

The list is showing all head-styles which are available in the series 20. The number shown right besides every picture is the part number used for ordering. Please replace the field "xx" by the spring force value you'd like to have. The available spring options are listed below.

Example of a completed ordering number:
20.02.10.10

Available spring forces with values in Newton (N) and ozs. and the adding code for the part number:

Code	Preload (N)	(oz.)	Rated Force (N)	(oz.)
<u>10</u>	0.3	1.04	1.0	3.46
<u>18</u>	0.6	2.08	1.8	6.23
<u>25</u>	1.0	3.46	2.5	8.65

Further Technical Data:

Minimum centre spacing:	2.54	mm	.1	inches
Extension height:	8.4	mm	.331	inches
Overall length:	33.25	mm	1.309	inches
Barrel diameter:	1.36	mm	.054	inches
Plunger shaft diameter:	1	mm	.039	inches
Maximum travel:	6.35	mm	.25	inches
Recommended (rated) travel:	4.2	mm	.165	inches
Temperature range:	-55°C ... +105°C		-67°F ... +221°F	
Typical electrical resistance:	20	mΩ		
Rated electrical current load:	3	amps		
Maximum current load:	4	amps		
Typical life-time in cycles:	1 x 10 ⁶	cycles		

Further spring forces and head styles available on request. Please allow longer delivery for special configurations.

Series 21 is a similar type with same diameters but differences in length and travel (max. 4 mm).

For "dual-level-fixtures" we have the extra-long series 125 with a max. travel of 11.7 mm. See more details on separate page of series 125.

Notice: Some of the products in this list have an order number different from our common standard. Especially designed for testing female connectors we have a range of heads which differ not only in the diameter, but also in length of the reduced step. Some types have a collar or shoulder to limit the penetration depth. The adders "H", "Z" and "T" in the part number describe the following dimensions:

Value "H": Length of the reduced step in mm (H5 means 5 mm length of reduced step).

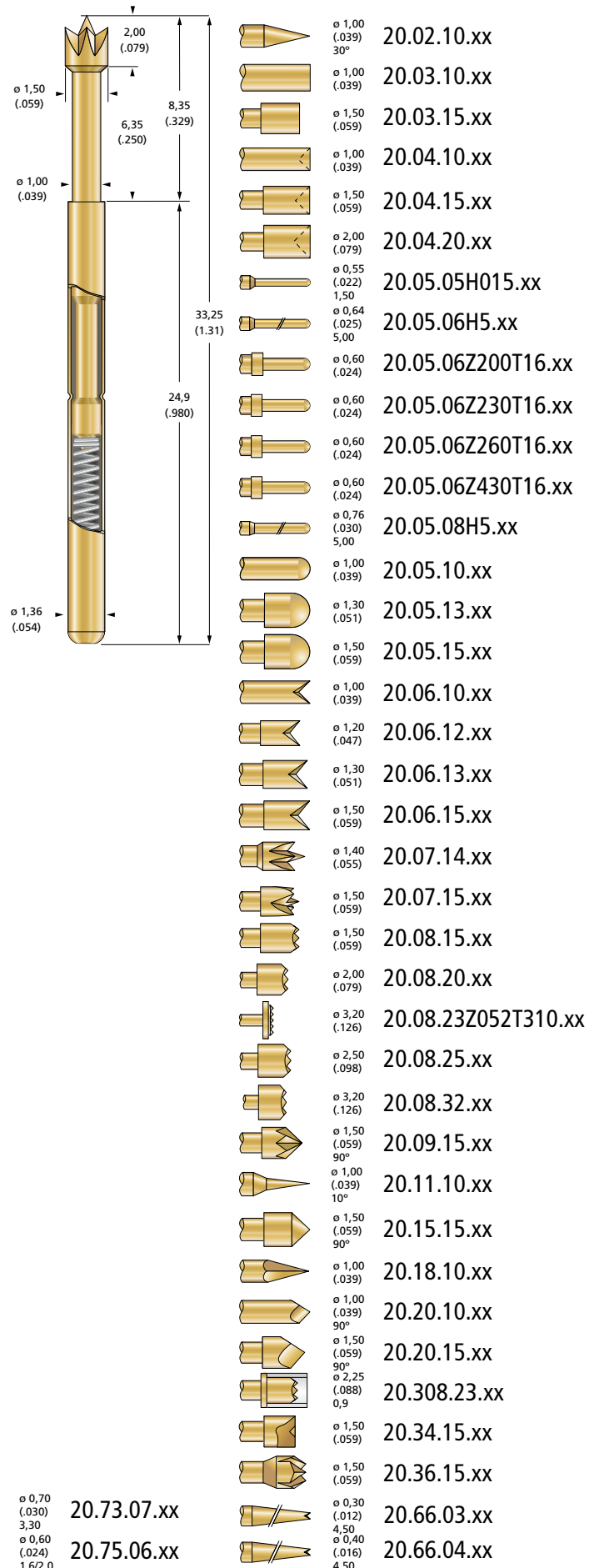
Value "Z": Length between the tip of the reduced step and the collar.

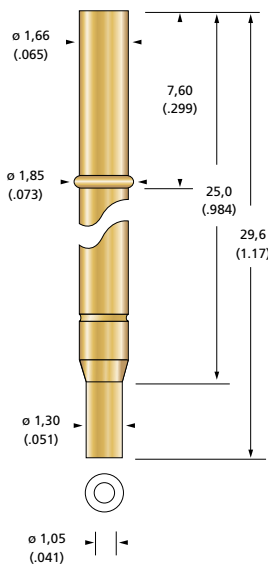
Value "T": Diameter of the collar itself.

The part number 20.05.06Z260T16.xx describes a spherical round head, reduced in diameter to 0.6 mm, where the length of the step is 2.6 mm and the collar has a diameter of 1.6 mm.

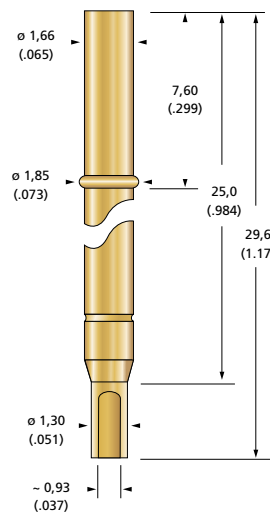
Materials:

Plunger:	CuBe or Steel, gold plated
Barrel:	Copper Alloy, gold plated
Spring:	Music Wire, silver plated

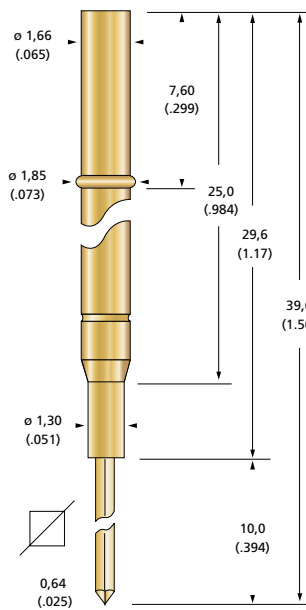




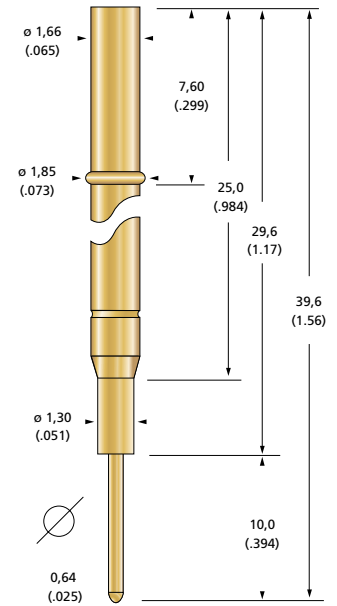
S 20.00-C
Open Crimp End



S 20.00-L
Solder Cup



S 20.00-W
Wire-Wrap-Post

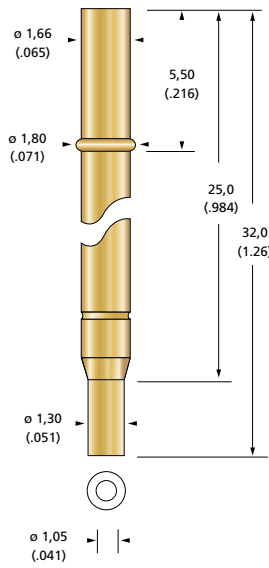


S 20.00-RP
Round Post (pluggable)

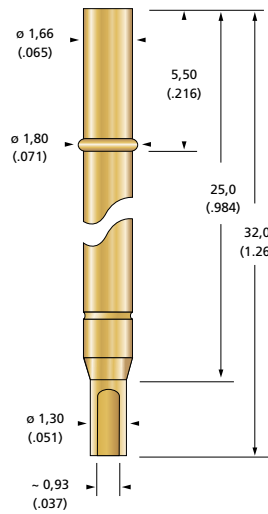
Further options, for example receptacles with pre-attached wire (stranded wire or wire-wrap-wire) we produce on demand.

For the installation of the receptacles the mounting plate requires precise drilling. In the fixture business there are some typical base materials used for the pin plates which are different in drill bit diameters and machining parameters. The table is showing the recommended drill diameter and the order numbers needed when ordering drill bits from us. For machining parameters please consult factory.

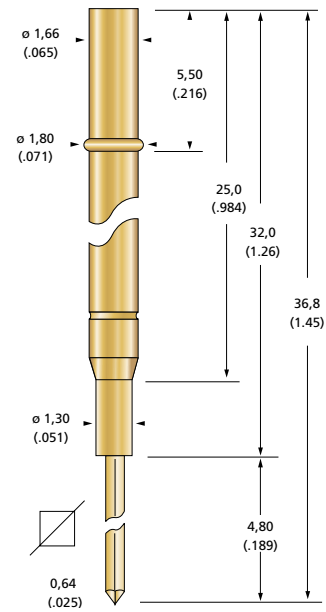
Receptacle with Press-Ring, pressed into Plate Material			
Material	Drill- \varnothing		Part No.
CEM1 (also called EP105)	.0689 in.	1.75 mm	500-0175
FR4 (G10, Hgw 2372 or Hgw 2372.1)	.0701 in.	1.78 mm	500-0178
Press-Ring or Stop Ring used as a Collar			
CEM1 (also called EP105)	.0665 in.	1.69 mm	500-0169
FR4 (G10, Hgw 2372 or Hgw 2372.1)	.0669 in.	1.70 mm	500-0170



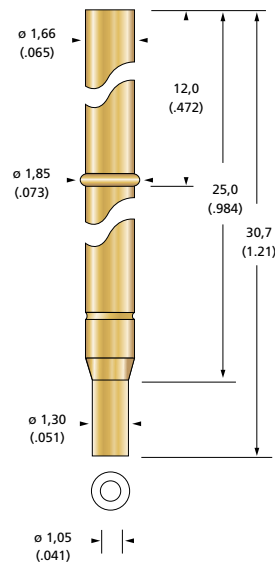
S 20.00-CI
Open Crimp End



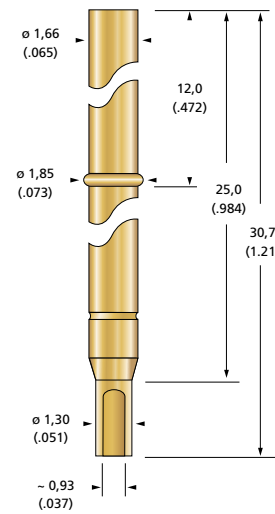
S 20.00-LI
Solder Cup



S 20.00-WI
Wire-Wrap-Post



S 20.01-C
Open Crim End



S 20.01-L
Solder Cup

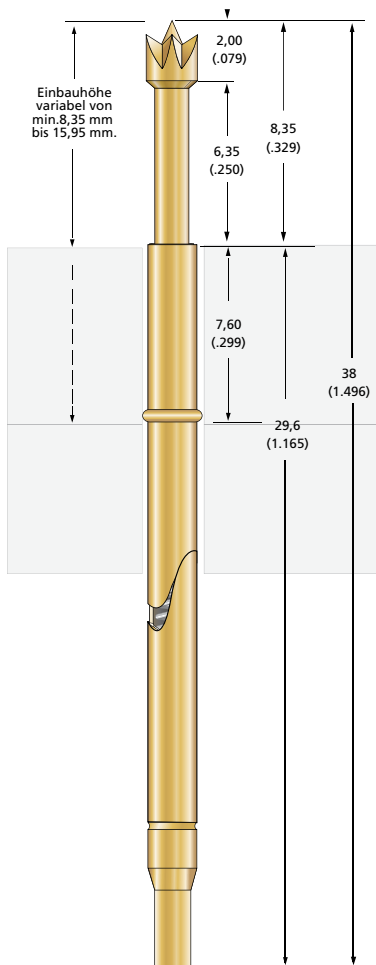
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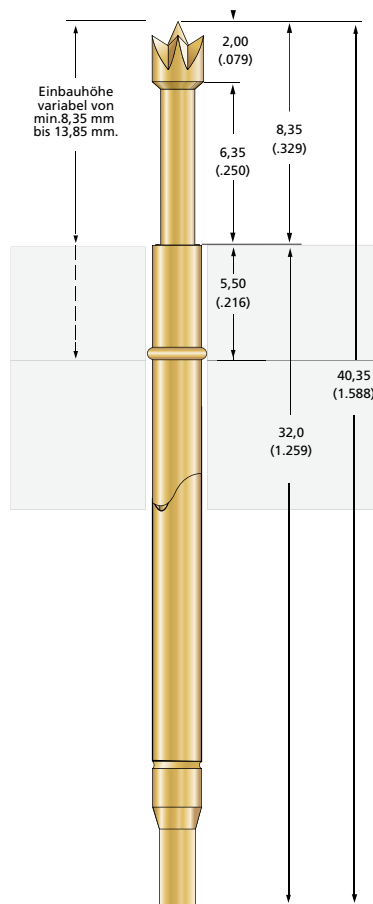
The fixturing examples on this page show the different variations of installing the receptacles in order to achieve different extension heights of the probe tip above mounting plate.

Series 20 offers 3 groups of receptacles, where the most common standard is in the first group (S 20.00-C / L / W).

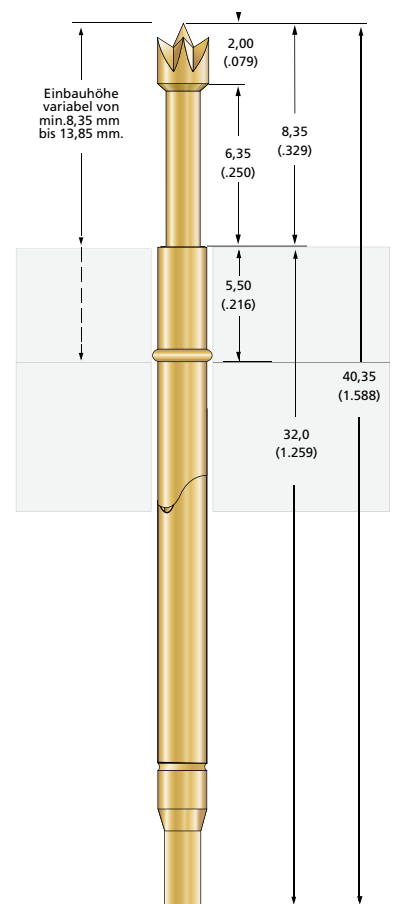
All receptacles from this list can also be used for probe series 22 and 125.



S 20.00-C
S 20.00-L
S 20.00-W
S 20.00-RP



S 20.00-CI
S 20.00-LI
S 20.00-WI



S 20.01-C
S 20.01-L