

Product Range

ZOLLERN	Material	Induction hardness	Chrome thickness	Tolerance	Dimensions
Piston rod material/ standard version	20MnV6 1.5217		25 ± 5µ <20 mm> 15µ	f7	8 – 140 mm
Piston rod material/ induction hardened	42CrMo4V 9.7225	HRc 56 – 64	20 ± 5µ	f7	12 – 110 mm 1/2" – 4"
Precision steel shafts/ standard version	Cf53 1.1213	HRc 63 ± 3		h6/h7	5 – 100 mm 1/4" – 4"
Precision steel shafts/ hard chrome plated	Cf53 1.1213	HRc 63 ± 3	10 ± 5µ	h6/h7	6 – 80 mm
Precision steel shafts/ stainless	X90CrMoV18 1.4112	HRc 56 ± 3	available	h6/h7	6 – 60 mm
Precision hollow steel shafts	C60 1.0601	HRc 63 ± 3	available	h6/h7	12 – 80 mm
Guide rails	C60 1.0601	HRc 63 ± 3	available	IT 7 II 0.02	10 x 4 20 x 150



Standard dimensions (metric):

Product/dia (mm)	5	6	8	10	12	14	15	16	18	20	22	25
Piston rod material 20 MnV6			f7	f7	f7	f7	f7	f7	f7	f7	f7	f7
Piston rod material 42CrMo4V					f7			f7	f7	f7	f7	f7
Precision steel shaft Cf53	h6/h7	h6/h7	h6/h7	h6/h7	h6/h7	h6/h7	h6/h7	h6/h7	h6/h7	h6/h7	h6/h7	h6/h7
Precision steel shaft/ hard chrome plated Cf 53		h6/h7	h6/h7	h6/h7	h6/h7	h6/h7	h6/h7	h6/h7		h6/h7		h6/h7
Precision steel shaft/ stainless X90CrMoV18		h6/h7	h6/h7	h6/h7	h6/h7		h6/h7	h6/h7		h6/h7		h6/h7
Präzisions hollow steel shaft C60					h6/h7			h6/h7		h6/h7		h6/h7

Product/dia (mm)	28	30	32	35	36	40	45	50	56	60	63	65
Piston rod material 20 MnV6	f7	f7	f7	f7	f7	f7	f7	f7	f7	f7	f7	f7
Piston rod material 42CrMo4V	f7	f7	f7	f7	f7	f7	f7	f7	f7	f7	f7	
Precision steel shaft Cf53		h6/h7	h6/h7	h6/h7	h6/h7	h6/h7	h6/h7	h6/h7		h6/h7		
Precision steel shaft/ hard chrome plated Cf 53		h6/h7				h6/h7		h6/h7		h6/h7		
Precision steel shaft/ stainless X90CrMoV18		h6/h7				h6/h7		h6/h7		h6/h7		
Precision hollow steel shaft C60		h6/h7				h6/h7		h6/h7		h6/h7		

Product/dia (mm)	70	75	80	90	100	110	120	125	140
Piston rod material 20 MnV6	f7	f7	f7	f7	f7	f7	f7	f7	f7
Piston rod material 42CrMo4V	f7		f7	f7	f7	f7			
Precision steel shaft Cf53	h6/h7		h6/h7		h6/h7				
Precision steel shaft/ hard chrome plated Cf 53			h6/h7						
Precision steel shaft/ stainless X90CrMoV18									
Precision hollow steel shaft C60			h6/h7						

Dimensions showing tolerances are currently manufactured.

Standard dimensions (inch):

Produkt/dia (inch)	1/4	3/8	1/2	5/8	3/4	1	1 1/4
Piston material 42CrMo4V			12,725	15,9		25,425	34,95
Precision steel shaft Cf53	6,337	9,512	12,687	15,862	19,037	25,387	31,737

Produkt/D in inch	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4
Kolbenstange 42CrMo4V		44,475	50,825	63,525	76,225	88,925	101,625
Präzisionsstahlwelle Cf53	38,084		50,784				101,569

Tolerances of piston rod material: 1/1" – 2" tolerance – 0,05mm
2 1/2" – 4" tolerance – 0,076 mm

ZOLLERN precision steel shafts in inch dimensions are manufactured to Class „L“.

Stock lengths

Product/stock lengths	3800+200 mm	3000-6000 mm	6000+100 mm	7000+200 mm	7600+200 mm
Piston rod material 20MnV6	8 – 10 mm		12 – 20 mm		25 – 140 mm
Piston rod material 42CrMo4V	12 – 20 mm		22 mm		25 – 110 mm
Precision steel shaft Cf53	5 – 8 mm		10 – 15 mm	16 – 20 mm	25 – 100 mm
Precision steel shaft/ stainless X90CrMoV18		6 – 60 mm			
Precision hollow steel shaft C60	8 – 16 mm		20 mm		25 – 80 mm

Standard dimensions Guide Rails:

Width/Height	10 mm	15 mm	20 mm	25 mm	30 mm	40 mm	50 mm	60 mm	70 mm	80 mm
15 mm					X					X
20 mm			X			X	X	X	X	X
25 mm				X						
30 mm					X		X	X	X	X
40 mm						X				
50 mm	X						X			

Maximum length: 8000 mm

We supply in stock lengths, fixed lengths and machined to your drawing.

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