTDIETZGEN (USA) Vector Type Log LogFront scales:    L02, LL0$	pictures do not show this detail. No number Cultural Revolution Slide Rule 1002 1015-1 Hopp does not list it. Need complete information: listing of details of 1018 Hopp does not list it. Need complete information: listing of details of 5891 (Has same scales as K&E 4083-3 (1955 ) Hopp does not list it. Need complete information: listing of details of No. 1325 F, LL2, LL3    Note: Sr is radians; S0 degrees nd DF; π/4 and M is on A and B; C and C1 are on C and D. TNG REGARDING THE DIETZGEN SLIDE RULES. No. 1735 Maniphase Multiplex (Variation 1)1941 -52 LL3, LL2   Y; π /4 is on A and B scales; The marks 1°, ' and " are on scale ST. No. 1725 Maniphase Multiplex    D, LL3, LL2   Y; π /4 is on A and B scales; The marks 1°, ' and " are on scale ST. No. 1725 Maniphase Multiplex    D, LL3, LL2   Y; π /4 is on A and B scales; The marks 1°, ' and " are on scale ST. No. 1725 Maniphase Multiplex	This appears to be a renamed Flying Fish 1002 Maybe same as listing under Flying Fish 1015-1 of dimensions, physical appearance, scales, gauge marks,curr Maybe same as listing under Flying Fish 1018 of dimensions, physical appearance, scales, gauge marks,curr Maybe same as listing under Shanghai (China) 5891 of dimensions, physical appearance, scales, gauge marks,curr 25 cm.; Plastic face on laminated wood ; Cursor is not fr Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, Cur 10 in.; Plastic face on wood ; Cursor is not framed. Adju Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, T U 10 in.; Plastic face on wood; Cursor has metal frame. Ad Back scales:    L, LL01, LL1, A    B, T&T, ST, S&S    D Cur 25 cm; Plastic face on wood ;Cursor has metal frame. Ad Back scales:    Sh1, Sh2, Th, A    B, T&T, ST, S&S    D Cur
Need gauge marks and cursor lines information as OCHINA B OCHINA S ICHINA SHANGHAI Do not have a picture or manual for this slide rule. ICHINA SHANGHAI Do not have a picture or manual for this slide rule. ICHINA SHANGHAI Do not have a picture or manual for this slide rule. ICHINA SHANGHAI Do not have a picture or manual for this slide rule. ICOMPASS (JAPAN San-Ai Group) Front scales:    Sr, Sθ, P', P    Q, CF, CI, C    D, D Gauge Marks on scales: π is on A, B, C, D, CF ar SEE THE NOTE AT END OF THIS LIST ICTZGEN (USA) Vector Type Log Log Front scales:    LL02, LL03, DF    CF, CIF, CI, C, C Gauge Marks on scales: π is on A, B, CF, and DF TDETZGEN (USA) Vector Type Log Log Front scales:    LL02, LL03, DF    CF, CIF, CI, C Gauge Marks on scales: π is on A, B, CF, and DF TDETZGEN (USA) Vector Type Log Log Front scales:    LL02, LL03, DF    CF, CIF, CI, C Gauge Marks on scales: π is on A, B, CF, and DF TDETZGEN (USA) Vector Type Log Log Front scales:    LL02, LL03, DF    CF, CIF, CI, C Gauge Marks on scales: π is on A, B, CF, and DF TDETZGEN (USA) Vector Type Log Log Front scales:    LL02, LL03, DF    CF, CIF, CI, C Gauge Marks on scales: π is on A, B, CF, and DF TDETZGEN (USA) Vector Type Log Log Front scales:    LL02, LL03, DF    CF, CIF, CI, C	pictures do not show this detail. No number Cultural Revolution Slide Rule 1002 1015-1 Hopp does not list it. Need complete information: listing of details of 1018 Hopp does not list it. Need complete information: listing of details of 5891 (Has same scales as K&E 4083-3 (1955) Hopp does not list it. Need complete information: listing of details of No. 1325 F, LL2, LL3    Note: Sr is radians; S0 degrees nd DF; $\pi/4$ and M is on A and B; C and C1 are on C and D. TNG REGARDING THE DIETZGEN SLIDE RULES. No. 1735 Maniphase Multiplex (Variation 1)1941 -52 LL3, LL2   $\gamma$ ; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST. No. 1735 Maniphase Multiplex (Variation 2) 1950    D, LL3, LL2   $\gamma$ ; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST. No. 1725 Maniphase Multiplex    D, LL3, LL2	Same as listed       Has         This appears to be a renamed Flying Fish 1002         Maybe same as listing under Flying Fish 1015-1         of dimensions, physical appearance, scales, gauge marks,curr         Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,curr         Maybe same as listing under Flying Fish 1018         of dimensions, physical appearance, scales, gauge marks,curr         Maybe same as listing under Shanghai (China) 5891         of dimensions, physical appearance, scales, gauge marks,curr         25 cm.; Plastic face on laminated wood ; Cursor is not fr         Back scales:       Sh1, A    B, K, Th, C    D, Tr1, Tr2,         Curr         10 in.; Plastic face on wood ; Cursor is not framed. Adju         Back scales:       LL0, LL00, A    B, T&T, ST, S&S    D, T         Cur         10 in.; Plastic face on wood; Cursor has metal frame. Ad         Back scales:       L, LL01, LL1, A    B, T&T, ST, S&S    D         Cur         25 cm; Plastic face on wood; Cursor has metal frame. Ad         Back scales:       Sh1, Sh2, Th, A    B, T&T, ST, S&S    D         Cur         25 cm; Plastic face on wood; Cursor has metal frame. Ad         Back scales:       Sh1, Sh2, Th, A    B, T&T, ST, S&S    D         Cur       Source: Hopp page 161.

Front scales:    LL01, LL02, LL03, DF    CF, CIF, L, O		<b>Back scales:</b>    Th, Sh2, Sh1, A    B, T<45°&T<45°, T>45
	/4 is on A and B scales; The marks 1°, ' and " are on scale ST. No. N1725 Micromatic	Curs 25 cm; Plastic face on wood ;Cursor has metal frame. Adj
20DIETZGEN (USA) Vector Type Log Log This "Micromatic Adjustment" slide rule is the same as	s the N1725, Microglide, but has a special screw for fine adjusting	
21DIETZGEN (USA) Vector Type Log Log	<b>No. B-1725 (Made in Japan)</b> 1972	25 cm.;Plastic face on laminated wood ;Cursor not framed
<b>Front scales:</b>    Th, Sh2, Sh1, A    B, T<45°&T<45°, T Gauge Marks on scales: $\pi$ is on A, B, CF, and DF; $\pi$	[>45% T>45% ST, S&S    D, DI, K   /4 is on A and B scales; The marks 1°, ' and " are on scale ST.	Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, Curs
22DING FENG (China) Front scales:    2D, L, K, A    Tan&Cot, Sin&Cos, H', (	Slide Rule has no ID No. or name on it; Box has No. 5471	25 cm.; Plastic face on laminated wood; Cursor is framed; Back scales:    LL1I, LL2I, LL3I, DF    CF, CIF, H, CI, C
Gauge Marks on scales: on front C scale are the mark		Curs
23aDING FENG (China)	No. 5471 Duplex Vector	Source: Hopp page 161 25 cm.; Plastic face on lamina
Front scales:    Th, L, K, A    B, S, H, T, C    D, DI, Sh Gauge Marks on scales: Need information	2, Sh1	Back scales:    LL01, LL02, LL03, DF    CF, CIF, H, CI, Curs
23bDING FENG (China)	No. 5571	25 cm; Plastic face on laminated wood ;Cursor is not fram
Front scales:    2D, L, K, A    Tan&Cot, Sin&Cos, H', Gauge Marks on scales: on front C scale has the mark		) Back scales:    LL1I, LL2I, LL3I, DF    CF, CIF, H, CI, C Curs
24aDING FENG (China)	No. 5651	Scales were hard to read on eBAY, but seem similar to the
	pp does not list it. Need complete information: listing of details of	
24bDING FENG (China) Front scales:    LL11, LL21, LL31, DF    CF, CIF, H, C	<b>No. 5810</b> $\Box \subset \Box D \sqcup J \sqcup J \sqcup 2 \sqcup 1 \Box \Box = CE and DE are folded at \sqrt{10}$	25 cm; Plastic face on wood ;Cursor is not framed; Adjust <b>Back scales:</b>    Th, L, K, A    B, S&S, H', T&T, C    D, DI
	; and C, D, and DF front scales; The marks 1° and R are on back s	
25DING FENG (China)	No. 5852	
Do not have a picture or manual for this slide rule. Hop	op does not list it. Need complete information: listing of details of	dimensions, physical appearance, scales, gauge marks, curs
26ECKEL (The Eckel Co., USA)	Engineer's Log Log (Circular Slide Rule)	This is the only known circular slide rule with hyperbolic
Scales are printed on cursor: Front from center to e	edge:   LLI, LL2, LL3, LL4, C    D, DI, A, K, L    Back from cent	er to edge:    SH1, SH2, TH, D, ST, S, T<45°, T>45°
27FABER-CASTELL (Germany)		6Source: Hopp page 172 20 cm.; Plastic, Cursor is not
	o name the scales such as, A, C, CIF, S, etc. Instead formulas o	
	(1), sqrt X    sqrt X, (1 / sqrt X), 1/y, y    Y, sqrt(1 - $X^2$ ), sin X <sup>g</sup> , ( $Y^2$ ), $Y^2$    $y^2$ , $1/y^2$ , $1/y$ , y    Y, sqrt(1 - $Y^2$ ), $gsin Y$ , (II	
		2.0
	$   \tanh x^{g}, 0.1 \cosh x^{g}, 0.1 \sinh x^{g}, \sinh x^{g}    10 \ln X, \ln X, 0.1 \ln x^{g}$	
<b>Gauge Marks on scales:</b> There are no gauge marks or	$\parallel$ <sup>g</sup> tanh y, <sup>g</sup> cosh 10y, <sup>g</sup> sinh 10y, <sup>g</sup> sinh y $\parallel$ e <sup>0,1Y</sup> , e <sup>Y</sup> , e <sup>1</sup>	
Cursor Front : under the upper two sqrt X scales wer	The scales. The two lines to the left at $2\pi$ and $\pi/4$ ; and to the right were two lines as were two lines to the left at $2\pi$ and $\pi/4$ ; and to the right were two	<i>y</i> 1
	les were two lines at left at $2\pi$ and $\pi/4$ ; and at right were two mark	
28FABER-CASTELL (Germany)	Mathema No. 2/84N	20 cm.; Plastic, Cursor is not framed. Adj
	1), sqrt X    sqrt X, (1 / sqrt X), 1/y, y    Y, sqrt(1 - X <sup>2</sup> ), sin X <sup>g</sup> , (	
	$\chi^{(2)}$ , $\chi^{2} \parallel \chi^{2}$ , $1/y^{2}$ , $1/y$ , $y \parallel Y$ , sqrt(1 - $\chi^{2}$ ), $g_{sin}Y$ , (lr	
	$   y, 0.1 \cosh x^{g}, 0.1 \sinh x^{g}, \sinh x^{g}    \tanh x^{g}, -0.1 \ln X, -\ln X,$	
<b>Back Scales(on right side):</b>    e <sup>3,1</sup> , e <sup>1</sup> , e <sup>10</sup> , Y <b>Gauge Marks on scales:</b> There are no gauge marks or	$\ y, g \cosh 10y, g \sinh 10y, g \sinh y\ ^{g} \tanh y, e^{-10Y}, e^{-Y}$	e <sup>-0,11</sup>
Cursor Front : under the upper two sqrt X scales wer	e two lines to the left at $2\pi$ and $\pi/4$ ; and to the right were two lines so were two lines to the left at $2\pi$ and $\pi/4$ ; and to the right were two	
· · · · · · · · · · · · · · · · · · ·	les were two lines at left at $2\pi$ and $\pi/4$ ; and at right were two mark	· ·
29FABER-CASTELL (Germany)	989 Complex Hyperbolic Function Calculator	
	wn in the 1966 F-C catalog. It is very large; about 21 x 31 cm., and	
	h than a slide rule. Peter sent me translations that Dieter had ma	
functions. Also, Richard Hughes, kindly sent me very		de of the manual. Using this device you can find solutions
functions. Also, Richard Hughes, kindly sent me very of 30FLYING FISH (China)	h than a slide rule. Peter sent me translations that Dieter had ma	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon the
30FLYING FISH (China) Front scales:    Ln1I, Ln2I, Ln3I, DF    CF, CIF, H2, F	h than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a <b>No. 1002</b> H3, CI, C    D, Ln3, Ln2, Ln1   CF is folded at √10	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon the 25 cm.; Plastic; Cursor is not framed. Has fixed plastic of Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg
<b>30FLYING FISH (China)</b> Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, F Gauge Marks on scales: π is on A, B, C, D, and DF; τ	<ul> <li>h than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a No. 1002</li> <li>H3, CI, C    D, Ln3, Ln2, Ln1   CF is folded at √10 π/4 is on A and B; 1° and R are on C and D; v on K. Cursor Front</li> </ul>	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon th 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b>    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg :: Has KW at top middle; HP(**) is at right and π/4 left ov
30FLYING FISH (China) Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, H Gauge Marks on scales: π is on A, B, C, D, and DF; 7 31FLYING FISH (China)	<ul> <li>h than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a No. 1002</li> <li>H3, CI, C    D, Ln3, Ln2, Ln1   CF is folded at √10 π/4 is on A and B; 1° and R are on C and D; v on K. Cursor Front No. 1003</li> </ul>	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon th 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b> $  $ sh2, sh3, K, A $  $ B, sin2cos2, H'2, tg2ct :: Has KW at top middle; HP(**) is at right and $\pi/4$ left ov 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e
30FLYING FISH (China)         Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, F         Gauge Marks on scales: π is on A, B, C, D, and DF; t         31FLYING FISH (China)         Front Scales:    ln1_2, ln1_1, ln1_0, ln1_1, DF    CF, CIF, H	h than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a <b>No. 1002</b> H3, CI, C    D, Ln3, Ln2, Ln1   CF is folded at √ 10 π/4 is on A and B; 1° and R are on C and D; v on K. Cursor Front <b>No. 1003</b> 0, H1, H <sup>1</sup> 0, CI, C    D, ln1, ln0, ln1, lnGH is folded at √ 10	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon th 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b> $  $ sh2, sh3, K, A $  $ B, sin2cos2, H'2, tg2ctg :: Has KW at top middle; HP(**) is at right and $\pi/4$ left ov 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b> $  $ sh <sub>0</sub> , sh <sub>1</sub> , cu <sub>1</sub> , cu <sub>2</sub> , cu <sub>3</sub> $  $ lq <sub>1</sub> <sup>-1</sup> , tg <sub>0</sub> ctg <sub>0</sub> , tg <sub>1</sub> c
30FLYING FISH (China) Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, F Gauge Marks on scales: π is on A, B, C, D, and DF; π 31FLYING FISH (China) Front Scales:    ln1 <sub>-2</sub> , ln1 <sub>-1</sub> , ln1 <sub>0</sub> , ln1 <sub>1</sub> , DF    CF, CIF, H, Gauge Marks on scales: π is on C, D, and DF; v and	h than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a <b>No. 1002</b> H3, CI, C    D, Ln3, Ln2, Ln1   CF is folded at √ 10 π/4 is on A and B; 1° and R are on C and D; v on K. Cursor Front <b>No. 1003</b> 0, H1, H <sup>0</sup> <sub>0</sub> , CI, C    D, ln1, ln0, ln1, ln2H is folded at √ 10 s are on CI. (Variations exist with v, v1, and s on scale C)	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon th 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b> $  $ sh2, sh3, K, A $  $ B, sin2cos2, H'2, tg2ctg :: Has KW at top middle; HP(**) is at right and $\pi/4$ left ove 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b> $  $ sh <sub>0</sub> , sh <sub>1</sub> , cu <sub>1</sub> , cu <sub>2</sub> , cu <sub>3</sub> $  $ lq <sub>1</sub> <sup>-1</sup> , tg <sub>0</sub> ctg <sub>0</sub> , tg <sub>1</sub> c Cursor Front and Back: has no marks. Bac
30FLYING FISH (China)         Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, F         Gauge Marks on scales: π is on A, B, C, D, and DF; π         31FLYING FISH (China)         Front Scales:    In1_2, In1_1, In1_0, In1_1, DF    CF, CIF, H_4         Gauge Marks on scales: π is on C, D, and DF; ν and         32FLYING FISH (China)         Front scales:    Th, Ch, K, A    B, T&T, ST&ST, S&S	h than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a <b>No. 1002</b> H3, C1, C    D, Ln3, Ln2, Ln1   CF is folded at $\sqrt{10}$ π/4 is on A and B; 1° and R are on C and D; v on K. Cursor Front <b>No. 1003</b> 0, H1, H'0, CI, C    D, ln1, ln0, ln.1, lnQf  is folded at $\sqrt{10}$ s are on CI. (Variations exist with v, v1, and s on scale C) <b>No. 1004</b> , C    D, DI, Sh2, Sh1    CF and DF are folded at π	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon th 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg :: Has KW at top middle; HP(**) is at right and $\pi/4$ left ov 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    sh <sub>0</sub> , sh <sub>1</sub> , cu <sub>1</sub> , cu <sub>2</sub> , cu <sub>3</sub>    lq <sub>1</sub> <sup>-1</sup> , tg <sub>0</sub> ctg <sub>0</sub> , tg <sub>1</sub> ( Cursor Front and Back: has no marks. Bac 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI,
30FLYING FISH (China)         Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, F         Gauge Marks on scales: π is on A, B, C, D, and DF; π         31FLYING FISH (China)         Front Scales:    ln12, ln10, ln11, DF    CF, CIF, H1         Gauge Marks on scales: π is on C, D, and DF; ν and         32FLYING FISH (China)         Front scales:    ln12, ln10, ln11, DF    CF, CIF, H1         Gauge Marks on scales: π is on C, D, and DF; ν and         32FLYING FISH (China)         Front scales:    Th, Ch, K, A    B, T&T, ST&ST, S&S         Gauge Marks on scales: π is on A, B, C, D, CF, and I	bit than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a No. 1002 H3, C1, C    D, Ln3, Ln2, Ln1   CF is folded at $\sqrt{10}$ $\pi/4$ is on A and B; 1° and R are on C and D; v on K. Cursor Front No. 1003 $_0$ , H1, H' $_0$ , C1, C    D, ln1, ln0, ln.1, lnQf  is folded at $\sqrt{10}$ s are on CI. (Variations exist with v, v1, and s on scale C) No. 1004 , C    D, DI, Sh2, Sh1    CF and DF are folded at $\pi$ DF; $\pi/4$ is on A and B; v is on K. Cursor Front: Has KW at to	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon th 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg :: Has KW at top middle; HP(**) is at right and $\pi/4$ left ov 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    sh <sub>0</sub> , sh <sub>1</sub> , cu <sub>1</sub> , cu <sub>2</sub> , cu <sub>3</sub>    lq <sub>1</sub> <sup>-1</sup> , tg <sub>0</sub> ctg <sub>0</sub> , tg <sub>1</sub> Cursor Front and Back: has no marks. Bac 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ left over the A & B sc
30FLYING FISH (China)         Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, F         Gauge Marks on scales: π is on A, B, C, D, and DF; π         31FLYING FISH (China)         Front Scales:    In1.2, In1.1, In10, In11, DF    CF, CIF, H,         Gauge Marks on scales: π is on C, D, and DF; ν and         32FLYING FISH (China)         Front scales:    Th, Ch, K, A    B, T&T, ST&ST, S&S         Gauge Marks on scales: π is on A, B, C, D, CF, and I         33FLYING FISH (China)         Front scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S	bit than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a No. 1002 H3, C1, C    D, Ln3, Ln2, Ln1   CF is folded at $\sqrt{10}$ $\pi/4$ is on A and B; 1° and R are on C and D; v on K. Cursor Front No. 1003 $_0$ , H1, H'_0, CI, C    D, ln1, ln0, ln_1, lnQF  is folded at $\sqrt{10}$ s are on CI. (Variations exist with v, v1, and s on scale C) No. 1004 , C    D, DI, Sh2, Sh1    CF and DF are folded at $\pi$ DF; $\pi/4$ is on A and B; v is on K. Cursor Front: Has KW at top No. 1009 , C    D, DI, P, Th    CF is folded at $\sqrt{10}$	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon th 25 cm.; Plastic; Cursor is not framed. Has fixed plastic ef Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg 1: Has KW at top middle; HP(**) is at right and $\pi/4$ left ov 25 cm.; Plastic; Cursor is not framed. Has fixed plastic ef Back scales:    sh <sub>0</sub> , sh <sub>1</sub> , cu <sub>1</sub> , cu <sub>2</sub> , cu <sub>3</sub>    lq <sub>1</sub> <sup>-1</sup> , tg <sub>0</sub> ctg <sub>0</sub> , tg <sub>1</sub> · Cursor Front and Back: has no marks. Bac 25 cm.; Plastic; Cursor is not framed. Has fixed plastic ef Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ left over the A & B se 25 cm.; Plastic; Cursor is not framed. Has fixed plastic ef Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ left over the A & B se 25 cm.; Plastic; Cursor is not framed. Has fixed plastic ef Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ left over the A & B se 25 cm.; Plastic; Cursor is not framed. Has fixed plastic ef Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ left over the A & B se 25 cm.; Plastic; Cursor is not framed. Has fixed plastic ef Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ left over the A & B se 25 cm.; Plastic; Cursor is not framed. Has fixed plastic ef Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is not plastic plastic eff Back scales:    L01, LL02, LL03, DF    CF, CIF, L, CI, Plastic eff Back scales:    L01, LL02, LL03, DF    CF, CIF, L, CI, Plastic eff Back scales:    L01, L02, LL03, DF    CF, CIF, L, CI, Plastic eff Back scales:    L01, L02, LL03, DF    CF, CIF, L, CI, Plastic eff Back scales:    L01, L02, L03, DF    CF, CIF, L, CI, Plastic eff Back scales:    L01, L02, L03, DF    CF, CIF, L03, DF    CF, CI
30FLYING FISH (China) Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, F Gauge Marks on scales: π is on A, B, C, D, and DF; π 31FLYING FISH (China) Front Scales:    ln1 <sub>-2</sub> , ln1 <sub>-1</sub> , ln1 <sub>0</sub> , ln1 <sub>1</sub> , DF    CF, CIF, H, Gauge Marks on scales: π is on C, D, and DF; v and 32FLYING FISH (China) Front scales:    Th, Ch, K, A    B, T&T, ST&ST, S&S Gauge Marks on scales: π is on A, B, C, D, CF, and I 33FLYING FISH (China) Front scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S Gauge Marks on scales: π is on A, B, C, D, and DF; z	bit than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a No. 1002 H3, C1, C    D, Ln3, Ln2, Ln1   CF is folded at $\sqrt{10}$ $\pi/4$ is on A and B; 1° and R are on C and D; v on K. Cursor Front No. 1003 $_0$ , H1, H'_0, CI, C    D, ln1, ln0, ln_1, lnQF  is folded at $\sqrt{10}$ s are on C. (Variations exist with v, v1, and s on scale C) No. 1004 , C    D, DI, Sh2, Sh1    CF and DF are folded at $\pi$ DF; $\pi/4$ is on A and B; v is on K. Cursor Front: Has KW at top No. 1009 $_{1}$ , C    D, DI, P, Th    CF is folded at $\sqrt{10}$ $_{1}$ CF is folded at $\sqrt{10}$ Cursor Front: Has KW at top	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon th 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg :: Has KW at top middle; HP(**) is at right and $\pi/4$ left ov 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    sh <sub>0</sub> , sh <sub>1</sub> , cu <sub>1</sub> , cu <sub>2</sub> , cu <sub>3</sub>    lq <sub>1</sub> <sup>-1</sup> , tg <sub>0</sub> ctg <sub>0</sub> , tg <sub>1</sub> ( Cursor Front and Back: has no marks. Bac 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ left over the A & B sc 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ neft over the A & B sc
30FLYING FISH (China)         Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, F         Gauge Marks on scales: π is on A, B, C, D, and DF; π         31FLYING FISH (China)         Front Scales:    In1.2, In1.1, In10, In11, DF    CF, CIF, H,         Gauge Marks on scales: π is on C, D, and DF; ν and         32FLYING FISH (China)         Front scales:    Th, Ch, K, A    B, T&T, ST&ST, S&S         Gauge Marks on scales: π is on A, B, C, D, CF, and I         33FLYING FISH (China)         Front scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S	bit than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a No. 1002 H3, Cl, C    D, Ln3, Ln2, Ln1   CF is folded at √10 π/4 is on A and B; 1° and R are on C and D; v on K. Cursor Front No. 1003 0, H1, H'0, Cl, C    D, ln1, ln0, ln_1, lnCF  is folded at √10 s are on Cl. (Variations exist with v, v1, and s on scale C) No. 1004 , C    D, DI, Sh2, Sh1    CF and DF are folded at π DF; π/4 is on A and B; v is on K. Cursor Front: Has KW at top No. 1009 , C    D, DI, P, Th    CF is folded at √10 π/4 is on A and B; v is on K. Cursor Front: Has KW at top No. 1015 and 1015-1	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon th 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b>    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg :: Has KW at top middle; HP(**) is at right and $\pi/4$ left ov 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b>    sh <sub>0</sub> , sh <sub>1</sub> , cu <sub>1</sub> , cu <sub>2</sub> , cu <sub>3</sub>    lq <sub>1</sub> <sup>-1</sup> , tg <sub>0</sub> ctg <sub>0</sub> , tg <sub>1</sub> c <b>Cursor Front and Back</b> : has no marks. <b>Bac</b> 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b>    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ left over the A & B set 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b>    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ on left over the A & B set 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b>    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ on left over the A & B set 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e
30FLYING FISH (China) Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, F Gauge Marks on scales: π is on A, B, C, D, and DF; π 31FLYING FISH (China) Front Scales:    ln1_2, ln1_1, ln1_0, ln1_1, DF    CF, CIF, H, Gauge Marks on scales: π is on C, D, and DF; v and 32FLYING FISH (China) Front scales:    Th, Ch, K, A    B, T&T, ST&ST, S&S Gauge Marks on scales: π is on A, B, C, D, CF, and I 33FLYING FISH (China) Front scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S Gauge Marks on scales: π is on A, B, C, D, and DF; π 34FLYING FISH (China)	h than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a No. 1002 H3, CI, C    D, Ln3, Ln2, Ln1   CF is folded at √ 10 π/4 is on A and B; 1° and R are on C and D; v on K. Cursor Front No. 1003 0, H1, H° <sub>0</sub> , CI, C    D, ln <sub>1</sub> , ln <sub>0</sub> , ln <sub>-1</sub> , lnGH is folded at √ 10 s are on CI. (Variations exist with v, v <sub>1</sub> , and s on scale C) No. 1004 , C    D, DI, Sh2, Sh1    CF and DF are folded at π DF; π/4 is on A and B; v is on K. Cursor Front: Has KW at top No. 1009 , C    D, DI, P, Th    CF is folded at √ 10 π/4 is on A and B; v is on K. Cursor Front: Has KW at top No. 1015 and 1015-1 , C    D, DI, L, Th    CF is folded at √ 10	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon th 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b>    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg :: Has KW at top middle; HP(**) is at right and $\pi/4$ left ove 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b>    sh <sub>0</sub> , sh <sub>1</sub> , cu <sub>1</sub> , cu <sub>2</sub> , cu <sub>3</sub>    lq <sub>1</sub> <sup>-1</sup> , tg <sub>0</sub> ctg <sub>0</sub> , tg <sub>1</sub> c <b>Cursor Front and Back</b> : has no marks. <b>Bac</b> 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b>    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ left over the A & B ser 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b>    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ left over the A & B ser 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e <b>Back scales:</b>    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ on left over the A & B ser 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e
30FLYING FISH (China) Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, F Gauge Marks on scales: π is on A, B, C, D, and DF; π 31FLYING FISH (China) Front Scales:    ln1_2, ln1_1, ln1_0, ln1_1, DF    CF, CIF, H, Gauge Marks on scales: π is on C, D, and DF; v and 32FLYING FISH (China) Front scales:    Th, Ch, K, A    B, T&T, ST&ST, S&S Gauge Marks on scales: π is on A, B, C, D, CF, and I 33FLYING FISH (China) Front scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S Gauge Marks on scales: π is on A, B, C, D, and DF; π 34FLYING FISH (China) Front scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S Gauge Marks on scales: π is on A, B, C, D, and DF; π 34FLYING FISH (China) Front scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S Solve Marks on scales: η Sh1, Sh2, K, A    B, T&T, ST, S&S Front scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S F	h than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a No. 1002 H3, CI, C    D, Ln3, Ln2, Ln1   CF is folded at √ 10 π/4 is on A and B; 1° and R are on C and D; v on K. Cursor Front No. 1003 0, H1, H° <sub>0</sub> , CI, C    D, ln <sub>1</sub> , ln <sub>0</sub> , ln <sub>-1</sub> , lnGH is folded at √ 10 s are on CI. (Variations exist with v, v <sub>1</sub> , and s on scale C) No. 1004 , C    D, DI, Sh2, Sh1    CF and DF are folded at π DF; π/4 is on A and B; v is on K. Cursor Front: Has KW at top No. 1009 , C    D, DI, P, Th    CF is folded at √ 10 π/4 is on A and B; v is on K. Cursor Front: Has KW at top No. 1015 and 1015-1 , C    D, DI, L, Th    CF is folded at √ 10	de of the manual. Using this device you can find solutions article). Of interest is that all calculations are based upon th 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg :: Has KW at top middle; HP(**) is at right and $\pi/4$ left ov 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    sh <sub>0</sub> , sh <sub>1</sub> , cu <sub>1</sub> , cu <sub>2</sub> , cu <sub>3</sub>    lq <sub>1</sub> <sup>-1</sup> , tg <sub>0</sub> ctg <sub>0</sub> , tg <sub>1</sub> c Cursor Front and Back: has no marks. Bac 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ left over the A & B sc 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ on left over the A & B sc 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ on left over the A & B sc 25 cm.; Plastic; Cursor is not framed. Has fixed plastic e Back scales:    LL1, LL2, LL3, DF    CF, CIF, L, CI, p middle; HP(**) on right over the A & B scales. (See Shanghai China No. 1018) 25 cm.; Plastic; C
30FLYING FISH (China) Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, F Gauge Marks on scales: π is on A, B, C, D, and DF; 7 31FLYING FISH (China) Front Scales:    ln12, ln10, ln11, DF    CF, CIF, H, Gauge Marks on scales: π is on C, D, and DF; v and 32FLYING FISH (China) Front scales:    Th, Ch, K, A    B, T&T, ST&ST, S&S Gauge Marks on scales: π is on A, B, C, D, CF, and I 33FLYING FISH (China) Front scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S Gauge Marks on scales: π is on A, B, C, D, and DF; 7 34FLYING FISH (China) Front scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S, Gauge Marks on scales: π is on A, B, C, D, and DF; 7 34FLYING FISH (China) Front scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S, Gauge Marks on scales: π is on A, B, C, D, and DF; 7 35FLYING FISH (China) Front scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S, Gauge Marks on scales: π is on A, B, C, D, and DF; 7 35FLYING FISH (China) Front Scales:    Sh1, Sh2, K, A    B, T&T, ST, S&S, Gauge Marks on scales: π is on A, B, C, D, and DF; 7 35FLYING FISH (China)	h than a slide rule. Peter sent me translations that Dieter had ma clear and complete full size pictures of his F-C 989. (See his JOS a No. 1002 H3, CI, C    D, Ln3, Ln2, Ln1   CF is folded at $\sqrt{10}$ $\pi/4$ is on A and B; 1° and R are on C and D; v on K. Cursor Front No. 1003 $_0$ , H1, H° <sub>0</sub> , CI, C    D, ln1, ln0, ln1, lnGH is folded at $\sqrt{10}$ s are on CI. (Variations exist with v, v1, and s on scale C) No. 1004 , C    D, DI, Sh2, Sh1    CF and DF are folded at $\pi$ DF; $\pi/4$ is on A and B; v is on K. Cursor Front: Has KW at top No. 1009 , C    D, DI, P, Th    CF is folded at $\sqrt{10}$ $\pi/4$ is on A and B; v is on K. Cursor Front: Has KW at top No. 1015 and 1015-1 , C    D, DI, L, Th    CF is folded at $\sqrt{10}$ Cursor Front: $\pi/4$ on left and No. 1018 Electricians slide rule	de of the manual. Using this device you can find solutions to tricle). Of interest is that all calculations are based upon the 25 cm.; Plastic; Cursor is not framed. Has fixed plastic er <b>Back scales:</b>    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg :: Has KW at top middle; HP(**) is at right and $\pi/4$ left over 25 cm.; Plastic; Cursor is not framed. Has fixed plastic er <b>Back scales:</b>    sh <sub>0</sub> , sh <sub>1</sub> , cu <sub>1</sub> , cu <sub>2</sub> , cu <sub>3</sub>    d <sub>1</sub> <sup>-1</sup> , tg <sub>0</sub> ctg <sub>0</sub> , tg <sub>1</sub> c <b>Cursor Front and Back</b> : has no marks. <b>Bacl</b> 25 cm.; Plastic; Cursor is not framed. Has fixed plastic er <b>Back scales:</b>    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ left over the A & B scal 25 cm.; Plastic; Cursor is not framed. Has fixed plastic er <b>Back scales:</b>    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ on left over the A & B 25 cm.; Plastic; Cursor is not framed. Has fixed plastic er <b>Back scales:</b>    LL01, LL02, LL03, DF    CF, CIF, L, CI, p middle; HP(**) is at right and $\pi/4$ on left over the A & B 25 cm.; Plastic; Cursor is not framed. Has fixed plastic er <b>Back scales:</b>    LL01, LL02, LL03, DF    CF, CIF, H, CI, CI p middle; HP(**) is at right and $\pi/4$ on left over the A & B 25 cm.; Plastic; Cursor is not framed. Has fixed plastic er <b>Back scales:</b>    LL11, LL2, LL23, DF    CF, CIF, H, CI, CI p middle; HP(**) or right over the A & B scales.

From Stakes [ M <sub>2</sub> , M <sub>2</sub> , M <sub>3</sub> , M <sub>1</sub> , M <sub>1</sub> [ Cf. Cf. J. (Cf. Cf. M <sub>2</sub> , M <sub>2</sub> , M <sub>1</sub> , Cf. D. (D, N <sub>2</sub> , N <sub>2</sub> , N <sub>1</sub> ) [ Cf. Stakes [ M <sub>2</sub> , M <sub>3</sub> , M <sub>1</sub> , M <sub>1</sub> , Z = 0.00 [ Perior, Perior, M <sub>2</sub> , M <sub>2</sub> , M <sub>2</sub> , M <sub>3</sub> , M <sub>4</sub> , Z = 0.00 [ Perior, Perior, Character, M <sub>2</sub> , M <sub>3</sub> , M <sub>4</sub> , Z = 0.00 [ Perior, Perior, Character, M <sub>2</sub> , M <sub>3</sub> , M <sub>4</sub> , Z = 0.00 [ Perior, Perior, Character, M <sub>2</sub> , M <sub>3</sub> , M <sub>4</sub> , Z = 0.00 [ Perior, Perior, Character, M <sub>4</sub> , M_4, M_4, M_4, M_4, M_4, M_4, M_4, M_4	36aFLYING FISH (China)	No. 1200 (Pocket Slide Rule)	<ul> <li>12.5 cm.; Plastic; Cursor is not framed. Has fixed plastic e</li> <li>Back scales:    sh<sub>0</sub>, sh<sub>1</sub>, K, A    B, srt<sub>1</sub>cos<sub>1</sub>ctg<sub>-1</sub>, tg<sub>0</sub>ctg<sub>0</sub>, 1</li> </ul>
appETLNC F1SH (Chinn)         No. 0000 Exterical Engineering Sile Net#         1990/2000, Thatic: Cuene in advanced. Adjustelik meal threads the True Society (B) Sile Sile Sile Sile Sile Sile Sile Sile			
From Scoles:         (b). Negr. View. Typums. A [18, 75, 585; C] [17, 52, 1].         Back senders:         [16]. No. Typums. Comer The idea indexes and enserving on a Charace historic difference with a field indexes. The Science 3: 114, 112, 112, 112, 112, 112, 112, 113, 112, 114, 114, 114, 114, 114, 114, 114			
This due due was discoved on a Chinese Internet in: The picture were due rough to read the cales, but not due rough to read at lot of the group mark on the cales much affine from sociel. State 11, 112, 112, 112, 112, 113, 114, 114, 114, 114, 114, 114, 114	Front Scales:    db, Neper, Volt, Dynamo	, A    B, T&T, S&S, C    D, K, P, L	Back scales:    Sh1, Sh2, Th, Ch, DF    CF, CIF, CI, C    D,
772GONG SI He Ving (China)       No Yunder (Called Rose Wood Siller Role)       25cm. Plance face on wood. Cancer in our transet. Adams Prove to the ULC, LLD, PL, PC, CC, CC, CL, CL, LL, LLZ, LLZ)       Bock sealer; [18], S32, TA, EH, IS, SXS, SS [1], TS, SCR, ATE (19), CLS, LLZ, PL, DE, Percepte Hyperbolics No. 491a       Bock sealer; [18], S32, TA, EH, IS, SLS, SS [1], TS, SCR, ATE (19), CLS, LLZ, LLD, Percepte Hyperbolics No. 491a       Bock seale; [18], S32, TA, EH, IS, SLS, SS [1], TS, SCR, ATE (19), CLS, LLD, PL, DY, ST, SS [28], TS, SS [28], TS			
From value:         [L10, L10, L10, L10, L10, L10, L10, L10,			
Grage Marks on scales: is on A. B. C. Paul DF, 24 is on A and B scales, The mat P is on subsRXI.         Correl           976/CRAP10PUEX (France)         Nepredpet Pyperballs: No. 401a         19622645 cm., Platter, Correl root famal. Has due plates           Front scales: [1, 1, 2, Ch, 10, T, 10, 74.97, 87.47, 57.8, 87.5, 87.8, 87.5, 87.8, 87.5, 87.8, 87.5, 87.8, 87.5, 87.8, 87.5, 87.8, 87.5, 87.8, 87.5, 87.5, 97.9, run d > not scale Carl and D. Abch Front and Back: Tubes at two lines over all scales on the right and left for the everytime to 101(**) by sing Carl and Scales: Tubes, Tubes, and on right acce Carl and Sign MADE TAB. (China)         No. 651           Sign MADE TAB. (China)         No. 651         Back scales: [110, 112, 137, 158.55. (10, 01.57)           Gauge Marks on scales: ratio on height over the C.F & DF scales for mulpitation of C and D by 36. Curver Stack Has marks 10P**1 at right, and r4 on left over the A and 1360HAOU TAB. (China)         No. 651           Data Have a picture on manual for this side rule lengt devs no loci 1. No design (China)         Data Have a picture on manual for this side rule lengt devs no loci 1. No Absec (China)         Data Have a picture on manual for this side rule lengt devs no loci 1. No Absec (China)         Data Have a picture on manual for this side rule lengt devs of the acds for mulpitation of C and D by 36.         Curver Freat: A Have Absec (Fill and Absec (China)           JOHAD CHAD LIAND OF I ACAL ADDA CHAD LIAND CHAD LIAND OF I ACAL ADDA CHAD L			
Op/CRAPHIOPLEX (France)         Negreting trapectodie: No. 071a         1992266-57 mm, Pathec Constrain on thinked that in a patheomic of the first of the cover the			
Protections         Eack case         [1,1] Ch. N. [1,1] C. LUD, P. [1] C. C. D., C. J. C. C. D. C. C. D. D. C. D.	— — — — — — — — — — — — — — — — — — — —		
Grage Marke on scales: To on A, B, C, D, CD, CL, P, Y, P, and P, and P, and S and B, Abch Ford and Back. The curve Front: A line is on the low refix.         Curver Front: A line is on the low refix.           2014         2014         100, 110, 110, 110, 110, 110, 110, 110,			
Currow Front There is a muck on the right over all calls on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for multiplication of C and D by 36.         Currow Front: There is a muck on the right over the CF. BDF Seele for			
Front value:         [L10]. L102, L102, L103, DF [C7, C7, C1], D, L12, L11]         Back scales:         [Th, K, A] [B, T&T, ST, S&S, C] [D, D, S]           Gauge Marko so scales:         a mark on the right over the C & DF scale for manipleation of C and D by 36.         Carsor Back: Has marks (HY*) a right, and 2 d on Ho over the A and 1 30 adHAOLOV HY*) a right, and 2 d on Ho over the A and 1 30 adHAOLOV HY*) a right, and 2 d on Ho over the A and 1 30 adHAOLOV HY*) a right, and 2 d on Ho over the A and 1 30 adHAOLOV HY*) a right, and 2 d on Ho over the A and 1 30 adHAOLOV HY*) a right, and 2 d on Ho over the A and 1 30 adHAOLOV HY*) a right, and 2 d on Ho over the A and 1 30 adHAOLOV HY*) a right, and 2 d on Ho over the A and 1 30 adHAOLOV HY*) a right, and 2 d on Ho over the A and 1 40 for HO over the A	-		
Gauge Marks on scales: is ion A, B, C, D, C, DF, C, DF, and CF.           Curver Parck: Ilas marks IIP**3 at right, and rid on left over the A and 398HAIOU PA1 (China) No. 6611           Do on have as picture or manual for this islice nice. Togoto sens that its leed complex information: Itsing of exalts of dimensions, physical appearance, seales, gauge marks.curvo 390HAIOU PA1 (China) No. 6611         25cm, Phate, Curver Fonds, Las fixed plastic and plastic and plastic face on smooth, Las fixed plastic face on smooth, Curver is the state state and NAN 6471 (Pa1 129), Photohyl sum at alia in lack bar with difference tenser.         25cm, Phate Hast marks IH**** at right, and at Plastic face on smooth, Curver is that Plastic flast on the plastic face on smooth, Curver is that Plastic flast on the plastic face on smooth, Curver is that Plastic flast on the p	38HAIOU PAI (China)	No. 6531	25cm.; Plastic; Cursor is not framed. Adjustable metal brac
Curver Front: Exercise number of the city DF soles for multiplication of C and D by 36. Curver Back: Has marks 110?***********************************			Back scales:    Th, K, A    B, T&T, ST, S&S, C    D, DI, Sł
39a HALOU PAI (China)         No. 6A1           Dorot laws protuce or manual for this side rule. Hopp does not list it. Noel complete information: listing of details of dimensions, physical appearance, scales, gauge marks curves           39b HALOU PAI (China)         No. 6A1           Grang Marks on scales: it is on A, B, C, D, C, D, C, H, C, C, D, D, LJ, J, LJ, LJ, LJ, Cange Marks on scales: it is on A, B, C, D, C, D, CD, D, CH, MC, C (LI) JA J, LJ, LJ, LJ, Cange Marks on scales: it is on A, B, C, D, C, D, CD, D, D, KO, China) No sumber See Jang. 25 cm. Photo plantic face on wood. Curver is heat A and J adJAAN CHIOU JAANC OF HIJ SLANCS GHJ VI XIANC (SLI) NANC (SL	-		
Denot have a picture or manual for this side rule. Hopp does not list 1. Yeed complete information. Issing of details of dimensions, Sprival appearance, seakes, gauge marks, ange of the side of hasies and 300 HAOL DP. [IC, CT, H, C, C, ET, H, C, C, L,	-		<b>Cursor Back:</b> Has marks HP(**) at right, and $\pi/4$ on left over the A and I
39BHAOU PAI (China)       No. 6641 Haion (Sequit)       25cm; Plastic Curver is of memol. Hai fixed plastic end Breck Hain mundel. Hold No. 2010;			of datails of dimensions, whereight oppositions, applies across morely arrays
Front scales [LD], LL02, LL02, LD3, DF [CF, CF, H, CL, C] D, LL3, LL2, LL1]       Back scales: [L, 5, hl, Sh2, A] B, T&T, ST, S&S, C [] T         Gauge Marks no scales is a NAR of C, CF, CP, Scales for multiplexion of C and D by 56.       Cursor Back: Han marks HP(**) at right, and r24 on left over the A and J         40HANGZHOU JIANG or HANGZHOU JIANG SHI YI XING (Ching) No Number       See Juag       25 cm; Phaste face on lawning the end of the en			
Gauge Marks on scales: r is on A, B, C, D, C, DF, C, and C(IP): "and "are on ST.           Cursor Front: There is a mark whet replay out the CA BD Seales for the CA BD Seales and LANG 6171 (Pat. 129). Probably is same side rule, but with different cances.         Cursor Front Seales: 2 cm; Photo plastic face on wood; Cursor is fnmed.                PSEE THE NOTE AT END OF THIS LISTING REGARDING THE HEAMIN SLIDE RULES:               Scale The Seales and LANG 6171 (Pat. 129). Probably is same side rule, but with different cances.              Cursor : Hast               Scale THE NOTE AT END OF THIS LISTING REGARDING THE HEAMIN SLIDE RULES:               Scale THE NOTE AT END OF THIS LISTING REGARDING THE HEAMIN SLIDE RULES:               Scale THE NOTE AT END OF THIS LISTING REGARDING THE HEAMIN SLIDE RULES:               Scale Scal			
Cursor Proset: There is a mark on the right over the C1 & D1 scales for multipleation of C and D by 36. Cursor Back Hard 1440 mER0 ver the A and 140 meR0 ver theA and 140 meR0 ver theA and 140 meR0 ver theA and 140 m			<b>Back scales:</b> $   L, Sn1, Sn2, A    B, 1&1, S1, S&5, C    L$
40HANGZHOU JIANG or HANGZHOU JIANG SHI YI XING (China) No Number See Jung       25 cm.; Photo plasic face on wood; Cursor is not framed.         This has same scales as JIANG 671 (Pt. 129). Probably is same side rule, but with different cursor.       Cursor : Hast         • SEE THE NOTE AT END OF THIS LISTING REGARDING THE HEMMI SLIDE RULES.       1933-1966       25 cm.; Plastic face on laminated wood; Cursor is framed.         • SHE THE NOTE AT END OF THIS LISTING REGARDING THE HEMMI SLIDE RULES.       1933-1966       25 cm.; Plastic face on laminated wood; Cursor is framed.         • Note: A variation of this rule exists with identical seed with cuber dist of plastic face on laminated wood; Cursor is framed.       Note: A variation of this rule exists with identical seed to the number on the G scale;         • Gauge Marks on scales: π, and marks c are on back scales of an D.       NOTE: Rule has two cursors: Early version has scale letter where the far ipht of P is 50, and P is 10, blast and list on scales C and D.       Stem: Plastic face on laminated wood; Cursor is framed.         • Front Scales: [] N, P, P  ] Q, C, C, C, D, C, L [] D.       mark c are on back scales C and D.       NOTE: Rule has two cursors: Early is the face on laminated wood; Cursor is framed.         • Front scales: [] K, A DP    C, P, C, C, D, Q, U    D.       Duples Slide Rule No. 255 (for Expert Electric Engineer) 1950       25 cm.; Plastic face on laminated wood; Cursor is framed.         • Front scales: [] L, K DP    C, C, U, C, U, U, D, M X U    M X M K is on back scale?       Yestion 2       Stem: Plastic face on laminated wood; Cursor is framed.			<b>Cursor Back:</b> Has marks HP(**) at right, and $\pi/4$ on left over the A and 1
This has same seaks as JIANG 6171 (Pat. 129). Probably is same slide rule, but with different cursor.       Cursor: Has t         INSEE THE NOTE AT END OF THIS LISTING REGARDING THE HEIMMI SLIDE RULES.       Sem: Plastic face on laminated wood; Cursor is famed.         Form seakes:   L, K, A   B, CL, C  D, T, G_0   Not: This is the first slide rule sold with Gudermannin hyperbolic scalelaske Scales: [ P, P, P  Q, Q, C] (LL3, LL2, LL1]       Gauge Marks on seakes: a: and marks c. q: q'', and q'' are on four seales C and D. Do back seales on far right of Q is for; slow LL2 and LL3.         Note: A variation of this rule exists with identical scales but no number: except the Q is in red. Also, variations of the regular rule exist where the far right number on the G <sub>0</sub> scale (24)       Signal Also, N. S            Front Scales:   D, P, P,   Q, Q, C, CJ, S <sub>0</sub> <sup>+</sup>   A, L, K          Gauge Marks on scales: a rad mark c are on back scales of and D.       NOTE: Rule has two cursors. Early version has acale letters feed on unimated wood; Cursor is famed.         Front scales:   L, K, DP   C, C, D, C, D, L,          Side Rule No. 255 (For Expert Electric Engineer)       195       25cm: Plastic face on laminated wood; Cursor is famed.         Gauge Marks on scales: z is on CF and DF and Z is on X and S is mark is on hock scale.       Side Rule No. 255 (For Expert Electric Engineer)       195       25cm: Plastic face on laminated wood; Cursor is famed.         Hord DF and Z is on X and S is mark is on hock scale.       Daplex Side Rule No. 255 (For Expert Electric Engineer)       195-1956       25cm: Plastic face on laminated wood; Cursor is famed.         G			
SEE THE NOTE AT END OF THIS LISTING REGARDING THE HEMMI SLIDE RULES.           411EMMI (Japan)         Duples Slide Rule No. 153 (For Expert Regimeer)         1933-1966         25cm.; Plastic face on luminated wood; Cursor is framed.           Note: A variation of this rule exists with dictational solutions of the regular rule exist were the far fight number on the G scales?         2421EMMI (Japan)         Duples Slide Rule No. 154 (For Advanced Electric Engineer)         1933-1966         5cm.; Plastic face on laminated wood; Cursor is framed.           From Scales: [] DF, P, P] Q, CC, C. S <sup>(0</sup> [] A, D, K            Gouge Marks on scales: 7, and mark c are on back scales C and D.         NOTE: Rule has two cursors. Early version has scale letters elected on cursor glasse.         Scale.; Plastic face on laminated wood; Cursor is framed.           From Scales: [] K, A, DF    C, C, C, C, [] D, L, Q,            Duples Slide Rule No. 155 (for Advanced Electric Engineer)         1950         25cm.; Plastic face on laminated wood; Cursor is framed.           ASHEMMI (Japan)         Duples Slide Rule No. 255 (for Expert Electric Engineer)         1951-1958         25cm.; Plastic face on laminated wood; Cursor is framed.           Fromt scales: [] L, K, DF    CF, CF, C, C, C    D, X, 0            NOTE: Xis radius and 0 is degrees.         Version 1         Back scales: [[Sh1, Sh2, Th, A    B, T12, T11, Sl, C, [] D, L1           Gauge Marks on scales z: is on CF and DF and Z is on X and Z is not X and Z is mark is on back scale?         1951-1958         25cm.; Plastic face on laminated wood; Cursor is framed.      <			5 7 1
41HEMMI (Japan)       Duples Slide Rule No. 153 (For Electric Engineer)       1933-196       25cm. Platic face on laminated wood; Cumor is finaned.         From scales: [], L, K, A [], C, C, [], D, T, [], n], of "are on font scales C and D. On back scales on fright of P is SIN, and on far right of Q is COS, e is on L2 and L3.         Nete: A variation of this rule exists with identical scales but on number; except the Q' is in red. Also, variations of the regular rule exist where the far right number on the G is scale.         42HEMMI (Japan)       Duples Slide Rule No. 155 (For Advanced Electric Engineer)       1902         Gauge Marks on scales: 7, and mark c are on back scales C and D.       NOTE: Rule has two cursors. Early version has scale letter encelled on cursor glasses.         43HEMMI (Japan)       Duples Slide Rule No. 155 (For Advanced Electric Engineer)       1902         25cm., Plastic face on laminated wood; Cursor is finaned.         8cel complete information with listing of details of scales, gauge marks and cursor lines.         44HEMMI (Japan)       Duples Slide Rule No. 255 (For Expert Electric Engineer)       1951-198         8cel complete information with listing of details of scales, gauge marks and cursor lines.       Back scales: [] [] [] [] [] [] [] [] [] [] [] [] []		· · · · · · · · · · · · · · · · · · ·	
Front scales: [1, K, A    B, C, C    D, T, G <sub>0</sub>    Not: This is the first side rule sold with Gudermannian hyperbolic scalesBack Scales: [0, R, P,    Q, C, C    L1, L1, L1, L1            Gauge Marks on scales: π, 2π, and marks c, p, p, m, and p <sup>2</sup> are on front scales C and D. On back scales on far right of P is SIN, and on far right of O is COS; e is on L12 and L13.         Note: A variation of his rule exists with identical scales but no number, except the Q' is in red. Also, variations of the regular rule exist where the far right number on the Ga scaley         42IEMMI (Japan)       Duplex Side Rule No. 154 (For Advanced Electric Engineer)       Som:, Plastic face on laminated wood; Cursor is framed.         9Front scales: [] [K, X, D F] [] C, F, G, C, [] D, L I]       is objected at V10       Back scales: [] [K, X, D F] [] C, F, G, C, C [] D, L I]         9 HeltMMI (Japan)       Duplex Side Rule No. 255 (For FAperet Electric Engineer)       1951-1958       25cm; Plastic face on laminated wood; Cursor is framed.         Front scales: [] [K, X, D F] [CF, C, C, C, C ] D, X, 0          NOTE: X is radians and 0 is degrees.       25cm; Plastic face on laminated wood; Cursor is framed.         Front scales: [] [K, N, D F] [CF, C, C, C, C ] D, X, 0          NOTE: X is radians and 0 is degrees.       25cm; Plastic face on laminated wood; Cursor is framed.         Front scales: [] [K, N, D F] [CF, C, C, C ] D, L13, L12, L11          Version 1       25cm; Plastic face on laminated wood; Cursor is framed.         Front scales: [] [L, N, D F] [CF, C, C, C ] D, L13, L12, L11          Version 2       25cm; Plastic face on lamina			
Gauge Marks on seles: 7, 2, and marks c, p <sup>0</sup> , and p <sup>0</sup> are on font sales C and D. On back seales on far right of p is SNA, and on far right of p is SOS, e is on L1.2 and L1.3.         Note: A variation of this rule exists with identical seales but no number; except the Q <sup>0</sup> is in red. Also, variations of the regular rule exist where the far right number on the G <sub>0</sub> scale;         24HEAMMI (Japan)       Duplex Side Rule No. 154 (For Advanced Electric Engineer)       Back Scales: [] B, T, T <sub>0</sub> <sup>0</sup> [] T, SN, SN, C [] D, L, J         Gauge Marks on scales: r and mark c are on back scales C and D.       NOTE: Rule has two cursors. Early version has scales letters etchedia on cursor glasses.         43HEMMI (Japan)       Duplex Side Rule No. 155 (For Advanced Electric Engineer)       1950       25cm; Plastic face on laminated wood; (cursor is framed. Back scales: [] L, N, D F [] C F, CL, C [] D, L ]         Weet complete information with listing of details of scales, gauge marks and cursor lines.       25cm; Plastic face on laminated wood; (cursor is framed. Back scales: [] L, N, D F [] C F, CL P, CL ], D, N = [] N, D = N = N = N = N = N = N = N = N = N =			
42HEMMI (Japan)       Duplex Slide Rule No. 154 (For Advanced Electric Engineer)       50cm., Plastic face on laminated wood; Cursor is framed.         Gauge Marks on scales: π and mark care on back scales C and D.       NOTE: Rule has two cursors. Early version has scale letter scaled on cursor glasses.         43HEMMI (Japan)       Duplex Slide Rule No. 155 (For Advanced Electric Engineer)       1950         Front scales:     K, D F   CF, B, CI, C (D, D, L)       Duplex Slide Rule No. 256 (For Expert Electric Engineer)       1951-1958         4HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1951-1958       25cm.; Plastic face on laminated wood; Cursor is framed.         64HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1951-1958       25cm.; Plastic face on laminated wood; Cursor is framed.         64HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1951-1958       25cm.; Plastic face on laminated wood; Cursor is framed.         64HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1954-1966       25cm.; Plastic face on laminated wood; Cursor is framed.         70mt scales:    L, K, D F   CF, CI, C, L D, L13, L12, L1.1        Version 2       25cm.; Plastic face on laminated wood; Cursor is framed.         70mt scales:    L, K, D F   CF, CI, C, L C, D, L13, L12, L1.1        Version 2       25cm.; Plastic face on laminated wood; Cursor is framed.         70mt scales:    L, K, D F   CF, CI,			
Front Scales: $\ DE, P, P\ Q, CF, CI, S_0^0\ A, D, K\ $ Back Scales: $\ S_X, T_X, T_0^0\ $ Th, Sh, Sh, C $\ D, L, \chi\ $ Gauge Marks on scales: $\pi$ and mark care on back scales C and D.NOTE: Rule has two cursors. Early version has scale letters etceled on cursor glasses.Gauge Marks on scales: $\pi$ and mark care on back scales C and D.NOTE: Rule has two cursors. Early version has scale letters etceled on cursor glasses.Gauge Marks on scales: $\pi$ , $\Lambda, DF \ (CF, CI, C, C, D, L, L) \ $ Back Scales: $\ S\Lambda, DF\ $ , $TI, TI2, TI1, TI1, TI2, TI1, TI2, TI1, TI1, TI2, TI$	Note: A variation of this rule exists with i	dentical scales but no number; except the Q' is in red. Also, variat	tions of the regular rule exist where the far right number on the $G_{\theta}$ scale (
Gauge Marks on scales: # and mark c are on back scales C and D.       NOTE: Rule has two cursors. Early version has scale letters etched on cursor glasses.         43HEMMI (Japan)       Duplex Slide Rule No. 155 (For Advanced Electric Engineer)       1950       25cm.; Plastic face on laminated wood; Cursor is framed.         44HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1951-1958       25cm.; Plastic face on laminated wood; Cursor is framed.         43HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1958-1966       25cm.; Plastic face on laminated wood; Cursor is framed.         43HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1958-1966       25cm.; Plastic face on laminated wood; Cursor is framed.         46HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1958-1966       25cm.; Plastic face on laminated wood; Cursor is framed.         46HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1958-1966       25cm.; Plastic face on laminated wood; Cursor is framed.         47HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1958-1966       25cm.; Plastic face on laminated wood; Cursor is framed.         48HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1958-1966       50cm.; Plastic face on laminated wood; Cursor is framed.         49HEMMI (Japan)       Duplex Slide	42HEMMI (Japan)	Duplex Slide Rule No. 154 (For Advanced Electric Engineer)	933-1966 50cm.; Plastic face on laminated wood ; Cursor is framed.
43HEMMI (Japan)       Duplex Slide Rule No. 155 (For Advanced Electric Engineer)       1950       25cm.; Plastic face on laminated wood; Cursor is framed. Back scales: [[Sh1, Sh2, Th    T1/kT1], T12&T12, S11&S         44HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1951-1958       25cm.; Plastic face on laminated wood; Cursor is framed. Back scales: [[Sh1, Sh2, Th , A    B, T12, T11, S1, C    D, L1         43HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1951-1958       25cm.; Plastic face on laminated wood; Cursor is framed. Back scales: [[Sh1, Sh2, Th, A    B, T12, T11, S1, C    D, L1         46HEMMI (Japan)       Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1958-1966       25cm.; Plastic face on laminated wood; Cursor is framed. Back scales: [[Sh1, Sh2, Th, A    B, T12, T11, S1, C    D, L13, L12, L11          Version 2       25cm.; Plastic face on laminated wood; Cursor is framed. Back scales: [[Sh1, Sh2, Th, A    B, T12, T11, S1, C    D, L3, T14, L11            47HEMMI (Japan)       Duplex Slide Rule No. 275 (For Advanced Electric Engineer) 1964+       25cm.; Plastic face on laminated wood; Cursor is framed. Back scales: [[Sh1, Sh2, Th, A    B, T12, T11, S1, C    D, L13, L12, L11            47HEMMI (Japan)       Duplex Slide Rule No. 275 (For Advanced Electric Engineer) 1958-1966       5cm.; Plastic face on laminated wood; Cursor is framed. Back scales: [[Sh1, Sh2, Th, A    B, T12, T11, S1, C    D, L13, L12, L11            47HEMMI (Japan)       Duplex Slide Rule No. 275 (For Advanced Electric Engineer) 1958-1966       5cm.; Plastic face on laminated wood; Cu	Front Scales:    DF, P' , P    Q, CF, CI, S	$\delta_{\theta}^{o} \parallel A, D, K \parallel$	<b>Back Scales:</b> $\  S_x, T_x, T_{\theta}^{o} \ $ Th, Sh, Sh, C $\  D, L, \chi \ $
Front scales: [L, X, DF    CF, B, CI, C    D, L          is folded at \10       Back scales: [ISh1, Sh2, Th1    T11&T11, T12&T12, S11&S2         Need complete information with listing of details of scales, gauge marks and cursor lines.       25cm.; Plastic face on laminated wood; Cursor is framed.         Gauge Marks on scales: π is on CF and DF and π/2 is on X and S1; mark c is on back scale C.       1951-1958         Front scales: [L, K, DF    CF, CT, C, C    D, L, J, LL2, LL1          Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1958-1966         Front scales: [L, K, DF    CF, CT, C, C    D, LL3, LL2, LL1          Duplex Slide Rule No. 255 (For Expert Electric Engineer)       1964-         Front scales: [L, K, DF    CF, CT, C, C    D, LL3, LL2, LL1          Back scales: [Sh1, Sh2, Th, A    B, T12, T11, SL, C    D, X         Gauge Marks on scales: π is on CF and DF and π/2 is on X; Mark c is on back scale C;       e is on LL2 and LL3.         46HEMMI (Japan)       Duplex Slide Rule No. 275 (For Advanced Electric Engineer) 1964-       25cm; Plastic face on laminated wood; Cursor is framed.         Front scales:    L, K, DF    CF, CT, C, C    D, X, A)          NOTE: X is radians and 0 is degrees.       Version 1         Gauge Marks on scales: π is on CF and DF and π/2 is on X and SI; mark c is on back scale C.       Som:; Plastic face on laminated wood; Cursor is framed.         HEMMI (Japan)       Duplex Slide Rule No. 275 (For Expert Electric Engineer) 1958-1966       Som:; Plastic face on laminated wood; Cursor is framed. <t< td=""><td>Gauge Marks on scales: <math>\pi</math> and mark c</td><td>are on back scales C and D. NOTE: Rule has two cursors. Ea</td><td>arly version has scale letters eteched on cursor glasses.</td></t<>	Gauge Marks on scales: $\pi$ and mark c	are on back scales C and D. NOTE: Rule has two cursors. Ea	arly version has scale letters eteched on cursor glasses.
Need complete information with listing of details of scales, gauge marks and cursor lines.         44HEMMI (Japan)       Duplex Silde Rule No. 255 (For Expert Electric Engineer)       1951-1958       25cm; Plastic face on laminated wood; Cursor is framed.         45HEMMI (Japan)       Duplex Silde Rule No. 255 (For Expert Electric Engineer)       1958-1966       25cm; Plastic face on laminated wood; Cursor is framed.         46HEMMI (Japan)       Duplex Silde Rule No. 255 (For Expert Electric Engineer)       1958-1966       25cm; Plastic face on laminated wood; Cursor is framed.         46HEMMI (Japan)       Duplex Silde Rule No. 255 (For Expert Electric Engineer)       1966+       25cm; Plastic face on laminated wood; Cursor is framed.         46HEMMI (Japan)       Duplex Silde Rule No. 255 (For Expert Electric Engineer)       50cm; Plastic face on laminated wood; Cursor is framed.         47HEMMI (Japan)       Duplex Silde Rule No. 255 (For Expert Electric Engineer)       1958-1966       50cm; Plastic face on laminated wood; Cursor is framed.         47HEMMI (Japan)       Duplex Silde Rule No. 275 (For Expert Electric Engineer)       1958-1966       50cm; Plastic face on laminated wood; Cursor is framed.         48HEMMI (Japan)       Duplex Silde Rule No. 275 (For Expert Electric Engineer)       1958-1966       50cm; Plastic face on laminated wood; Cursor is framed.         49HEMMI (Japan)       Duplex Silde Rule No. 275 (For Expert Electric Engineer)       1958-1966       50cm; Plastic face on laminated wood; Cursor i		•	1950 25cm.; Plastic face on laminated wood ; Cursor is framed.
44HEMMI (Japan)Duplex Slide Rule No. 255 (For Expert Electric Engineer)1951-195825cm.; Plastic face on laminated wood; Cursor is framed.Gauge Marks on scales: $\pi$ is on CF and DF and $\pi/2$ is on X and SI; mark is on back scale C.25cm.; Plastic face on laminated wood; Cursor is framed.45HEMMI (Japan)Duplex Slide Rule No. 255 (For Expert Electric Engineer)1958-196625cm.; Plastic face on laminated wood; Cursor is framed.46HEMMI (Japan)Duplex Slide Rule No. 2550 (For Expert Electric Engineer)1958-196625cm.; Plastic face on laminated wood; Cursor is framed.46HEMMI (Japan)Duplex Slide Rule No. 2550 (For Expert Electric Engineer)1966-425cm.; Plastic face on laminated wood; Cursor is framed.46HEMMI (Japan)Duplex Slide Rule No. 2550 (For Expert Electric Engineer)1966-425cm.; Plastic face on laminated wood; Cursor is framed.47HEMMI (Japan)Duplex Slide Rule No. 276 (For Advanced Electric Engineer)1958-196650cm.; Plastic face on laminated wood; Cursor is framed.48HEMMI (Japan)Duplex Slide Rule No. 275 (For Advanced Electric Engineer)1958-196650cm.; Plastic face on laminated wood; Cursor is framed.49HEMMI (Japan)Duplex Slide Rule No. 275 (For Advanced Electric Engineer)1958-196650cm.; Plastic face on laminated wood; Cursor is framed.40HEMMI (Japan)Duplex Slide Rule No. 275 (For Advanced Electric Engineer)1958-196650cm.; Plastic face on laminated wood; Cursor is framed.40HEMMI (Japan)Duplex Slide Rule No. 275 (For Advanced Electric Engineer)1958-196650cm.; Plastic face on laminated wood; Cursor is framed.40HEMMI (Japan)Duplex Slide			Back scales:   Sh1, Sh2, Th1    TI1&TI1, TI2&TI2, SI1&S
Front scales:   L, K, DF    CF, CIF, CI, C    D, X, 0          NOTE: X is radians and 0 is degrees.       Version 1       Back scales:   Sh1, Sh2, Th, A    B, T12, T11, SI, C    D, L1         Gauge Marks on scales: x is on CF and DF and x2 is on X and S1; mark c is on back scale C.       25cm; Plastic face on laminated wood; Cursor is framed.         45HEMMI (Japan)       Duplex Side Rule No. 255 (For Expert Electric Engineer) 1964+       25cm; Plastic face on laminated wood; Cursor is framed.         46HEMMI (Japan)       Duplex Side Rule No. 255D (For Expert Electric Engineer) 1964+       25cm; Plastic face on laminated wood; Cursor is framed.         47HEMMI (Japan)       Duplex Side Rule No. 255C (For Advarced Electric Engineer) 1964+       25cm; Plastic face on laminated wood; Cursor is framed.         48HEMMI (Japan)       Duplex Side Rule No. 257 (For Advarced Electric Engineer) 1958-1966       50cm; Plastic face on laminated wood; Cursor is framed.         49HEMMI (Japan)       Duplex Side Rule No. 257 (For Advarced Electric Engineer) 1958-1966       50cm; Plastic face on laminated wood; Cursor is framed.         49HEMMI (Japan)       Duplex Side Rule No. 275 (For Advarced Electric Engineer) 1958-1966       50cm; Plastic face on laminated wood; Cursor is framed.         49HEMMI (Japan)       Duplex Side Rule No. 2750 (For Advarced Electric Engineer) 1958-1966       50cm; Plastic face on laminated wood; Cursor is framed.         50HUA FANG (China)       No Number       Seales listed on right side:    L1, C, C    D, L13, L12, L1          Rack scales:    Sh1,			
Gauge Marks on scales: π is on CF and DF and π/2 is on X and SI; mark c is on back scale C.       25cm; Plastic face on laminated wood; Cursor is framed.         45IEEMMI (Japan)       Duplex Stide Rule No. 255 (For Expert Electric Engineer)       1958-1966       25cm; Plastic face on laminated wood; Cursor is framed.         86IEEMMI (Japan)       Duplex Stide Rule No. 2550 (For Expert Electric Engineer)       1964       25cm; Plastic face on laminated wood; Cursor is framed.         86IEEMMI (Japan)       Duplex Stide Rule No. 2550 (For Expert Electric Engineer)       1964       25cm; Plastic face on laminated wood; Cursor is framed.         8700 (C, U, D, LJ, LL, LL, LL II)       Back scales: [ Sh1, Sh2, Th, A    B, TL2 TL2, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2 TL2, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2 TL1, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2 TL1, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2 TL1, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2 TL1, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2 TL1, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2, TL1          Back scales: [ Sh1, Sh2, Th, A    B, TL2, TL1, SL    L1		• • • • • • • • • •	
45HEMMI (Japan)Duplex Slide Rule No. 255 (For Expert Electric Engineer)1958-196025cm.; Plastic face on laminated wood; Cursor is framed. Back scales: $  Sh1, Sh2, Th, A    B, TI2, TI1, SI, C    D, X$ 46HEMMI (Japan)Duplex Slide Rule No. 255D (For Expert Electric Engineer)1966+Front scales: $  L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1   Back scales:   Sh1, Sh2, Th, A    B, TI2&TI2, TI1&TI1, SI37HEMMI (Japan)Duplex Slide Rule No. 275 (For Advanced Electric Engineer)1966+Front scales:   L, K, DF    CF, CIF, CI, C    D, L3, LL2, LL1   Soem, Plastic face on laminated wood; Cursor is framed.Back scales:   Sh1, Sh2, Th, A    B, TI2, TI1, SI, C    D, LI47HEMMI (Japan)Duplex Slide Rule No. 275 (For Advanced Electric Engineer)50em.; Plastic face on laminated wood; Cursor is framed.Back scales:   Sh1, Sh2, Th, A    B, TI2, TI1, SI, C    D, LI30ueg Marks on scales: \pi is on CF and DF and \pi/2 is on X and SI; mark c is on back scale C.50em.; Plastic face on laminated wood; Cursor is framed.Back scales:   Sh1, Sh2, Th, A    B, TI2, TI1, SI, C    D, LI48HEMMI (Japan)Duplex Slide Rule No. 275 (For Expert Electric Engineer)1958-196650HUM (Japan)Duplex Slide Rule No. 2750 (For Advanced Electric Engineer)1958-196650HUA FANG (China)No NumberSoem.; Plastic face on laminated wood; Cursor is framed.Back scales:   Sh1, Sh2, Th, A    B, TI2, TI1, SI, C    D, X50HUA FANG (China)No NumberNo Sumber50HUA FANG (China)No NumberNeed complete information with listing of details of scales, Cand D.Note: There a>SEE THE NOTE AT END OF THIS LISTING REGARDING THE K&E SLIDE RULES.<$			<b>Datk states.</b> [[511, 512, 11, A [] <b>D</b> , 112, 111, 51, C [] <b>D</b> , E1
Front scales:   L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1   Version 2Back scales:Back scales:   Sh12, Th1, SI, C    D, XYeed complete information with listing of details of scales, gauge marks and cursor lines.25cm.; Plastic face on laminated wood; Cursor is framed.Yeed complete information with listing of details of scales, gauge marks and cursor lines.25cm.; Plastic face on laminated wood; Cursor is framed.Yeed complete information with listing of details of scales, gauge marks and cursor lines.25cm.; Plastic face on laminated wood; Cursor is framed.Yeed complete information with listing of details of scales, gauge marks and cursor lines.50cm.; Plastic face on laminated wood; Cursor is framed.Yeed complete information with listing of details of scales, gauge marks and cursor lines.50cm.; Plastic face on laminated wood; Cursor is framed.Yeed complete information with listing of details of scales, gauge marks and cursor lines.50cm.; Plastic face on laminated wood; Cursor is framed.Yeed complete information with listing of details of scales, gauge marks and cursor lines.50cm.; Plastic face on laminated wood; Cursor is framed.Yeed complete information with listing of details of scales, gauge marks and cursor lines.50cm.; Plastic face on laminated wood; Cursor is framed.Yeed complete information with listing of details of scales, gauge marks and cursor lines.50cm.; Plastic face on laminated wood; Cursor is framed.Yeed complete information with listing of details of scales, gauge marks and cursor lines.50cm.; Plastic face on wood; Cursor is framed.Yeed complete information with listing of details of scales.50cm.; Plastic face on wood; Cursor is framed.<			958-1966 25cm · Plastic face on laminated wood · Cursor is framed
46HEMMI (Japan)       Duplex Slide Rule No. 255D (For Expert Electric Engineer) 1966+ Front scales:    L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1          25cm.; Plastic face on laminated wood ; Cursor is framed.         Gauge Marks on scales: π is on CF and DF and π/2 is on X; Mark c is on back scale C; e is on LL2 and LL3.       50cm.; Plastic face on laminated wood ; Cursor is framed.         Gauge Marks on scales: π is on CF and DF and π/2 is on X; Mark c is on back scale C;       60 months and θ is degrees.       Version 1         Gauge Marks on scales: π is on CF and DF and π/2 is on X and SI; mark c is on back scale C.       50cm.; Plastic face on laminated wood ; Cursor is framed.         48HEMMI (Japan)       Duplex Slide Rule No. 275 (For Advanced Electric Engineer)       1958-1966         Front scales:    L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1          Version 2       Socm.; Plastic face on laminated wood ; Cursor is framed.         9HEMMI (Japan)       Duplex Slide Rule No. 2750 (For Advanced Electric Engineer)       1958-1966       Socm.; Plastic face on laminated wood ; Cursor is framed.         9HEMMI (Japan)       Duplex Slide Rule No. 2750 (For Advanced Electric Engineer)       1966+       Socm.; Plastic face on laminated wood ; Cursor is framed.         9 Merks on scales: π is on CF and DF and π/2 is on X; Mark e is on back scale C.       Note: The stale stark on scales: π is on CF and DF and π/2 is on X; Mark e is on back scale C.       NOTE: Rule has two cursors.         50HUA FANG (China)       No Number       No ecd complete information wit			
Front scales:    L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1   Back scales:    Sh1, Sh2, Th, A    B, T12, T11, ST, C    D, LI3,47/HEMMI (Japan)Duplex Slide Rule No. 275 (For Advanced Electric Engineer)951-195850/Em. (J, C,	Need complete information with listing of	f details of scales, gauge marks and cursor lines.	
Gauge Marks on scales: $\pi$ is on CF and DF and $\pi/2$ is on X; Mark c is on back scale C; e is on LL2 and LL3.47HEMMI (Japan) Duplex Slide Rule No. 275 (For Advanced Electric Engineer)50cm.; Plastic face on laminated wood; Cursor is framed. Back scales: $\parallel$ K, DF $\parallel$ CF, CIF, CI, C $\parallel$ D, L3, U, 2, U, 1 $\parallel$ Gauge Marks on scales: $\pi$ is on CF and DF and $\pi/2$ is on X and SI; mark c is on back scale C.48HEMMI (Japan) Duplex Slide Rule No. 275 (For Expert Electric Engineer)1958-1966 Version 2Socm.; Plastic face on laminated wood; Cursor is framed. Back scales: $\parallel$ K, N, DF $\parallel$ CF, CIF, CI, C $\parallel$ D, L13, LL2, LL1 $\parallel$ Socm.; Plastic face on laminated wood; Cursor is framed. 	46HEMMI (Japan)	Duplex Slide Rule No. 255D (For Expert Electric Engineer) 19	
47HEMMI (Japan)Duplex Slide Rule No. 275 (For Advanced Electric Engineer)951-1958S0cm.; Plastic face on laminated wood ; Cursor is framed.Back scales: $\parallel L, K, DF \parallel CF, CF, Cl, C \parallel D, X, 0 \parallel$ NOTE: X is radians and 0 is degrees.Version 1Gauge Marks on scales: $\pi$ is on CF and DF and $\pi/2$ is on X and SI; mark c is on back scale C.Socm.; Plastic face on laminated wood ; Cursor is framed.Back scales: $\parallel L, K, DF \parallel CF, CF, Cl, C \parallel D, LL3, LL2, LL1 \parallel$ Version 2Socm.; Plastic face on laminated wood ; Cursor is framed.Back scales: $\parallel L, K, DF \parallel CF, CF, Cl, C \parallel D, LL3, LL2, LL1 \parallel$ Version 2Socm.; Plastic face on laminated wood ; Cursor is framed.49HEMMI (Japan)Duplex Slide Rule No. 275D (For Advanced Electric Engineer)1958-1966Socm.; Plastic face on laminated wood ; Cursor is framed.Socm.; Plastic face on laminated wood ; Cursor is framed.For scales: $\parallel L, K, DF \parallel CF, CF, Cl, C \parallel D, LL3, LL2, LL1 \parallel$ Version 2Socm.; Plastic face on laminated wood ; Cursor is framed.Gom arcs is on CF and DF and $\pi/2$ is on X; Mark c is on back scale C.Sole LA FANG (China)JANGSHI type BNo. 6171PAT 129Designed by Jiang Dequ 194025 cm.; Photo plastic face on wood; cursor is framed.Sole LUA FANG (China)JANGSHI type BNo. 6171PAT 129Designed by Ji			
Front scales: $\ L, K, DF \  CF, CIF, CI, C \  D, X, 0 \ $ NOTE: X is radians and 0 is degrees.Version 1Back scales: $\ Sh1, Sh2, Th, A \  B, T12, T11, SI, C \  D, L1 Gauge Marks on scales: \pi is on CF and DF and \pi/2 is on X and SI; mark c is on back scale C.48HEMMI (Japan)Duplex Slide Rule No. 275 (For Expert Electric Engineer)1958-196Yersion 2Sole:: \ L, K, DF \  CF, CIF, CI, C \  D, L13, LL2, L11 \ Sole:: \ L, K, DF \  CF, CIF, CI, C \  D, L13, LL2, L11 \ Sole:: \ L, K, DF \  CF, CIF, CI, C \  D, L13, LL2, L11 \ Sole:: \ L, K, DF \  CF, CIF, CI, C \  D, L13, LL2, L11 \ Sole:: \ Sh1, Sh2, Th, A \  B, T12, T11, SI, C \  D, X \\ Sole:: Rule has two cursor is framed.Gauge Marks on scales:: \pi is on CF and DF and \pi/2 is on X; Mark c is on back scale C.Sole:: Rule has two cursors.Sole ULA FANG (China)NounderNeed complete information with listing of details of scales.Sole: G(China)No MumberNeed complete information with listing of details of scales.Sole: Isted on left side: \ L1, CU, (T)\&(T) \  B, S\&S, SH, CI, C \  D, LL2, LL3 \ Designed by Jiang Dequ 1940Scales listed on right side: \ L11, L, CT \  B, CS, TH, C \  Gauge Marks on scales: The marks \rho, and ' and " are on scales C and D.Note: There aS2KEUFFEL & ESSER (USA)Log Log Log Veetor No. 4093-31929-1935 & 1936-193810 in.; Plastic face on wood; carly Cursor was not framed;$			
Gauge Marks on scales: $\pi$ is on CF and DF and $\pi/2$ is on X and SI; mark c is on back scale C.48HEMMI (Japan)Duplex Slide Rule No. 275 (For Expert Electric Engineer)1958-1966Socm.; Plastic face on laminated wood ; Cursor is framed.Back scales: $   L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1   Socm.; Plastic face on laminated wood ; Cursor is framed.Back scales:    L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1   Socm.; Plastic face on laminated wood ; Cursor is framed.Back scales:    L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1   Socm.; Plastic face on laminated wood ; Cursor is framed.Back scales:    L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1   Socm.; Plastic face on laminated wood ; Cursor is framed.Gauge Marks on scales: \pi is on CF and DF and \pi/2 is on X; Mark c is on back scale C.NOTE: Rule has two cursors.50HUA FANG (China)No NumberNeed complete information with listing of details of scales.State listed on left side:    LL1, CU, (T) & (T)    B, S&S, SH, CI, C    D, LL2, LL3   Designed by Jiang Dequ 1940Gauge Marks on scales: The marks \rho, and ' and " are on scales C and D.Note: There a> SEE THE NOTE AT END OF THIS LISTING REGARDING THE K&E SLIDE RULES.52KEUFFEL & ESSER (USA)Log Log Vector No. 4093-31929-1935 & 1936-193810 in;; Plastic face on wood ; carly Cursor was not framed;$	· · · · · · · · · · · · · · · · · · ·		
48HEMMI (Japan)       Duplex Slide Rule No. 275 (For Expert Electric Engineer)       1958-1966       Socm.; Plastic face on laminated wood; Cursor is framed.         Front scales:    L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1          Version 2       Back scales:   Sh1, Sh2, Th, A    B, T12, T11, SI, C    D, X         49HEMMI (Japan)       Duplex Slide Rule No. 275D (For Advanced Electric Engineer       1964+       Socm.; Plastic face on laminated wood; Cursor is framed.         Front scales:    L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1          Socm.; Plastic face on laminated wood; Cursor is framed.         Gauge Marks on scales: π is on CF and DF and π/2 is on X; Mark c is on back scale C.       NOTE: Rule has two cursors.         50HUA FANG (China)       No Number       Need complete information with listing of details of scales, State State State on laminated wood; Cursor is framed. Is n         Scales listed on left side:    LL1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3          Designed by Jiang Dequ 1940 25 cm.; Photo plastic face on wood; cursor is framed. Is n         Scales listed on left side:    LL1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3          Scales State on scales: The marks ρ , and ' and '' are on scales C and D.       Note: There a         Stee UFFEL & ESSER (USA)       Log Log Vector No. 4093-3       1929-1935 & 1936-1938       10 in.; Plastic face on wood; early Cursor was not framed; Foront scales: II, LL0, DF    CF, B, CI, C    D, LL3, LL2          Note: This is the first slide rule sold with hyperbolic scalesBack scales:    Sh1, Sh2, Th    S11& S12& S12, T1			<b>Back scales:</b> $  511 $ , $512$ , $111$ , $A    B$ , $112$ , $111$ , $51$ , $C    D$ , $L1$
Front scales:          L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1          Version 2       Back scales:         Sh1, Sh2, Th, A    B, T12, T11, SI, C    D, X         49HEMMI (Japan)       Duplex Slide Rule No. 275D (For Advanced Electric Engineer       1966+       50cm.; Plastic face on laminated wood ; Cursor is framed. Back scales:         Front scales:          L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1          Socm.; Plastic face on laminated wood ; Cursor is framed. Back scales:       Socm.; Plastic face on laminated wood ; Cursor is framed. Back scales:         50HUA FANG (China)       No Number       No Number       Noed complete information with listing of details of scales.         51JIANG (China)       JIANGSHI type B       No. 6171       PAT 129       Designed by Jiang Dequ 1940       25 cm.; Photo plastic face on wood; Cursor is framed. Is n Scales listed on left side:          LL1, L, CT    B, CS, TH, C    Gauge Marks on scales:       The marks ρ, and ' and " are on scales C and D.         Note: There a       SEE THE NOTE AT END OF THIS LISTING REGARDING THE K&E SLIDE RULES.       Seales listed on right side:       10 in.; Plastic face on wood ; early Cursor was not framed; Front scales:         53KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-3       1929-1935       10 in.; Plastic face on wood ; early Cursor was not framed; Front scales:         63KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-5       1934-1938       20 in.; Plastic face on wood ; Cursor is framed. Adjustable Front scales: <t< td=""><td></td><td></td><td>958-1966 50cm · Plastic face on laminated wood · Cursor is framed</td></t<>			958-1966 50cm · Plastic face on laminated wood · Cursor is framed
Need complete information with listing of details of scales, gauge marks and cursor lines.         49HEMMI (Japan)       Duplex Slide Rule No. 275D (For Advanced Electric Engineer 1966+ Front scales: $   L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1   $ 50cm.; Plastic face on laminated wood; Cursor is framed. Back scales: $   Sh1, Sh2, Th, A    B, T12&T11, S Gauge Marks on scales: \pi is on CF and DF and \pi/2 is on X; Mark c is on back scale C.       NOTE: Rule has two cursors.         50HUA FANG (China)       JIANGSHI type B       No. 6171       PAT 129       Designed by Jiang Dequ 1940       25 cm.; Photo plastic face on wood; Cursor is framed. Is n Scales listed on left side:    LL1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3          Scales listed on right side:    LL1, L, CT    B, CS, TH, C            Gauge Marks on scales: The marks \rho, and 'and" are on scales C and D.       Note: There a       Scales listed on right side:    LL1, L, CT    B, CS, TH, C            S2KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-3       1929-1935 & 1936-1938       10 in.; Plastic face on wood; early Cursor was not framed;         Front scales:    L, LO, DF    CF, B, CI, C    D, LL3, LL2          Note: This is the first slide rule sold with hyperbolic scalesBack scales:    Sh1, Sh2, Th    SI1&SI1, SI2&SI2, Tt&TI         Gauge Marks on scales: On Front Scales: \pi is on B, CF, and DF; \pi/4 is on B; marks ' and ", and R are on scales C and D.       Cursor         53KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-5       1934-1938       20 in;; Plastic face on wood; Cursor is framed. Adjustable Front scal$			
Front scales:    L, K, DF    CF, CIF, CI, C    D, LL3, LL2, LL1          Back scales:   Sh1, Sh2, Th, A    B, T12&T12, T11&T11, S         Gauge Marks on scales: π is on CF and DF and π/2 is on X; Mark c is on back scale C.       NOTE: Rule has two cursors.         50HUA FANG (China)       No Number       Need complete information with listing of details of scales.         51JIANG (China)       JIANGSHI type B       No. 6171       PAT 129         Scales listed on left side:    LL1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3          Gauge Marks on scales: The marks ρ, and ' and " are on scales C and D.         Note: There a         SEE THE NOTE AT END OF THIS LISTING REGARDING THE K&E SLIDE RULES.         SZKEUFFEL & ESSER (USA)       Log Log Vector No. 4093-3       1929-1935 & 1936-1938       10 in .; Plastic face on wood ; early Cursor was not framed;         Fornt scales:    L, LL0, DF    CF, B, CI, C    D, LL3, LL2          Note: This is the first slide rule sold with hyperbolic scalesBack scales:    Sh1, Sh2, Th    S11&S11, S12&S12, TI&TI    Gauge Marks on scales: C on Front Scales; π is on B, CF, and DF; π/4 is on B; marks ' and ", and R are on scales C and D.       Cursor         SEE THE NOTE AT END OF THIS LISTING REGARDING THE K&E SLIDE RULES.         S2KEUFFEL & ESSER (USA)       Log Log Vecto			
Gauge Marks on scales: $\pi$ is on CF and DF and $\pi/2$ is on X; Mark c is on back scale C.       NOTE: Rule has two cursors.         50HUA FANG (China)       No Number       Need complete information with listing of details of scales.         51JIANG (China)       JIANGSHI type B       No. 6171       PAT 129       Designed by Jiang Dequ 1940       25 cm; Photo plastic face on wood; Cursor is framed. Is n         Scales listed on left side:    LL1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3         Designed by Jiang Dequ 1940       25 cm; Photo plastic face on wood; Cursor is framed. Is n         Scales listed on left side:    LL1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3         Designed by Jiang Dequ 1940       25 cm; Photo plastic face on wood; Cursor is framed. Is n         Scales Iisted on left side:    LL1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3         Designed by Jiang Dequ 1940       25 cm; Photo plastic face on wood; Cursor is framed. Is n         Scales listed on right side:    LL1, L, CT    B, CS, TH, C            Gauge Marks on scales: The marks $\rho$ , and ' and " are on scales C and D.       SceE THE NOTE AT END OF THIS LISTING REGARDING THE K&E SLIDE RULES.         52KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-3       1929-1935 & 1936-1938       10 in.; Plastic	49HEMMI (Japan)	Duplex Slide Rule No. 275D (For Advanced Electric Engineer	r 1966+ 50cm.; Plastic face on laminated wood ; Cursor is framed.
50HUA FANG (China)       No Number       Need complete information with listing of details of scales.         51JIANG (China)       JIANGSHI type B       No. 6171       PAT 129       Designed by Jiang Dequ 1940       25 cm.; Photo plastic face on wood; Cursor is framed. Is n         Scales listed on left side:       ILL1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3          Designed by Jiang Dequ 1940       25 cm.; Photo plastic face on wood; Cursor is framed. Is n         Scales listed on left side:       ILL1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3          Designed by Jiang Dequ 1940       25 cm.; Photo plastic face on wood; Cursor is framed. Is n         Scales listed on left side:       ILL1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3          Designed by Jiang Dequ 1940       25 cm.; Photo plastic face on wood; Cursor is framed. Is n         Scales listed on left side:       ILL1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3          Designed by Jiang Dequ 1940       25 cm.; Photo plastic face on wood; Cursor is framed. Is n         Scales listed on right side:       ILL1, L, CT    B, CS, TH, C          Scales listed on right side:       ILL1, L, CT    B, CS, TH, C            Step type       Step type       Scales listed on right side:       IL1, L, CT    B, CS, TH, C            Scales listed on right side:       ILL1, L, CT    B, CS, TH, C          Scales listed on right side:       IL1, L, CT    B, CS, TH, C            Scales listed on right side:       ILL0, DF	Front scales:    L, K, DF    CF, CIF, CI, C	C    D, LL3, LL2, LL1	Back scales:   Sh1, Sh2, Th, A    B, TI2&TI2, TI1&TI1, S
51 JIANG (China)       JIANGSHI type B       No. 6171       PAT 129       Designed by Jiang Dequ 1940       25 cm.; Photo plastic face on wood; Cursor is framed. Is n         Scales listed on left side:       IL L1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3         Designed by Jiang Dequ 1940       25 cm.; Photo plastic face on wood; Cursor is framed. Is n         Scales listed on left side:       IL L1, CU, (T)&(T)    B, S&S, SH, CI, C    D, LL2, LL3         Designed by Jiang Dequ 1940       25 cm.; Photo plastic face on wood; Cursor is framed. Is n         Scales listed on right side:       IL L1, L, CT    B, CS, TH, C         Scales listed on right side:       IL L1, L, CT    B, CS, TH, C           Ster There a       See THE NOTE AT END OF THIS LISTING REGARDING THE K&E SLIDE RULES.       See The scales:       I. L, L0, DF    CF, B, CI, C    D, LL3, LL2         Note: This is the first slide rule sold with hyperbolic scalesBack scales:       I Sh1, Sh2, Th    SI1&SI1, SI2&SI2, TI&TI         Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D.       Cursor         53KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-5       1934-1938       20 in.; Plastic face on wood; Cursor is framed. Adjustable         Front scales:       I. LL0, DF    CF, B, CI, C    D, LL3, LL2         Note: This is the first 20 inch sold with hyperbolic scalesBack scales:       Sh1, Sh2, Th    SI1&SI1, SI2&SI2, SI2, SI2, SI2, SI2, SI2, SI2, SI2,	<b>Gauge Marks on scales:</b> $\pi$ is on CF and	DF and $\pi/2$ is on X; Mark c is on back scale C.	NOTE: Rule has two cursors.
Scales listed on left side: $\parallel LL1, CU, (T)\&(T) \parallel B, S\&S, SH, CI, C \parallel D, LL2, LL3 \parallel$ Scales listed on right side: $\parallel LL1, L, CT \parallel B, CS, TH, C \parallel$ Gauge Marks on scales: The marks $\rho$ , and ' and " are on scales C and D.         Note: There a         SEE THE NOTE AT END OF THIS LISTING REGARDING THE K&E SLIDE RULES.         52KEUFFEL & ESSER (USA)         Front scales: $\parallel L, LL0, DF \parallel CF, B, CI, C \parallel D, LL3, LL2 \parallel$ Note: This is the first slide rule sold with hyperbolic scalesBack scales: $\parallel Sh1, Sh2, Th \parallel SI1\&SI1, SI2\&SI2, TI&TI$ Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D.         Curse         53KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-5       1934-1938       20 in.; Plastic face on wood ; Cursor is framed. Adjustable         Front scales: $\parallel L, LL0, DF \parallel CF, B, CI, C \parallel D, LL3, LL2 \parallel$ Note: This is the first 20 inch sold with hyperbolic scalesBack scales: $\parallel Sh1, Sh2, Th \parallel SI1\&S11, SI2\&S12, SI2\&S12, TI\&TI$ Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D.       Cursor is framed. Adjustable         Front scales: $\parallel L, LL0, DF \parallel CF, B, CI, C \parallel D, LL3, LL2 \parallel$ Note: This is the first 20 inch sold with hyperbolic scalesBack scales: $\parallel Sh1, Sh2, Th \parallel SI1\&S11, SI2\&S12, SI2\&S12, TI\&TI$ Gauge Marks on		No Number	Need complete information with listing of details of scales.
Gauge Marks on scales: The marks ρ, and ' and " are on scales C and D.         Note: There a         ▶ SEE THE NOTE AT END OF THIS LISTING REGARDING THE K&E SLIDE RULES.         52KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-3       1929-1935 & 1936-1938       10 in.; Plastic face on wood ; early Cursor was not framed;         Front scales:    L, LL0, DF    CF, B, CI, C    D, LL3, LL2         Note: This is the first slide rule sold with hyperbolic scalesBack scales:    Sh1, Sh2, Th    SI1&SI1, SI2&SI2, TI&TI         Gauge Marks on scales: On Front Scales: π is on B, CF, and DF; π/4 is on B; marks ' and ", and R are on scales C and D.       Cursor         53KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-5       1934-1938       20 in.; Plastic face on wood ; Cursor is framed. Adjustable         Front scales:    L, LL0, DF    CF, B, CI, C    D, LL3, LL2         Note: This is the first 20 inch sold with hyperbolic scalesBack scales:    Sh1, Sh2, Th    SI1&SI1, SI2&SI2, TI&TI         Gauge Marks on scales: On Front Scales: π is on B, CF, and DF; π/4 is on B; marks ' and ", and R are on scales C and D.       Cursor			•
Note: There a SEE THE NOTE AT END OF THIS LISTING REGARDING THE K&E SLIDE RULES. 52KEUFFEL & ESSER (USA) Log Log Vector No. 4093-3 1929-1935 & 1936-1938 10 in.; Plastic face on wood ; early Cursor was not framed; Front scales:    L, LL0, DF    CF, B, CI, C    D, LL3, LL2   Note: This is the first slide rule sold with hyperbolic scalesBack scales:    Sh1, Sh2, Th    S11&S11, S12&S12, T1&T1 Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D. Cursor 53KEUFFEL & ESSER (USA) Log Log Vector No. 4093-5 1934-1938 20 in.; Plastic face on wood ; Cursor is framed. Adjustable Front scales:    L, LL0, DF    CF, B, CI, C    D, LL3, LL2   Note: This is the first 20 inch sold with hyperbolic scalesBack scales:    Sh1, Sh2, Th    S11&S11, S12&S12, S12&S12, T1&T1 Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D. Cursor is framed. Adjustable Front scales: 0 n Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D. Cursor is framed. Adjustable Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D. Cursor			Scales listed on right side:    LL1, L, CT    B, CS, TH, C
▶ SEE THE NOTE AT END OF THIS LISTING REGARDING THE K&E SLIDE RULES.         52KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-3       1929-1935 & 1936-1938       10 in.; Plastic face on wood ; early Cursor was not framed;         Front scales:          L, LL0, DF    CF, B, CI, C    D, LL3, LL2         Note: This is the first slide rule sold with hyperbolic scales Back scales:    Sh1, Sh2, Th    S11&S11, S12&S12, T1&T1         Gauge Marks on scales: On Front Scales: π is on B, CF, and DF; π/4 is on B; marks ' and ", and R are on scales C and D.       Cursor         53KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-5       1934-1938       20 in.; Plastic face on wood ; Cursor is framed. Adjustable         Front scales:          L, LL0, DF    CF, B, CI, C    D, LL3, LL2         Note: This is the first 20 inch sold with hyperbolic scalesBack scales:    Sh1, Sh2, Th    S11&S11, S12&S12, S12&S12, T1&T1         Gauge Marks on scales: On Front Scales: π is on B, CF, and DF; π/4 is on B; marks ' and ", and R are on scales C and D.       Cursor		and and are on scales C and D.	
52KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-3       1929-1935 & 1936-1938       10 in.; Plastic face on wood ; early Cursor was not framed;         Front scales:          L, LL0, DF    CF, B, CI, C    D, LL3, LL2         Note: This is the first slide rule sold with hyperbolic scales       Back scales:          Sh1, Sh2, Th    S11&S11, S12&S12, S12&S12, Tl&T1         Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D.       Cursor         53KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-5       1934-1938       20 in.; Plastic face on wood ; Cursor is framed. Adjustable         Front scales:          L, LL0, DF    CF, B, CI, C    D, LL3, LL2         Note: This is the first 20 inch sold with hyperbolic scales       Back scales:          Sh1, Sh2, Th    S11&S11, S12&S12, S12&S12, TI&T1         Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D.       Cursor		IS LISTING REGARDING THE K&F SLIDE RULES	
Front scales:          L, LL0, DF    CF, B, CI, C    D, LL3, LL2         Note: This is the first slide rule sold with hyperbolic scales       Back scales:          Sh1, Sh2, Th    S11&S11, S12&S12, T1&T1         Gauge Marks on scales:       On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D.       Curse         53KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-5       1934-1938       20 in.; Plastic face on wood; Cursor is framed. Adjustable         Front scales:          L, LL0, DF    CF, B, CI, C    D, LL3, LL2         Note: This is the first 20 inch sold with hyperbolic scales       Back scales:          Sh1, Sh2, Th    S11&S11, S12&S12, S12&S12, TI&T1         Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D.       Cursor			
Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D.       Curse         53KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-5       1934-1938       20 in.; Plastic face on wood; Cursor is framed. Adjustable         Front scales:    L, LL0, DF    CF, B, CI, C    D, LL3, LL2         Note: This is the first 20 inch sold with hyperbolic scales/Back scales:    Sh1, Sh2, Th    SI1&SI1, SI2&SI2, TI&TI         Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D.       Cursor		0 0	
53KEUFFEL & ESSER (USA)       Log Log Vector No. 4093-5       1934-1938       20 in.; Plastic face on wood ; Cursor is framed. Adjustable         Front scales:          L, LL0, DF    CF, B, CI, C    D, LL3, LL2         Note: This is the first 20 inch sold with hyperbolic scalesBack scales:          Sh1, Sh2, Th    Sl1&Sl1, Sl2&Sl2, TI&TI         Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D.       Cursor			
Front scales: $   L, LL0, DF    CF, B, CI, C    D, LL3, LL2   $ Note: This is the first 20 inch sold with hyperbolic scalesBack scales: $   Sh1, Sh2, Th    S11\&S11, S12\&S12, T1&T1$ Gauge Marks on scales: On Front Scales: $\pi$ is on B, CF, and DF; $\pi/4$ is on B; marks ' and ", and R are on scales C and D.       Curso			
		C    D, LL3, LL2   Note: This is the first 20 inch sold with hyp	perbolic scales Back scales:    Sh1, Sh2, Th    SI1&SI1, SI2&SI2, TI&TI
54KEUFFEL & ESSER (USA)Log Log Duplex Vector No. 4083-31939-194610 in.; Plastic face on wood ; Cursor is framed. Adjustable			
	54KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. 4083-319	939-194610 in.; Plastic face on wood ; Cursor is framed. Adjustable

Gauge Marks on scales: $\pi$ is on A. B. CF.	C    D, LL3, LL2   and DF; $\pi$ /4 is on A and B scales; The marks 1°, ' and " a	re on scale ST.	Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Cu
55KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. 4083-3	1947-1948	10 in.; Plastic face on wood ; Cursor is framed. Adjusta
Front scales:    LL02, LL03, DF    CF, CIF			Back scales:    L, LL01, LL1, A    B, T&T, ST, S&S    1
Gauge Marks on scales: $\pi$ is on A, B, CF,	and DF; $\pi/\!4$ is on A and B scales; The marks 1°, ' and " a	re on scale ST.	Cu
56KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. N4083-3	1949-1952	10 in.; Plastic face on wood ; Cursor is framed. Adjusta
Front scales:    LL02, LL03, DF    CF, CIF	F, CI, C    D, LL3, LL2		Back scales:    L, LL01, LL1, A    B, T&T, ST, S&S    I
Gauge Marks on scales: $\pi$ is on A, B, CF,	and DF; $\pi/4$ is on A and B scales; The marks 1°, $$ ' and " a	re on scale ST.	Cu
57KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. N4083-3	1953	10 in.; Plastic face on wood ; Cursor is framed. Adjusta
Front scales:    LL02, LL03, DF    CF, CIF			Back scales:    Sh1, Sh2, Th, A    B, T&T, ST, S&S    I
	and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " a	re on scale ST.	Cı
58KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. 4083-3	1954-1954	10 in.; Plastic face on wood ; Cursor is framed. Adjusta
Front scales:    LL02, LL03, DF    CF, CIF		1 07	<b>Back scales:</b>    Sh1, Sh2, Th, A    B, T&T, ST, S&S    1
	and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " a		С
59KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. 4083-3	1955-1961	10 in.; Plastic face on wood ; Cursor is framed. Adjusta
<b>Front scales:</b> $\parallel$ LL02, LL03, DF $\parallel$ CF, CIF Cauge Marks on scales: $\pi$ is on A B CF.	and DF; $\pi/4$ is on A and B scales; The mark 1° is on scale	SRT	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S    Cu
60KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083-		10 in.; Plastic face on wood ; Cursor is framed. Adjusta
Front scales:    LL02, LL03, DF    CF, CIF	· · · ·	,	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S
	and DF; $\pi/4$ is on A and B scales; The mark 1° is on scale		
61KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. 4083-5	1939-1946	20 in.; Plastic face on wood ; Cursor is framed. Adjusta
Front scales:    L, LL1, DF    CF, CIF, CI,		1939-1940	Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D,
	and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " a	re on scale ST.	
62KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. 4083-5	1947-1948	20 in.; Plastic face on wood ; Cursor is framed. Adjusta
Front scales:    LL02, LL03, DF    CF, CIF	8 8 I	1,1,1,1,10	<b>Back scales:</b>    L, LL01, LL1, A    B, T&T, ST, S&S
	and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " a	re on scale ST.	C
63KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. N4083-5	1949-1952	20 in.; Plastic face on wood ; Cursor is framed. Adjusta
Front scales:    LL02, LL03, DF    CF, CIF			Back scales:    L, LL01, LL1, A    B, T&T, ST, S&S    1
Gauge Marks on scales: $\pi$ is on A, B, CF,	and DF; $\pi/4$ is on A and B scales; The marks 1°, $$ ' and " a	re on scale ST.	C
64KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. N4083-5	1953	20 in.; Plastic face on wood ; Cursor is framed. Adjusta
Front scales:    LL02, LL03, DF    CF, CIF	F, CI, C    D, LL3, LL2		Back scales:    Sh1, Sh2, Th, A    B, T&T, ST, S&S    I
Gauge Marks on scales: $\pi$ is on A, B, CF,	and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " a	re on scale ST.	Cu
65KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. 4083-5	1954-1954	20 in.; Plastic face on wood ; Cursor is framed. Adjusta
Front scales:    LL02, LL03, DF    CF, CIF			Back scales:    Sh1, Sh2, Th, A    B, T&T, ST, S&S    1
-	and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " a	re on scale ST.	Հւ
66KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. 4083-5	1955-1961	20 in.; Plastic face on wood ; Cursor is framed. Adjusta
Front scales:    LL02, LL03, DF    CF, CIF		CDT	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S
Gauge Marks on scales: $\pi$ is on A. B. U.F.			Cu
-	and DF; $\pi/4$ is on A and B scales; The mark 1° is on scale		
67KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083-	5) 1962	
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083-           F, CI, C    D, LL3, LL2           Identical rules with differe	5) 1962 nt color cases	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF,	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083-           C, CI, C    D, LL3, LL2           Identical rules with differe           and DF; $\pi/4$ is on A and B scales; The mark 1° is on scale	5) 1962 nt color cases e SRT.	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S   Cu
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083-           F, CI, C    D, LL3, LL2           Identical rules with differe and DF; $\pi/4$ is on A and B scales; The mark 1° is on scale           KELON (This 10 in. Rule was designed	5) 1962 nt color cases e SRT.	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S   Ct red) Information furnished by Joe Maskin from June 1999
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083-           F, CI, C    D, LL3, LL2           Identical rules with differe           and DF; π /4 is on A and B scales; The mark 1° is on scale         KELON (This 10 in. Rule was designed           F    CF, CIF, L, CI, C    D, Ln0, Ln1, Ln2, Ln3            KELON (Ln1, Ln2, Ln3	5) 1962 nt color cases sRT. , but not produce	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S   Ct ed) Information furnished by Joe Maskin from June 1999 Back scales:    Constants, Sh1, Sh2, Th, A    B, T1&T1
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083-         F, CI, C    D, LL3, LL2         Identical rules with differe         and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale         KELON (This 10 in. Rule was designed         F    CF, CIF, L, CI, C    D, Ln0, Ln1, Ln2, Ln3            LON was more gauge marks, a magnifying lens built into the	5) 1962 nt color cases sRT. , but not produce	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S   Ct ed) Information furnished by Joe Maskin from June 1999 Back scales:    Constants, Sh1, Sh2, Th, A    B, T1&T use of color on the scales, and using a folded scale at sqrt
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083-           F, CI, C    D, LL3, LL2           Identical rules with differe and DF; π/4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, CI, C    D, Ln0, Ln1, Ln2, Ln3              LON was more gauge marks, a magnifying lens built into the color of th	<ul> <li>5) 1962</li> <li>nt color cases</li> <li>sRT.</li> <li>, but not produce</li> <li>he cursor, greater</li> </ul>	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S   Cr ed) Information furnished by Joe Maskin from June 1999 Back scales:    Constants, Sh1, Sh2, Th, A    B, T1&T1 use of color on the scales, and using a folded scale at sqrt 25 cm.; Plastic face on laminated wood ; Cursor is not
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr,	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- F, Cl, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, Cl, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is	5) 1962 nt color cases : SRT. , but not produc ne cursor, greater degrees.	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S    Cred) Information furnished by Joe Maskin from June 1999 Back scales:    Constants, Sh1, Sh2, Th, A    B, T1&T1 use of color on the scales, and using a folded scale at sqrt 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D
<ul> <li>67KEUFFEL &amp; ESSER (USA)</li> <li>Front scales:    LL02, LL03, DF    CF, CIF</li> <li>Gauge Marks on scales: π is on A, B, CF,</li> <li>68KEUFFEL &amp; ESSER (USA)</li> <li>Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI</li> <li>Discussed at K&amp;E for including on the KEI</li> <li>69LAFAYETTE (USA / JAPAN San</li> <li>Front scales:    Tr1, Tr2, P', P    Q, ST, Sr,</li> <li>Gauge Marks on scales: π is on C, D, CF,</li> </ul>	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- F, Cl, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, Cl, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on	5) 1962 nt color cases : SRT. , but not produc ne cursor, greater degrees.	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S   Cr ced) Information furnished by Joe Maskin from June 1999 Back scales:    Constants, Sh1, Sh2, Th, A    B, T1&T1 use of color on the scales, and using a folded scale at sqrt 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D und po on C&D) Cr
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DF Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- $F, CI, C \parallel D, LL3, LL2 \parallel$ Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F $\parallel$ CF, CIF, L, CI, C $\parallel$ D, Ln0, Ln1, Ln2, Ln3 $\parallel$ LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C $\parallel$ D, LL03 LL02, Ll01 $\parallel$ Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102	5) 1962 nt color cases SRT. , but not product ne cursor, greater degrees. A & B; and C1 a	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S   Cr ced) Information furnished by Joe Maskin from June 1999 Back scales:    Constants, Sh1, Sh2, Th, A    B, T1&T1 use of color on the scales, and using a folded scale at sqrt 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D Ind $\rho^{0}$ on C&D) Cr 25 cm.; Plastic face on laminated wood ; Cursor is not
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DF Discussed at K&E for including on the KEF 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr,	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- $C, Cl, C \parallel D, LL3, LL2 \parallel$ Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F $\parallel$ CF, CIF, L, Cl, C $\parallel$ D, Ln0, Ln1, Ln2, Ln3 $\parallel$ LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C $\parallel$ D, LL03 LL02, Ll01 $\parallel$ Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C $\parallel$ D, LL03 LL02, Ll01 $\parallel$ Note: Sr is radians; S0 is	5) 1962 nt color cases SRT. , but not product ne cursor, greater degrees. A & B; and C1 a degrees.	Back scales:          Sh1, Sh2, Th, A    B, T&T, SRT, S&S            Contract       Contract         Sed)       Information furnished by Joe Maskin from June 1999         Back scales:          Constants, Sh1, Sh2, Th, A    B, T1&T1         use of color on the scales, and using a folded scale at sqrt       25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       Cr         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DF Discussed at K&E for including on the KEF 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on c, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, Cl, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, Cl, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is sales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^{0}$ are on C	5) 1962 nt color cases SRT. , but not product ne cursor, greater degrees. A & B; and C1 a degrees.	Back scales:          Sh1, Sh2, Th, A    B, T&T, SRT, S&S           Cr       Cr         red)       Information furnished by Joe Maskin from June 1999         Back scales:          Constants, Sh1, Sh2, Th, A    B, T1&T1         use of color on the scales, and using a folded scale at sqrt         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       Cr         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         ariations of gauge marks may exist).       Cr
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DF Discussed at K&E for including on the KEF 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front scales: None on Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front scalescales: None on	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, CI, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, CI, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is sales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^0$ are on C - AI Group) VECTORLOG No. 99-7102	5) 1962 nt color cases SRT. , but not product ne cursor, greater degrees. A & B; and C1 a degrees.	Back scales:          Sh1, Sh2, Th, A    B, T&T, SRT, S&S           Cr       Cr         red)       Information furnished by Joe Maskin from June 1999         Back scales:          Constants, Sh1, Sh2, Th, A    B, T1&T1         use of color on the scales, and using a folded scale at sqrt         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       Cr         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         ariations of gauge marks may exist).       Cr         Same as No. 99-7102 with slight variations of size of m
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San 71bLUTZ (JAPAN / USA)	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, CI, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, CI, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is sales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^0$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B	5) 1962 nt color cases SRT. , but not product ne cursor, greater degrees. A & B; and C1 a degrees.	Back scales:          Sh1, Sh2, Th, A    B, T&T, SRT, S&S           Cr       Cr         red)       Information furnished by Joe Maskin from June 1999         Back scales:          Constants, Sh1, Sh2, Th, A    B, T1&T1         use of color on the scales, and using a folded scale at sqrt         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       Cr         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         ariations of gauge marks may exist).       Cr         Same as No. 99-7102 with slight variations of size of m       25 cm.; Plastic face on laminated wood ; Cursor is not
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DF Discussed at K&E for including on the KEF 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, CI, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, CI, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is sales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^0$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B	5) 1962 nt color cases SRT. , but not product ne cursor, greater degrees. A & B; and C1 a degrees.	Back scales:          Sh1, Sh2, Th, A    B, T&T, SRT, S&S           Cr       Cr         red)       Information furnished by Joe Maskin from June 1999         Back scales:          Constants, Sh1, Sh2, Th, A    B, T1&T1         use of color on the scales, and using a folded scale at sqrt         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       Cr         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         ariations of gauge marks may exist).       Cr         Same as No. 99-7102 with slight variations of size of m       25 cm.; Plastic face on laminated wood ; Cursor is not
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San 71bLUTZ (JAPAN / USA) Front scales:    Sh1, Sh2, Th, A    B, T&T	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, CI, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, CI, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is sales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^0$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B	5) 1962 nt color cases SRT. , but not product ne cursor, greater degrees. A & B; and C1 a degrees.	Back scales:          Sh1, Sh2, Th, A    B, T&T, SRT, S&S           Cr       Cr         ced)       Information furnished by Joe Maskin from June 1999         Back scales:          Constants, Sh1, Sh2, Th, A    B, T1&T1         use of color on the scales, and using a folded scale at sqrt         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       Cr         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         ariations of gauge marks may exist).       Cr         Same as No. 99-7102 with slight variations of size of m       25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          LL1, LL2, LL3, DF    CF, CIF, L, CI, C
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San 71bLUTZ (JAPAN / USA) Front scales:    Sh1, Sh2, Th, A    B, T&T	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, CI, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, CI, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S $\theta$ , C    D, LL03 LL02, Ll01    Note: Sr is radians; S $\theta$ is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S $\theta$ , C    D, LL03 LL02, Ll01    Note: Sr is radians; S $\theta$ is sales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^0$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B ; ST&ST, S&S, C    D, D, P, K	5) 1962 nt color cases SRT. , but not product ne cursor, greater degrees. A & B; and C1 a degrees.	Back scales:          Sh1, Sh2, Th, A    B, T&T, SRT, S&S         C       C         Sed)       Information furnished by Joe Maskin from June 1999         Back scales:          Constants, Sh1, Sh2, Th, A    B, T1&T1         use of color on the scales, and using a folded scale at sqrt         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         ariations of gauge marks may exist).       C         Same as No. 99-7102 with slight variations of size of n       25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          LL1, LL2, LL3, DF    CF, CIF, L, CI, C
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sca 71aLAFAYETTE (USA / JAPAN San 71bLUTZ (JAPAN / USA) Front scales:    Sh1, Sh2, Th, A    B, T&T Gauge Marks on scales: π is on front C, D	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, C1, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, Cl, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is sales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^0$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B C; ST&ST, S&S, C    D, DI, P, K    D, CF, and DF; C and $\rho^\circ$ are on C and D front. No. 157	5) 1962 nt color cases SRT. , but not produce the cursor, greater degrees. A & B; and C1 a degrees. C and D. (Other v	Back scales:          Sh1, Sh2, Th, A    B, T&T, SRT, S&S         C       C         red)       Information furnished by Joe Maskin from June 1999         Back scales:          Constants, Sh1, Sh2, Th, A    B, T1&T         use of color on the scales, and using a folded scale at sqrt         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         ariations of gauge marks may exist).       C         Same as No. 99-7102 with slight variations of size of m       25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          L11, LL2, LL3, DF    CF, CIF, L, CI, C         C       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          L11, LL2, LL3, DF    CF, CIF, L, CI, C
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San 71bLUTZ (JAPAN / USA) Front scales:    Sh1, Sh2, Th, A    B, T&T Gauge Marks on scales: π is on front C, D 72MICRONTA (JAPAN) Front scales:    Sr, Sθ, P', P    Q, CF, CI, C	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, C1, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, Cl, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is sales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^0$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B C; ST&ST, S&S, C    D, DI, P, K    D, CF, and DF; C and $\rho^\circ$ are on C and D front. No. 157	5) 1962 nt color cases SRT. , but not produce the cursor, greater degrees. A & B; and C1 a degrees. C and D. (Other v. degrees.	Back scales:          Sh1, Sh2, Th, A    B, T&T, SRT, S&S         C:       C:         ced)       Information furnished by Joe Maskin from June 1999         Back scales:          Constants, Sh1, Sh2, Th, A    B, T1&T         use of color on the scales, and using a folded scale at sqrt         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       C:         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         ariations of gauge marks may exist).       C:         Same as No. 99-7102 with slight variations of size of n       25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          LL1, LL2, LL3, DF    CF, CIF, L, CI, C         C:       C:         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San 71bLUTZ (JAPAN / USA) Front scales:    Sh1, Sh2, Th, A    B, T&T Gauge Marks on scales: π is on front C, D 72MICRONTA (JAPAN) Front scales:    Sr, Sθ, P', P    Q, CF, CI, C	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, Cl, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, Cl, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is iales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^{\circ}$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B C; ST&ST, S&S, C    D, DI, P, K    D, CF, and DF; C and $\rho^{\circ}$ are on C and D front. No. 157 C    D, FLL2, LL3    Note: Sr is radians; S0 is D, CF and DF; $\pi$ /4 and M are on A and B; c and c1 are on	5) 1962 nt color cases SRT. , but not produce the cursor, greater degrees. A & B; and C1 a degrees. C and D. (Other v. degrees.	Back scales:          Sh1, Sh2, Th, A    B, T&T, SRT, S&S         C       C         sedj Information furnished by Joe Maskin from June 1999         Back scales:          Constants, Sh1, Sh2, Th, A    B, T1&T         use of color on the scales, and using a folded scale at sqrt         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         ariations of gauge marks may exist).       C         Same as No. 99-7102 with slight variations of size of m       25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          L1, LL2, LL3, DF    CF, CIF, L, CI, C         C       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          L1, LL2, LL3, DF    CF, CIF, L, CI, C         C       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2         L12 and LL3       C         25 cm.; Plastic face on laminated wood ; Cursor is not
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sca 71aLAFAYETTE (USA / JAPAN San 71bLUTZ (JAPAN / USA) Front scales:    Sh1, Sh2, Th, A    B, T&T Gauge Marks on scales: π is on front C, D 72MICRONTA (JAPAN) Front scales:    Sr, S0, P', P    Q, CF, CI, C Gauge Marks on scales: π is on A, B, C, E 73MICRONTA (JAPAN San - AI G Front scales:    Sr, S0, & S0, P', P    Q, CF	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, CI, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, CI, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is ales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^{\circ}$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B C; ST&ST, S&S, C    D, DI, P, K    D, CF, and DF; C and $\rho^{\circ}$ are on C and D front. No. 157 C    D, DF, LL2, LL3    Note: Sr is radians; S0 is 3, CF and DF; $\pi/4$ and M are on A and B; c and c1 are on FOUL FOUL ST is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is C, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is	<ul> <li>5) 1962</li> <li>nt color cases</li> <li>SRT.</li> <li>, but not production</li> <li>ne cursor, greater</li> <li>degrees.</li> <li>A &amp; B; and C1 a</li> <li>degrees.</li> <li>and D. (Other vertice)</li> <li>degrees.</li> <li>C and D; e is on</li> </ul>	Back scales:          Sh1, Sh2, Th, A    B, T&T, SRT, S&S         C       C         sedi Information furnished by Joe Maskin from June 1999         Back scales:          Constants, Sh1, Sh2, Th, A    B, T1&T         use of color on the scales, and using a folded scale at sqrt         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         ariations of gauge marks may exist).       C         Same as No. 99-7102 with slight variations of size of n       25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          LL1, LL2, LL3, DF    CF, CIF, L, CI, C         C       25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2         LL2 and LL3       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:          Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San 71bLUTZ (JAPAN / USA) Front scales:    Sn1, Sh2, Th, A    B, T&T Gauge Marks on scales: π is on front C, D 72MICRONTA (JAPAN) Front scales:    Sr, S0, P', P    Q, CF, CI, CC Gauge Marks on scales: π is on A, B, C, IL 73MICRONTA (JAPAN San - AI G Front scales:    Sr, S0 & S0, P', P    Q, CF Gauge Marks on scales: π is on A, B, C, IL	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, C1, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale <b>KELON (This 10 in. Rule was designed</b> F    CF, CIF, L, Cl, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th <b>- AI Group) VECTORLOG No. F - 686</b> S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on <b>- AI Group) VECTORLOG No. 99-7102</b> S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is ales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^0$ are on C <b>- AI Group) VECTORLOG No. 99-7102</b> No. 300 B S, ST&ST, S&S, C    D, DI, P, K    D, CF, and DF; C and $\rho^\circ$ are on C and D front. No. 157 C    D, F, LL2, LL3    Note: Sr is radians; S0 is is c, Cl, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is is c, C, C, Cl, D, D, L, L, L3    Note: Sr is radians; S0 is is c, C, C, No. 1157 Electric Vector S, C, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is ind D; M is on A and B; C and C1 are on C and D.	<ul> <li>5) 1962</li> <li>nt color cases</li> <li>sRT.</li> <li>, but not production</li> <li>e cursor, greater</li> <li>degrees.</li> <li>degrees.</li> <li>degrees.</li> <li>c and D; e is on</li> <li>degrees.</li> </ul>	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S         C         Sed) Information furnished by Joe Maskin from June 1999         Back scales:    Constants, Sh1, Sh2, Th, A    B, T1&T         use of color on the scales, and using a folded scale at sqrt         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         ariations of gauge marks may exist).       C         Same as No. 99-7102 with slight variations of size of n         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:    LL1, LL2, LL3, DF    CF, CIF, L, CI, C         C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tri         LL2 and LL3       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tri         LL2 and LL3       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tri         LL2 and LL3       C         25 cm.; Plastic face on laminated wood ; Cursor is not </td
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San 71bLUTZ ( JAPAN / USA) Front scales:    Sn1, Sh2, Th, A    B, T&T Gauge Marks on scales: π is on front C, D 72MICRONTA ( JAPAN Front scales:    Sr, S0, P', P    Q, CF, CI, C Gauge Marks on scales: π is on A, B, C, I 73MICRONTA ( JAPAN San - AI G Front scales:    Sr, S0 & S0, P', P    Q, CF Gauge Marks on scales: π is on A, B, C, a	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, C1, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale <b>KELON (This 10 in. Rule was designed</b> F    CF, CIF, L, Cl, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th <b>- AI Group) VECTORLOG No. F - 686</b> S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on <b>- AI Group) VECTORLOG No. 99-7102</b> S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is ales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^0$ are on C <b>- AI Group) VECTORLOG No. 99-7102</b> No. 300 B 5, ST&ST, S&S, C    D, DI, P, K    D, CF, and DF; C and $\rho^\circ$ are on C and D front. No. 157 C    D, F, LL2, LL3    Note: Sr is radians; S0 is is c, C    D, F, LL2, LL3    Note: Sr is radians; S0 is D, CF and DF; Ta/4 and M are on A and B; c and c1 are on FOUP) No. 1157 Electric Vector 5, Cl, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is ind D; M is on A and B; C and C1 are on C and D. le; HP(*) is at right on vertical line over A & B scales; $\pi/4$	<ul> <li>5) 1962</li> <li>nt color cases</li> <li>sRT.</li> <li>, but not production</li> <li>e cursor, greater</li> <li>degrees.</li> <li>degrees.</li> <li>degrees.</li> <li>c and D; e is on</li> <li>degrees.</li> </ul>	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S         C         Sed) Information furnished by Joe Maskin from June 1999         Back scales:    Constants, Sh1, Sh2, Th, A    B, T1&T         use of color on the scales, and using a folded scale at sqrt         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         und $\rho^o$ on C&D)       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D         ariations of gauge marks may exist).       C         Same as No. 99-7102 with slight variations of size of n         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:    LL1, LL2, LL3, DF    CF, CIF, L, CI, C         C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tri         LL2 and LL3       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tri         LL2 and LL3       C         25 cm.; Plastic face on laminated wood ; Cursor is not         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tri         LL2 and LL3       C         25 cm.; Plastic face on laminated wood ; Cursor is not </td
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San Front scales:    Sr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San 71bLUTZ (JAPAN / USA) Front scales:    Sn1, Sh2, Th, A    B, T&T Gauge Marks on scales: π is on front C, D 72MICRONTA (JAPAN) Front scales:    Sr, S0, P', P    Q, CF, CI, CC Gauge Marks on scales: π is on A, B, C, I 73MICRONTA (JAPAN San - AI G Front scales:    Sr, S0, S0, P', P    Q, CF Gauge Marks on scales: π is on A, B, C, a Cursor Back: has marks; KW at top middl 74aNIKKEI (JAPAN Nippon Slide Ru	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, C1, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, Cl, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is ales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^0$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B S, ST&ST, S&S, C    D, DI, P, K    D, CF, and DF; C and $\rho^\circ$ are on C and D front. No. 157 C    D, F, LL2, LL3    Note: Sr is radians; S0 is is c, Cl, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is ind D; M is on A and B; C and C1 are on C and D. le; HP(*) is at right on vertical line over A & B scales; $\pi$ /4 ule Co.) NIKKEI 520 Duplex	<ul> <li>5) 1962</li> <li>nt color cases</li> <li>sRT.</li> <li>, but not production</li> <li>e cursor, greater</li> <li>degrees.</li> <li>degrees.</li> <li>degrees.</li> <li>c and D; e is on</li> <li>degrees.</li> </ul>	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S C ced) Information furnished by Joe Maskin from June 1999 Back scales:    Constants, Sh1, Sh2, Th, A    B, T1&T1 use of color on the scales, and using a folded scale at sqrt 25 cm; Plastic face on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D und $\rho^{o}$ on C&D) C 25 cm; Plastic face on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D ariations of gauge marks may exist). Same as No. 99-7102 with slight variations of size of m 25 cm; Plastic face on laminated wood ; Cursor is not Back scales:    LL1, LL2, LL3, DF    CF, CIF, L, CI, C C 25 cm; Plastic face on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 LL2 and LL3 C c ne on left over the A & B scales, and √4/π on the right over
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San Front scales:    Sh1, Sh2, Th, A    B, T&T Gauge Marks on scales: π is on front C, D 72MICRONTA (JAPAN) Front scales:    Sr, S0, P', P    Q, CF, CI, C Gauge Marks on scales: π is on A, B, C, E 73MICRONTA (JAPAN San - AI G Front scales:    Sr, S0, S0, P', P    Q, CF Gauge Marks on scales: π is on A, B, C, a Cursor Back: has marks; KW at top middl 74aNIKKEI (JAPAN Nippon Slide Ru Front scales:    L, K, DF    CF, CIF, CI, C	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, C1, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, CI, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is ales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^{\circ}$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B ; ST&ST, S&S, C    D, DI, P, K    D, CF, and DF; C and $\rho^{\circ}$ are on C and D front. No. 157 C    D, DF, LL2, LL3    Note: Sr is radians; S0 is ind D; $\pi$ /4 and M are on A and B; c and c1 are on roup) No. 1157 Electric Vector ; C1, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is ind D; $\pi$ /4 and M are on C and D. le; HP(*) is at right on vertical line over A & B scales; $\pi$ /4 ule Co.) NIKKEI 520 Duplex D, X, $\theta$    Note: X is radians; $\theta$ degrees	<ul> <li>5) 1962 nt color cases s RT. , but not product te cursor, greater degrees. A &amp; B; and C1 a degrees. degrees. C and D. (Other v. degrees. C and D; e is on degrees. is at a vertical li</li></ul>	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S   Critical Information furnished by Joe Maskin from June 1999 Back scales:    Constants, Sh1, Sh2, Th, A    B, T1&T1 use of color on the scales, and using a folded scale at sqrt 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D und $\rho^{o}$ on C&D) Critical Care on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D ariations of gauge marks may exist). Same as No. 99-7102 with slight variations of size of m 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    LL1, LL2, LL3, DF    CF, CIF, L, CI, C Critical Care on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tc2 LL2 and LL3 Critical Care on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 Critical Care on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 LL2 and LL3 Critical Care on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 Critical Care on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 Critical Care on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 Critical Care on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 Critical Care on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 Critical Care on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 Critical Care on laminated wood ; Cursor is not Critical Care on laminated wood ; Cursor is not Care on left over th
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San 71bLUTZ ( JAPAN / USA) Front scales:    Sn1, Sh2, Th, A    B, T&T Gauge Marks on scales: π is on front C, D 72MICRONTA (JAPAN) Front scales:    Sr, S0, P', P    Q, CF, CI, C Gauge Marks on scales: π is on A, B, C, E 73MICRONTA ( JAPAN San - AI G Front scales:    Sr, S0, S0, P', P    Q, CF Gauge Marks on scales: π is on A, B, C, a Cursor Back: has marks; KW at top middl 74aNIKKEI (JAPAN Nippon Slide Rt Front scales:    L, K, DF    CF, CIF, CI, C    Do not have a picture or manual for this slice	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, C1, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, Cl, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is ales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^0$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B S, ST&ST, S&S, C    D, DI, P, K    D, CF, and DF; C and $\rho^{\circ}$ are on C and D front. No. 157 C    D, DF, LL2, LL3    Note: Sr is radians; S0 is ind D; $\pi$ /4 and M are on A and B; c and c1 are on roup) No. 1157 Electric Vector ; C1, C    D, F, LL2, LL3    Note: Sr is radians; S0 is ind D; M is on A and B; C and C1 are on C and D. le ; HP(*) is at right on vertical line over A & B scales; $\pi$ /4 ule Co.) NIKKEI 520 Duplex D, X, $\theta$    Note: X is radians; $\theta$ degrees de rule. Hopp does not list it. Need complete information w	<ul> <li>5) 1962 nt color cases s RT. , but not product te cursor, greater degrees. A &amp; B; and C1 a degrees. degrees. C and D. (Other v. degrees. C and D; e is on degrees. is at a vertical li</li></ul>	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S C ced) Information furnished by Joe Maskin from June 1999 Back scales:    Constants, Sh1, Sh2, Th, A    B, T1&T1 use of color on the scales, and using a folded scale at sqrt 25 cm; Plastic face on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D und ρ <sup>0</sup> on C&D) C 25 cm; Plastic face on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D ariations of gauge marks may exist). Same as No. 99-7102 with slight variations of size of n 25 cm; Plastic face on laminated wood ; Cursor is not Back scales:    LL1, LL2, LL3, DF    CF, CIF, L, CI, C C 25 cm; Plastic face on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 LL2 and LL3 C 25 cm; Plastic face on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 C ne on left over the A & B scales, and √4/π on the right over Back scales:    Sh1, Sh2, Th, A    B, T, S, ST, C    D, LI ils of scales, gauge marks and cursor lines.
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San 71bLUTZ (JAPAN / USA) Front scales:    Sh1, Sh2, Th, A    B, T&T Gauge Marks on scales: π is on front C, D 72MICRONTA (JAPAN) Front scales:    Sr, Sθ, P', P    Q, CF, CI, C Gauge Marks on scales: π is on A, B, C, E 73MICRONTA (JAPAN San A, B, C, E 74aNIKKEI (JAPAN Nippon Slide Ru Front scales:    L, K, DF    CF, CIF, CI, C    Do not have a picture or manual for this slio 74bPaper Slide Rule (CHINA)	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, C1, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, CI, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is sales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^{0}$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B ; ST&ST, S&S, C    D, D1, P, K    D, CF, and DF; C and $\rho^{0}$ are on C and D front. No. 157 C    D, DF, LL2, LL3    Note: Sr is radians; S0 is j, C = and DF; $\pi$ 4 and M are on A and B; c and c1 are on iroup) No. 1157 Electric Vector ; C1, C    D, DF, LL2, LL3    Note: Sr is radians; S0 is ind D; $\pi$ 4 and B; C and C1 are on C and D. le; HP(*) is at right on vertical line over A & B scales; $\pi$ /4 ule Co.) NIKKEI 520 Duplex D, X, $\theta$    Note: X is radians; $\theta$ degrees de rule. Hopp does not list it. Need complete information w No Number and unknown Name	<ul> <li>5) 1962 nt color cases sRT. , but not product te cursor, greater degrees. A &amp; B; and C1 a degrees. te and D. (Other w degrees. C and D; e is on degrees. is at a vertical li ith listing of deta</li></ul>	25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D, and $\rho^{o}$ on C&D) Cu 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D, ariations of gauge marks may exist). Cu Same as No. 99-7102 with slight variations of size of m 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    LL1, LL2, LL3, DF    CF, CIF, L, CI, C Cu 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 LL2 and LL3 Cu 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 LL2 and LL3 Cu 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 LL2 and LL3 Cu 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 Cu ne on left over the A & B scales, and $\sqrt{4/\pi}$ on the right over Back scales:    Sh1, Sh2, Th, A    B, T, S, ST, C    D, LL ils of scales, gauge marks and cursor lines. 25 cm.; Paper face glued to wood ; Cursor is not framed
67KEUFFEL & ESSER (USA) Front scales:    LL02, LL03, DF    CF, CIF Gauge Marks on scales: π is on A, B, CF, 68KEUFFEL & ESSER (USA) Front scales:    Ln-3, Ln-2, Ln-1, Ln-0, DI Discussed at K&E for including on the KEI 69LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 70LAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: π is on C, D, CF, 71aLAFAYETTE (USA / JAPAN San Front scales:    Tr1, Tr2, P', P    Q, ST, Sr, Gauge Marks on scales: None on Front sc 71aLAFAYETTE (USA / JAPAN San 71bLUTZ (JAPAN / USA) Front scales:    Sh1, Sh2, Th, A    B, T&T Gauge Marks on scales: π is on front C, D 72MICRONTA (JAPAN) Front scales:    Sr, Sθ, P', P    Q, CF, CI, C Gauge Marks on scales: π is on A, B, C, E 73MICRONTA (JAPAN San - AI G Front scales:    Sr, Sθ & Sθ, P', P    Q, CF, CI, C Gauge Marks on scales: π is on A, B, C, a Cursor Back: has marks; KW at top middl 74aNIKKEI (JAPAN Nippon Slide Ru Front scales:    L, K, DF    CF, CIF, CI, C    Do not have a picture or manual for this slid 74bPaper Slide Rule (CHINA) Front scales:    L, LL1, DF    CF, CIF, CI, C, I	Log Log Duplex Vector No. 68 1424 & 68 1429 (4083- 5, C1, C    D, LL3, LL2   Identical rules with differe and DF; $\pi$ /4 is on A and B scales; The mark 1° is on scale KELON (This 10 in. Rule was designed F    CF, CIF, L, Cl, C    D, Ln0, Ln1, Ln2, Ln3    LON was more gauge marks, a magnifying lens built into th - AI Group) VECTORLOG No. F - 686 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is and DF; C is on Cand D; (Variations exist with $\pi$ and M on - AI Group) VECTORLOG No. 99-7102 S0, C    D, LL03 LL02, Ll01    Note: Sr is radians; S0 is ales; On back $\pi$ is on C, D, CF, and DF; C and $\rho^0$ are on C - AI Group) VECTORLOG No. 99-7102 No. 300 B S, ST&ST, S&S, C    D, DI, P, K    D, CF, and DF; C and $\rho^{\circ}$ are on C and D front. No. 157 E    D, DF, LL2, LL3    Note: Sr is radians; S0 is ind D; $\pi$ /4 and M are on A and B; c and c1 are on roup) No. 1157 Electric Vector ; C1, C    D, F, LL2, LL3    Note: Sr is radians; S0 is ind D; M is on A and B; C and C1 are on C and D. le ; HP(*) is at right on vertical line over A & B scales; $\pi$ /4 ule Co.) NIKKEI 520 Duplex D, X, $\theta$    Note: X is radians; $\theta$ degrees de rule. Hopp does not list it. Need complete information w	<ul> <li>5) 1962</li> <li>nt color cases</li> <li>sRT.</li> <li>, but not produce</li> <li>e cursor, greater</li> <li>degrees.</li> <li>degrees.</li> <li>e and D. (Other v.)</li> <li>degrees.</li> <li>c and D; e is on</li> <li>degrees.</li> <li>is at a vertical li</li> <li>ith listing of deta</li> </ul>	Back scales:    Sh1, Sh2, Th, A    B, T&T, SRT, S&S   Cu ced) Information furnished by Joe Maskin from June 1999 Back scales:    Constants, Sh1, Sh2, Th, A    B, T1&T1 use of color on the scales, and using a folded scale at sqrt 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D, und $\rho^{o}$ on C&D) Cu 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh1, Sh2, DF, A    B, CF, Th, CI, C    D, ariations of gauge marks may exist). Same as No. 99-7102 with slight variations of size of m 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    LL1, LL2, LL3, DF    CF, CIF, L, CI, C Cu 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 LL2 and LL3 Cu 25 cm.; Plastic face on laminated wood ; Cursor is not Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 LL2 and LL3 Cu pack scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2 Cu ne on left over the A & B scales, and $\sqrt{4/\pi}$ on the right ove Back scales:    Sh1, Sh2, Th, A    B, T, S, ST, C    D, LL ils of scales, gauge marks and cursor lines.

	& S, C    D, DI, Th, Sh2, Sh1   I and DI; $\pi$ is shown as a 'mark on CIF; R is on C, D, CI and E mark on the front C and D and an CIF; the ST and a shows 1° m	
	mark on the front C and D, and on CIF; the ST scale shows 1° r <b>REGARDING THE PICKETT SLIDE RULES</b> .	nark, and " and a second mark '. Curs
76PICKETT & ECKEL (USA)	Model 4 Deci - Log Log Vector Hyperbolic	25 cm.; White plastic film over Magnesium alloy, Cursor
Front scales:    1/N <sub>1</sub> , 1/N <sub>2</sub> , 1/N <sub>3</sub> , 1/N <sub>4</sub> , DF    CF, Th, S		<b>Back scales:</b>   Three cubert scales ${}^{3}$ , DF   CF, T&T, ST,
Gauge Marks on scales: $\pi$ is on C, D. Also on CF and	DFon the front scales; marks 1°, " at 1.18, and ' at 1.97, are or	n ST. Curs
77PICKETT & ECKEL (USA)	Model No. 4 Vector Hyperbolic Log Log	25 cm.; White plastic film over Magnesium alloy, Cursor
<b>Front scales:</b>   Three cubert scales ${}^{3}$ , DF   CF, T&T, S		<b>Back scales:</b> $\  1/N_1, 1/N_2, 1/N_3, 1/N_4, DF/_M \  CF/_M, Th, 1 \  under a star ST.$
<b>Gauge Marks on scales:</b> π is on C, D. Also, CF, DF or 78PICKETT & ECKEL (USA)	n the front scales.; R is shown on front C and D; marks 1°, ' and Model 4-T Dual-Base Log Log (Vector Hyperbolic)	d " are on ST Curs 25 cm.; White plastic film over Aluminum, Cursor is not f
(Same rules with different colors) <b>Front scales:</b>   Three cubert scales ${}^{3}$ , DF   CF, T&T, S	Model 4-ES Dual-Base Log Log (Vector Hyperbolic)	25 cm.; Yellow plastic film over Aluminum, Cursor is not Back:    LL1&LL1, LL2&LL2, DF    CF, Th, Sh&Sh, L,
<b>Gauge Marks on scales:</b> $\pi$ is on C, D, CF,	$1, 5\alpha 3, CI, C \parallel D, DI, Two set scales \vee \parallel$	Curs
79PICKETT & ECKEL (USA) (Same rules with different colors)	Model 4-T Dual-Base Log Log Reciprocal Scale (Vector Model 4-ES Dual-Base Log Log Reciprocal Scale (Vecto	
<b>Front scales:</b>   Three cubert scales ${}^{3}$ , DF   CF, T&T, S Gauge Marks on scales: $\pi$ is on C D CF DF CF/M I		<b>Back:</b> $\parallel LL1 \& LL1$ , LL2 $\& LL2$ , DF/ <sub>M</sub> $\parallel CF/_M$ , Th, Sh $\& Sh$
80PICKETT & ECKEL (USA)	Model N4-T Vector – Type LOG LOG Dual - Base Spe	
(Same rules with different colors)	Model N4-ES Vector - Type LOG LOG Dual - Base Sp	
<b>Front:</b>   Three cubert scales ${}^{3}$ , DF    CF, CIF, T&T, ST	, S&S, CI, C    D, DI, Two sqrt scales $\sqrt{  }$	<b>Back:</b> $\parallel LL1\&LL1$ , LL2&LL2, DF/ <sub>M</sub> $\parallel CF/_M$ , Th, Sh&Sl
	, <u>DF, CF/<sub>M</sub>, DF/<sub>M</sub>, CI, DI, and CIF; e is on C and D; and mark</u>	
81PICKETT & ECKEL (USA) (Pocket version, same ruleswith different colors)	Model N4p-T Vector – Type LOG LOG Dual - Base Sp Model N4p-ES Vector – Type LOG LOG Dual - Base S	peed Rule 12.5 cm.; Yellow film over Aluminum, Cu
<b>Front:</b>   Three cubert scales ${}^{3}$ , DF    CF, CIF, T&T, ST	· · · · · · ·	<b>Back:</b> $\parallel LL1\&LL1$ , LL2&LL2, DF/ <sub>M</sub> $\parallel CF/_M$ , Th, Sh&Sl
	, DF, $CF/_M$ , DF/ <sub>M</sub> , CI, DI, and CIF; e is on C and D; and mark	
82PICKETT & ECKEL (USA)	Model N16-ES ELECTRONIC LOG LOG Dual - Base	Speed Rule25 cm.; Yellow film over Aluminum, CursBack: $   \Theta \& \Theta$ , db & db, D or O, X <sub>1</sub> , Zs OR Xc    C or L.
Front scales:    SH1, SH2, TH, DF    CF, L, S&S, ST, T Back scales (continued):    Lr db & db COS O & COS	$[0, C], C \parallel D, LL3, LL2, LL1, Ln \parallel$ S Q, t'C or C' \parallel (NOTE: Both the tR' or X'c and the t'C or C' sca	
	R, $\pi/4$ , sqrt $\sqrt{0}$ of 2, and 1/sqrt $\sqrt{0}$ of 2, are on C & D scales; e is o	
83PICKETT & ECKEL (USA)	Model X-4 Vector - Type LOG LOG Dual - Base Speed	
<b>Front:</b>   Three cubert scales ${}^{3}$ , DF    CF, CIF, T&T, ST	, S& <mark>S, CI</mark> , C    D, DI, Two sqrt scales $\sqrt{  }$	Back scales: $\parallel LL1\&LL1$ , LL2&LL2, DF/ <sub>M</sub> $\parallel$ CF/ <sub>M</sub> , Th,
<b>Gauge Marks on scales:</b> $\pi$ , $\pi/4$ , and R are on C, D, CF	, DF, CF/ <sub>M</sub> , DF/ <sub>M</sub> , CI, DI, and CIF; e is on C and D; and mark	s 1°, ' and " are on ST. (Comes in plush box). Curs
84POST (USA)	Log Log Vector Model No. 1460 (Same as Hemmi 154)	
85aPOST (USA)		) 10 in.; Plastic face on laminated wood ; Cursor is fram
<b>Front scales:</b> $\ $ L, K, A $\ $ B, Cl, C $\ $ D, T, G <sub><math>\theta</math></sub> $\ $ Note		<b>Back Scales:</b> $\ \theta, R_{\theta}, P\  Q, Q', C\  LL3, LL2, LL1 (urs$
85bPRECISION SCALE (USA)[1]	<ol> <li>' and ", are on front scales C and D; π, π/4, and M are on A a Model 1751 Lo</li> </ol>	25 cm.; White f
Front scales:    K, L, DIF, DF    CF, CIF, Two sqrt scale		Back scales:    LL1, LL2, LL3, LL4, A    B, S&S, ST&S
85cPRECISION SCALE (USA)[2]	Model 1752 Lo	
Front scales:    Sh1, Sh2, Th, A    B, T&T, ST, S&S, C		25 cm.; White f
	$\mathbf{I}, \mathbf{C} \parallel \mathbf{D}, \mathbf{D}\mathbf{I}, \mathbf{K}, \ \mathbf{L} \parallel$	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two
<b>Gauge Marks on scales:</b> $\pi$ , $\pi/4$ , and R are on C, D, CF	I, C $\parallel$ D, DI, K, L $\parallel$ , DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°,	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two ' and " are on ST. Cursor is missing. Note
Gauge Marks on scales: π, π/4, and R are on C, D, CF           85dQUIFAN (CHINA)         Rose Wood Slide Rule	I, C    D, DI, K, L    , DF, CI, DI, and CIF; π & π/4 are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Groups	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two ' and " are on ST.           Cursor is missing.         Note           oup).         See Gong Si He Ying No. 37a on this list
Gauge Marks on scales: π, π/4, and R are on C, D, CF           85dQUIFAN (CHINA)         Rose Wood Slide Rule           86REISS (East Germany)         Front scales:    LL <sub>00</sub> , LL <sub>01</sub> , LL <sub>02</sub> , LL <sub>03</sub> , DF    CF, CH	I, C    D, DI, K, L    , DF, CI, DI, and CIF; π & π/4 are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Ground Duplex Model 3227 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two 'and " are on ST.           Cursor is missing.         Note           oup.         See Gong Si He Ying No. 37a on this list         See Gong Si He Ying No. 37a on this list           26625 cm.; Plastic; Cursor is not framed.         Has fixed plastic er         Back scales:    K, T1, T2, DI, A    Sh1, Sh2, Th, SZ, C    D,
Gauge Marks on scales: π, π/4, and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)         Front scales:    LL <sub>00</sub> , LL <sub>01</sub> , LL <sub>02</sub> , LL <sub>03</sub> , DF    CF, CII         Gauge Marks on scales: π is on A, C, D, DF, CF, CI,	I, C    D, DI, K, L            5, DF, CI, DI, and CIF; π & π/4 are on A and B; and marks 1°,         Has no Model No. (QUIFAN Instrument Industrial Grouplex Model 3227         19         F, BI, CI, C    D, LL_3, LL_2, LL_1, LL_0            DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D set	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two         'and " are on ST.       Cursor is missing.       Note         'up)       See Gong Si He Ying No. 37a on this list       See Gong Si He Ying No. 37a on this list         06625 cm.; Plastic; Cursor is not framed.       Has fixed plastic en         Back scales:    K, T1, T2, DI, A    Sh1, Sh2, Th, SZ, C    D,       Curso         cale; e is on LL2 and LL3       Curso
Gauge Marks on scales: π, π/4, and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)         Front scales:    LL <sub>00</sub> , LL <sub>01</sub> , LL <sub>02</sub> , LL <sub>03</sub> , DF    CF, CII         Gauge Marks on scales: π is on A, C, D, DF, CF, CI,         > SEE THE NOTE AT END OF THIS LISTING	I, C    D, DI, K, L            S, DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°,         Has no Model No. (QUIFAN Instrument Industrial Grouplex Model 3227         Duplex Model 3227         F, BI, CI, C    D, LL_3, LL_2, LL_1, LL_0            DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D set B REGARDING THE RELAY / RICOH SLIDE RUL	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two         'and " are on ST.       Cursor is missing.       Note         'up).       See Gong Si He Ying No. 37a on this list         '6625 cm.; Plastic; Cursor is not framed.       Has fixed plastic er         Back scales:    K, T <sub>1</sub> , T <sub>2</sub> , DI, A    Sh <sub>1</sub> , Sh <sub>2</sub> , Th, S <sub>Z</sub> , C    D,         cale; e is on LL <sub>2</sub> and LL <sub>3</sub> Cursor
Gauge Marks on scales: π, π/4, and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales:    LL <sub>00</sub> , LL <sub>01</sub> , LL <sub>02</sub> , LL <sub>03</sub> , DF    CF, CII         Gauge Marks on scales: π is on A, C, D, DF, CF, CI,       SEE THE NOTE AT END OF THIS LISTING         87RELAY (Japan San - Ai Group)       Comparison	I, C    D, DI, K, L    5, DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 5, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D so <u>B REGARDING THE RELAY / RICOH SLIDE RUL</u> No. 157	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two         'and " are on ST.       Cursor is missing.       Note         'up).       See Gong Si He Ying No. 37a on this list         '6625 cm.; Plastic; Cursor is not framed.       Has fixed plastic er         Back scales:    K, T <sub>1</sub> , T <sub>2</sub> , DI, A    Sh <sub>1</sub> , Sh <sub>2</sub> , Th, S <sub>Z</sub> , C    D,         cale; e is on LL <sub>2</sub> and LL <sub>3</sub> Curse         ES.         25 cm.; Plastic face on laminated wood ; Cursor not framed
Gauge Marks on scales: $\pi$ , $\pi/4$ , and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales: $\parallel LL_{00}, LL_{01}, LL_{02}, LL_{03}, DF \parallel CF, CH         Gauge Marks on scales: \pi is on A, C, D, DF, CF, CI, \square       SEE THE NOTE AT END OF THIS LISTING         87RELAY (Japan San - Ai Group)       Front scales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, DF, LL   $	I, C    D, DI, K, L    ; DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D se G REGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two 'and " are on ST.       Cursor is missing.       Note         oup.       See Gong Si He Ying No. 37a on this list       Yes
Gauge Marks on scales: π, π/4, and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales:    LL <sub>00</sub> , LL <sub>01</sub> , LL <sub>02</sub> , LL <sub>03</sub> , DF    CF, CH         Gauge Marks on scales: π is on A, C, D, DF, CF, CI,       SEE THE NOTE AT END OF THIS LISTINC         87RELAY (Japan San - Ai Group)       Front scales:    Sr, Sθ, P', P    Q, CF, CI, C    D, DF, LI         Gauge Marks on scales: π is on A, B, C, D, CF, and D	I, C    D, DI, K, L    , DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D se GREGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two         'and " are on ST.       Cursor is missing.       Note         oup).       See Gong Si He Ying No. 37a on this list         26625 cm.; Plastic; Cursor is not framed. Has fixed plastic er         Back scales:    K, T1, T2, DI, A    Sh1, Sh2, Th, SZ, C    D,         cale; e is on LL2 and LL3       Cursor         ES.         25 cm.; Plastic face on laminated wood ; Cursor not frame         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d         & B scales; e is on LL2 and LL3.       Cursor
Gauge Marks on scales: π, π/4, and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales:    LL <sub>00</sub> , LL <sub>01</sub> , LL <sub>02</sub> , LL <sub>03</sub> , DF    CF, CH         Gauge Marks on scales: π is on A, C, D, DF, CF, CI, 1       SEE THE NOTE AT END OF THIS LISTINC         87RELAY (Japan San - Ai Group)       Front scales:    Sr, S0, P', P    Q, CF, CI, C    D, DF, LI         Gauge Marks on scales: π is on A, B, C, D, CF, and DI         88aRELAY (Japan San - Ai Group)	I, C    D, DI, K, L    , DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D so FREGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two 'and " are on ST.       Cursor is missing.       Note         oup).       See Gong Si He Ying No. 37a on this list       10625 cm.; Plastic; Cursor is not framed. Has fixed plastic en         Back scales:    K, T1, T2, DI, A    Sh1, Sh2, Th, SZ, C    D.       Cursor is not framed. Has fixed plastic en         Back scales:    K, T1, T2, DI, A    Sh1, Sh2, Th, SZ, C    D.       Cursor is not framed. Has fixed plastic en         Back scales:    Sh2, and LL3       Cursor         ES.       25 cm.; Plastic face on laminated wood ; Cursor not frame         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d       & B scales; e is on LL2 and LL3.         Cursor       25 cm.; Plastic face on laminated wood ; Cursor not frame         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d       Cursor         25 cm.; Plastic face on laminated wood ; Cursor not frame       Cursor         25 cm.; Plastic face on laminated wood ; Cursor not frame       Cursor         25 cm.; Plastic face on laminated wood ; Cursor not frame       Cursor         25 cm.; Plastic face on laminated wood ; Cursor not frame       Cursor         25 cm.; Plastic face on laminated wood ; Cursor not frame       Cursor         25 cm.; Plastic face on laminated wood ; Cursor not frame       Cursor         25 cm.; Plastic face on laminated wood ; Cursor not frame       Cursor         2
Gauge Marks on scales: $\pi$ , $\pi/4$ , and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales: $\parallel LL_{00}, LL_{01}, LL_{02}, LL_{03}, DF \parallel CF, CH         Gauge Marks on scales: \pi is on A, C, D, DF, CF, CL, \pi       > SEE THE NOTE AT END OF THIS LISTING         87RELAY (Japan San - Ai Group)       Front scales: \parallel Sr, S0, P', P \parallel Q, CF, CI, C \parallel D, DF, LI         Gauge Marks on scales: \pi is on A, B, C, D, CF, and DI       88aRELAY (Japan San - Ai Group)         Front scales: \parallel Sh_2, Sh_1, Th, A \parallel BI, S, T, CI, C \parallel D, II   $	I, C    D, DI, K, L    , DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D se FREGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two Cursor is missing. Note         oup.       See Gong Si He Ying No. 37a on this list         See Gong Si He Ying No. 37a on this list       See Gong Si He Ying No. 37a on this list         See Gong Si He Ying No. 37a on this list       Cursor is missing.       Note         See Gong Si He Ying No. 37a on this list       Cursor is not framed. Has fixed plastic er       Back scales:    K, T <sub>1</sub> , T <sub>2</sub> , DI, A    Sh <sub>1</sub> , Sh <sub>2</sub> , Th, S <sub>Z</sub> , C    D,         Cale; e is on LL <sub>2</sub> and LL <sub>3</sub> Cursor       Cursor ES         25 cm.; Plastic face on laminated wood ; Cursor not frame       Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d         & B scales; e is on LL <sub>2</sub> and LL <sub>3</sub> .       Cursor         25 cm.; Plastic face on laminated wood ; Cursor not frame         Back Scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d         & B scales; e is on LL <sub>2</sub> and LL <sub>3</sub> .         Cursor         25 cm.; Plastic face on laminated wood ; Cursor not frame         Back Scales:    X <sub>2</sub> , X <sub>1</sub> , P <sub>2</sub> , P <sub>1</sub>    Q, Y, L, LX, I    I, L <sub>0</sub>
Gauge Marks on scales: $\pi$ , $\pi/4$ , and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales: $\parallel LL_{00}, LL_{01}, LL_{02}, LL_{03}, DF \parallel CF, CH         Gauge Marks on scales: \pi is on A, C, D, DF, CF, CL, \pi       > SEE THE NOTE AT END OF THIS LISTING         87RELAY (Japan San - Ai Group)       Front scales: \parallel Sr, S0, P', P \parallel Q, CF, CI, C \parallel D, DF, LI         Gauge Marks on scales: \pi is on A, B, C, D, CF, and DI       88aRELAY (Japan San - Ai Group)         Front scales: \parallel Sh_2, Sh_1, Th, A \parallel BI, S, T, CI, C \parallel D, II   $	I, C    D, DI, K, L    , DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D so FREGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two Cursor is missing. Note         oup.       See Gong Si He Ying No. 37a on this list         See Gong Si He Ying No. 37a on this list       See Gong Si He Ying No. 37a on this list         See Gong Si He Ying No. 37a on this list       Cursor is missing.       Note         See Gong Si He Ying No. 37a on this list       Cursor is not framed. Has fixed plastic er       Back scales:    K, T <sub>1</sub> , T <sub>2</sub> , DI, A    Sh <sub>1</sub> , Sh <sub>2</sub> , Th, S <sub>Z</sub> , C    D,         Cale; e is on LL <sub>2</sub> and LL <sub>3</sub> Cursor       Cursor ES         25 cm.; Plastic face on laminated wood ; Cursor not frame       Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d         & B scales; e is on LL <sub>2</sub> and LL <sub>3</sub> .       Cursor         25 cm.; Plastic face on laminated wood ; Cursor not frame         Back Scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d         & B scales; e is on LL <sub>2</sub> and LL <sub>3</sub> .         Cursor         25 cm.; Plastic face on laminated wood ; Cursor not frame         Back Scales:    X <sub>2</sub> , X <sub>1</sub> , P <sub>2</sub> , P <sub>1</sub>    Q, Y, L, LX, I    I, L <sub>0</sub>
Gauge Marks on scales: $\pi$ , $\pi/4$ , and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales: $\parallel$ LL <sub>00</sub> , LL <sub>01</sub> , LL <sub>02</sub> , LL <sub>03</sub> , DF $\parallel$ CF, CH         Gauge Marks on scales: $\pi$ is on A, C, D, DF, CF, CI, C         SEE THE NOTE AT END OF THIS LISTINC         87RELAY (Japan San - Ai Group)         Front scales: $\parallel$ Sr, S0, P', P $\parallel$ Q, CF, CI, C $\parallel$ D, DF, LI         Gauge Marks on scales: $\pi$ is on A, B, C, D, CF, and DI         88aRELAY (Japan San - Ai Group)         Front scales: $\parallel$ Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A $\parallel$ BI, S, T, CI, C $\parallel$ D, I         Gauge Marks on scales: $\pi$ is on A, C, and D; $2\pi$ is on         88bRELAY (Japan San - Ai Group)       Front scales: $\parallel$ Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A $\parallel$ BI, S, T, CI, C $\parallel$ D, I         Gauge Marks on scales: $\pi$ is on A, C, and D; $2\pi$ is on	I, C    D, DI, K, L    , DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D so FREGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    C and D; C1 is on C and D; Marks $f, \rho', \rho''$ and $\rho^0$ are on C and Model No. De 1008 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two Cursor is missing. Note         oup.       See Gong Si He Ying No. 37a on this list         See Gong Si He Ying No. 37a on this list       See Gong Si He Ying No. 37a on this list         6625 cm.; Plastic; Cursor is not framed. Has fixed plastic er       Back scales:    K, T <sub>1</sub> , T <sub>2</sub> , DI, A    Sh <sub>1</sub> , Sh <sub>2</sub> , Th, S <sub>Z</sub> , C    D,         cale; e is on LL <sub>2</sub> and LL <sub>3</sub> Cursor         ES.       25 cm.; Plastic face on laminated wood ; Cursor not frame         Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       & B scales; e is on LL <sub>2</sub> and LL <sub>3</sub> .         25 cm.; Plastic face on laminated wood ; Cursor not frame       Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d         Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       Curso         Similar face on laminated wood ; Cursor not frame       Back Scales:    X <sub>2</sub> , X <sub>1</sub> , P <sub>2</sub> , P <sub>1</sub>    Q, Y, L, LX, I    I, Lθ <sub>1</sub> ID; $\pi/2$ is on Y; e is on LL2 and LL3.       Curso         Similar to No. 158 (see 1957 Catalog)       Back Scales:    X <sub>2</sub> , X <sub>1</sub> , P <sub>2</sub> , P <sub>1</sub>    Q, Y, L, LX, I    I, Lθ <sub>1</sub>
Gauge Marks on scales: $\pi$ , $\pi/4$ , and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales: $\parallel$ LL <sub>00</sub> , LL <sub>01</sub> , LL <sub>02</sub> , LL <sub>03</sub> , DF $\parallel$ CF, CH         Gauge Marks on scales: $\pi$ is on A, C, D, DF, CF, CI,       SEE THE NOTE AT END OF THIS LISTINC         87RELAY (Japan San - Ai Group)       Front scales: $\parallel$ Sr, S0, P', P $\parallel$ Q, CF, CI, C $\parallel$ D, DF, LI         Gauge Marks on scales: $\pi$ is on A, B, C, D, CF, and DI       88aRELAY (Japan San - Ai Group)         Front scales: $\parallel$ Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A $\parallel$ BI, S, T, CI, C $\parallel$ D, I       Gauge Marks on scales: $\pi$ is on A, C, and D; $2\pi$ is on         88bRELAY (Japan San - Ai Group)       Front scales: $\parallel$ Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A $\parallel$ BI, S, T, CI, C $\parallel$ D, I         Gauge Marks on scales: $\pi$ is on A, C, and D; $2\pi$ is on       88bRELAY (Japan San - Ai Group)         Front scales: $\parallel$ Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A $\parallel$ BI, S, T, CI, C $\parallel$ D, I       Do not have a picture or manual for this slide rule. Hop	I, C    D, DI, K, L    , DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D so FREGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    C and D; C1 is on C and D; Marks $f, \rho', \rho''$ and $\rho^0$ are on C and Model No. De 1008 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    p does not list it. Need complete information: listing of details of	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two Cursor is missing. Note         oup.       See Gong Si He Ying No. 37a on this list         See Gong Si He Ying No. 37a on this list       See Gong Si He Ying No. 37a on this list         6625 cm.; Plastic; Cursor is not framed. Has fixed plastic er       Back scales:    K, T <sub>1</sub> , T <sub>2</sub> , DI, A    Sh <sub>1</sub> , Sh <sub>2</sub> , Th, S <sub>Z</sub> , C    D,         cale; e is on LL <sub>2</sub> and LL <sub>3</sub> Cursor         ES.       25 cm.; Plastic face on laminated wood ; Cursor not frame         Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       & B         Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       Curso         Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       Curso         Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       Curso         Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       Curso         Back Scales:    X <sub>2</sub> , X <sub>1</sub> , P <sub>2</sub> , P <sub>1</sub>    Q, Y, L, LX, I    I, Lθ <sub>1</sub> D         ID; $\pi/2$ is on Y; e is on LL2 and LL3.       Curso         Similar to No. 158 (see 1957 Catalog)       Back Scales:    X <sub>2</sub> , X <sub>1</sub> , P <sub>2</sub> , P <sub>1</sub>    Q, Y, L, LX, I    I, Lθ <sub>1</sub> f dimensions, physical appearance, scales, gauge marks, cursor
Gauge Marks on scales: $\pi$ , $\pi/4$ , and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales: $\  LL_{00}, LL_{01}, LL_{02}, LL_{03}, DF \  CF, CH         Front scales: \  LL_{00}, LL_{01}, LL_{02}, LL_{03}, DF \  CF, CI, C \          SEE THE NOTE AT END OF THIS LISTINC         87RELAY (Japan San - Ai Group)         Front scales: \  Sr, S0, P', P \  Q, CF, CI, C \  D, DF, LI Gauge Marks on scales: \pi is on A, B, C, D, CF, and DI         88aRELAY (Japan San - Ai Group)       Front scales: \  Sh_2, Sh_1, Th, A \  BI, S, T, CI, C \  D, I Gauge Marks on scales: \pi is on A, C, and D; 2\pi is on         88bRELAY (Japan San - Ai Group)       Front scales: \  Sh_2, Sh_1, Th, A \  BI, S, T, CI, C \  D, I D on thave a picture or manual for this slide rule. Hop         89RICOH (Japan San - Ai Group)       89RICOH (Japan San - Ai Group)   $	I, C    D, DI, K, L    ; DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D ss F REGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    C and D; C1 is on C and D; Marks <i>f</i> , p', p" and p <sup>0</sup> are on C and Model No. De 1008 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    p does not list it. Need complete information: listing of details o No. 157	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two Cursor is missing. Note         Year       See Gong Si He Ying No. 37a on this list         Year       See Gong Si He Ying No. 37a on this list         Year       See Gong Si He Ying No. 37a on this list         Year       See Gong Si He Ying No. 37a on this list         Year       See Gong Si He Ying No. 37a on this list         Year       Back scales:    K, T <sub>1</sub> , T <sub>2</sub> , DI, A    Sh <sub>1</sub> , Sh <sub>2</sub> , Th, S <sub>Z</sub> , C    D,         Cale; e is on LL <sub>2</sub> and LL <sub>3</sub> Cursor         ES.       Cursor son of frame         Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       & B scales; e is on LL <sub>2</sub> and LL <sub>3</sub> .       Cursor         25 cm.; Plastic face on laminated wood; Cursor not frame       Back Scales:    X <sub>2</sub> , X <sub>1</sub> , P <sub>2</sub> , P <sub>1</sub>    Q, Y, L, LX, I    I, Lθ <sub>1</sub> 1D; π/2 is on Y; e is on LL2 and LL3.       Cursor         Similar to No. 158 (see 1957 Catalog)       Back Scales:    X <sub>2</sub> , X <sub>1</sub> , P <sub>2</sub> , P <sub>1</sub>    Q, Y, L, LX, I    I, Lθ <sub>1</sub> f dimensions, physical appearance, scales, gauge marks, cursor       25 cm.; Plastic face on laminated wood; Cursor not frame
Gauge Marks on scales: $\pi$ , $\pi/4$ , and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales: $\parallel LL_{00}, LL_{01}, LL_{02}, LL_{03}, DF \parallel CF, CH         Front scales: \parallel LL_{00}, LL_{01}, LL_{02}, LL_{03}, DF \parallel CF, CH         Gauge Marks on scales: \pi is on A, C, D, DF, CF, CI, C         SEE THE NOTE AT END OF THIS LISTINC         87RELAY (Japan San - Ai Group)         Front scales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, DF, LI         Gauge Marks on scales: \pi is on A, B, C, D, CF, and DI         88aRELAY (Japan San - Ai Group)         Front scales: \parallel Sh_2, Sh_1, Th, A \parallel BI, S, T, CI, C \parallel D, I         Gauge Marks on scales: \pi is on A, C, and D; 2\pi is on         88bRELAY (Japan San - Ai Group)       Front scales: \parallel Sh_2, Sh_1, Th, A \parallel BI, S, T, CI, C \parallel D, I       Do not have a picture or manual for this slide rule. Hop       89RICOH (Japan San - Ai Group)       Front scales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, D, DF, LI       Stales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, D, DF, LI       Stales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, D, DF, LI       Stales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, D, DF, LI       Stales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, D, DF, LI       Stales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, D, DF, LI       Stales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, D, DF, LI       Stalesthere a stalesthere a stalesthere a stalesthere a sta$	I, C    D, DI, K, L    , DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D ss G REGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    C and D; C1 is on C and D; Marks $f, p', p''$ and $p^0$ are on C and Model No. De 1008 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    p does not list it. Need complete information: listing of details o No. 157 -2, LL <sub>3</sub>	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two Cursor is missing. Note         oup.       See Gong Si He Ying No. 37a on this list         See Gong Si He Ying No. 37a on this list       Cursor is missing.         0625 cm.; Plastic; Cursor is not framed. Has fixed plastic er       Back scales:    K, T <sub>1</sub> , T <sub>2</sub> , DI, A    Sh <sub>1</sub> , Sh <sub>2</sub> , Th, S <sub>Z</sub> , C    D,         cale; e is on LL <sub>2</sub> and LL <sub>3</sub> Cursor         ES.       Cursor is not framed. Wood; Cursor not frame         Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       Cursor         Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       Cursor         Stack scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       Cursor         Stack scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       Cursor         Stack scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d       Cursor         Stack scales:    X <sub>2</sub> , X <sub>1</sub> , P <sub>2</sub> , P <sub>1</sub>    Q, Y, L, LX, I    I, Lθ <sub>1</sub> D         ID; π/2 is on Y; e is on LL2 and LL3.       Cursor         Similar to No. 158 (see 1957 Catalog)       Back Scales:    X <sub>2</sub> , X <sub>1</sub> , P <sub>2</sub> , P <sub>1</sub>    Q, Y, L, LX, I    I, Lθ <sub>1</sub> f dimensions, physical appearance, scales, gauge marks, cursor       25 cm.; Plastic face on laminated wood; Cursor not frame         Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d         Open (1)       Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, d
Gauge Marks on scales: π, π/4, and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales: $   LL_{00}, LL_{01}, LL_{02}, LL_{03}, DF    CF, CII         Gauge Marks on scales: π is on A, C, D, DF, CF, CI,         SEE THE NOTE AT END OF THIS LISTINC         87RELAY (Japan San - Ai Group)         Front scales:    Sr, S0, P', P    Q, CF, CI, C    D, DF, LI         Gauge Marks on scales: π is on A, B, C, D, CF, and DI         88aRELAY (Japan San - Ai Group)         Front scales:    Sh_2, Sh_1, Th, A    BI, S, T, CI, C    D, I         Gauge Marks on scales: π is on A, C, and D; 2π is on         88bRELAY (Japan San - Ai Group)         Front scales:    Sh_2, Sh_1, Th, A    BI, S, T, CI, C    D, I         Do not have a picture or manual for this slide rule. Hop         89RICOH (Japan San - Ai Group)         Front scales:    Sr, S0, P', P    Q, CF, CI, C    D, DF, LI         Gauge Marks on scales: π is on A, B, C, D, CF, and DI   $	I, C    D, DI, K, L    ; DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D sc F REGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    C and D; C1 is on C and D; Marks <i>f</i> , p', p" and p <sup>0</sup> are on C and Model No. De 1008 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    p does not list it. Need complete information: listing of details o No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two Vand " are on ST.       Cursor is missing.       Note         oup).       See Gong Si He Ying No. 37a on this list       Note         biological conditions       See Gong Si He Ying No. 37a on this list       Note         biological conditions       See Gong Si He Ying No. 37a on this list       Note         biological conditions       See Gong Si He Ying No. 37a on this list       Note         biological conditions       See Gong Si He Ying No. 37a on this list       Note         biological conditions       Plastic; Cursor is not framed. Has fixed plastic or       Back scales:    K, T1, T2, DI, A    Sh1, Sh2, Th, SZ, C    D, cale; e is on LL2 and LL3       Cursor         ES.       25 cm.; Plastic face on laminated wood; Cursor not frame       Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d         & B scales; e is on LL2 and LL3.       Cursor       See Gong Si He Ying No, Y, L, X, I    I, Lθ1         D; π/2 is on Y; e is on LL2 and LL3.       Cursor       Similar to No. 158 (see 1957 Catalog)         Back Scales:    X2, X1, P2, P1    Q, Y, L, LX, I    I, Lθ1       f dimensions, physical appearance, scales, gauge marks, cursor         25 cm.; Plastic face on laminated wood; Cursor not frame       Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d
Gauge Marks on scales: $\pi$ , $\pi/4$ , and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales: $\parallel LL_{00}, LL_{01}, LL_{02}, LL_{03}, DF \parallel CF, CH         Front scales: \parallel LL_{00}, LL_{01}, LL_{02}, LL_{03}, DF \parallel CF, CH         Gauge Marks on scales: \pi is on A, C, D, DF, CF, CI,         SEE THE NOTE AT END OF THIS LISTINC         87RELAY (Japan San - Ai Group)         Front scales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, DF, LI         Gauge Marks on scales: \pi is on A, B, C, D, CF, and DI         88aRELAY (Japan San - Ai Group)         Front scales: \parallel Sh_2, Sh_1, Th, A \parallel BI, S, T, CI, C \parallel D, IF         Gauge Marks on scales: \pi is on A, C, and D; 2\pi is on         88bRELAY (Japan San - Ai Group)       Front scales: \parallel Sh_2, Sh_1, Th, A \parallel BI, S, T, CI, C \parallel D, IF       Do not have a picture or manual for this slide rule. Hop       89RICOH (Japan San - Ai Group)       Front scales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, DF, LI       Gauge Marks on scales: \pi is on A, B, C, D, CF, and DI       90RICOH (Japan San - Ai Group)       Front scales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, DF, LI       Gauge Marks on scales: \pi is on A, B, C, D, CF, and DI       90RICOH (Japan San - Ai Group)       Front scales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, D, DF, LI       Gauge Marks on scales: \pi is on A, B, C, D, CF, and DI       90RICOH (Japan San - Ai Group)$	I, C    D, DI, K, L    ; DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D ss G REGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    C and D; C1 is on C and D; Marks <i>f</i> , p', p" and p <sup>0</sup> are on C and Model No. De 1008 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    p does not list it. Need complete information: listing of details o No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 157	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two 'and " are on ST.       Cursor is missing.       Note         oup).       See Gong Si He Ying No. 37a on this list       Note         bits       See Gong Si He Ying No. 37a on this list       Cursor is missing.       Note         bits       See Gong Si He Ying No. 37a on this list       Curso       See Gong Si He Ying No. 37a on this list         bits       See Gong Si He Ying No. 37a on this list       Curso       See Gong Si He Ying No. 37a on this list         bits       Back scales:    K, T1, T2, DI, A    Sh1, Sh2, Th, SZ, C    D, cale; e is on LL2 and LL3       Curso         ES.       Second Si He K, Th, C    D, Tr1, Tr2, d       Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d         25 cm.; Plastic face on laminated wood; Cursor not frame Back Scales:    X2, X1, P2, P1    Q, Y, L, LX, I    I, L91       Curso         1D; π/2 is on Y; e is on LL2 and LL3.       Curso         Similar to No. 158 (see 1957 Catalog)       Back Scales:    X2, X1, P2, P1    Q, Y, L, LX, I    I, L91         f dimensions, physical appearance, scales, gauge marks, cursor       25 cm.; Plastic face on laminated wood; Cursor not frame Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d         & B scales; e is on LL2 and LL3.       Cursor not frame Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d
Gauge Marks on scales: π, π/4, and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales:    LL <sub>00</sub> , LL <sub>01</sub> , LL <sub>02</sub> , LL <sub>03</sub> , DF    CF, CH         Gauge Marks on scales: π is on A, C, D, DF, CF, CI,       ►         SEE THE NOTE AT END OF THIS LISTINC       87RELAY (Japan San - Ai Group)         Front scales:    Sr, S9, P', P    Q, CF, CI, C    D, DF, LI       Gauge Marks on scales: π is on A, B, C, D, CF, and DI         88aRELAY (Japan San - Ai Group)       Front scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A    BI, S, T, CI, C    D, I         Gauge Marks on scales: π is on A, C, and D; 2π is on       88bRELAY (Japan San - Ai Group)         Front scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A    BI, S, T, CI, C    D, I       Do not have a picture or manual for this slide rule. Hop         89RICOH (Japan San - Ai Group)       Front scales:    Sr, S0, P', P    Q, CF, CI, C    D, DF, LI         Gauge Marks on scales: π is on A, B, C, D, CF, and DI         90RICOH (Japan San - Ai Group)         Front scales:    Sr, S0, P', P    Q, CF, CI, C    D, DF, LI         Gauge Marks on scales: π is on A, B, C, D, CF, and DI         90RICOH (Japan San - Ai Group)         Front scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A    BI, S, T, CI, C    D, DF, LI         Gauge Marks on scales: π is on A, B, C, D, CF, and DI         90RICOH (Japan San - Ai Group)         Front scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A    BI, S, T, CI	I, C    D, DI, K, L    ; DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D ss G REGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    C and D; C1 is on C and D; Marks <i>f</i> , p', p" and p <sup>0</sup> are on C and Model No. De 1008 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    p does not list it. Need complete information: listing of details o No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 157	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two vand " are on ST.       Cursor is missing.       Note         See Gong Si He Ying No. 37a on this list       Note         See Gong Si He Ying No. 37a on this list       Cursor is missing.       Note         See Gong Si He Ying No. 37a on this list       Cursor is missing.       Note         See Gong Si He Ying No. 37a on this list       Cursor is not framed. Has fixed plastic or       Back scales:    K, T1, T2, DI, A    Sh1, Sh2, Th, SZ, C    D, cale; e is on LL2 and LL3       Cursor         ES.       25 cm.; Plastic face on laminated wood; Cursor not frame Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d       & B scales; e is on LL2 and LL3.       Cursor         25 cm.; Plastic face on laminated wood; Cursor not frame Back Scales:    X2, X1, P2, P1    Q, Y, L, LX, I    I, Lθ1       Cursor       Similar to No. 158 (see 1957 Catalog)         Back Scales:    X2, X1, P2, P1    Q, Y, L, LX, I    I, Lθ1       f dimensions, physical appearance, scales, gauge marks, cursor       25 cm.; Plastic face on laminated wood; Cursor not frame Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d         Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d       48 scales; e is on LL2 and LL3.       Cursor
Gauge Marks on scales: $\pi$ , $\pi/4$ , and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales: $\parallel LL_{00}, LL_{01}, LL_{02}, LL_{03}, DF \parallel CF, CH         Front scales: \parallel LL_{00}, LL_{01}, LL_{02}, LL_{03}, DF \parallel CF, CH         Gauge Marks on scales: \pi is on A, C, D, DF, CF, CI, C         SEE THE NOTE AT END OF THIS LISTINC         87RELAY (Japan San - Ai Group)         Front scales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, DF, LI         Gauge Marks on scales: \pi is on A, B, C, D, CF, and DI         88aRELAY (Japan San - Ai Group)         Front scales: \parallel Sh_2, Sh_1, Th, A \parallel BI, S, T, CI, C \parallel D, IF         Gauge Marks on scales: \pi is on A, C, and D; 2\pi is on         88bRELAY (Japan San - Ai Group)       Front scales: \parallel Sh_2, Sh_1, Th, A \parallel BI, S, T, CI, C \parallel D, IF       Do not have a picture or manual for this slide rule. Hop       89RICOH (Japan San - Ai Group)       Front scales: \parallel Sr, S\theta, P', P \parallel Q, CF, CI, C \parallel D, DF, LI       Gauge Marks on scales: \pi is on A, B, C, D, CF, and DI       90RICOH (Japan San - Ai Group)       Front scales: \parallel Sh_2, Sh_1, Th, A \parallel BI, S, T, CI, C \parallel D, IF, LI       Gauge Marks on scales: \pi is on A, B, C, D, CF, and DI       90RICOH (Japan San - Ai Group)       Front scales: \parallel Sh_2, Sh_1, Th, A \parallel BI, S, T, CI, C \parallel D, IF, LI       Gauge Marks on scales: \pi is on A, B, C, D, CF, and DI       90RIC$	I, C    D, DI, K, L    ; DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Gro Duplex Model 3227 19 F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D ss G REGARDING THE RELAY / RICOH SLIDE RUL No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    C and D; C1 is on C and D; Marks <i>f</i> , p', p" and p <sup>0</sup> are on C and Model No. De 1008 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    p does not list it. Need complete information: listing of details o No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Two 'and " are on ST.       Cursor is missing.       Note         See Gong Si He Ying No. 37a on this list       Note         See Gong Si He Ying No. 37a on this list       Cursor is missing.       Note         See Gong Si He Ying No. 37a on this list       Cursor is missing.       Note         See Gong Si He Ying No. 37a on this list       Cursor       State         Back scales:    K, T1, T2, DI, A    Sh1, Sh2, Th, SZ, C    D,       Cursor       Cursor         Back scales:    K, T1, T2, DI, A    Sh1, Sh2, Th, SZ, C    D,       Cursor       Cursor         ES.       25 cm.; Plastic face on laminated wood; Cursor not frame       Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d         & B scales; e is on L12 and L13.       Cursor       State Scales:    X2, X1, P2, P1    Q, Y, L, LX, I    I, L01         ID; π/2 is on Y; e is on L12 and L13.       Cursor       Similar to No. 158 (see 1957 Catalog)         Back Scales:    X2, X1, P2, P1    Q, Y, L, LX, I    I, L01       f dimensions, physical appearance, scales, gauge marks, cursor         25 cm.; Plastic face on laminated wood; Cursor not frame       Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d         & Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d       & Back scales:    Sh2, Sh1, A    B, K, Th, C    D, Tr1, Tr2, d
Gauge Marks on scales: π, π/4, and R are on C, D, CF         85dQUIFAN (CHINA)       Rose Wood Slide Rule         86REISS (East Germany)       Front scales:    LL <sub>00</sub> , LL <sub>01</sub> , LL <sub>02</sub> , LL <sub>03</sub> , DF    CF, CI,         ▶ SEE THE NOTE AT END OF THIS LISTINC       87RELAY (Japan San - Ai Group)         Front scales:    Sr, S9, P', P    Q, CF, CI, C    D, DF, LI       Gauge Marks on scales: π is on A, B, C, D, CF, and DI         88aRELAY (Japan San - Ai Group)       Front scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A    BI, S, T, CI, C    D, I         Gauge Marks on scales: π is on A, B, C, D, CF, and DI       88bRELAY (Japan San - Ai Group)         Front scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A    BI, S, T, CI, C    D, I       Gauge Marks on scales: π is on A, C, and D; 2π is on         88bRELAY (Japan San - Ai Group)       Front scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A    BI, S, T, CI, C    D, I         Do not have a picture or manual for this slide rule. Hop       89RICOH (Japan San - Ai Group)         Front scales:    Sr, S0, P', P    Q, CF, CI, C    D, DF, LI       Gauge Marks on scales: π is on A, B, C, D, CF, and DI         90RICOH (Japan San - Ai Group)       Front scales:    Sr, S0, P', P    Q, CF, CI, C    D, DF, LI         Gauge Marks on scales: π is on A, B, C, D, CF, and DI       90RICOH (Japan San - Ai Group)	I, C    D, DI, K, L    (DF, CI, DI, and CIF; $\pi \& \pi/4$ are on A and B; and marks 1°, Has no Model No. (QUIFAN Instrument Industrial Ground State 10, 2000) F, BI, CI, C    D, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub> , LL <sub>0</sub>    DI, and CIF; Q <sup>9</sup> and Q <sup>0</sup> are on the front scale DF, and back D so G REGARDING THE RELAY / RICOH SLIDE RULE No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    C and D; C1 is on C and D; Marks $f, \rho', \rho''$ and $\rho^0$ are on C and Model No. De 1008 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    p does not list it. Need complete information: listing of details on No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 157 -2, LL <sub>3</sub>    F; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    p does not list it. Need complete information: listing of details of No. 158 DI, LL <sub>3</sub> , LL <sub>2</sub> , LL <sub>1</sub>    p does not list it. Need complete information: listing of details of Model No. 159	Back scales:   LL/0, LL/1, LL/2, LL3, DF    CF, CIF, Tw 'and " are on ST. Cursor is missing. Nor- bup). See Gong Si He Ying No. 37a on this list 6625 cm.; Plastic; Cursor is not framed. Has fixed plastic Back scales:    K, T <sub>1</sub> , T <sub>2</sub> , Dl, A    Sh <sub>1</sub> , Sh <sub>2</sub> , Th, S <sub>Z</sub> , C    I cale; e is on LL <sub>2</sub> and LL <sub>3</sub> Cu ES. 25 cm.; Plastic face on laminated wood ; Cursor not fram Back scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Trl, Tr2, & B scales; e is on LL <sub>2</sub> and LL <sub>3</sub> . Cu 25 cm.; Plastic face on laminated wood ; Cursor not fram Back Scales:    X <sub>2</sub> , X <sub>1</sub> , P <sub>2</sub> , P <sub>1</sub>    Q, Y, L, LX, I    I, L6 (1D; $\pi/2$ is on Y; e is on LL2 and LL3. Cu Similar to No. 158 (see 1957 Catalog) Back Scales:    X <sub>2</sub> , X <sub>1</sub> , P <sub>2</sub> , P <sub>1</sub>    Q, Y, L, LX, I    I, L6 f dimensions, physical appearance, scales, gauge marks, cur Back Scales:    Sh <sub>2</sub> , Sh <sub>1</sub> , A    B, K, Th, C    D, Tr1, Tr2, & B scales; e is on LL <sub>2</sub> and LL <sub>3</sub> . Cu

Do not have a picture or manual for this slide rule. Hopp	does not list it. Need complete	e information: listing of details of	dimensions, physical appearance, scales, gauge marks, cursol
92aRUYI (Chinese Shanghai)	Model No. 1002		25 cm.; Plastic;
Front scales:    Ln1I, Ln2I, Ln3I, DF    CF, CIF, H2, H3	8, <mark>CI</mark> , C    D, Ln3, Ln2, Ln1	CF is folded at $\sqrt{10}$	Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2
<b>Gauge Marks on scales:</b> $\pi$ is on A, B, C, D, and DF; $\pi/$	4 is on A and B; 1° and R are o	on C and D; v on K.	Cursor Front: Has KW at top middle; HP(**) is at right o
92bRUYI (Chinese Shanghai)	Model No. 1009		
92cRUYI (Chinese Shanghai)	Model No. 1015-1		25 cm.; Plastic; Cursor is not framed. Has fixed plastic end
Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,	$C \parallel D, LL3, LL2, LL1 \parallel$	CF is folded at $\sqrt{10}$	<b>Back scales:</b> $\parallel$ Sh1, Sh2, K, A $\parallel$ B, T&T, ST, S&S, C $\parallel$ D,
<b>Gauge Marks on scales:</b> $\pi$ is on A, B, C, D, and DF.			<b>Cursor Back:</b> has marks HP(**) on right, and $\pi/4$ on left c
92dRUYI (Chinese Shanghai) Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I	Model No. 1083	CE and DE are folded at a 10	25 cm.; Plastic; Cursor is framed. Adjustable metal bracket
<b>Gauge Marks on scales:</b> $\pi$ is on A, B, CF and DF; mar		CF and DF are folded at V10	Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Curse
93RUYI (Chinese Shanghai)	Model No. 6201		Seems to be the same as SIDA Model 6201
<b>0</b> /		information: listing of details of	dimensions, physical appearance, scales, gauge marks, cursor
94SCIENTIFIC INSTRUMENT COMPANY (SIC) (US	, , , , , , , , , , , , , , , , , , , ,	No. 1570	25 cm.; Plastic face on laminated wood ; Cursor not framed
Front scales:    Sr, S0&S0, P', P    Q, CF, CI, C    D, DF	· 2· 5 ·		<b>Back scales:</b> $\parallel$ Sh2, Sh1, A $\parallel$ B, K, Th, C $\parallel$ D, Tr1, Tr2, db
<b>Gauge Marks on scales:</b> $\pi$ is on A, B, C, D, CF,and DF	; M is on A and B; C and C1 a	are on C and D; $\pi/4$ is on the A &	
95SCIENTIFIC INSTRUMENT COMPANY (SIC) (US		0	25 cm.; Plastic face on laminated wood ; Cursor not framed
Front scales: $\parallel$ Sh <sub>2</sub> , Sh <sub>1</sub> , Th, A $\parallel$ BI, S&S, T&T, CI, C		0	<b>Back Scales:</b> $\parallel X_2, X_1, P_2, P_1 \parallel Q, Y, L, LX, I \parallel I, L\theta_1 \&$
-			D; $\pi/2$ is on Y; e is on LL2 and LL3; to the far left of the LL
			each side, and each of the ranges of the S, T, CI, LL1, LL2, a
96aSHANGHAI (China)	Model No. 1002	There is no name on this slide	
96bSHANGHAI (China)	Electricians Slide Rule No	. 1018	Source: Hopp page 218. Same as Flying Fis
97 <b>SHANGHAI (China)</b>	Model No. 5891	information: listing of details of	This has same scales as K&E 4083-3 (1955 Model) See li: dimensions, physical appearance, scales, gauge marks,curso
98SIDA (China)	Model No. 1	Source: Hopp page 218	25 cm.; Plastic, Cursor is not framed. Adjustable metal bra
<b>Front scales:</b>    L, LL1, DF    CF, CIF, CI, C    D, LL3, I		Source. httpp://page 218	Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th,
Need complete information with listing of details of scal		es.	
99SIDA (China)	Model No. 1002		25 cm.; Plastic, Cursor is not framed. Adjustable metal bra-
Front scales:    Ln1I, Ln2I, Ln3I, DF    CF, CIF, H2, H2	3, <mark>CI</mark> , C    D, Ln3, Ln2, Ln1	CF is folded at $\sqrt{10}$	<b>Back scales:</b>    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2
<b>Gauge Marks on scales:</b> $\pi$ is on A, B, C, D, and DF. M	larks 1 <sup>0</sup> and R are on back scale	es C and D; $\pi/4$ is on A and B; v	is on K. Cursor Front: no lines. Cursor Back: has
100a SIDA (China)	Model No. 1009		Same as Flying Fish 1009
100b SIDA (China)	Model No. 1012		
100b SIDA (China) Do not have a picture or manual for this slide rule. Hopp	Model No. 1012 does not list it. Need complete	e information: listing of details of	dimensions, physical appearance, scales, gauge marks,curso
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)	Model No. 1012 o does not list it. Need complete Model No. 1015		dimensions, physical appearance, scales, gauge marks, curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end
100b SIDA (China)           Do not have a picture or manual for this slide rule. Hopp           101SIDA (China)           Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,	Model No. 1012 o does not list it. Need complete Model No. 1015	: information: listing of details of CF is folded at √10	dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D,
100b SIDA (China)           Do not have a picture or manual for this slide rule. Hopp           101SIDA (China)           Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: π is on A, B, C, D, and DF.	Model No. 1012 9 does not list it. Need complete Model No. 1015 C    D, LL3, LL2, LL1		dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Curso
100b SIDA (China)           Do not have a picture or manual for this slide rule. Hopp           101SIDA (China)           Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,	Model No.         1012           0 does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1		dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D,
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: π is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: π is on A, B, C, D, and DF.         Gauge Marks on scales: π is on A, B, C, D, and DF.	Model No.         1012           0 does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1	CF is folded at $\sqrt{10}$	dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic enc Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic enc
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales: $   LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         103a SIDA (China)         103a SIDA (China)   $	Model No.         1012           o does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083	CF is folded at $\sqrt{10}$	dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed.
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales: $   LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, II         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, II   $	Model No.         1012           0 does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           JL2           Model No.         1083	CF is folded at $\sqrt{10}$ CF is folded at $\sqrt{10}$	dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th,
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales: $   LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I         Gauge Marks on scales: \pi is on A, B, CF and DF; \pi/4 $	Model No.         1012           0 does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           JL2           is on A & B; marks 1°, ' and         10°, ' and	CF is folded at $\sqrt{10}$ CF is folded at $\sqrt{10}$	dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic enc Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic enc Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Cursor
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales: $   LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I         Gauge Marks on scales: \pi is on A, B, CF and DF; \pi/4         103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I         Gauge Marks on scales: \pi is on A, B, CF and DF; \pi/4 $	Model No.         1012           o does not list it. Need complete           Model No.         1015           C    D, LL3, LL2, LL1             Model No.         1015 - 1           C    D, LL3, LL2, LL1             Model No.         1083           .L2             is on A & B; marks 1°, ' and           Model No.         5810	CF is folded at √ 10 CF is folded at √ 10 " are on ST.	dimensions, physical appearance, scales, gauge marks,cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic enc Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic enc Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Cursor 25 cm; Plastic face on wood ;Cursor is not framed; Adjusta
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales: $   LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I< Gauge Marks on scales: \pi is on A, B, CF and DF; \pi/4         103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I< Gauge Marks on scales: \pi is on A, B, CF and DF; \pi/4         103b SIDA (China)         Front scales:    LL11, LL21, LL31, DF    CF, CIF, H, CI, H, CI, H, CI, L131, DF    CF, CIF, H, CI, H, CI, H, CI, L131, DF    CF, CIF, H, CI, H, CI, H, CI, L131, DF    CF, CIF, H, CI, H, LI$	Model No.         1012           o does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           .L2           is on A & B; marks 1°, ' and         Model No.         5810           C    D, LL3, LL2, LL1           Model No.         5810         C	CF is folded at √ 10 CF is folded at √ 10 " are on ST.	dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Cursor 25 cm; Plastic face on wood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, DI,
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales: $   LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, D, LL3, I         Gauge Marks on scales: \pi is on A, B, CF and DF; \pi/4         103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, H, CI, Gauge Marks on scales: \pi is on A, B, CF and DF; \pi/4         103b SIDA (China)         Front scales:    L, LL2I, LL3I, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF; \pi/4 $	Model No.         1012           o does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           .L2           is on A & B; marks 1°, ' and         Model No.         5810           C    D, LL3, LL2, LL1           o and R are on A, B, and C.         100	CF is folded at √ 10 CF is folded at √ 10 " are on ST.	dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Cursor 25 cm; Plastic face on wood ;Cursor is not framed; Adjuste Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, DI, Cursor
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales: $   LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, CI, D, LL3, I Gauge Marks on scales: \pi is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I Gauge Marks on scales: \pi is on A, B, CF and DF; \pi/4         103b SIDA (China)         Front scales:    LL11, LL21, LL31, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF; \pi/4 $	Model No.         1012           o does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           JL2           is on A & B; marks 1°, ' and         Model No.           Model No.         5810         C    D, LL3, LL2, LL1	CF is folded at √ 10 CF is folded at √ 10 " are on ST.	dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Cursor 25 cm; Plastic face on wood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, DI,
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    LL11, LL21, LL31, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; 1''         104SIDA (China)	Model No.         1012           o does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           JL2           is on A & B; marks 1°, ' and         Model No.           Model No.         5810         C    D, LL3, LL2, LL1             ° and R are on A, B, and C.         Model No.         6171           S, CI, C    D, Ln3, Ln2, Ln1           Yes         Yes	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10	dimensions, physical appearance, scales, gauge marks,cursoi 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Curso 25 cm; Plastic face on wood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, DI, Curso 25 cm;; Plastic; Cursor is not framed. Adjustable metal bra
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales: $   LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I Gauge Marks on scales: \pi is on A, B, C and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I Gauge Marks on scales: \pi is on A, B, CF and DF; \pi/4         103b SIDA (China)         Front scales:    L, LL2, LL3I, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF; 1^{\prime}         104SIDA (China)         Front scales:    L11, LL2I, LL3I, DF    CF, CIF, H, CI, H, CIF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF; 1^{\prime}         104SIDA (China)         Front scales:    L11, L12I, L13I, DF    CF, CIF, H2, H2I, H2I, H2I, L2I, L3I, DF    CF, CIF, H2, H2I, H2I, H2I, H2I, H2I, H2I, H2I,$	Model No.         1012           o does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           JL2           is on A & B; marks 1°, ' and         Model No.           Model No.         5810         C    D, LL3, LL2, LL1             ° and R are on A, B, and C.         Model No.         6171           S, CI, C    D, Ln3, Ln2, Ln1           Yes         Yes	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10	dimensions, physical appearance, scales, gauge marks,cursoi 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Curso 25 cm; Plastic face on wood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, DI, Curso 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales: $   LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, CI, D, LL3, I Gauge Marks on scales: \pi is on A, B, C, D, and DF.         103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I Gauge Marks on scales: \pi is on A, B, CF and DF; \pi/4         103b SIDA (China)         Front scales:    LL11, LL21, LL31, DF    CF, CIF, H, CI, Gauge Marks on scales: \pi is on A, B, C, D, and DF; 1^{\prime}         104SIDA (China)         Front scales:    LL11, LL21, LL31, DF    CF, CIF, H2, H2, H23, DF    CF, CIF, H23, H23, DF    CF, CIF$	Model No.         1012           o does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           L2           is on A & B; marks 1°, ' and         Model No.           Model No.         5810         C    D, LL3, LL2, LL1             O and R are on A, B, and C.         Model No.         6171           3, CI, C    D, Ln3, Ln2, Ln1           0 and R are on C&D.         Model No.           Model No.         6201         Model No.         6201	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10	dimensions, physical appearance, scales, gauge marks,cursoi 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Curso 25 cm; Plastic face on wood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, DI, Curso 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI, Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L, LL2], LL3], DF    CF, CIF, H, CI, Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; $1^{\prime}$ 104SIDA (China)         Front scales:    L11, LL21, LL31, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; $1^{\prime}$ 104SIDA (China)         Front scales:    L11, L121, L131, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; $1^{\prime}$ 104SIDA (China)         Front scales:    L11, L121, L131, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; $1^{\prime}$	Model No.         1012           o does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           .L2           is on A & B; marks 1°, ' and         Model No.         5810           C    D, LL3, LL2, LL1           Model No.         5810         C    D, LL3, LL2, LL1             ° and R are on A, B, and C.         Model No.         6171         3, CI, C    D, Ln3, Ln2, Ln1             ° and R are on C&D.         Model No.         6201         , Sh1, Th	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10	dimensions, physical appearance, scales, gauge marks,cursoi 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Curso 25 cm; Plastic face on wood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, DI, Curso 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, I, D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L11, LL21, LL31, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; I'         104SIDA (China)         Front scales:    L11, L121, L131, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; I'         104SIDA (China)         Front scales:    L11, L121, L131, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; I'         105SIDA (China)         Front scales:    L, K, A    B, T&T, ST, S&S, C    D, Sh2	Model No.         1012           a does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           .L2           is on A & B; marks 1°, ' and         Model No.         5810           C    D, LL3, LL2, LL1           Model No.         5810         C           C    D, LL3, LL2, LL1           and R are on A, B, and C.         Model No.         6171           3, CI, C    D, Ln3, Ln2, Ln1           and R are on C&D.         Model No.         6201           , Sh1, Th            DF; π/4 is on A & B; c is on C         D	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10	dimensions, physical appearance, scales, gauge marks,cursoi 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Curso 25 cm; Plastic face on vood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, DI, Curso 25 cm; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju Back scales:    LL01, LL02, LL03, DF    CF, CIF, CI, C    1
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, I, D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L11, LL21, LL3I, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; I'         104SIDA (China)         Front scales:    L11, L121, L131, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; I'         105SIDA (China)         Front scales:    L11, L121, L131, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; I'         105SIDA (China)         Front scales:    L, K, A    B, T&T, ST, S&S, C    D, Sh2         Gauge Marks on scales: $\pi$ is on A, B, C, D, CI, CF and	Model No.         1012           a does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           .L2           is on A & B; marks 1°, ' and         Model No.         5810           C    D, LL3, LL2, LL1           Model No.         5810         C           C    D, LL3, LL2, LL1           and R are on A, B, and C.         Model No.         6171           3, CI, C    D, Ln3, Ln2, Ln1           and R are on C&D.         Model No.         6201           , Sh1, Th            DF; π/4 is on A & B; c is on C         D	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10 CF is folded at √ 10	dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Cursor 25 cm.; Plastic face on wood; Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, DI, Cursor 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju Back scales:    LL01, LL02, LL03, DF    CF, CIF, CI, C    I Cursor Cursor Cursor
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, I, D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L11, LL21, LL31, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         104SIDA (China)         Front scales:    L11, Ln21, Ln31, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         105SIDA (China)         Front scales:    L, K, A    B, T&T, ST, S&S, C    D, Sh2         Gauge Marks on scales: $\pi$ is on A, B, C, D, CI, CF and         ▶ SUN (Japan) (for Cross Reference See HEN         106U. S. BLUEPRINT (USA/HEMMII)         107XUESH (China)	Model No.         1012           a does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           .L2           is on A & B; marks 1°, ' and         Model No.         5810           C    D, LL3, LL2, LL1           O and R are on A, B, and C.         Model No.         6171           3, CI, C    D, Ln3, Ln2, Ln1           O and R are on C&D.         Model No.         6201           , Sh1, Th            DF; π/4 is on A & B; c is on C         MII)         No.           No.         1893 Duplex Slide Ru         6171 bachelor	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10 CF is folded at √ 10 it is folded at √ 10 CF is folded at √ 10	dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Cursor 25 cm.; Plastic face on wood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, DI, Cursor 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju Back scales:    LL01, LL02, LL03, DF    CF, CIF, CI, C    1 Cursor Note: Has Gudermannian scales Same as Hemmi 1
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L11, LL21, LL3I, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         104SIDA (China)         Front scales:    L11, L121, L131, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         105SIDA (China)         Front scales:    L, K, A    B, T&T, ST, S&S, C    D, Sh2         Gauge Marks on scales: $\pi$ is on A, B, C, D, CI, CF and         ▶ SUN (Japan) (for Cross Reference See HEN         106U. S. BLUEPRINT (USA/HEMMII)         107XUESH (China)       Do not have a picture or manual for this slide rule. Hopp </td <td>Model No.         1012           a does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           .L2           is on A &amp; B; marks 1°, ' and         Model No.           Model No.         1083         .L2             Model No.         1083         .C           Model No.         5810         C    D, LL3, LL2, LL1             ° and R are on A, B, and C.         Model No.         6171           3, CI, C    D, Ln3, Ln2, Ln1           ° and R are on C&amp;D.           Model No.         6201         , Sh1, Th              .DF; <math>\pi/4</math> is on A &amp; B; c is on C         MII)           No.         1893 Duplex Slide Ru           6171 bachelor         o does not list it. Need complete</td> <td>CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10 CF is folded at √ 10 it is folded at √ 10 CF is folded at √ 10</td> <td>dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&amp;T, ST, S&amp;S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&amp;T, ST, S&amp;S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed Back scales:    LL0, LL00, A    B, T&amp;T, ST, S&amp;S    D, Th, Cursor 25 cm.; Plastic face on vood; Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&amp;S, H', T&amp;T, C    D, DI, Cursor 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju Back scales:    LL01, LL02, LL03, DF    CF, CIF, CI, C    1 Cursor Note: Has Gudermannian scales Same as Hemmi 1 dimensions, physical appearance, scales, gauge marks,cursor</td>	Model No.         1012           a does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           .L2           is on A & B; marks 1°, ' and         Model No.           Model No.         1083         .L2             Model No.         1083         .C           Model No.         5810         C    D, LL3, LL2, LL1             ° and R are on A, B, and C.         Model No.         6171           3, CI, C    D, Ln3, Ln2, Ln1           ° and R are on C&D.           Model No.         6201         , Sh1, Th              .DF; $\pi/4$ is on A & B; c is on C         MII)           No.         1893 Duplex Slide Ru           6171 bachelor         o does not list it. Need complete	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10 CF is folded at √ 10 it is folded at √ 10 CF is folded at √ 10	dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Cursor 25 cm.; Plastic face on vood; Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, DI, Cursor 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju Back scales:    LL01, LL02, LL03, DF    CF, CIF, CI, C    1 Cursor Note: Has Gudermannian scales Same as Hemmi 1 dimensions, physical appearance, scales, gauge marks,cursor
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, I, D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; $\pi/4$ 103b SIDA (China)         Front scales:    LL11, LL21, LL31, DF    CF, CIF, H2, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; 1'         104SIDA (China)         Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; 1'         105SIDA (China)         Front scales:    L, K, A    B, T&T, ST, S&S, C    D, Sh2         Gauge Marks on scales: $\pi$ is on A, B, C, D, CI, CF and         ▶ SUN (Japan) (for Cross Reference See HEN         106U. S. BLUEPRINT (USA/HEMMI)         107XUESH (China)         Do not have a picture or manual for this sl	Model No.         1012           a does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           L2           is on A & B; marks 1°, ' and         Model No.         5810           C    D, LL3, LL2, LL1           Model No.         5810         C    D, LL3, LL2, LL1             ° and R are on A, B, and C.         Model No.         6171         6201           , Sh1, Th            DF; $\pi/4$ is on A & B; c is on C         WII)           No.         1893 Duplex Slide Ru         6171 bachelor	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10 CF is folded at √ 10 CF is folded at √ 10 : marks 1°, ' and " are on ST le (For Electric Engineer) : information: listing of details of	dimensions, physical appearance, scales, gauge marks,cursoi 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Curso 25 cm.; Plastic face on vood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, Dl, Curso 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju Back scales:    LL01, LL02, LL03, DF    CF, CIF, CI, C    1 Curso Note: Has Gudermannian scales Same as Hemmi 1 dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic on laminated wood; Cursor is not framed. Adju
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C    D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, I, D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         103b SIDA (China)         Front scales:    L11, L121, L131, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         104SIDA (China)         Front scales:    L11, L121, L131, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         105SIDA (China)         Front scales:    L11, L121, L131, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, CI, CF and         Pront scales:    L11, L121, L131, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, CI, CF and         ▶ SUN (Japan) (for Cross Reference See HEN	Model No.         1012           a does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           .L2           is on A & B; marks 1°, ' and         Model No.         1083           .L2           Model No.         5810         C    D, LL3, LL2, LL1           and R are on A, B, and C.           Model No.         6171         3, CI, C    D, Ln3, Ln2, Ln1           and R are on A, B, and C.           Model No.         6171         5, CI, C    D, Ln3, Ln2, Ln1           and R are on C&D.           Model No.         6201         , Sh1, Th            DF; $\pi/4$ is on A & B; c is on C           MID         No.         1893 Duplex Slide Rui         6171 bachelor           adoes not list it. Need complete         6171         H2, CI, C    D, Igln3, Igln2, Igl	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10 CF is folded at √ 10 cr Electric Engineer) information: listing of details of In1  CF is folded at √ 10	dimensions, physical appearance, scales, gauge marks,cursoi 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Curso 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Curso 25 cm.; Plastic face on vood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, Dl, Curso 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju Back scales:    LL01, LL02, LL03, DF    CF, CIF, CI, C    : Curso Note: Has Gudermannian scales Same as Hemmi 1 dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic on laminated wood; Cursor is not framed. A Back scales:    sh1, sh2, K, A    B, sin&sin, H1 tgl&tg1,
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, I, D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, I, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         103b SIDA (China)         Front scales:    L11, LL21, LL31, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         104SIDA (China)         Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         105SIDA (China)         Front scales:    L, K, A    B, T&T, ST, S&S, C    D, Sh2         Gauge Marks on scales: $\pi$ is on A, B, C, D, CI, CF and         ▶ SUN (Japan) (for Cross Reference See HEN         106U. S. BLUEPRINT (USA/HEMMII)         107XUESH (China)         Do not have a picture or manual for this slide rule. Hopp </td <td>Model No.         1012           a does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           .L2           is on A &amp; B; marks 1°, ' and         Model No.         5810           C    D, LL3, LL2, LL1           Model No.         5810         C    D, LL3, LL2, LL1             ° and R are on A, B, and C.         Model No.         6171           3, CI, C    D, Ln3, Ln2, Ln1           °         and R are on C&amp;D.           Model No.         6201         , sh1, Th            DF; <math>\pi/4</math> is on A &amp; B; c is on C           MII)         No.         1893 Duplex Slide Rui         6171 bachelor           odoes not list it. Need complete         6171         hachelor           odoes not list it. Need complete         6171         412, CI, C    D, Igln3, Igln2, Igln</td> <td>CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10 CF is folded at √ 10 <b>is for Electric Engineer)</b> pinformation: listing of details of ln1  CF is folded at √ 10 front C&amp;D v is on K; CF and DI</td> <td>dimensions, physical appearance, scales, gauge marks,cursoi 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&amp;T, ST, S&amp;S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&amp;T, ST, S&amp;S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&amp;T, ST, S&amp;S    D, Th, Cursor 25 cm.; Plastic face on vood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&amp;S, H', T&amp;T, C    D, Dl, Cursor 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju Back scales:    LL01, LL02, LL03, DF    CF, CIF, CI, C    i Cursor Note: Has Gudermannian scales Same as Hemmi 1 dimensions, physical appearance, scales, gauge marks,cursor 25 cm.; Plastic on laminated wood; Cursor is not framed. Af Back scales:    sh1, sh2, K, A    B, sin&amp;sin, H1 tgl&amp;tg1, F are folded at √10 on right side. Cursor</td>	Model No.         1012           a does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           .L2           is on A & B; marks 1°, ' and         Model No.         5810           C    D, LL3, LL2, LL1           Model No.         5810         C    D, LL3, LL2, LL1             ° and R are on A, B, and C.         Model No.         6171           3, CI, C    D, Ln3, Ln2, Ln1           °         and R are on C&D.           Model No.         6201         , sh1, Th            DF; $\pi/4$ is on A & B; c is on C           MII)         No.         1893 Duplex Slide Rui         6171 bachelor           odoes not list it. Need complete         6171         hachelor           odoes not list it. Need complete         6171         412, CI, C    D, Igln3, Igln2, Igln	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10 CF is folded at √ 10 <b>is for Electric Engineer)</b> pinformation: listing of details of ln1  CF is folded at √ 10 front C&D v is on K; CF and DI	dimensions, physical appearance, scales, gauge marks,cursoi 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Cursor 25 cm.; Plastic face on vood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, Dl, Cursor 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju Back scales:    LL01, LL02, LL03, DF    CF, CIF, CI, C    i Cursor Note: Has Gudermannian scales Same as Hemmi 1 dimensions, physical appearance, scales, gauge marks,cursor 25 cm.; Plastic on laminated wood; Cursor is not framed. Af Back scales:    sh1, sh2, K, A    B, sin&sin, H1 tgl&tg1, F are folded at √10 on right side. Cursor
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, I, D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, I, D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         103b SIDA (China)         Front scales:    LL11, LL21, LL31, DF    CF, CIF, H2, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         104SIDA (China)         Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         105SIDA (China)         Front scales:    L, K, A    B, T&T, ST, S&S, C    D, Sh2         Gauge Marks on scales: $\pi$ is on A, B, C, D, C, C, F and <b>&gt;</b> SUN (Japan) (for Cross Reference See HEN         106U. S. BLUEPRINT (USA/HEMMII)         107XUESH (China)         Front scales:    lgln11, lgln21, lgln31, DF	Model No.         1012           0 does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           L2           is on A & B; marks 1°, ' and         Model No.         5810           C    D, LL3, LL2, LL1           Model No.         5810         C           Model No.         5810         C         Model No.         6171           3, CI, C    D, LL3, LL2, LL1           ° and R are on A, B, and C.         Model No.         6171           3, CI, C    D, LL3, LL2, LL1           ° and R are on C&D.         Model No.         6201           No. 6171         6201         sh1, Th            DF; $\pi/4$ is on A & B; c is on C           MIDI         No. 1893 Duplex Slide Ru         6171 bachelor           * does not list it. Need complete         6171         H2, CI, C    D, Igln3, Igln2, Igl           H2, CI, C    D, Igln3, Igln2, Igl         19 and R are on         1572-K3         (Maybe XU	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10 CF is folded at √ 10 cr Electric Engineer) information: listing of details of In1  CF is folded at √ 10	dimensions, physical appearance, scales, gauge marks,cursoi 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Curso 25 cm.; Plastic face on vood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, Dl, Curso 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju Back scales:    LL01, LL02, LL03, DF    CF, CIF, CI, C    i Curso Note: Has Gudermannian scales Same as Hemmi 1 dimensions, physical appearance, scales, gauge marks,curso 25 cm.; Plastic on laminated wood; Cursor is not framed. A Back scales:    sh1, sh2, K, A    B, sin&sin, H1 tg1&tg1, 7 are folded at √ 10 on right side. Cursor 15 cm.; Plastic on laminated wood; Cursor is framed. Adju
100b SIDA (China)         Do not have a picture or manual for this slide rule. Hopp         101SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         102SIDA (China)         Front scales:    LL/1, LL/2, LL/3, DF    CF, CIF, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF.         103a SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, I, D, LL3, I         Gauge Marks on scales: $\pi$ is on A, B, CF and DF; $\pi/4$ 103b SIDA (China)         Front scales:    L, LL1, DF    CF, CIF, CI, C, I, H, CI,         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         103b SIDA (China)         Front scales:    L11, LL21, LL31, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         104SIDA (China)         Front scales:    Ln11, Ln21, Ln31, DF    CF, CIF, H2, H2         Gauge Marks on scales: $\pi$ is on A, B, C, D, and DF; T         105SIDA (China)         Front scales:    L, K, A    B, T&T, ST, S&S, C    D, Sh2         Gauge Marks on scales: $\pi$ is on A, B, C, D, CI, CF and         ▶ SUN (Japan) (for Cross Reference See HEN         106U. S. BLUEPRINT (USA/HEMMII)         107XUESH (China)         Do not have a picture or manual for this slide rule. Hopp </td <td>Model No.         1012           0 does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           L2           is on A &amp; B; marks 1°, ' and         Model No.         5810           C    D, LL3, LL2, LL1           Model No.         5810         C           Model No.         5810         C         Model No.         6171           3, CI, C    D, LL3, LL2, LL1           ° and R are on A, B, and C.         Model No.         6171           3, CI, C    D, LL3, LL2, LL1           ° and R are on C&amp;D.         Model No.         6201           No. 6171         6201         sh1, Th            DF; <math>\pi/4</math> is on A &amp; B; c is on C           MIDI         No. 1893 Duplex Slide Ru         6171 bachelor           * does not list it. Need complete         6171         H2, CI, C    D, Igln3, Igln2, Igl           H2, CI, C    D, Igln3, Igln2, Igl         19 and R are on         1572-K3         (Maybe XU</td> <td>CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10 CF is folded at √ 10 <b>is for Electric Engineer)</b> pinformation: listing of details of ln1  CF is folded at √ 10 front C&amp;D v is on K; CF and DI</td> <td>dimensions, physical appearance, scales, gauge marks,cursoi 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&amp;T, ST, S&amp;S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&amp;T, ST, S&amp;S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&amp;T, ST, S&amp;S    D, Th, Cursor 25 cm.; Plastic face on vood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&amp;S, H', T&amp;T, C    D, Dl, Cursor 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju Back scales:    LL01, LL02, LL03, DF    CF, CIF, CI, C    i Cursor Note: Has Gudermannian scales Same as Hemmi 1 dimensions, physical appearance, scales, gauge marks,cursor 25 cm.; Plastic on laminated wood; Cursor is not framed. Af Back scales:    sh1, sh2, K, A    B, sin&amp;sin, H1 tgl&amp;tg1, F are folded at √10 on right side. Cursor</td>	Model No.         1012           0 does not list it. Need complete         Model No.         1015           C    D, LL3, LL2, LL1           Model No.         1015 - 1           C    D, LL3, LL2, LL1           Model No.         1083           L2           is on A & B; marks 1°, ' and         Model No.         5810           C    D, LL3, LL2, LL1           Model No.         5810         C           Model No.         5810         C         Model No.         6171           3, CI, C    D, LL3, LL2, LL1           ° and R are on A, B, and C.         Model No.         6171           3, CI, C    D, LL3, LL2, LL1           ° and R are on C&D.         Model No.         6201           No. 6171         6201         sh1, Th            DF; $\pi/4$ is on A & B; c is on C           MIDI         No. 1893 Duplex Slide Ru         6171 bachelor           * does not list it. Need complete         6171         H2, CI, C    D, Igln3, Igln2, Igl           H2, CI, C    D, Igln3, Igln2, Igl         19 and R are on         1572-K3         (Maybe XU	CF is folded at √ 10 CF is folded at √ 10 " are on ST. CF and DF are folded at √ 10 CF is folded at √ 10 CF is folded at √ 10 <b>is for Electric Engineer)</b> pinformation: listing of details of ln1  CF is folded at √ 10 front C&D v is on K; CF and DI	dimensions, physical appearance, scales, gauge marks,cursoi 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor 25 cm.; Plastic; Cursor is not framed. Has fixed plastic end Back scales:    Sh2, Sh1, K, A    B, T&T, ST, S&S, C    D, Cursor Front: no lines. Cursor Back: has 25 cm.; Plastic face on laminated wood; Cursor is framed. Back scales:    LL0, LL00, A    B, T&T, ST, S&S    D, Th, Cursor 25 cm.; Plastic face on vood ;Cursor is not framed; Adjusta Back scales:    Th, L, K, A    B, S&S, H', T&T, C    D, Dl, Cursor 25 cm.; Plastic; Cursor is not framed. Adjustable metal bra Back scales:    sh2, sh3, K, A    B, sin2cos2, H'2, tg2ctg2 Similar to SIDA 1002. Cursor Front: has HP(**) lin 25 cm.; Plastic on laminated wood; Cursor is framed. Adju Back scales:    LL01, LL02, LL03, DF    CF, CIF, CI, C    i Cursor Note: Has Gudermannian scales Same as Hemmi 1 dimensions, physical appearance, scales, gauge marks,cursor 25 cm.; Plastic on laminated wood; Cursor is not framed. Af Back scales:    sh1, sh2, K, A    B, sin&sin, H1 tgl&tg1, F are folded at √10 on right side. Cursor

NOTES : On this list the "Front" of the slide rule is where the Name and Number are most prominently displayed. The "Front Cursor" is also on this side. There are exceptions, such as w other. On some, where I had a copy of the instruction manual available, it said what was Front and Back. Where there are two entries such as "S & S" it denotes there are Black and actually two scales. Usually one being the complement of the other. As examples, in the case of "S & S" the degrees are shown as 10 80, and 70 20, etc. At least one rule has Black are in black where I do not own or have a color picture of the slide rule.

The CF and DF scales are all folded at  $\pi$ , unless noted that they are folded at  $\sqrt{10}$ , or other value.

# The values of the symbols and gauge marks on the slide rule scales and on the cursors are as follows: (Note: Do not be confused as some marks look similar Note: Not all gauge marks could be identified. Instead, where a mark is unknown, a numerical value is shown.

 $\pi = 3.14159$ 

 $\pi / 4 = 0.7854$  This is to aid in finding the area of a circle by the formula;  $A = \pi D^2 / 4$ 

 $v = \pi/6 = 0.5236$  This mark is on K scale and is used for calculating volume of sphere where  $V = (\pi/6) D^3$ 

R or  $\rho^o$  or  $\rho = 180/\pi = 57.2958^\circ$  (the degrees in one radian)

 $M = 1 / \pi = 0.3183, \text{ or } 100 / \pi = 31.83$ C or C' = 4/\pi = 1.273 c or C = (\sqrt{4}/\pi) = 1.128

 $C1 = (\sqrt{40/\pi}) = 3.568$ 

Marks for small angle calculations are usually on ST and read on C:  $1^{\circ} = 1.745 * 10^{-2} = \pi / 180$ ; The sine of one minute is  $= 2.909 * 10^{-4}$ ; the sine of one second is = 4.8. ' or p' or 9' or 5' or  $\zeta'$  or Q' = minutes in a radian  $= 3437.74 = (180 \times 60)/\pi$  If the mark ' is = 1.970, it is  $= 206,265 * (180/\pi) / 60 = 1.97 * 10^{-5}$  Where " or p" or 9" or 5" or  $\zeta''$  or Q" = seconds in a radian  $= 206,265 = (180 \times 600)/\pi$  If the mark '' is = 1.182, it is  $= 202,265 * (180/\pi) - 1.182 * 10^{-7}$ ; Where

 $\rho^{\mu}$  or  $\xi^2$  or  $\zeta^2$  or  $\zeta^2$  or  $\zeta^2$  or  $\zeta^2$  seconds in a radian (French decimal system 400) = 636,620 = (200 x 100 x 100)/ $\pi$ 

KW or kW stands for Kilowatts. HP(\*) stands for Horsepower in U.S. and Great Britain. HP(\*\*) for Horsepower in Continental Europe.

 $HP(*) (value for this mark is = 1.341). Conversions are: Kilowatts (KW) times 1.341 = HP(*); Ergs per Second times 1.341 times 10^{-10} = HP(*).$ 

HP(\*\*) (value for this mark is = 1.358) for HP metric.

PS1 = factor is 1.33413

PS2 = factor is 1.3599 (this is for HP metric)

## SOURCES OF INFORMATION AND ACKNOWLEDGEMENTS (These are shown on the far right of the individual slide rule listing, and others are no

D.D. - David Davis - from his web site of the "Relay/Ricoh Archive" listing of slide rules.

clara.co - from Ron Manley's web site, "www.sliderules.clara.co.uk".

eBay - from pictures and listings of slide rules on eBay.

Fahey - John Fahey - from pictures he furnished to me on the Eckel Circular side rule.

HVH - many of the listings were checked to Herman Van Herwijnen's listing of slide rules on his CD's. These many cross-checks are not listed. However, Herman's immense contil Holland & D.v.J. - from Peter Holland and Dieter von Jezierski - email pictures, and copies of the translation of the manual by Dieter, of the Faber-Castell 989.

JOS - The Journal of the Oughtred Society, and JOS PLUS is on the OS web site.

J. R. G. - from information sent to me by Joäo Roberto Gabbardo on the Archimedes slide rule.

MOL - Michael O'Leary and Clark McCoy- from email pictures Michael sent the Author on K&E and Pickett slide rules; and from Clark's web site on K&E slide rules and catalogs. P. Ross - Paul Ross - from his Article in Spring 2003, Journal of the Oughtred Society;"A Comprehensive Hemmi Slide Rule Catalog".

PMH - from Peter M. Hopp's, book, "SLIDE RULES Their History, Models, and Makers", Astragal Press, 1999.

PVM - from Pierre Vander Meulen's article on "Hyperbolic Functions on Slide Rules and Civil Engineering Applications", Autumn 2001 issue of the "Slide Rule GAZETTE" (UK);

R. H. - from information sent to me by Richard Smith Hughes about the slide rules in his collection.

**R. S.** - Rodger Shepherd - from articles he sent to me on the Blanc and Pletts slide rules.

S. T. - from scans and information sent to me by Steve Treadwell on the Lutz No. 300 B .

SPHERE - Sphere Research, "Slide Rule Universe"- from pictures on their web site.

**WKR** - from the Author's collection of slide rules.

WKRM - from the Author's collection of instruction manuals.

# ▶ NOTE: ON THE SLIDE RULES DESIGNED BY F. BLANC AND J. ST. VINCENT PLETTS:

My JOS article on hyperbolic slide rules was completed for printing a few weeks before the above listing was prepared to go on the JOS web site. In the interim perio came upon an article that is of real interest. It is something that would have been nice to know ahead of time so that it could have been included in my JOS article. It i In JOS Vol. 4, No. 2, Rodger Shepherd presented a description of a slide rule designed in 1890 by F. Blanc. This slide rule was the first design to show a way to obtain information on this slide rule was furnished in a letter submitted by Dr. Gunter Kugel. Although Blanc's slide rule did not have actual hyberbolic scales it did have mar made, the values of Sinh and Cosh could be obtained. This slide rule is a major historical landmark in the history of hyperbolic rules, but unforunately no picture of it : it was not issued and the slide rule was never manufactured. Peter Holland, in response to my questions for information, contacted Dr. Kugel, who said that he tried to It seems the slide rule, if completed, would have been at least one and a half meters long. Also, a circular version may have been completed at the University of Frank: and a picture, if possible.

After reading about the Blanc slide rule I contacted Rodger Shepherd, the author of the JOS Vol. 4, No. 2 article. He has been very helpful in sending me additional arti me is copy of a paper from Vol. 33, Part 2, of the Proceedings of The Physical Society of London, dated February 15, 1921. The title of this paper was *Some Slide Rule* important as it seems to be the first to show a picture of a slide rule with hyperbolic scales. It also predates Puchstein's patent application, dated May 12, 1921 (that res proximity of dates appears to be just a coincidence as there is just no resemblance between the pictures of the scale layouts on the Pletts' and Puchstein's slide rules. Although Blanc's and Pletts' slide rule designs predated Puchstein's we need to keep in mind that the K&E 4093-3 was the first hyperbolic slide rule to be actually mar

#### ► NOTE: ON THE CHINESE SLIDE RULES WITH HYPERBOLIC SCALES:

In the listing above there are duplicates because of the confusion of the different manufacturers names. Such as those under the names of *CHINA SHANGHAI* and *SHA*. There are many Chinese slide rules and I expect more will be found and added to the list as time goes by. Fortunately some of my confusion in how to list these has be dealer, who lives in Beijing. He informed me that the SIDA company was formed in the 1930's. Then later in the 1960's united into the Shang Hai factory. He says sli are the same maker, and that Flying Fish and Ruyi are Trademarks.. Also, where the slide rule numbers are the same the scales are the same layout. For example, the F and Shanghai (SHANG HAI) rules with the same number of 1015. I know his comment to be true for some of the names, but as I only have a few of each of the vario Also, this information only covers one manufacturer. What is the story about the other makers such as Ding Feng, Haiou Pai, Hangzhou, Hua Fang, Jang, Xuesh and ur If you know of Chinese slide rules that need to be added, or you see something on the list that needs correction, please send me the details. Pictures front and back and Since the above note was written an article on Chinese slide rules, written by Richard Smith Hughes and myself, has been published in the JOS Vol. 14, No 2; and a lis The listing on the JOS Plus web site (of Chinese slide rules with hyperbolic scales (Vectors)) will be updated from time-to-time by Richard and myself as new information and myself as the other makers scale as the scale and myself as been published in the scale as the scale ascale as the scale as the scale as the scal

#### ▶ NOTE: ON DIETZGEN SLIDE RULES WITH HYPERBOLIC SCALES:

JOS, Vol 5, No 2 has a number of articles on the history of The Dietzgen Company and its slide rules. This JOS Volume also contains a four page insert by Bruce Babc slide rule model numbers and the years they were listed in the catalogs. From 1897 to 1972.

#### For corrections and additions to the listing email: wrobinson62@cox.net

## ► NOTE: ON HEMMI SLIDE RULES WITH HYPERBOLIC SCALES:

Details on Hemmi slide rules are listed in Paul Ross's article, *A Comprehensive Hemmi Slide Rule Catalog*, in JOS, Vol 12, No1, Spring 2003. I added a number of sl After World War II the Hemmi slide rule models that were produced were inscribed with the words, "Made In Occupied Japan". Also, some sold in the Phillipines had I checked a few rules that were inscribed with these extra labels against those that were not inscribed, and I could find no differences to report between the details on the Information on the POST slide rules, that were made by Hemmi, was taken from the tables in the article by Paul Ross and Ted Hume, *Slide Rules of the Frederick Post* 

#### ► NOTE: ON K&E SLIDE RULES WITH HYPERBOLIC SCALES:

The initial source of the K&E slide rules that are listed was Michael O'leary's, *Keuffel and Esser Slide Rule Master Cross Reference (K&E XREF)* list that he emailed to McCoy's and Michael's web site showing dates and scans of many of the K&E Catalog pages. I checked the slide rules in my collection to these two sources, and adde an Article, *On the Evolution of K&E Vector Slide Rules*, in JOS, Vol. 14, No.1, Spring 2005. He reviewed my list and I have made corrections from the comments and

# ► NOTE: ON PICKETT AND ECKEL SLIDE RULES WITH HYPERBOLIC SCALES:

In July 2002 Michael O'leary emailed me a listing he had of the various Pickett Model 4 slide rules. One year later, July 2003, he sent detailed photographs he had take comprehensive information from Michael was combined with the details shown on the Author's slide rules in order to complete the Pickett listing. Please review the confused in trying to sort out the different changes of Logos and Name descriptions on what appeared to be identical scale layouts. Some changes have been picke in the change to ES & T models the three cube root scales were retained, but two of the cube root scales were placed together, top and bottom on the same scale. So same for the two square root scales that were combined on top and bottom so that they were shown together on one scale. Also the eight N scales were all redesignate were then combined into four scales so that they were shown together on one scale. Also, the eight N scales were addition of a L scale, and then later a Ln scale was added. Other hard to follow changes were additions times to th variations have been listed. Also, around 1949, it seems there was a move from Chicago to Alhambra, CA. Most rules seen said Chicago on them, but there was one w

## ► NOTE: ON RELAY / RICOH SLIDE RULES WITH HYPERBOLIC SCALES:

Most of the following information has been taken from David Davis' "Relay / Ricoh Archive" web site. This is found under: www. geocities.com/usra482b/index.html The history of these slide rules started with the *Nippon Slide Rule Company* that distributed under the name "Nikkei". This Company later became *San-ai*, and adopted again changed names to *San-ai Keiki Co. Ltd.*, the brand name became "Ricoh". The Relay/Ricoh slide rules were Rebranded, and the same slide rule layouts were sc Companies were in the United States. The Relay / Ricoh and the Rebranded slide rules with hyperbolic scales were as follows: Relay 157; Ricoh 157; Alvin 1157; Co Lafayette 99-71029; Micronta 157; Scientific Instrument Company (SIC) 1570. More advanced slide rules with hyperbolic and special scales were: Relay 158; Relay layout of the scales and other features of the slide rules following the above listed Relay 157, and Relay 158, are identical for practical purposes. The only exception, i of the other brands have a model 159. If someone knows of other 159 models, please let me know.

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