

LISTING OF ALL KNOWN SLIDE RULES WITH HYPERBOLIC SCALES

by William K. Robinson

Maker, Name and Other Information

(See the footnotes below this list for sources of information; and for explanations of symbols used, and for values of the different gauge and cu

1ALVIN (Japan San-Ai Group)	ALVIN ELITE VECTOR No. 1157	1953 - 1960	25 cm.; Plastic face on laminated wood ; Cursor is not framed. This early version has
Front scales: Sr, S0 & S9 , P', P Q, CF, CI, C D, DF, LL2, LL3 Note: Sr is radians; S0 degrees			Back scales: Sh2, Sh1, A B, K, Th, C D, Tr1, Tr2, db
Gauge Marks on scales: π is on A, B, C, D, CF and DF; $\pi/4$ and M is on A and B; C and C1 are on C and D.			Cursor
Cursor Back: has marks; kW at top middle ; HP(*) is at right on vertical line over A & B scales; $\pi/4$ is at a vertical line on left over the A & B scales, and $\sqrt{4/\pi}$ on the right over the			
2ARISTO (Germany) Made in Hamburg	ARISTO HyperboLog No. 0971	1953 - 1960	25 cm.; Plastic; Cursor is not framed. This early version has
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, SI
Gauge Marks on scales: π is on A, B, C, D, CF, DF, CI, DI, and CIF. The marks " and ' are on scale ST.			Cursor
Cursor Back: has marks; kW at top middle ; HP(*) is at right on vertical line over A & B scales; There is a $\pi/4$ vertical line on left over the A & B scales.			
3ARISTO (Germany) Made in Germany	ARISTO HyperboLog No. 0971	1961 - 1972	25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
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, SI
Gauge Marks on scales: π is on A, B, C, D, CF, DF, CI, DI, and CIF. The marks " and ' are on the back C scale; e is on LL2 and LL3. Cursor Front: has a mark on right over CF			Cursor Front: has a mark on right over CF
Cursor Back: has marks; kW at top middle ; HP(*) is at right on vertical line over A & B scales; There is a $\pi/4$ vertical line on left over the A & B scales, and $\sqrt{4/\pi}$ on right over C an			
4In another version of the same No. 0971 rule the Cursor Back has marks; kW at top middle and PS2 at right on vertical line over A & B scales; a			
5aARISTO (Germany)	ARISTO HyperLog No. 0972	1969 - 1977	25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
Front scales: LLo, LLo1, LLo2, LLo3, DF CF, CIF, L, CI, C D, LL3, LL2, LL1, LLo			Back scales: H2, Sh2, Th, K, A B, T&T, ST, S&S, P, C
Gauge Marks on scales: π is on A, B, C, D, CF, DF, CI, CIF, and DI. The marks Q' and Q are on back scale C; e is on LL2 and LL3.			
Cursor Front: has marks; there's a vertical mark on right over CF/DF scales (for multiplication of the value on C/D by 36); $\pi/4$ is left over the A and B scales; and $\sqrt{4/\pi}$ is right over			
Cursor Back: has marks; kW at top middle ; PS2 at right on vertical line over A & B scales; There is a $\pi/4$ vertical line on left over the A & B scales, and $\sqrt{4/\pi}$ on right over the C a			
5bARQUIMEDES (Brazil)	Archimedes Vectolog 21-D		25 cm.
Front scales: LLo1, LLo2, LLo3, DF CF, CIF, CI, C D, LL3, LL2, LL1			Back scales: L, K, A B, T, ST, S, C D, Th, Sh2, Sh1
Have no other details on this slide rule. It was reported to the ISRG to exist by João Roberto Gabbardo 06/09/2006. By email he furnished me the information shown here. We do not			
6BEACON (Korea)	BEACON KOREA No. 315		25 cm.; Plastic; Cursor is not framed. Has adjustable meta
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; c is on the back C scale.			Cursor
▶SEE THE NOTE AT END OF THIS LISTING REGARDING THE SLIDE RULES DESIGNED BY F. BLANC AND J. ST. VINCENT PLETTIS			
7aBLUNDELL (Great Britain)	Multilog Vector Duplex No. JV 56	1957-1965	Source: Hopp page 144.
Do not have a picture or manual for this slide rule. Hopp shows same scales as below No. 506 (Academy Duplex). So these two slide rules may be almost the same. To check this ne			
7bBLUNDELL (Great Britain)	Log-Log Electro No. 506 (Academy Duplex) 965-1970		25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
Front scales: LLo1, LLo2, LLo3, DF CF, CIF, CI, C D, LL3, LL2, LL1			Back scales: Sinh1, Sinh2, Tanh, A B, T&T, ST, S&S
Gauge Marks on scales: π is on A, B, C, D, CF, DF, CI, DI, and CIF; The marks 9' and 9'' are on front scales C and D.			Cursor
Cursor Back: There is a HP(*) vertical line mark at right over A and B scales; There is a $\pi/4$ vertical line on left over the A and B scales, and $\sqrt{4/\pi}$ on the right over the C and D scale			
8BLUNDELL (Great Britain)	Log-Log Electro No. A506 (Super Duplex) 1970-1980		25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
Front scales: LLo1, LLo2, LLo3, DF CF, CIF, CI, C D, LL3, LL2, LL1			Back scales: Sinh1, Sinh2, Tanh, A B, T&T, ST, S&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 font			
Need gauge marks and cursor lines information as pictures do not show this detail.			
▶SEE THE NOTE AT END OF THIS LISTING REGARDING CHINESE SLIDE RULES.			
9aCHINA BEIJING	6681 Haiou Pai (Seagull)	See Haiou Pai on this list	25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
Front scales: Ln01, Ln02, Ln03, DF CF, CIF, H, CI, C D, LL3, LL2, LL1			Back scales: L, Sh1, Sh2, A B, T, ST, S, C D, P, Th, '
Need gauge marks and cursor lines information as pictures do not show this detail.			
9bCHINA B	No number		Same as listed Has si
10CHINA S	Cultural Revolution Slide Rule 1002		This appears to be a renamed Flying Fish 1002
11CHINA SHANGHAI	1015-1		Maybe same as listing under Flying Fish 1015-1
Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor			
12CHINA SHANGHAI	1018		Maybe same as listing under Flying Fish 1018
Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor			
13CHINA SHANGHAI	5891 (Has same scales as K&E 4083-3 (1955)		Maybe same as listing under Shanghai (China) 5891
Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor			
14COMPASS (JAPAN San-Ai Group)	No. 1325		25 cm.; Plastic face on laminated wood ; Cursor is not framed. This early version has
Front scales: Sr, S0, P', P Q, CF, CI, C D, DF, LL2, LL3 Note: Sr is radians; S0 degrees			Back scales: Sh2, Sh1, A B, K, Th, C D, Tr1, Tr2, db
Gauge Marks on scales: π is on A, B, C, D, CF and DF; $\pi/4$ and M is on A and B; C and C1 are on C and D.			Cursor
▶SEE THE NOTE AT END OF THIS LISTING REGARDING THE DIETZGEN SLIDE RULES.			
15DIETZGEN (USA) Vector Type Log Log	No. 1735 Maniphase Multiplex (Variation 1) 1941 -52		10 in.; Plastic face on wood ; Cursor is not framed. Adjust
Front scales: L, LL1, DF CF, CIF, CI, C D, LL3, LL2			Back scales: LL0, LL00, A B, T&T, ST, S&S D, Th,
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.			Cursor
16DIETZGEN (USA) Vector Type Log Log	No. 1735 Maniphase Multiplex (Variation 2) 1950		10 in.; Plastic face on wood; Cursor has metal frame. Adju
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2			Back scales: L, LL01, LL1, A B, T&T, ST, S&S D, T,
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.			Cursor
17DIETZGEN (USA) Vector Type Log Log	No. 1725 Maniphase Multiplex		25 cm; Plastic face on wood ;Cursor has metal frame. Adju
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2			Back scales: Sh1, Sh2, Th, A B, T&T, ST, S&S D, I
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.			Cursor
18DIETZGEN (USA) Vector Type Log Log	No. N1725	1955-59	Source: Hopp page 161.
Do not have a picture or manual for this slide rule. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor lines, etc.			
19DIETZGEN (USA) Vector Type Log Log	No. N1725, Microglide	1959-70	25 cm; Plastic face on wood ;Cursor has metal frame. Adju

	Front scales: LL01, LL02, LL03, DF CF, CIF, L, CI, C D, LL3, LL2, LL1	Back scales: Th, Sh2, Sh1, A B, T<45°&T>45°, T>45°
	Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.	Cursor
20	DIETZGEN (USA) Vector Type Log Log No. N1725 Micromatic	25 cm.; Plastic face on wood ;Cursor has metal frame. Adju
	This "Micromatic Adjustment" slide rule is the same as the N1725, Microglide, but has a special screw for fine adjusting of the alignment. This screw is located on the top scales on	
21	DIETZGEN (USA) Vector Type Log Log No. B-1725 (Made in Japan) 1972	25 cm.;Plastic face on laminated wood ;Cursor not framed.
	Front scales: Th, Sh2, Sh1, A B, T<45°&T>45°, T>45°&T>45°, ST, S&S D, DI, K	Back scales: LL01, LL02, LL03, DF CF, CIF, L, CI, C
	Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.	Cursor
22	DING FENG (China) Slide Rule has no ID No. or name on it; Box has No. 5471	25 cm.; Plastic face on laminated wood; Cursor is framed;
	Front scales: 2D, L, K, A Tan&Cot, Sin&Cos, H', CI, C D, Th, Sh1, Sh2	Back scales: LL1I, LL2I, LL3I, DF CF, CIF, H, CI, C
	Gauge Marks on scales: on front C scale are the marks 1° and R. On back π is on the DF scale.	Cursor
23a	DING FENG (China) No. 5471 Duplex Vector	Source: Hopp page 161 25 cm.; Plastic face on laminat
	Front scales: Th, L, K, A B, S, H, T, C D, DI, Sh2, Sh1	Back scales: LL01, LL02, LL03, DF CF, CIF, H, CI, C
	Gauge Marks on scales: Need information	Cursor
23b	DING FENG (China) No. 5571	25 cm.; Plastic face on laminated wood ;Cursor is not frame
	Front scales: 2D, L, K, A Tan&Cot, Sin&Cos, H', CI, C D, Th, Sh1, Sh2	Back scales: LL1I, LL2I, LL3I, DF CF, CIF, H, CI, C
	Gauge Marks on scales: on front C scale has the mark R. On back π is on the DF scale.	Cursor
24a	DING FENG (China) No. 5651	Scales were hard to read on eBay, but seem similar to the
	Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor	
24b	DING FENG (China) No. 5810	25 cm.; Plastic face on wood ;Cursor is not framed; Adjust
	Front scales: LL1I, LL2I, LL3I, DF CF, CIF, H, CI, C D, LL3, LL2, LL1	Back scales: Th, L, K, A B, S&S, H', T&T, C D, DI,
	Gauge Marks on scales: π is on A, and B back scales; and C, D, and DF front scales; The marks 1° and R are on back scale C; unknown mark v is at 4.2 on K	Cursor
25	DING FENG (China) No. 5852	
	Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor	
26	ECKEL (The Eckel Co., USA) Engineer's Log Log (Circular Slide Rule)	This is the only known circular slide rule with hyperbolic s
	Scales are printed on cursor: Front from center to edge: LL1, LL2, LL3, LL4, C D, DI, A, K, L	Back from center to edge: SH1, SH2, TH, D, ST, S, T<45°, T>45°
27	FABER-CASTELL (Germany) Mathema No. 2/84	1966Source: Hopp page 172 20 cm.; Plastic, Cursor is not fr
	NOTE: The F-C Mathema rules do not use letters to name the scales such as, A, C, CIF, S, etc. Instead formulas or symbols are used to name the scales.	
	Front Scales (on left side): $(e^{X^g}, \tan x^g, \sqrt{X^2-1}, \sqrt{X} \parallel \sqrt{X}, (1/\sqrt{X}), 1/y, y \parallel Y, \sqrt{1-X^2}, \sin X^g, (e^X) \parallel$	
	Front Scales(on right side): $\ln Y, \tan Y, \sqrt{1+Y^2}, Y^2 \parallel y^2, 1/y^2, 1/y, y \parallel Y, \sqrt{1-Y^2}, \sin Y, (\ln Y) \parallel$	
	Back Scales (on left side): $-0.1 \ln X, -\ln X, -10 \ln X \parallel \tanh x^g, 0.1 \cosh x^g, 0.1 \sinh x^g, \sinh x^g \parallel 10 \ln X, \ln X, 0.1 \ln X \parallel$	
	Back Scales(on right side): $e^{-10Y}, e^{-Y}, e^{-0.1Y} \parallel \tanh y, \cosh 10y, \sinh 10y, \sinh y \parallel e^{0.1Y}, e^Y, e^{10Y} \parallel$	
	Gauge Marks on scales: There are no gauge marks on the scales.	
	Cursor Front : under the upper two \sqrt{X} scales were two lines to the left at 2π and $\pi/4$; and to the right were two lines at 4π and $\pi/2$. These symbols were printed above on the cu	
	Cursor Front (continued): under the lower two Y scales were two lines to the left at 2π and $\pi/4$; and to the right were two lines at 4π and $\pi/2$. These symbols were printed below on	
	Cursor Back : under both the the upper and lower scales were two lines at left at 2π and $\pi/4$; and at right were two marks at 4π and $\pi/2$. These symbols were printed above and belo	
28	FABER-CASTELL (Germany) Mathema No. 2/84N	20 cm.; Plastic, Cursor is not framed. Adju
	Front Scales (on left side): $(e^{X^g}, \tan x^g, \sqrt{X^2-1}, \sqrt{X} \parallel \sqrt{X}, (1/\sqrt{X}), 1/y, y \parallel Y, \sqrt{1-X^2}, \sin X^g, (e^X) \parallel$	
	Front Scales(on right side): $\ln Y, \tan Y, \sqrt{1+Y^2}, Y^2 \parallel y^2, 1/y^2, 1/y, y \parallel Y, \sqrt{1-Y^2}, \sin Y, (\ln Y) \parallel$	
	Back Scales (on left side): $10 \ln X, \ln X, 0.1 \ln X, Y \parallel y, 0.1 \cosh x^g, 0.1 \sinh x^g, \sinh x^g \parallel \tanh x^g, -0.1 \ln X, -\ln X, -10 \ln X \parallel$	
	Back Scales(on right side): $e^{0.1Y}, e^Y, e^{10Y}, Y \parallel y, \cosh 10y, \sinh 10y, \sinh y \parallel \tanh y, e^{-10Y}, e^{-Y}, e^{-0.1Y} \parallel$	
	Gauge Marks on scales: There are no gauge marks on the scales.	
	Cursor Front : under the upper two \sqrt{X} scales were two lines to the left at 2π and $\pi/4$; and to the right were two lines at 4π and $\pi/2$. These symbols were printed above on the cu	
	Cursor Front (continued): under the lower two Y scales were two lines to the left at 2π and $\pi/4$; and to the right were two lines at 4π and $\pi/2$. These symbols were printed below on	
	Cursor Back : under both the the upper and lower scales were two lines at left at 2π and $\pi/4$; and at right were two marks at 4π and $\pi/2$. These symbols were printed above and belo	
29	FABER-CASTELL (Germany) 989 Complex Hyperbolic Function Calculator	Source: Hopp page 172 ; Dieter von Jezierski and Peter I
	with information on this very unique "Calculator" shown in the 1966 F-C catalog. It is very large; about 21 x 31 cm., and its picture shows a rule full of graphs of families of curves. values off of the graphs it works more like a nomograph than a slide rule. Peter sent me translations that Dieter had made of the manual. Using this device you can find solutions to functions. Also, Richard Hughes, kindly sent me very clear and complete full size pictures of his F-C 989. (See his JOS article). Of interest is that all calculations are based upon the	
30	FLYING FISH (China) No. 1002	25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
	Front scales: Ln1I, Ln2I, Ln3I, DF CF, CIF, H2, H3, CI, C D, Ln3, Ln2, Ln1	Back scales: sh2, sh3, K, A B, sin2cos2, H'2, tg2ctg2
	Gauge Marks on scales: π is on A, B, C, D, and DF; $\pi/4$ is on A and B; 1° and R are on C and D; v on K. Cursor Front: Has KW at top middle; HP(**) is at right and $\pi/4$ left over	
31	FLYING FISH (China) No. 1003	25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
	Front Scales: lnL2, lnL1, lnI0, lnI1, DF CF, CIF, H0, H1, H'0, CI, C D, ln1, ln0, ln-1, lnG is folded at $\sqrt{10}$	Back scales: sh0, sh1, cu1, cu2, cu3 lq1 ⁻¹ , tg0ctg0, tg1ctg1
	Gauge Marks on scales: π is on C, D, and DF; v and s are on CI. (Variations exist with v, v1, and s on scale C)	Cursor Front and Back: has no marks. Back
32	FLYING FISH (China) No. 1004	25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
	Front scales: Th, Ch, K, A B, T&T, ST&ST, S&S, C D, DI, Sh2, Sh1	Back scales: LL01, LL02, LL03, DF CF, CIF, L, CI, C
	Gauge Marks on scales: π is on A, B, C, D, CF, and DF; $\pi/4$ is on A and B; v is on K. Cursor Front: Has KW at top middle; HP(**) is at right and $\pi/4$ left over the A & B scale	
33	FLYING FISH (China) No. 1009	25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
	Front scales: Sh1, Sh2, K, A B, T&T, ST, S&S, C D, DI, P, Th	Back scales: LL01, LL02, LL03, DF CF, CIF, L, CI, C
	Gauge Marks on scales: π is on A, B, C, D, and DF; $\pi/4$ is on A and B; v is on K. Cursor Front: Has KW at top middle; HP(**) is at right and $\pi/4$ on left over the A & B ;	
34	FLYING FISH (China) No. 1015 and 1015-1	25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
	Front scales: Sh1, Sh2, K, A B, T&T, ST, S&S, C D, DI, L, Th	Back scales: LL1I, LL2I, LL3I, DF CF, CIF, H, CI, C
	Gauge Marks on scales: π is on A, B, C, D, and DF. Cursor Front: $\pi/4$ on left and HP(**) on right over the A & B scales.	
35	FLYING FISH (China) No. 1018 Electricians slide rule	(See Shanghai China No. 1018) 25 cm.; Plastic; Cu
	Front Scales: 0°, R0, P, P Q, QI, L, I J, J', T, G0	Back Scales: lnL1, lnI0, lnI1, K1, A1 B1, tg0ctg0, sin0c
	Gauge Marks on scales: π is on A1, B1, C, and D; $\pi/4$ is on A1 and B1; 1° and R are on scales C and D; 1/R is on B1	Cursor Front: has no marks. Cursor Back: $\pi/4$

36a	FLYING FISH (China)	No. 1200 (Pocket Slide Rule)	12.5 cm.; Plastic; Cursor is not framed. Has fixed plastic e
	Front Scales: \ln_1, \ln_0, \ln_1 , DF CF, CIF, \sin, \cos, H_0, CI, C D, \ln_1, \ln_0, \ln_1 CF is folded at $\sqrt{10}$		Back scales: sh_0, sh_1, K, A B, $srt_1 \cos_1 ctg_1, tg_0 ctg_0, 1$
	Gauge Marks on scales: π is on A, B, C, D, and DF; R is on front C and D; v is on on K	Cursor Front: has KW at top middle and HP(**) at right, and $\pi/4$ on left over the A & B	
36b	FLYING FISH (China)	No. 6006 Electrical Engineering Slide Rule	196025cm.; Plastic; Cursor is framed. Adjustable metal bracket;
	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,
	Gauge Marks on scales: π is on A, B, C, D, and CI; $\pi/4$ is on A and B; C, $1^\circ, ' , ''$, C1, and R are on scales C and D. There appear to be other marks that are unknown.	Cursor	This slide rule was discovered on a Chinese Internet site. The pictures were clear enough to read the scales, but not clear enough to read all of the gauge marks on the scales and curs
37a	Gong Si He Ying (China)	No Number (Called Rose Wood Slide Rule)	25cm.; Plastic face on wood ; Cursor is not framed. Adjust
	Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: Sh1, Sh2, Th, A B, T&T, SRT, S&S D,
	Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The mark 1° is on scale SRT.		Cursor
37b	GRAPHOPLEX (France)	Neperlog Hyperbolic No. 691a	196226.45 cm.; Plastic; Cursor is not framed. Has fixed plastic
	Front scales: L, P, Ch, A B, $T < 45^\circ$ & $T < 45^\circ$, ST & ST, S & S, C D, Th, Sh2, Sh1		Back scales: LL01, LL02, LL03, DF CF, CIF, K, CI, C
	Gauge Marks on scales: π is on A, B, C, D, CF, DF, CI, CIF; $9^\circ, 9''$, ρ , and ρ'' are on scales C and D, both Front and Back.	Cursor Front: $\pi/4$ line is on left over the ,	Cursor Back: a mark on right over C and I
	Cursor Front and Back: There are two lines over all scales on far right and left for the conversion to HP(**) by using C and D scales.		
38	HAIYOU PAI (China)	No. 6531	25cm.; Plastic; Cursor is not framed. Adjustable metal brac
	Front scales: LL01, LL02, LL03, DF CF, CIF, L, CI, C D, LL3, LL2, LL1		Back scales: Th, K, A B, T&T, ST, S&S, C D, DI, SI
	Gauge Marks on scales: π is on A, B, C, D, CF, DF, CI, DI, and CIF.		
	Cursor Front: There is a mark on the right over the CF & DF scales for mutiplication of C and D by 36.	Cursor Back: Has marks HP(**) at right, and $\pi/4$ on left over the A and I	
39a	HAIYOU PAI (China)	No. 6631	
	Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor		
39b	HAIYOU PAI (China)	No. 6681 Haiou (Seagull)	25cm.; Plastic; Cursor is not framed. Has fixed plastic end
	Front scales: LL01, LL02, LL03, DF CF, CIF, H, CI, C D, LL3, LL2, LL1		Back scales: L, Sh1, Sh2, A B, T&T, ST, S&S, C I
	Gauge Marks on scales: π is on A, B, C, D, CF, DF, CI, and CIF; ' and '' are on ST.		
	Cursor Front: There is a mark on the right over the CF & DF scales for mutiplication of C and D by 36.	Cursor Back: Has marks HP(**) at right, and $\pi/4$ on left over the A and I	
40	HANGZHOU JIANG or HANGZHOU JIANG SHI YI XING (China)	No Number	See Jiang 25 cm.; Photo plastic face on wood; Cursor is not framed.
	This has same scales as JIANG 6171 (Pat. 129). Probably is same slide rule, but with different cursor. Cursor : Has t		
	▶ SEE THE NOTE AT END OF THIS LISTING REGARDING THE HEMMI SLIDE RULES.		
41	HEMMI (Japan)	Duplex Slide Rule No. 153 (For Electric Engineer)	1933-1966 25cm.; Plastic face on laminated wood ; Cursor is framed.
	Front scales: L, K, A B, CI, C D, T, G ₀ Note: This is the first slide rule sold with Gudermannian hyperbolic scales	Back Scales: θ, R_0, P Q, Q', C LL3, LL2, LL1	
	Gauge Marks on scales: $\pi, 2\pi$, and marks e, ρ', ρ'' , and ρ° are on front scales C and D. On back scales on far right of P is SIN, and on far right of Q is COS; e is on 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 ₀ scale is		
42	HEMMI (Japan)	Duplex Slide Rule No. 154 (For Advanced Electric Engineer)	1933-1966 50cm.; Plastic face on laminated wood ; Cursor is framed.
	Front Scales: DF, 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, χ
	Gauge Marks on scales: π and mark c are on back scales C and D. NOTE: Rule has two cursors. Early version has scale letters etched on cursor glasses.		
43	HEMMI (Japan)	Duplex Slide Rule No. 155 (For Advanced Electric Engineer)	1950 25cm.; Plastic face on laminated wood ; Cursor is framed.
	Front scales: K, A, DF CF, B, CI, C D, L	is folded at $\sqrt{10}$	Back scales: Sh1, Sh2, Th1 T11&T11, T12&T12, S11&S11
	Need complete information with listing of details of scales, gauge marks and cursor lines.		
44	HEMMI (Japan)	Duplex Slide Rule No. 255 (For Expert Electric Engineer)	1951-1958 25cm.; Plastic face on laminated wood ; Cursor is framed.
	Front scales: L, K, DF CF, CIF, CI, C D, X, θ NOTE: X is radians and θ is degrees.	Version 1	Back scales: Sh1, Sh2, Th, A B, T12, T11, SI, C D, LI
	Gauge Marks on scales: π is on CF and DF and $\pi/2$ is on X and SI; mark c is on back scale C.		
45	HEMMI (Japan)	Duplex Slide Rule No. 255 (For Expert Electric Engineer)	1958-1966 25cm.; 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
	Need complete information with listing of details of scales, gauge marks and cursor lines.		
46	HEMMI (Japan)	Duplex Slide Rule No. 255D (For Expert Electric Engineer)	1966+ 25cm.; Plastic face on laminated wood ; Cursor is framed.
	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 $\pi/2$ is on X; Mark c is on back scale C; e is on LL2 and LL3.		
47	HEMMI (Japan)	Duplex Slide Rule No. 275 (For Advanced Electric Engineer)	1951-1958 50cm.; Plastic face on laminated wood ; Cursor is framed.
	Front scales: L, K, DF CF, CIF, CI, C D, X, θ NOTE: X is radians and θ is degrees.	Version 1	Back scales: Sh1, Sh2, Th, A B, T12, T11, SI, C D, LI
	Gauge Marks on scales: π is on CF and DF and $\pi/2$ is on X and SI; mark c is on back scale C.		
48	HEMMI (Japan)	Duplex Slide Rule No. 275 (For Expert Electric Engineer)	1958-1966 50cm.; 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
	Need complete information with listing of details of scales, gauge marks and cursor lines.		
49	HEMMI (Japan)	Duplex Slide Rule No. 275D (For Advanced Electric Engineer)	1966+ 50cm.; Plastic face on laminated wood ; Cursor is framed.
	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 $\pi/2$ is on X; Mark c is on back scale C.		NOTE: Rule has two cursors.
50	HUA FANG (China)	No Number	Need complete information with listing of details of scales.
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: 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 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.		
52	KEUFFEL & 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, T11&T11
	Gauge Marks on scales: On Front Scales: π is on B, CF, and DF; $\pi/4$ is on B; marks ' and '', and R are on scales C and D.		Cursor
53	KEUFFEL & 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, T11&T11
	Gauge Marks on scales: On Front Scales: π is on B, CF, and DF; $\pi/4$ is on B; marks ' and '', and R are on scales C and D.		Cursor
54	KEUFFEL & ESSER (USA)	Log Log Duplex Vector No. 4083-3	1939-1946 10 in.; Plastic face on wood ; Cursor is framed. Adjustable

Front scales: L, LL1, DF CF, CIF, CI, C D, LL3, LL2		Back scales: LL0, LL00, A B, T&T, ST, S&S D, Th,
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.		Cursor
55 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. 4083-3 1947-1948		10 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: L, LL01, LL1, A B, T&T, ST, S&S D, T
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.		Cursor
56 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. N4083-3 1949-1952		10 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: L, LL01, LL1, A B, T&T, ST, S&S D, T
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.		Cursor
57 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. N4083-3 1953		10 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: Sh1, Sh2, Th, A B, T&T, ST, S&S D, I
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.		Cursor
58 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. 4083-3 1954-1954		10 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: Sh1, Sh2, Th, A B, T&T, ST, S&S D, I
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.		Cursor
59 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. 4083-3 1955-1961		10 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: Sh1, Sh2, Th, A B, T&T, SRT, S&S D,
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The mark 1° is on scale SRT.		Cursor
60 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. 68 1424 & 68 1429 (4083-3) 1962-1967	Identical rules with different color cases	10 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: Sh1, Sh2, Th, A B, T&T, SRT, S&S D,
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The mark 1° is on scale SRT.		Cursor
61 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. 4083-5 1939-1946		20 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: L, LL1, DF CF, CIF, CI, C D, LL3, LL2		Back scales: LL0, LL00, A B, T&T, ST, S&S D, Th,
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.		Cursor
62 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. 4083-5 1947-1948		20 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: L, LL01, LL1, A B, T&T, ST, S&S D, T
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.		Cursor
63 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. N4083-5 1949-1952		20 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: L, LL01, LL1, A B, T&T, ST, S&S D, T
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.		Cursor
64 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. N4083-5 1953		20 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: Sh1, Sh2, Th, A B, T&T, ST, S&S D, I
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.		Cursor
65 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. 4083-5 1954-1954		20 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: Sh1, Sh2, Th, A B, T&T, ST, S&S D, I
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.		Cursor
66 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. 4083-5 1955-1961		20 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: Sh1, Sh2, Th, A B, T&T, SRT, S&S D,
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The mark 1° is on scale SRT.		Cursor
67 KEUFFEL & ESSER (USA) Log Log Duplex Vector No. 68 1424 & 68 1429 (4083-5) 1962	Identical rules with different color cases	20 in.; Plastic face on wood ; Cursor is framed. Adjustable
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2		Back scales: Sh1, Sh2, Th, A B, T&T, SRT, S&S D,
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The mark 1° is on scale SRT.		Cursor
68 KEUFFEL & ESSER (USA) KELON (This 10 in. Rule was designed, but not produced) Information furnished by Joe Maskin from June 1999 art		Back scales: Constants, Sh1, Sh2, Th, A B, T1&T1, S1
Front scales: Ln-3, Ln-2, Ln-1, Ln-0, DF CF, CIF, L, CI, C D, Ln0, Ln1, Ln2, Ln3		Discussed at K&E for including on the KELON was more gauge marks, a magnifying lens built into the cursor, greater use of color on the scales, and using a folded scale at sqrt 10.
69 LAFAYETTE (USA / JAPAN San - AI Group) VECTORLOG No. F - 686		25 cm.; Plastic face on laminated wood ; Cursor is not fr
Front scales: Tr1, Tr2, P', P Q, ST, Sr, S0, C D, LL03 LL02, L01 Note: Sr is radians; S0 is degrees.		Back scales: Sh1, Sh2, DF, A B, CF, Th, CI, C D, LL
Gauge Marks on scales: π is on C, D, CF, and DF; C is on Cand D; (Variations exist with π and M on A & B; and C1 and ρ^0 on C&D)		Cursor
70 LAFAYETTE (USA / JAPAN San - AI Group) VECTORLOG No. 99-7102		25 cm.; Plastic face on laminated wood ; Cursor is not fr
Front scales: Tr1, Tr2, P', P Q, ST, Sr, S0, C D, LL03 LL02, L01 Note: Sr is radians; S0 is degrees.		Back scales: Sh1, Sh2, DF, A B, CF, Th, CI, C D, LL
Gauge Marks on scales: None on Front scales; On back π is on C, D, CF, and DF; C and ρ^0 are on C and D. (Other variations of gauge marks may exist).		Cursor
71a LAFAYETTE (USA / JAPAN San - AI Group) VECTORLOG No. 99-71029		Same as No. 99-7102 with slight variations of size of mark
71b LUTZ (JAPAN / USA) No. 300 B		25 cm.; Plastic face on laminated wood ; Cursor is not fr
Front scales: Sh1, Sh2, Th, A B, T&T, ST&ST, S&S, C D, DI, P, K		Back scales: LL1, LL2, LL3, DF CF, CIF, L, CI, C E
Gauge Marks on scales: π is on front C, D, CF, and DF; C and ρ^0 are on C and D front.		Cursor
72 MICRONTA (JAPAN) No. 157		25 cm.; Plastic face on laminated wood ; Cursor is not fr
Front scales: Sr, S0, P', P Q, CF, CI, C D, DF, LL2, LL3 Note: Sr is radians; S0 is degrees.		Back scales: Sh2, Sh1, A B, K, Th, C D, Tr1, Tr2, db
Gauge Marks on scales: π is on A, B, C, D, CF and DF; $\pi/4$ and M are on A and B; c and c1 are on C and D; e is on LL2 and LL3		Cursor
73 MICRONTA (JAPAN San - AI Group) No. 1157 Electric Vector		25 cm.; Plastic face on laminated wood ; Cursor is not fr
Front scales: Sr, S0 & S0', P', P Q, CF, CI, C D, DF, LL2, LL3 Note: Sr is radians; S0 is degrees.		Back scales: Sh2, Sh1, A B, K, Th, C D, Tr1, Tr2, db
Gauge Marks on scales: π is on A, B, C, and D; M is on A and B; C and C1 are on C and D.		Cursor
Cursor Back: has marks; KW at top middle ; HP(*) is at right on vertical line over A & B scales; $\pi/4$ is at a vertical line on left over the A & B scales, and $\sqrt{4/\pi}$ on the right over th		
74a NIKKEI (JAPAN Nippon Slide Rule Co.) NIKKEI 520 Duplex		Back scales: Sh1, Sh2, Th, A B, T, S, ST, C D, LL1, I
Front scales: L, K, DF CF, CIF, CI, C D, X, θ Note: X is radians; θ degrees		Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information with listing of details of scales, gauge marks and cursor lines.
74b Paper Slide Rule (CHINA) No Number and unknown Name		25 cm.; Paper face glued to wood ; Cursor is not framed; A
Front scales: L, LL1, DF CF, CIF, CI, C D, LL3, LL2 Very crudely made - scales are all black color		Back scales: LL0, LL00, A B, T, ST, S D, Th, Sh2, S
Gauge Marks on scales: π is on A, B, CF, and DF; $\pi/4$ is on A and B scales; The marks 1°, ' and " are on scale ST.		Cursor
75 PATRICK Corp/ (USA) MARK IV data log		10 in.; Plastic; Cursor is not framed. Adjustable Metal Br

<p>Front scales: K, odd $\sqrt{\quad}$, even $\sqrt{\quad}$, A B, T & T, ST, S & S, C D, DI, Th, Sh2, Sh1 </p> <p>Gauge Marks on scales: π is on A, B, C, D, CF, DF, CI and DI; π is shown as a ' mark on C, D, CI and DI. R is shown as a ' mark on CF, DF, and CIF;</p> <p>Gauge Marks on scales (Continued): e is shown as a ' mark on the front C and D, and on CIF; the ST scale shows 1° mark, and " and a second mark '.</p>		<p>Back scales: LL0 +, LL0 -, LL1 +, LL1 -, DF CF, CIF,</p>
Course		
▶ SEE THE NOTE AT END OF THIS LISTING REGARDING THE PICKETT SLIDE RULES.		
76	PICKETT & ECKEL (USA) Model 4 Deci - Log Log Vector Hyperbolic	25 cm.; White plastic film over Magnesium alloy, Cursor is
<p>Front scales: 1/N₁, 1/N₂, 1/N₃, 1/N₄, DF CF, Th, Sh, Sh, CI, C C₀ & D, N₁, N₂, N₃, N₄ </p> <p>Gauge Marks on scales: π is on C, D. Also on CF and DF on the front scales; marks 1° , " at 1.18, and ' at 1.97, are on ST.</p>		<p>Back scales: Three cubert scales $\sqrt[3]{\quad}$, DF CF, T&T, ST, S</p>
Course		
77	PICKETT & ECKEL (USA) Model No. 4 Vector Hyperbolic Log Log	25 cm.; White plastic film over Magnesium alloy, Cursor is
<p>Front scales: Three cubert scales $\sqrt[3]{\quad}$, DF CF, T&T, ST, S&S, CI, C D, DI, Two sqrt scales $\sqrt{\quad}$ </p> <p>Gauge Marks on scales: π is on C, D. Also, CF, DF on the front scales.; R is shown on front C and D; marks 1° , ' and " are on ST</p>		<p>Back scales: 1/N₁, 1/N₂, 1/N₃, 1/N₄, DF/M CF/M, Th, C</p>
Course		
78	PICKETT & ECKEL (USA) (Same rules with different colors) Model 4-T Dual-Base Log Log (Vector Hyperbolic) Model 4-ES Dual-Base Log Log (Vector Hyperbolic)	25 cm.; White plastic film over Aluminum, Cursor is not fr 25 cm.; Yellow plastic film over Aluminum, Cursor is not i
<p>Front scales: Three cubert scales $\sqrt[3]{\quad}$, DF CF, T&T, ST, S&S, CI, C D, DI, Two sqrt scales $\sqrt{\quad}$ </p> <p>Gauge Marks on scales: π is on C, D, CF,</p>		<p>Back: LL1&LL1, LL2&LL2, DF CF, Th, Sh&Sh, L, C</p>
Course		
79	PICKETT & ECKEL (USA) (Same rules with different colors) Model 4-T Dual-Base Log Log Reciprocal Scale (Vector Hyperbolic) Model 4-ES Dual-Base Log Log Reciprocal Scale (Vector Hyperbolic)	25 cm.; White film over Aluminum, Cursor 25 cm.; Yellow film over Aluminum, Cursor
<p>Front scales: Three cubert scales $\sqrt[3]{\quad}$, DF CF, T&T, ST, S&S, CI, C D, DI, Two sqrt scales $\sqrt{\quad}$ </p> <p>Gauge Marks on scales: π is on C, D, CF, DF, CF/M, DF/M, CI, DI, CIF; R and $\pi/4$ are on C & D; marks 1° , ' and " are on ST.</p>		<p>Back: LL1&LL1, LL2&LL2, DF/M CF/M, Th, Sh&Sh</p>
Course		
80	PICKETT & ECKEL (USA) (Same rules with different colors) Model N4-T Vector - Type LOG LOG Dual - Base Speed Rule Model N4-ES Vector - Type LOG LOG Dual - Base Speed Rule	25 cm.; White film over Aluminum, Cursor 25 cm.; Yellow film over Aluminum, Cursor
<p>Front: Three cubert scales $\sqrt[3]{\quad}$, DF CF, CIF, T&T, ST, S&S, CI, C D, DI, Two sqrt scales $\sqrt{\quad}$ </p> <p>Gauge Marks on scales: π, $\pi/4$, and R are on C, D, CF, DF, CF/M, DF/M, CI, DI, and CIF; e is on C and D; and marks 1° , ' and " are on ST.</p>		<p>Back: LL1&LL1, LL2&LL2, DF/M CF/M, Th, Sh&Sh</p>
Course		
81	PICKETT & ECKEL (USA) (Pocket version, same rules with different colors) Model N4p-T Vector - Type LOG LOG Dual - Base Speed Rule Model N4p-ES Vector - Type LOG LOG Dual - Base Speed Rule	12.5 cm.; White film over Aluminum, Curs 12.5 cm.; Yellow film over Aluminum, Cur
<p>Front: Three cubert scales $\sqrt[3]{\quad}$, DF CF, CIF, T&T, ST, S&S, CI, C D, DI, Two sqrt scales $\sqrt{\quad}$ </p> <p>Gauge Marks on scales: π, $\pi/4$, and R are on C, D, CF, DF, CF/M, DF/M, CI, DI, and CIF; e is on C and D; and marks 1° , ' and " are on ST.</p>		<p>Back: LL1&LL1, LL2&LL2, DF/M CF/M, Th, Sh&Sh</p>
Course		
82	PICKETT & ECKEL (USA) Model N16-ES ELECTRONIC LOG LOG Dual - Base Speed Rule	25 cm.; Yellow film over Aluminum, Cursor
<p>Front scales: SH1, SH2, TH, DF CF, L, S&S, ST, T&T, CI, C D, LL3, LL2, LL1, Ln </p> <p>Back scales (continued): Lr, db & db, COS Q & COS Q, t'C or C' (NOTE: Both the t'R' or X'c and the t'C or C' scales include numerous sub-scales for solving electronic calcul</p> <p>Gauge Marks on scales: π is on C, D, CF, DF, and CI; R, $\pi/4$, sqrt $\sqrt{\quad}$ of 2, and 1/sqrt $\sqrt{\quad}$ of 2, are on C & D scales; e is on LL2 and LL3; the marks ' and " are on ST.</p>		<p>Back: Θ & Θ, db & db, D or Q, X_L, Zs OR Xc C or L,</p>
Course		
83	PICKETT & ECKEL (USA) Model X-4 Vector - Type LOG LOG Dual - Base Speed Rule	25 cm.; Brown, with white slide piece, Cur
<p>Front: Three cubert scales $\sqrt[3]{\quad}$, DF CF, CIF, T&T, ST, S&S, CI, C D, DI, Two sqrt scales $\sqrt{\quad}$ </p> <p>Gauge Marks on scales: π, $\pi/4$, and R are on C, D, CF, DF, CF/M, DF/M, CI, DI, and CIF; e is on C and D; and marks 1° , ' and " are on ST.</p>		<p>Back scales: LL1&LL1, LL2&LL2, DF/M CF/M, Th, S</p>
Course		
84	POST (USA) Log Log Vector Model No. 1460 (Same as Hemmi 154)	
85a	POST (USA) Log Log Vector Model No. 1461 (Similar to Hemmi 153)	10 in.; Plastic face on laminated wood ; Cursor is frame
<p>Front scales: L, K, A B, CI, C D, T, G₀ Note: has Gudermannian hyperbolic scales.</p> <p>Gauge Marks on scales: π, $\pi/4$, and R, with marks C & C1, ' and ", are on front scales C and D; π, $\pi/4$, and M are on A and B scales; π is on CI. On back scales on far right of P is SIN</p>		<p>Back Scales: Θ, R₀, P Q, Q', C LL3, LL2, LL1 </p>
Course		
85b	PRECISION SCALE (USA)[1] Model 1751 Lo	25 cm.; White f
<p>Front scales: K, L, DIF, DF CF, CIF, Two sqrt scales $\sqrt{\quad}$ (odd & even), CI, C D, DI, TH, SH1, SH2 </p> <p>Gauge Marks on scales: π, $\pi/4$, and R are on C, D, CF, DF, CI, DI, and CIF; π & $\pi/4$ are on A and B; and marks 1° , ' and " are on ST.</p>		<p>Back scales: LL1, LL2, LL3, LL4, A B, S&S, ST&ST</p>
Course		
85c	PRECISION SCALE (USA)[2] Model 1752 Lo	25 cm.; White f
<p>Front scales: Sh1, Sh2, Th, A B, T&T, ST, S&S, CI, C D, DI, K, L </p> <p>Gauge Marks on scales: π, $\pi/4$, and R are on C, D, CF, DF, CI, DI, and CIF; π & $\pi/4$ are on A and B; and marks 1° , ' and " are on ST.</p>		<p>Back scales: LL/0, LL/1, LL/2, LL3, DF CF, CIF, Two</p>
Course		
85d	QUIFAN (CHINA) Rose Wood Slide Rule	Has no Model No. (QUIFAN Instrument Industrial Group).
Course		
86	REISS (East Germany) Duplex Model 3227	196625 cm.; Plastic; Cursor is not framed. Has fixed plastic en
<p>Front scales: LL₀₀, LL₀₁, LL₀₂, LL₀₃, DF CF, CIF, BI, CI, C D, LL3, LL2, LL1, LL0 </p> <p>Gauge Marks on scales: π is on A, C, D, DF, CF, CI, DI, and CIF; Q⁹ and Q⁰ are on the front scale DF, and back D scale; e is on LL₂ and LL₃</p>		<p>Back scales: K, T₁, T₂, DI, A Sh₁, Sh₂, Th, S_Z, C D, ;</p>
Course		
▶ SEE THE NOTE AT END OF THIS LISTING REGARDING THE RELAY / RICOH SLIDE RULES.		
87	RELAY (Japan San - Ai Group) No. 157	25 cm.; Plastic face on laminated wood ; Cursor not frame
<p>Front scales: Sr, S₀, P', P Q, CF, CI, C D, DF, LL₂, LL₃ </p> <p>Gauge Marks on scales: π is on A, B, C, D, CF, and DF; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A & B scales; e is on LL₂ and LL₃.</p>		<p>Back scales: Sh₂, Sh₁, A B, K, Th, C D, Tr1, Tr2, db</p>
Course		
88a	RELAY (Japan San - Ai Group) No. 158	25 cm.; Plastic face on laminated wood ; Cursor not frame
<p>Front scales: Sh₂, Sh₁, Th, A BI, S, T, CI, C D, DI, LL₃, LL₂, LL₁ </p> <p>Gauge Marks on scales: π is on A, C, and D; 2π is on C and D; C1 is on C and D; Marks f, ρ', ρ'' and ρ^0 are on C and D; $\pi/2$ is on Y; e is on LL₂ and LL₃.</p>		<p>Back Scales: X₂, X₁, P₂, P₁ Q, Y, L, L_X, I I, 1θ1δ</p>
Course		
88b	RELAY (Japan San - Ai Group) Model No. De 1008	Similar to No. 158 (see 1957 Catalog)
<p>Front scales: Sh₂, Sh₁, Th, A BI, S, T, CI, C D, DI, LL₃, LL₂, LL₁ </p> <p>Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor</p>		<p>Back Scales: X₂, X₁, P₂, P₁ Q, Y, L, L_X, I I, 1θ1δ</p>
Course		
89	RICOH (Japan San - Ai Group) No. 157	25 cm.; Plastic face on laminated wood ; Cursor not frame
<p>Front scales: Sr, S₀, P', P Q, CF, CI, C D, DF, LL₂, LL₃ </p> <p>Gauge Marks on scales: π is on A, B, C, D, CF, and DF; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A & B scales; e is on LL₂ and LL₃.</p>		<p>Back scales: Sh₂, Sh₁, A B, K, Th, C D, Tr1, Tr2, db</p>
Course		
90	RICOH (Japan San - Ai Group) No. 158	
<p>Front scales: Sh₂, Sh₁, Th, A BI, S, T, CI, C D, DI, LL₃, LL₂, LL₁ </p> <p>Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor</p>		<p>Back Scales: X₂, X₁, P₂, P₁ Q, Y, L, L_X, I I, 1θ1δ</p>
Course		
91	RICOH (Japan San - Ai Group) Model No. 159	Have manual copy from Scott Pawelka, but it does not hav
<p>Front scales: LL₋₁, LL₋₂, LL₋₃, A B, BI, CI, C D, LL₃, LL₂, LL₁ </p>		<p>Back scales: Sh₁, Sh₂, P₂, P₁ Q, Sr, S₀, Th, C D, T₂,</p>

Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor

92a	RUYI (Chinese Shanghai)	Model No. 1002	25 cm.; Plastic;
Front scales: Ln11, Ln21, Ln31, DF CF, CIF, H2, H3, CI, C D, Ln3, Ln2, Ln1		CF is folded at $\sqrt{10}$	Back scales: sh2, sh3, K, A B, $\sin 2\cos 2$, H'2, tg2ctg2
Gauge Marks on scales: π is on A, B, C, D, and DF; $\pi/4$ is on A and B; 1° and R are on C and D; v on K.			Cursor Front: Has KW at top middle; HP(**) is at right o
92b	RUYI (Chinese Shanghai)	Model No. 1009	
92c	RUYI (Chinese Shanghai)	Model No. 1015-1	25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
Front scales: LL1, LL2, LL3, DF CF, CIF, H, CI, C D, LL3, LL2, LL1		CF is folded at $\sqrt{10}$	Back scales: Sh1, Sh2, K, A B, T&T, ST, S&S, C D,
Gauge Marks on scales: π is on A, B, C, D, and DF.			Cursor Back: has marks HP(**) on right, and $\pi/4$ on left c
92d	RUYI (Chinese Shanghai)	Model No. 1083	25 cm.; Plastic; Cursor is framed. Adjustable metal bracket
Front scales: L, LL1, DF CF, CIF, CI, C D, LL3, LL2		CF and DF are folded at $\sqrt{10}$	Back scales: LL0, LL00, A B, T&T, ST, S&S D, Th,
Gauge Marks on scales: π is on A, B, CF and DF; marks 1° , ' and " are on ST.			Cursor
93	RUYI (Chinese Shanghai)	Model No. 6201	Seems to be the same as SIDA Model 6201
Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor			
94	SCIENTIFIC INSTRUMENT COMPANY (SIC) (USA)	Electro-Vector Log-Log 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, LL2, LL3			Back scales: Sh2, Sh1, A B, K, Th, C D, Tr1, Tr2, db
Gauge Marks on scales: π is on A, B, C, D, CF, and DF; M is on A and B; C and C1 are on C and D; $\pi/4$ is on the A & B scales; e is on LL2 and LL3.			Cursor Front and
95	SCIENTIFIC INSTRUMENT COMPANY (SIC) (USA)	Vector Log-Log No. 1580	25 cm.; Plastic face on laminated wood ; Cursor not framed
Front scales: Sh2, Sh1, Th, A BI, S&S, T&T, CI, C D, DI, LL3, LL2, LL1			Back Scales: X2, X1, P2, P1 Q, Y, L, LX, I I, L01&
Gauge Marks on scales: π is on A, C, and D; 2π is on C and D; C1 is on C and D; Marks f , ρ' , ρ'' and ρ^0 are on C and D; $\pi/2$ is on Y; e is on LL2 and LL3; to the far left of the LL			Cursor Front and Back: has no gauge marks; however the scale names are imprinted on the cursor on the left hand of each side, and each of the ranges of the S, T, CI, LL1, LL2, a
96a	SHANGHAI (China)	Model No. 1002	There is no name on this slide rule, only the number 1002. Seems to be the sa
96b	SHANGHAI (China)	Electricians Slide Rule No. 1018	Source: Hopp page 218. Same as Flying Fis
97	SHANGHAI (China)	Model No. 5891	This has same scales as K&E 4083-3 (1955 Model) See li
Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor			
98	SIDA (China)	Model No. 1	Source: Hopp page 218 25 cm.; Plastic, Cursor is not framed. Adjustable metal bra
Front scales: L, LL1, DF CF, CIF, CI, C D, LL3, LL2			Back scales: LL0, LL00, A B, T&T, ST, S&S D, Th,
Need complete information with listing of details of scales, gauge marks and cursor lines.			
99	SIDA (China)	Model No. 1002	25 cm.; Plastic, Cursor is not framed. Adjustable metal bra
Front scales: Ln11, Ln21, Ln31, DF CF, CIF, H2, H3, CI, C D, Ln3, Ln2, Ln1		CF is folded at $\sqrt{10}$	Back scales: sh2, sh3, K, A B, $\sin 2\cos 2$, H'2, tg2ctg2
Gauge Marks on scales: π is on A, B, C, D, and DF. Marks 1° and R are on back scales 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	
Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor			
101	SIDA (China)	Model No. 1015	25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
Front scales: LL1, LL2, LL3, DF CF, CIF, H, CI, C D, LL3, LL2, LL1		CF is folded at $\sqrt{10}$	Back scales: Sh2, Sh1, K, A B, T&T, ST, S&S, C D,
Gauge Marks on scales: π is on A, B, C, D, and DF.			Cursor
102	SIDA (China)	Model No. 1015 - 1	25 cm.; Plastic; Cursor is not framed. Has fixed plastic en
Front scales: LL1, LL2, LL3, DF CF, CIF, H, CI, C D, LL3, LL2, LL1		CF is folded at $\sqrt{10}$	Back scales: Sh2, Sh1, K, A B, T&T, ST, S&S, C D,
Gauge Marks on scales: π is on A, B, C, D, and DF.			Cursor Front: no lines. Cursor Back: has
103a	SIDA (China)	Model No. 1083	25 cm.; Plastic face on laminated wood; Cursor is framed.
Front scales: L, LL1, DF CF, CIF, CI, C D, LL3, LL2			Back scales: LL0, LL00, A B, T&T, ST, S&S D, Th,
Gauge Marks on scales: π is on A, B, CF and DF; $\pi/4$ is on A & B; marks 1° , ' and " are on ST.			Cursor
103b	SIDA (China)	Model No. 5810	25 cm; Plastic face on wood ;Cursor is not framed; Adjust
Front scales: LL11, LL21, LL31, DF CF, CIF, H, CI, C D, LL3, LL2, LL1		CF and DF are folded at $\sqrt{10}$	Back scales: Th, L, K, A B, S&S, H', T&T, C D, DI,
Gauge Marks on scales: π is on A, B, C, D, and DF; 1° and R are on A, B, and C.			Cursor
104	SIDA (China)	Model No. 6171	25 cm.; Plastic; Cursor is not framed. Adjustable metal bra
Front scales: Ln11, Ln21, Ln31, DF CF, CIF, H2, H3, CI, C D, Ln3, Ln2, Ln1		CF is folded at $\sqrt{10}$	Back scales: sh2, sh3, K, A B, $\sin 2\cos 2$, H'2, tg2ctg2
Gauge Marks on scales: π is on A, B, C, D, and DF; 1° and R are on C&D.			Similar to SIDA 1002. Cursor Front: has HP(**) lin
105	SIDA (China)	Model No. 6201	25 cm.; Plastic on laminated wood; Cursor is framed. Adju
Front scales: L, K, A B, T&T, ST, S&S, C D, Sh2, Sh1, Th			Back scales: LL01, LL02, LL03, DF CF, CIF, CI, C :
Gauge Marks on scales: π is on A, B, C, D, CI, CF and DF; $\pi/4$ is on A & B; c is on C; marks 1° , ' and " are on ST			Cursor
▶ SUN (Japan) (for Cross Reference See HEMMI)			
106	U. S. BLUEPRINT (USA/HEMMI)	No. 1893 Duplex Slide Rule (For Electric Engineer)	Note: Has Gudermannian scales Same as Hemmi 1
107	XUESH (China)	6171 bachelor	
Do not have a picture or manual for this slide rule. Hopp does not list it. Need complete information: listing of details of dimensions, physical appearance, scales, gauge marks, cursor			
108	XUESH (China)	6171	25 cm.; Plastic on laminated wood; Cursor is not framed. A
Front scales: lgn11, lgn21, lgn31, DF CF, CIF, H1, H2, CI, C D, lgn3, lgn2, lgn1		CF is folded at $\sqrt{10}$	Back scales: sh1, sh2, K, A B, \sin & \sin , H1 tg1&tg1,
Gauge Marks on scales: π is on A, B, C, D, and DF; $\pi/4$ is on A&B; 1° and R are on front C&D; v is on K; CF and DF are folded at $\sqrt{10}$ on right side.			Cursor
109	XUESHI (China)	1572-K3 (Maybe XUESH, see above)	25 cm.; Plastic on laminated wood; Cursor is framed. Adju
Front scales: LL02, LL03, DF CF, CIF, CI, C D, LL3, LL2			Back scales: Sh1, Sh2, Th, A B, T, SRT, S D, DI, LI
Gauge Marks on scales: π is on CF and DF.			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 v 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 π , 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 ρ' or $\rho = 180/\pi = 57.2958^\circ$ (the degrees in one radian)

$M = 1 / \pi = 0.3183$, or $100 / \pi = 31.83$

C or $C' = 4/\pi = 1.273$

c or $C = (\sqrt{4/\pi}) = 1.128$

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

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 ρ' or ρ' or δ' or ζ' or Q' = minutes in a radian $= 3437.74 = (180 \times 60)/\pi$

If the mark ' is 1.970, it is $= 206,265 * (180/\pi) / 60 = 1.97 * 10^5$ When

" or ρ'' or ρ'' or δ'' or ζ'' or Q'' = seconds in a radian $= 206,265 = (180 \times 60 \times 60)/\pi$

If the mark " is 1.182, it is $= 206,265 * (180/\pi) = 1.182 * 10^7$; When

ρ' or $\delta 2$ or $\zeta 2$ or $Q 2$ = seconds in a radian (French decimal system 400) $= 636,620 = (200 \times 100 \times 100)/\pi$

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 $1.341 \text{ times } 10^{-10} = HP(*)$.

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 slide 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 conti

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 João 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.

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

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

▶ 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 period 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 is 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 hyperbolic scales it did have marks 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 unfortunately 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 Frankfurt 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 articles which are 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 the 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 *SHANGHAI*. 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 been cleared by a 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 they 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 various 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 listing 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 informat

▶ 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 Babcock slide rule model numbers and the years they were listed in the catalogs. From 1897 to 1972.

▶ 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 slides. 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 added 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 taken. 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 picked 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 redesignated were then combined into four scales so that they were shown together on one scale. Also, the eight N scales were all redesignated as LL scales. The eight LL scales (+ After these changes, other modifications were the addition of a L scale, and then later a Ln scale was added. Other hard to follow changes were additions at times to the 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 seen. 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, in the other brands have a model 159. If someone knows of other 159 models, please let me know.

[\[1\]](#)

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