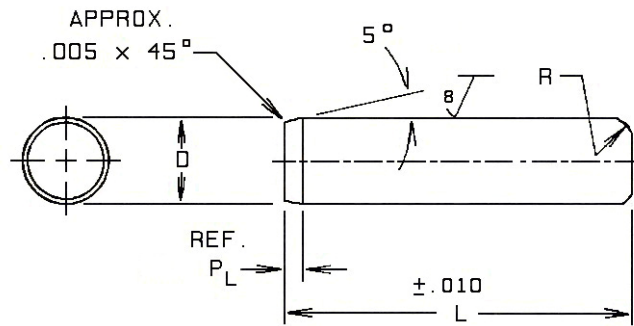


Inch Series Dowel Pins



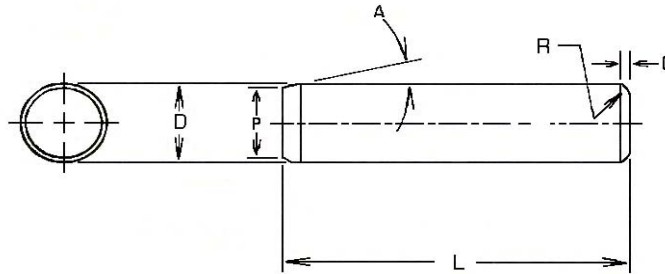
Nominal Diameter	Standard Pin Max.	Standard Pin Min.	Diameter D		PL Point Length Ref.	R Top Radius Basic
			OverSize Pin Max.	OverSize Pin Min.		
1/8	0.1253	0.1251	0.1261	0.1259	0.045	0.031
3/16	0.1878	0.1876	0.1886	0.1884	0.060	0.046
1/4	0.2503	0.2501	0.2511	0.2509	0.070	0.062
5/16	0.3128	0.3126	0.3136	0.3134	0.070	0.062
3/8	0.3753	0.3751	0.3761	0.3759	0.080	0.078
7/16	0.4378	0.4376	0.4386	0.4384	0.090	0.093
1/2	0.5003	0.5001	0.5011	0.5009	0.090	0.109
5/8	0.6253	0.6251	0.6261	0.6259	0.090	0.125
3/4	0.7503	0.7501	0.7511	0.7509	0.120	0.125
7/8	0.8753	0.8751	0.8761	0.8759	0.120	0.125
1	1.0003	1.0001	1.0011	1.0009	0.120	0.125

Mechanical Properties

Nominal Diameter	Single Shear Strength Pounds	Double Shear Strength Pounds	Recommended Hole Size Standard Pins	
			Max.	Min.
1/8	1840	3680	0.1250	0.1245
3/16	4150	8300	0.1875	0.1870
1/4	7360	14720	0.2500	0.2495
5/16	11500	23000	0.3125	0.3120
3/8	16550	33100	0.3750	0.3745
7/16	22550	45100	0.4375	0.4370
1/2	29450	58900	0.5000	0.4995
5/8	46000	92000	0.6250	0.6245
3/4	66200	132400	0.7500	0.7495
7/8	90200	180400	0.8750	0.8745
1	117800	235600	1.0000	0.9995

Applicable Standard: ASME B18.8.2
 Alloy Steel; Core Hardness Rc 47-58
 Case Hardness Rc 60 min.

Metric Dowel Pins



Nominal Diameter	Standard Pin Max.	Standard Pin Min.	Diameter D		P		R	C	L _T Point Angle Transition Length
			Over Size Pin Max.	Over Size Pin Min.	Point Diameter Max.	Point Diameter Min.	Crown Radius Min.	Crown Height Max.	
3	3.008	3.003	3.030	3.025	2.9	2.6	0.3	0.8	8
4	4.008	4.003	4.030	4.025	3.9	3.6	0.4	0.9	10
5	5.008	5.003	5.030	5.025	4.9	4.6	0.4	1.0	10
6	6.009	6.003	6.031	6.025	5.8	5.4	0.4	1.1	12
8	8.009	8.003	8.031	8.025	7.8	7.4	0.5	1.3	12
10	10.009	10.003	10.031	10.025	9.8	9.4	0.6	1.4	16
12	12.009	12.003	12.031	12.025	11.8	11.4	0.6	1.6	20
16	16.009	16.003	16.031	16.025	15.8	15.3	0.8	1.8	20
20	20.009	20.003	20.031	20.025	19.8	19.3	0.8	2.0	25
25	25.009	25.003	25.031	25.025	24.8	24.3	1.0	2.3	25

Mechanical Properties

Nominal Diameter	Single Shear Strength kN	Double Shear Strength kN	Recommended Hole Size		Min. Case Depth
			Standard Pins Max.	Standard Pins Min.	
3	7.4	14.8	3.000	2.987	0.25
4	13.2	26.4	4.000	3.987	0.25
5	20.6	41.2	5.000	4.987	0.38
6	29.7	59.4	6.000	5.987	0.38
8	52.5	105	8.000	7.987	0.38
10	82.5	165	10.000	9.987	0.38
12	119	238	12.000	11.987	0.38
16	211	422	16.000	15.987	0.38
20	330	660	20.000	19.987	0.38
25	515	1030	25.000	24.987	0.38

Applicable Standard: ASME B18.8.5M

Alloy Steel; Core Hardness Rc 47-58

Case Hardness Rc 60 min.

Note: Angle A is 4-8° for lengths L_T and longer and 10-16° for lengths shorter than L_T.