

A.W. FABER-CASTELL SLIDE RULE FEATURES 1892-1920

		Approximate Change Point																																			
STOCK & SLIDE		1892	1892-3	1893-5	1895	1896-9	1898-9	1899	1900	1900-3	1901	1901-3	1903	1903-4	1904	1904-5	1905	1905-6	1906	1906-7	1907	1907-8	1908	1908-9	1908-13	1909	1910	1910-11	1910-12	1910-13	1911	1912	1912-13	1913	1914	1914-20	
Length	15 cm																																				
	26 cm																																				
	26.4 cm																																				
	28 cm																																				
	28.5 cm																																				
	29.5 cm																																				
	53.5 cm																																				
Stock construction (a)	Single piece, solid																																				
	Single piece with 2 longitudinal slits in well																																				
	Two piece, celluloid sprung																																				
	Two piece, steel sprung																																				
Back of stock	Flat back (no rebate and tables)																																				
	Rebated with paper tables																																				
Bottom edge of stock	Bevelled																																				
	Perpendicular																																				
Cursor grooves (b)	Split both edge rulers																																				
	Above top edge ruler but split bottom edge ruler																																				
	Above both top & bottom edge rulers																																				
	Angled into stock at front/top edge join																																				
	Angled into stock at front/bottom edge join																																				
Slide Thumb Notch	Right end of front																																				
Slide runner	At bottom of slide edge																																				
	In centre of slide edge																																				
Slots in back of stock to index back of slide	Right end (sin & log scales)																																				
	Left end (tan scales)																																				
Celluloid facings	Front, well & front & back of slide																																				
	Top & bottom edges																																				
Boxwood springs to tension slide	Upper stock rail, below slide groove																																				
	Upper stock rail, in slide groove																																				
Slide index end (c)	Chisel index for well scales																																				
Wooden fixing pins for celluloid	Stock																																				
	Slide																																				
Metal inserts	Longitudinal in stock & slide																																				

SCALES		1892	1892-3	1893-5	1895	1896-9	1898-9	1899	1900	1900-3	1901	1901-3	1903	1903-4	1904	1904-5	1905	1905-6	1906	1906-7	1907	1907-8	1908	1908-9	1908-13	1909	1910	1910-11	1910-12	1910-13	1911	1912	1912-13	1913	1914	1914-20	
Scale length	15 cm																					369											369, 379				
	25 cm																																				
	25.2 cm (approx.)																																				
	50 cm																																				
Format of Mannheim scales (aa)	Plain (no railway tracks)																																				
	Unequal double railway track																																				
	Double railway track																																				
	Single railway track																																				
Marking method (d)	Hand printed scales																																				
	Template printed scales																																				
	Lightly incised scales																																				
	Deeply incised scales																																				
Rulers on edges	Top edge, not to ends of stock																																				
	Bottom edge not to ends of stock																																				
	Bottom edge to ends of stock																																				
Centimetre extension scale	On back of slide																																				
	In well																																				
Inch/centimetre conversion scale (bb)	On back of stock																																				
	On back of stock aligned to right slot index																																				
Ticks on Mannheim scales (e)	On A & B only																																				
	On A, B, C & D																																				
SLT scales	On back of slide																																				
M gauge mark (cc)	Script M (with long tail) on B only																																				
	Script M (with long tail) on A & B																																				
	Serif M on A & B																																				
	Sans-serif M on A & B																																				
c & c1 gauge marks	On D as well as C																																				
Electro scales	"Dynamo"/"Motor" & "Volt" scales in well																																				
Electro gauge marks	Metric (287 & 736 on A & B scales)																																				
	Imperial (287 & 746 on A & B scales)																																				
	Unlabelled on non-electro rules																																				
Log-log index marks	2.9 on left & right ends of D																																				
	W on right end of C																																				
System Pickworth	Cube scale and window on back of stock																																				
System Schumacher	Non-logarithmic scales and indexes																																				

TEXT & LABELS		1892	1892-3	1893-5	1895	1896-9	1898-9	1899	1900	1900-3	1901	1901-3	1903	1903-4	1904	1904-5	1905	1905-6	1906	1906-7	1907	1907-8	1908	1908-9	1908-13	1909	1910	1910-11	1910-12	1910-13	1911	1912	1912-13	1913	1914	1914-20					
Brand name	'A.W. Faber'																																								
	'A.W. Faber "Castell"'																																								
Brand typeface	Gold serif									non-English								non-English all-wood & 50 cm scale													non-English all-wood										
	Gold sans-serif								English								English all-wood & 50 cm scale													English all-wood											
	Black sans-serif																not all-wood or 50 cm scale													not all-wood											
Numbers on scale subdivisions (f)	Decimal notation									350, 355, 360, 361, 363, 365																	350, 355, 361, 363				17.		18.								
	Displaced 1.5/15 on A & B scales																																								
Scale numbering typeface (aa)	Style A													all-wood																											
	Style B												not all-wood				all-wood																								
	Style C													not all-wood																											
Scale numbering marking (g)	Hand printed																																								
	Template printed																																								
Origin ('MADE IN...')	English language rules																																								
	Non-English/non-German language rules																																								
Quotient/Product ± on lower stock ends	'QUOTIENT +1' & 'PRODUCT -1'						363, 367								19.										354, 357				20.												
	'Quot.+1' & 'Prod.-1'																50 cm scale & 363, 364, 367, 368, 374, 377				21.		22.	23.				24.		25.											
Arrow ± symbols (aa)	On left & right upper stock ends												363, 367				26.		27.								28.				363		29.								
Model number	3-digit, followed by '*' before brand																																								
'DRGM 98350' (1898)	Boxwood springs in well for slide																																								
'DRGM 116832' (1899)	Digit registering cursor																																								
'DRGM 427514' (1905)	Slide end index edge for well scales																368, 378, 379																								
'DRGM 271169' (1906)	Cursor with hook index for edge scales																368																								
'DRGM 371190' (1908)	Wood fixing pins for celluloid																						not all-wood																		
'DRP 206428' (1908)	Longitudinal metal inserts																						not all-wood or 12.5 cm scale																		
'DRGM 344576' (1908)	System Schumacher																						366																		
'DRGM 371189' (1908)	System Pickworth																						374, 377																		
'DRP 215722' (1909)	System Pickworth																								374, 377																
Back label style (bb)	Style 1 (German)			German																																					
	Style 2 (German)				German																																				
	Style 3 (German)						German, not 368, 369, 378, 379																																		
	Style 4 (English)				English																																				
	Style 5 (English)					English, not 368, 369, 378, 379																																			
	Style 6 (French)				French, not 368, 369, 378, 379																																				
	Style 7 (English electro), 8 (Non-English electro)																	368, 378																							
Back advertising label (bb)	Paper																						369												369						
	Celluloid																																			369					
Back label text style (dd)	Style A			German																																					
	Style B				Non-German																																				

[illegible]

Formatting:  Generic  Specific  Not known  Crossover  Overlap in change points

Additional model and type notes

1. 354, 355, 357, 363, 364, 367
2. 354, 355, 357, 363, 364, 365, 367, 368, 374, 377, 378
3. 354, 355, 357, 363, 364, 365, 367, 374, 377, 378
4. not 12.5 cm scale or 366
5. 12.5 cm scale & 366
6. not 361, 368
7. not 361
8. non-German
9. 364, 367
10. not all-wood or 12.5 or 50 cm scale or 361, 366
11. not 12.5 or 50 cm scale or 366
12. all-wood
13. not all-wood or 12.5 or 50 cm scale or 366
14. not all-wood or 12.5cm scale or 361, 366
15. not all-wood or 12.5 or 50 cm scales or 361, 366, 368
16. 367, 377, 380
17. 350, 355, 360, 361, 363
18. 350, 355, 361, 363
19. 363, 364, 367
20. 354, 357
21. 50 cm scale & 363, 364, 365, 367, 368, 374, 377
22. 50 cm scale & 363, 364, 365, 367, 374, 377, 378
23. 50 cm scale & 363, 364, 367, 374, 377, 378
24. 50 cm scale & 360, 363, 364, 367, 374, 377, 378
25. 50 cm scale & 354, 357, 360, 363, 364, 367, 374, 377, 378
26. 354, 357, 363, 364, 367, 368, 374, 377, 380
27. 354, 357, 364, 367, 368, 374, 377, 380
28. 354, 357, 363, 364, 367, 374, 377, 380
29. 354, 357, 364, 367, 374, 377, 380
- * 369 possible flat or rebate back

Model number identification c1892-1908 (before printed on slide rule)

Not faced	<28 cm stock				350			
	28 cm stock	Normal cursor			354			
		Digit registering cursor			357			
		Caliper cursor			358			
	50 cm scale				370			
Celluloid faced	15.5 cm scale				369			
	26 cm stock	No slide springs			360			
		Slide springs			365			
	28-29 cm stock	Scale on back of stock	Normal cursor			374		
			Digit registering cursor			377		
		No scale on back of stock	Numbers with decimal point	No SLT scales		361		
				SLT scales		363		
			Numbers without decimal point	No scales on back of slide			366	
				Scales on back of slide	Log-log scales on edge		368	
					No log-log scales on edge	Normal cursor		364
						Digit registering cursor		367
	50 cm scales				380			

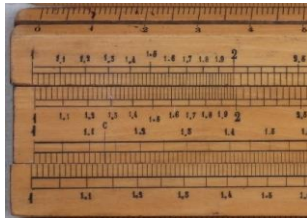
Feature notes

- (a) All stocks in this timeframe were made from wood. Initially the two stock rails and well were formed from one solid piece. Two longitudinal slits were introduced into the well that usually penetrate both the solid wooden stock (which may be covered on the back with a paper label) and the celluloid facing in the well (if present), occasionally they are only in the wood. A two piece celluloid sprung stock is distinguished by an end-to-end longitudinal split in the wood of the well of the stock with no corresponding split in the celluloid facing in the well. A steel sprung stock is distinguished by an end-to-end longitudinal split in both the wood and the celluloid facing (if present) of the well.
- (b) Cursor grooves will either: split an edge ruler (numbers above groove and divisions below) and be perpendicular to the edge face; be entirely above a ruler and parallel to the top face of the rule; be angled into the stock at the join of the top and edge faces.
- (c) Slide is slightly shorter than stock with an aluminium index edge for reading the scales in the well.
- (d) Hand printed scales are smooth on the face of the rule and exhibit random marking differences from being drawn from a pattern. Template printed scales are also smooth, but differences are consistent. Lightly incised scales show a faint texture when a fingernail is drawn across the marks. Deeply incised scales show an obvious texture when a fingernail is drawn across the marks.
- (e) Ticks are the small extensions to the division marks which extend beyond the railway track lines. See also (aa).
- (f) Identification numbers of the subdivisions on the Mannheim scales between the major divisions of 1, 2, 3 etc. are either Decimal notation (eg 1.2, 1.2, 1.3 etc) or Non-decimal notation (eg 1, 2, 3 etc.). In the decimal notation the 1.5 and 15 numbers were initially displaced on the A and B scales compared to the rest of the subdivision numbers. See also (aa).
- (g) Identification numbers for the divisions on the Mannheim scales were initially printed by hand one digit at a time and consequently show some variation in the alignment of the digits. Subsequently the numbers were printed using a template giving a more uniformly aligned appearance. See also (aa).
- (h) Nickel plated brass and nickel silver cursors are heavy and shiny (if the plating has not worn off) compared to aluminium cursors. Worn plated cursors will show an underlying brass colour. Plated cursors are slightly magnetic, nickel silver cursors are not.

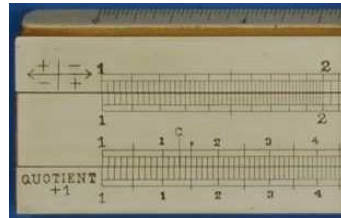
(aa) Scale formats



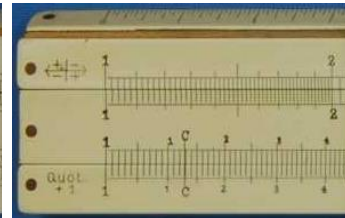
Plain scales, decimal notation, hand printed numbers typeface A, displaced 1.5



Unequal double line railway track scales, no ticks, decimal notation, hand printed numbers typeface A, displaced 1.5



Double line railway track scales, ticks, non-decimal notation, template printed numbers typeface B, arrow ± symbols



Single line railway track scales, ticks, non-decimal notation, template printed numbers typeface C, arrow ± symbols

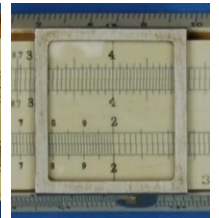
(ee) Cursor examples



Nickel plated brass, chisels, 2 mm adjusting screws, rounded window, no spring

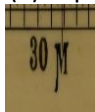


Aluminium, digit registering with 2 domed rivets, rounded window, centre riveted spring



Aluminium, hook index, square cut window, centre riveted spring

(cc) Script M gauge mark



(dd) Slide rule back label text style

A. With tails		B. Without tails	
7,8	0,128 0,163	7,8	0,128 0,163
7,2	0,139 0,177	7,2	0,139 0,177
11,4	0,088 0,112	11,4	0,088 0,112
8,5	0,118 0,150	8,5	0,118 0,150

(ff) Box profile and model label



Square box, label with no



Square box, label with



Flat box with rounded



Oval box, label with solid border

[illegible][illegible]

1. Bak.	2. Bak.	3. Bak.	4. Bak.	5. Bak.	6. Bak.	7. Bak.	8. Bak.	9. Bak.	10. Bak.	11. Bak.	12. Bak.	13. Bak.	14. Bak.	15. Bak.	16. Bak.	17. Bak.	18. Bak.	19. Bak.	20. Bak.	21. Bak.	22. Bak.	23. Bak.	24. Bak.	25. Bak.	26. Bak.	27. Bak.	28. Bak.	29. Bak.	30. Bak.	31. Bak.	32. Bak.	33. Bak.	34. Bak.	35. Bak.	36. Bak.	37. Bak.	38. Bak.	39. Bak.	40. Bak.	41. Bak.	42. Bak.	43. Bak.	44. Bak.	45. Bak.	46. Bak.	47. Bak.	48. Bak.	49. Bak.	50. Bak.	51. Bak.	52. Bak.	53. Bak.	54. Bak.	55. Bak.	56. Bak.	57. Bak.	58. Bak.	59. Bak.	60. Bak.	61. Bak.	62. Bak.	63. Bak.	64. Bak.	65. Bak.	66. Bak.	67. Bak.	68. Bak.	69. Bak.	70. Bak.	71. Bak.	72. Bak.	73. Bak.	74. Bak.	75. Bak.	76. Bak.	77. Bak.	78. Bak.	79. Bak.	80. Bak.	81. Bak.	82. Bak.	83. Bak.	84. Bak.	85. Bak.	86. Bak.	87. Bak.	88. Bak.	89. Bak.	90. Bak.	91. Bak.	92. Bak.	93. Bak.	94. Bak.	95. Bak.	96. Bak.	97. Bak.	98. Bak.	99. Bak.	100. Bak.
1. Bak.	2. Bak.	3. Bak.	4. Bak.	5. Bak.	6. Bak.	7. Bak.	8. Bak.	9. Bak.	10. Bak.	11. Bak.	12. Bak.	13. Bak.	14. Bak.	15. Bak.	16. Bak.	17. Bak.	18. Bak.	19. Bak.	20. Bak.	21. Bak.	22. Bak.	23. Bak.	24. Bak.	25. Bak.	26. Bak.	27. Bak.	28. Bak.	29. Bak.	30. Bak.	31. Bak.	32. Bak.	33. Bak.	34. Bak.	35. Bak.	36. Bak.	37. Bak.	38. Bak.	39. Bak.	40. Bak.	41. Bak.	42. Bak.	43. Bak.	44. Bak.	45. Bak.	46. Bak.	47. Bak.	48. Bak.	49. Bak.	50. Bak.	51. Bak.	52. Bak.	53. Bak.	54. Bak.	55. Bak.	56. Bak.	57. Bak.	58. Bak.	59. Bak.	60. Bak.	61. Bak.	62. Bak.	63. Bak.	64. Bak.	65. Bak.	66. Bak.	67. Bak.	68. Bak.	69. Bak.	70. Bak.	71. Bak.	72. Bak.	73. Bak.	74. Bak.	75. Bak.	76. Bak.	77. Bak.	78. Bak.	79. Bak.	80. Bak.	81. Bak.	82. Bak.	83. Bak.	84. Bak.	85. Bak.	86. Bak.	87. Bak.	88. Bak.	89. Bak.	90. Bak.	91. Bak.	92. Bak.	93. Bak.	94. Bak.	95. Bak.	96. Bak.	97. Bak.	98. Bak.	99. Bak.	100. Bak.

[illegible][illegible][illegible]

W	0.010	0.0133 metre	Nat on trap log - flow log = 2.0358	Wt iron	0.977	480	313	Wt moly	0.000	0.000	Pb, bal. water = 0.0298
W	0.010	0.0133 kilometre	14000 23.18 m	Wt iron	0.977	480	312	Cat	10.000	0.000	Gal. = 0.0298 m. = 39.164 m
W	0.010	0.0133 metre	Wt. temp. = 64.1 °C + 64 °C x 274	Cu	0.000	0.000	0.000	Wt. iron	0.000	0.000	Gal. = 0.0298 m. = 39.164 m
W	0.010	0.0133 metre	Cu = 0.000 °C - 273 = 60.1 °C	Copper	0.018	520	282	Copper	21.000	0.000	Li, per cent = 16.0000, per cent moly
W	0.010	0.0133 metre	Cat. = 0.000 °C - 273 = 60.1 °C	Copper	0.018	520	282	Copper	21.000	0.000	Li, per cent = 16.0000, per cent moly
W	0.010	0.0133 metre	petrol = 20.000 m. per cu. ft. = 70	Alum	0.011	100	593	Alum	11.000	0.000	Li, per cent = 16.0000, per cent moly
W	0.010	0.0133 metre	Sp. heat - Wt. iron, 0.0133 °C x 1.2294	Alum	0.011	100	593	Alum	11.000	0.000	Li, per cent = 16.0000, per cent moly
W	0.010	0.0133 metre	copper, heat, 0.005, heat, 0.014	Alum	0.011	100	593	Alum	11.000	0.000	Li, per cent = 16.0000, per cent moly

[illegible]

A wooden ruler with a red box highlighting the first 10 centimeters. The ruler has markings every millimeter and labels every centimeter. The red box is placed over the first 10 cm, from the 0 mark to the 10 mark.

SPEZ.: AUTOMATISCHE KESSELFEBERUNGEN D.R.P.

EIGENE ZWEIFBUREAUX: BEUTHEN, DÜSSELDORF, MANNHEIM, PRAG II, WIEN I.
VERTRETEN IN ALLEN INDUSTRIESTAATEN

FERNAPF: 272. TEL. ADP.: SEYBOTHFEUERUNG, ZWICKAUSACHSEN

The image displays three views of the reverse side of a vintage A.W. Faber 'Rechenstab' (calculating rule). The left view shows the full text 'A.W. FABER'S CALCULATING RULE LONDON' in a decorative, stylized font, with 'MADE IN SWITZERLAND' printed in smaller letters below. The middle view shows the text 'Rechenstab VON A.W. FABER.' in a simple, sans-serif font. The right view shows 'A.W. FABER.' in a bold, sans-serif font, with 'MADE IN SWITZERLAND' printed in smaller letters below.

A. English (gold on black)
 VISITING CARDS
 LETTERS
 LEAD AND COLOURED PENCILS
 ARTIST'S COLOURS, IN Cakes or Tubes
 CHALKS, CRAYONS, STUMPS, &c.
 INDIA INK, &c. &c. &c.
 INDELIBLE COLOURED INKS
 FINED, RED, OR LIME RUBBER
 MATHEMATICAL INSTRUMENTS, PORTCRAYONS, &c.

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PASTEL CRAYONS, Stumps, etc.
INDIAN INK, Solid or Liquid.
INDELIBLE COLOURED INKS.
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MATHEMATICAL INSTRUMENTS, PORTCRAYONS
 etc.

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[illegible]

SLIDE RULES
Instruments of precision
with 1000 scales and 1000 divisions
grip of the slide.

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