

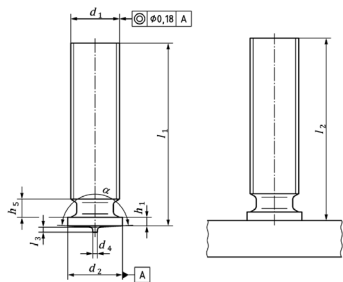
	<b>Type</b>	<b>Material</b>	Suitable for stud feeding	
	<b>PT Threaded studs</b>	<b>A2-50</b>	Manual e.g. 	Automation <sup>1)</sup> e.g. 

d <sub>1</sub>	l <sub>1</sub> +0.6	d <sub>2</sub> ±0.2	d <sub>4</sub> ±0.08	l <sub>3</sub> ±0.05	max. h <sub>5</sub>	h <sub>1</sub>	α ±2°	
M3	see table	4.50	0.60	0.55	0.60	0.70 - 1.40	174°	
M4		5.50	0.65					
M5		6.50	0.75	0.80				
M6		7.50						
M8		9.00	0.85	1.50	0.80 - 1.40			
M10 <sup>2)</sup>		10.70			0.80	1.20 - 1.80		

	Diameter					
	M3	M4	M5	M6	M8	M10
	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
6 mm	12-03-006	12-04-006	--	--	--	--
8 mm	12-03-008	12-04-008	12-05-008	12-06-008	--	--
10 mm	12-03-010	12-04-010	12-05-010	12-06-010	12-08-010	--
12 mm	12-03-012	12-04-012	12-05-012	12-06-012	12-08-012	--
15 mm	12-03-015	12-04-015	12-05-015	12-06-015	12-08-015	--
16 mm	12-03-016	12-04-016	12-05-016	12-06-016	12-08-016	--
20 mm	12-03-020	12-04-020	12-05-020	12-06-020	12-08-020	12-10-020*
25 mm	12-03-025	12-04-025	12-05-025	12-06-025	12-08-025	12-10-025*
30 mm	12-03-030	12-04-030	12-05-030	12-06-030	12-08-030	12-10-030*
35 mm	12-03-035	12-04-035	12-05-035	12-06-035	12-08-035	12-10-035*
40 mm	--	12-04-040	12-05-040	12-06-040	12-08-040	12-10-040*
45 mm	--	12-04-045	--	12-06-045	12-08-045	--
50 mm	--	--	--	12-06-050	12-08-050	12-10-050*
55 mm	--	--	--	12-06-055	12-08-055	--

<b>Chuck</b>	82-50-003	82-50-004	82-50-005	82-50-006	82-50-008	82-50-009
						 <small>(Distance ring 92-40-010 or leg assembly 92-40-043 necessary)</small>
<b>Chuck</b>	84-50-003	84-50-004	84-50-005	84-50-006	84-50-008	--
						

Further accessories see accessories catalogue

\* Minimum order quantity, delivery time and price upon request.

Custom dimensions are not listed in the table – HBS manufactures customised welding elements. On request we can provide pricing.

1) For automation: Diameter: M3 to M8 (M10 with modification only)  
Stud length: 8 to 40 mm (other lengths on request)  
For more details, see accessories catalogue.

2) Similar to DIN EN ISO 13918