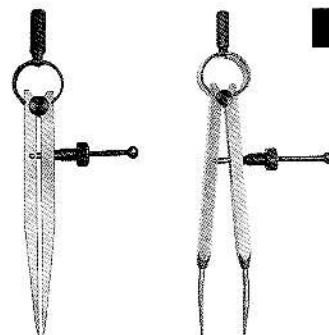


Precision spring compasses

with quick adjustment nut and full-length spindle
sturdy design with square legs, points hardened

1) No. 409 fixed points 2) No. 409a replaceable points

Length - point to spring	100 mm	150 mm	200 mm	250 mm	300 mm	400 mm	500 mm	600 mm
Distance between points	80 mm	120 mm	160 mm	200 mm	240 mm	320 mm	400 mm	500 mm
Design:	Item No.							
No. 409, standard steel	658.010	658.015	658.020	658.025	658.030	658.040	658.050	658.060
nickel plated	658.110	658.115	658.120	658.125	658.130	658.140	658.150	658.160
No. 409a, steel points	658.210	658.215	658.220	658.225	658.230	-	-	-
hm-points	658.310	658.315	658.320	658.325	658.330	-	-	-
Spare nuts (thread)	658.501 (M 3,5)		658.503 (M 4)					



No. 409

No. 409a

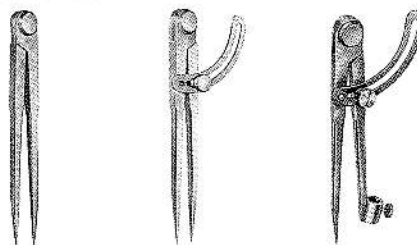
658

Precision rivet compasses

sturdy design with square legs

1) No. 90 without adj. rail 2) No. 92 with adj. rail

Length	150 mm	200 mm	250 mm	300 mm	400 mm	500 mm
Design:	Item No.					
No. 90, without pencil holder	659.015	659.020	659.025	659.030	659.040	659.050
with pencil holder	659.115	659.120	659.125	659.130	659.140	659.150
No. 92, without pencil holder	659.215	659.220	659.225	659.230	659.240	659.250
with pencil holder	659.315	659.320	659.325	659.330	659.340	659.350



No. 90

No. 92

No. 92
with pencil holder

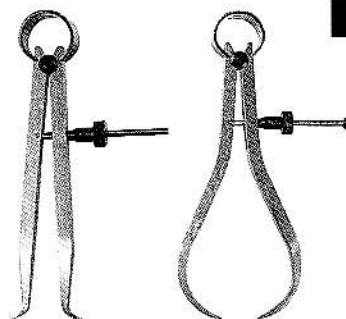
659

Precision spring calipers

with quick adjustment nut and full-length spindle
sturdy design with square legs

1) No. 410 inside spring caliper 2) No. 411 outside spring caliper

Length - point to spring	100 mm	150 mm	200 mm	250 mm	300 mm	400 mm	500 mm	600 mm
Measuring width	70 mm	105 mm	140 mm	175 mm	210 mm	280 mm	350 mm	420 mm
Design:	Item No.							
No. 410, standard version	660.010	660.015	660.020	660.025	660.030	660.040	660.050	660.060
nickel-plated	660.110	660.115	660.120	660.125	660.130	660.140	660.150	660.160
No. 411, standard version	660.210	660.215	660.220	660.225	660.230	660.240	660.250	660.260
nickel-plated	660.310	660.315	660.320	660.325	660.330	660.340	660.350	660.360
Spare caliper nuts (thread)	658.501 (M 3,5)		658.503 (M 4)					



No. 410

No. 411

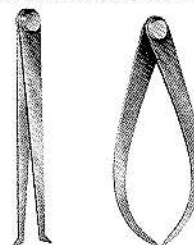
660

Precision calipers

with sturdy flat legs, without graduation

1) No. 416 inside caliper 2) No. 417 outside caliper

Length	150 mm	200 mm	250 mm	300 mm	400 mm	500 mm	600 mm	750 mm	1000 mm
Measuring width	200 mm	260 mm	325 mm	390 mm	520 mm	650 mm	780 mm	975 mm	1300 mm
Design:	Item No.								
No. 416	661.015	661.020	661.025	661.030	661.040	661.050	661.060	661.075	661.100
No. 417	661.215	661.220	661.225	661.230	661.240	661.250	661.260	661.275	661.300



No. 416

No. 417

661

Precision calipers No. 1080, chrome-plated

with sturdy flat legs, for inside and outside measurements

Measuring range	120 mm	160 mm	200 mm	250 mm	300 mm	400 mm	500 mm	600 mm
Total length	190 mm	250 mm	310 mm	380 mm	460 mm	610 mm	760 mm	920 mm
Item No.	662.112	662.116	662.120	662.125	662.130	662.140	662.150	662.160



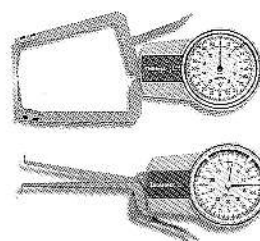
662

Quick setting caliper with dial gauge

division 0,1 mm, with ball-shaped measuring points, dia. 2 mm

Type	OD 2050	OD 20100	ID 2015	ID 2040	ID 2070
Application	outside measuring		inside measuring		
Measuring range	0-50 mm	50-100 mm	15-65 mm	40-90 mm	70-120 mm
Measuring depth	170 mm	170 mm	170 mm	175 mm	175 mm
Item No.	663.201	663.202	663.301	663.302	663.303

Other designs and sizes upon request.



663