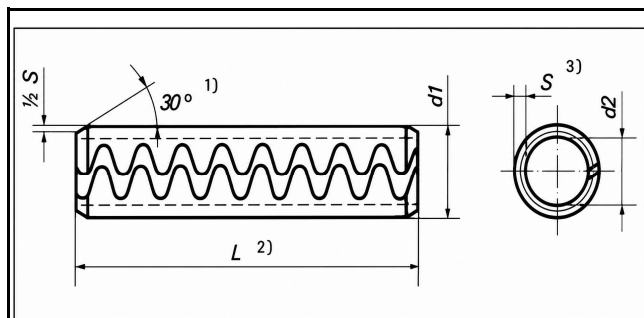




Q/PES 002-2026

Slotted Tooth Spring Pins-Heavy duty

Designed in accordance with ISO 8752 and DIN EN ISO 13337 standards for thickness, length, and nominal diameter, this product features a wave-shaped open design. It fulfills the end customers' requirements for lightweight construction and automated assembly, while combining the dual advantages of both solid pins and spring pins.

Cross-reference: ISO 8752: Wave spring pin-Heavy duty

Naming convention for gear pins: $d=10$, $L = \textcircled{1}$, steel, Q/PES 002 -M10*L -st

Table 1 — Dimensions ②

nominal diameter d	1	1.5	2	2.5	3	4	5	6	8	10	12
s	0.2	0.3	0.4	0.5	0.6	0.75	1	1.25	1.5	2	2.5
d_1 bevor mounting	1.2	1.7	2.2	2.7	3.2	4.3	5.3	6.3	8.4	10.5	12.5
d_1 perm. deviation	$d_1^{+0.1}$										
d_2	0.8	1.1	1.4	1.7	2	2.8	3.3	3.8	5.4	6.5	7.5
for screws	/	/	M1	M1.2	M1.6	M2	M2.5	M3	M4	M5	M6
perm. statically loda single shear	350	790	1410	2190	3160	5300	8770	13030	21380	35080	52050
per shear plane(N) double shear	700	1580	2820	4380	6320	10600	17540	26060	42760	70160	104100
nominal diameter d	14	15	16	18	20	22	24	25	28	30	35
s	3	3	3	3.5	4	4.5	4.5	5	5.5	6	7
d_1 bevor mounting	14.5	15.5	16.5	18.5	20.5	22.5	24.5	25.5	28.5	30.5	35.5
d_1 perm. deviation	$d_1^{+0.3}$										
d_2	8.5	9.5	10.5	11.5	12.5	13.5	15.5	15.5	17.5	18.5	21.5
for screws	M7	M8	M8	M10	M10	M12	M14	M14	M16	M17	M20
perm. statically loda single shear	72350	78850	85500	111250	140300	172500	192300	219250	271300	315700	429500
per shear plane(N) double shear	144700	157700	171000	222500	280600	345000	384600	438500	542600	631400	859000

Table 2 — Requirements and reference International Standards

Material③	steel		stainless steel	
	DIN EN 10132-4		DIN EN 10088-1	10088-2
	C67S orC75S	51CrV4	MaNo: 1.4310 Coid worked	MaNo: 1.4568 aging treatment of stainless steel: 400- 480HV
	Hardened and tempered to a Vickers hardness of: 420HV~510HV Hardened: see ISO			Hardened: see ISO 6507-1
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.		Ptain, i.e. pins to be supplied in natural finish.	
Applications	The diameter of the hole into which the spring pin is to be inserted shall be equal to the nominal diameter, 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.			
Appearance	scratches,rust,irregular or harmful defects are allowed.There must be no burrs, cracks or other defe			

① Lengths refer to ISO 8752, see Table 1. ② Wall thickness tolerance according to EN 10140.

③ Other materials as agreed between customer and supplier.