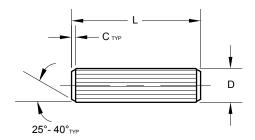
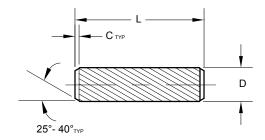


Straight Knurl Series KP200





Helical Knurl Series KP300





DIMENSIONAL DATA

	INCH SPECIFICATIONS						METRIC SPECIFICATIONS								
Nominal Diameter		5/64 .078	3/32 .094	1/8 .125	5/32 .156	3/16 .187	1/4 .250			2	2.5	3	4	5	6
Diameter	Min.	.084	.099	.131	.163	.195	.256	Min	. [2.20	2.70	3.25	4.25	5.25	6.25
"D"	Max.	.088	.103	.136	.168	.200	.262	Max	.	2.30	2.80	3.35	4.35	5.35	6.35
Chamfer "C"	Ref.	.005	.008	.008	.010	.015	.015	Ref	.	0.15	0.2	0.2	0.3	0.4	0.4
Recommended	Min.	.078	.094	.125	.156	.188	.250	Min	. [2.00	2.50	3.00	4.00	5.00	6.00
Hole	Max.	.080	.096	.127	.159	.191	.253	Max	.	2.06	2.56	3.06	4.08	5.08	6.08
	.250	*							6	*					
	.312	*							8	*					
	.375	*						1	0	*					
	.437	*						1	2	*					
	.500	*						1	4	*					
	.562	*	L	ength	Tolera	nce		1	6	*	L	ength	Tolera	nce	
Length	.625	*		±	.010			2	0			±	0.25		
" <u>L</u> "	.750							2	4						
	.875							2	6						
	1.000							3	oΤ						
	1.250							3	5						
	1.500							4	0						

^{*} Denotes sizes only available in KP300.

Notes

- Recommended hole sizes are given for average conditions. Actual required hole size is dependent on length of knurl engagement and hardness of host material.
- · Other diameters, lengths and alternative knurl locations available on request.

Part Number Code

TO ORDER: SLDP (Nominal Diameter)x(Length)(Material)(Finish)(Pin Series Number)

EXAMPLE: SLDP 3 x 20 FK KP300

STANDARD MATERIALS

Low Carbon Steel (F)

Low carbon steel is one of the most versatile materials available. This material is readily available, and is the most economical of the standard Solid Pin materials in the absence of any plating or coating. Low carbon Solid Pins have a dry to the touch rust preventative. Additional coatings and finishes can be applied to carbon steel to improve corrosion resistance, however for some applications, it may be more appropriate and cost beneficial to specify stainless steel when a high level of corrosion resistance is required.

Austenitic (Nickel) Stainless Steel (D)

Austenitic stainless steel provides excellent corrosion protection against normal environmental conditions. It withstands fresh water and atmospheric marine conditions very well, and is suitable for many other industrial conditions including acidic environments. All austenitic stainless Solid Pins are passivated.

STANDARD FINISHES

Plain/Oiled (K)

This finish is a thin coating of dry-to-the touch oil that provides corrosion resistance during storage and shipping. Since this lubricating oil is suspended in a carrier which evaporates over time, the pins are dry-to-the-touch and conducive for automatic feeding and assembly.

Passivated (P)

Passivation of stainless steel Solid Pins is a process whereby surface contaminates such as embedded tool steel and other free iron particles are removed. The sole purpose of passivation is to remove embedded iron; not to clean the part. While all stainless steel Solid Pins are passivated as a standard, there are some critical applications that absolutely require passivation such as medical devices, components used in the food or drug industry, fuel system applications, and any application requiring a clean environment.

Available only for stainless steel.

MATER	FINISHES			
TYPE	GRADE	THUOTIES		
F - Low Carbon Steel	UNS G10220 / C20C (1.0411)	K - Plain, oiled		
D - Stainless Steel, Austenitic (Nickel)	UNS S30500 / X4CrNi18-12	P - Passivated		

SPECIAL MATERIALS

SPIROL has extensive experience with special materials required for unique circumstances such as:

Alloy Steel (W)

Alloy steel is used for applications requiring higher shear strength than our standard materials provide, or when additional hardness is required to ensure that the pin is harder than the host material into which the pin is being installed.

Aluminum (A)

Aluminum is lightweight, lead free, and has sufficient strength for most plastic applications. Aluminum is less than half the weight of steel, and does not require any supplemental coatings or platings to provide the necessary corrosion protection in most environments.

SPIROL Innovative fastening solutions. Lower assembly costs.

Slotted Spring Pins Solid Pins Coiled Spring Pins Ground Hollow Dowels Dowel Bushings Spring Dowels Compression Limiters Inserts for Plastics **Rolled Tubular** Components **Spacers Precision Shims &** Thin Metal Stampings **Precision Washers Disc Springs Installation Technology Parts Feeding Technology**

Please refer to www.SPIROL.com for current specifications and standard product offerings.

SPIROL Application Engineers will review your application needs and work with you to recommend the optimum solution. One way to start the process is to visit our Optimal Application Engineering portal at SPIROL.com.

Technical Centers

Americas

SPIROL International Corporation 30 Rock Avenue

Danielson, Connecticut 06239 U.S.A. Tel. +1 860 774 8571 Fax. +1 860 774 2048

SPIROL Shim Division

321 Remington Road Stow, Ohio 44224 U.S.A. Tel. +1 330 920 3655 Fax. +1 330 920 3659

SPIROL Canada

3103 St. Etienne Boulevard Windsor, Ontario N8W 5B1 Canada Tel. +1 519 974 3334 Fax. +1 519 974 6550

SPIROL Mexico

Avenida Avante #250 Parque Industrial Avante Apodaca Apodaca, N.L. 66607 Mexico Tel. +52 81 8385 4390 Fax. +52 81 8385 4391

SPIROL Brazil

Rua Mafalda Barnabé Soliane, 134 Comercial Vitória Martini, Distrito Industrial CEP 13347-610, Indaiatuba, SP, Brazil Tel. +55 19 3936 2701

Fax. +55 19 3936 7121

Europe **SPIROL France**

Cité de l'Automobile ZAC Croix Blandin 18 Rue Léna Bernstein 51100 Reims, France Tel. +33 3 26 36 31 42

Fax. +33 3 26 09 19 76

SPIROL United Kingdom 17 Princewood Road Corby, Northants

NN17 4ET United Kingdom Tel. +44 1536 444800 Fax. +44 1536 203415

SPIROL Germany

Ottostr. 4 80333 Munich, Germany Tel. +49 89 4 111 905 71 Fax. +49 89 4 111 905 72

SPIROL Spain

08940 Cornellà de Llobregat Barcelona, Spain Tel. +34 93 669 31 78 Fax. +34 93 193 25 43

SPIROL Czech Republic

Sokola Tůmy 743/16 Ostrava-Mariánské Hory 70900 Czech Republic Tel/Fax. +420 417 537 979

SPIROL Poland

ul. Solec 38 lok. 10 00-394, Warszawa, Poland Tel. +48 510 039 345

Asia **Pacific**

e-mail:

SPIROL Asia Headquarters 1st Floor, Building 22, Plot D9, District D

No. 122 HeDan Road Wai Gao Qiao Free Trade Zone Shanghai, China 200131 Tel. +86 21 5046 1451 Fax. +86 21 5046 1540

SPIROL Korea

160-5 Seokchon-Dong Songpa-gu, Seoul, 138-844, Korea Tel. +86 (0) 21 5046-1451 Fax. +86 (0) 21 5046-1540

info@spirol.com

SPIROL.com