

																DIN EN ISO 8752-2009 弹性圆柱销, 重型 Spring-type straight pins-Slotted-Heavy duty					
Amendant record: DIN 1481:1946-06, 1959-11, 1978-11 DIN EN 28752:1993-08 DIN EN ISO 8752:1998-03																					
Table 1 — Dimensions																Table 2 — Requirements and reference International Standards					
nominal diameter <i>d</i>			φ1	φ1.5	φ2	φ2.5	φ3	φ3.5	φ4	φ4.5	φ5	φ6	φ8	φ10	φ12	φ13	Material②	steel		Austenitic stainless steel	Martensitic stainless steel
<i>d</i>	before mounting	Max	1.3	1.8	2.4	2.9	3.5	4	4.6	5.1	5.6	6.7	8.8	10.8	12.8	13.8		St	A	C	
		min	1.2	1.7	2.3	2.8	3.3	3.8	4.4	4.9	5.4	6.4	8.5	10.5	12.5	13.5					
<i>d</i>	before mounting	reference	0.8	1.1	1.5	1.8	2.1	2.3	2.8	2.9	3.4	4	5.5	6.5	7.5	8.5		Chemical composition limits (check analysis) %			
<i>C</i>	Max		0.35	0.45	0.55	0.6	0.7	0.8	0.85	1	1.1	1.4	2	2.4	2.4	2.4		C≥0.65 Mn≥0.6 Hardened and tempered to a Vickers hardness of 420 HV to 520 HV or isotherma lquenching: 500HV~560HV	C≥0.5 Si≥1.5 Mn≥0.7 Hardened and tempered to a Vickers hardness of: 420HV~560HV	C≤0.15 Mn≤2.00 Si≤1.50 Cr:16~20 Ni:6~12 P≤0.045 S≤0.03 Mo≤0.8 Cold worked	C≥0.15 Mn≤1.00 Si≤1.00 Cr:11.5~14 Ni≤1.00 P≤0.04 S≤0.03 Hardened and tempered to a Vickers hardness of: 440HV~560HV
	min		0.15	0.25	0.35	0.4	0.5	0.6	0.65	0.8	0.9	1.2	1.6	2	2	2					
<i>h</i>			0.2	0.3	0.4	0.5	0.6	0.75	0.8	1	1	1.2	1.5	2	2.5	2.5		Hardened: see ISO 6507-1			
Minum shear strength, double, kN①			0.7	1.58	2.82	4.38	6.32	9.06	11.24	15.36	17.54	26.04	42.76	70.16	104.1	115.1		Hardened: see ISO 6507-1			
nominal diameter <i>d</i>			φ14	φ16	φ18	φ20	φ21	φ25	φ28	φ30	φ32	φ35	φ38	φ40	φ45	φ50	Surface condition	Plain, i.e. pins to be supplied in natural finish, treated with a protective lubricant,unless otherwise specified by agreementbe tween customer and supplier. If pins are surface coated appropriate plating or coating processes should be employed to avoid hydrogen embrittlement. When pins are electroplated or phosphate-coated, they shall be suitably treated immediately after plating or coating to obviate detrimental hydrogen embrittlement although freedom from hydrogen embrittlement is not absolutely guaranteed (see ISO 4042). All tolerances shall apply prior to the application of a plating or coating.			
<i>d</i>	before mounting	Max	14.8	16.8	18.9	20.9	21.9	25.9	28.9	30.9	32.9	35.9	38.9	40.9	45.9	50.9					
		min	14.5	16.5	18.5	20.5	21.5	25.5	28.5	30.5	32.5	35.5	38.5	40.5	45.5	50.5					
<i>d</i>	before mounting	reference	8.5	10.5	11.5	12.5	13.5	15.5	17.5	18.5	20.5	21.5	23.5	25.5	28.5	31.5					
<i>C</i>	Max		2.4	2.4	2.4	3.4	3.4	3.4	3.4	3.4	3.6	3.6	4.6	4.6	4.6	4.6	Application	The diameter of the hole into which the spring pin is to be inserted shall be equal to the nominal diameterd, of the mating pin and to tolerance class H12. When the elastic pin is inserted into the minimum allowable hole, the slot should not be fully closed.			
	min		2	2	2	3	3	3	3	3	3	3	4	4	4	4					
<i>h</i>			3	3	3.5	4	4	5	5.5	6	6	7	7.5	7.5	8.5	9.5	Shear strength test	The test shall be in accordance with ISO 8749			
Minum shear strength, double, kN①			144.7	171	222.5	280.6	298.2	438.5	542.6	631.4	684	859	1003	1068	1360	1685					
①,Applicable only to steel and martensitic stainless steel products; no double-sided shear load values are specified for austenitic stainless steel elastic pins. ● d2 < d ; ● d≥10 mm , The manufacturer may choose a single-sided chamfered design; ● “L” (Tolerance): L≤10=±0.25 10<L≤50=±0.5 50<L≤200=±0.75 Length options are detailed in ISO8752.Customized non-standard products																②Other materials as agreed between customer and supplier.					