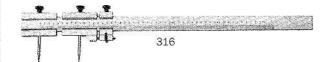
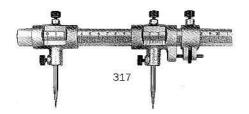
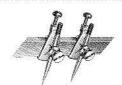
609



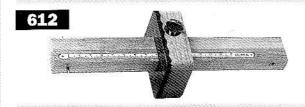


610

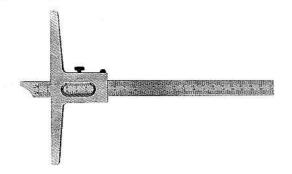








613



Remark: Do not reverse the measuring bar as the verniers for the front and back graduations would otherwise not correspond.

Beam compass

1) No. 316 flat beam, of stainless steel, with mm-graduation and micrometer slide and locking screw, replaceable steel points, 1/10 mm vernier

Measuring range	Beam cross section	Item No.	Item No. of a pair of spare points	
500 mm	25 x 6 mm	609.2201	609.2210	
1000 mm	25 x 6 mm	609,2202		

2) No. 317 round beam of special steel with malleable iron slider, withor without fine setting, replaceable steel points, measuring rod steel tube with guide groove and mm-graduation, 1/10 mm vernier

Measuring range	Beam cross section	Item No.				
	dia.	without fine setting	with fine setting	Pair of spare points		
500 mm	20 mm	609.1001	609.1101	20 60		
1000 mm	20 mm	609.1002	609.1102	600 1010		
1500 mm	20 mm	609.1003	609.1103	609.1010		
2000 mm	20 mm	609.1004	609.1104]		
3000 mm	28 mm	609.1005	609.1105	609.1012		
4000 mm	28 mm	609.1006	609.1106	009.1012		

The beam can also be equipped with shrinkage graduation upon request.

Compass points 'E' Item No. 610.001

with hardened and ground points, without wooden beam, for dia. 20 to 40 mm, points can be set vertically and at 45°.

These points can also be used for gauging on two different levels.

Scratch gauges

1) No. 319 of special steel, with round bar, guide proove and mm-graduation, 1/10 mm vernier, slider of malleable iron, with or without micrometer adjustment, with back stop and locking screw, scriber hardened and replaceable.

Measuring range	Bar dia mm	Item No.				
mm		without microadj.	with microadj.	Spare needle		
200	11	611.001	611.101	611.010		
300	11	611.002	611.102			
400	11	611.003	611.103			
500	11	611.004	611.104]		

2) No. 322 with roller

of stainless steel, slider with locking screw, hardened roller as back stop, lightweight and handy design, measuring beam hardened with mm-graduation, scriber of hardened steel is replaceable

Measuring range	Vernier	Item No.	Spare scriber
200 mm	bottom 1/10 mm	611.501	611.521
	top 1/128"	611.501 611	

'ULMIA' - Scratch gauges of white beech wood

with embedded white graduation and lockable marking tips

Measuring range	Head size	Total length mm	Item No.		
mm	I x b mm		without curve stop	with curve stop	
150	66 x 50	220	612.001	612.002	

Pattern maker's depth gauges No. 040 of stainless steel or dull chrome-plated stainless steel,

accuracy in accordance with DIN 862 open slider front, back of slider, with oval vernier bezel, milled of a solid piece, measuring faces hardened, 1/20 mm vernier.

Design			Stainless	steel	Dull chron	ne-plated	
	Meas	suring		30000000000	Measuri	ng range	
fr	ont	ba	ick	300 mm	500 mm	300 mm	500 mm
top	bottom	top	bottom	Item No.			
1,0 %	mm	1,5 %	2,0 %	613.001	613.003	613.101	613.103
1,0 %	mm	1,25 %	2,0 %	613.002	613.004	613.102	613,104

Other shrinkage graduations upon request!

Measuring ranges and spare parts

	Crossbar	Bar cross	item No.	
Measuring range	length	section	locking screw	brass spring
300 mm	160 mm	17 x 4 mm	613.201	613.301
500 mm	160 mm	17 x 4 mm	613.202	613.302