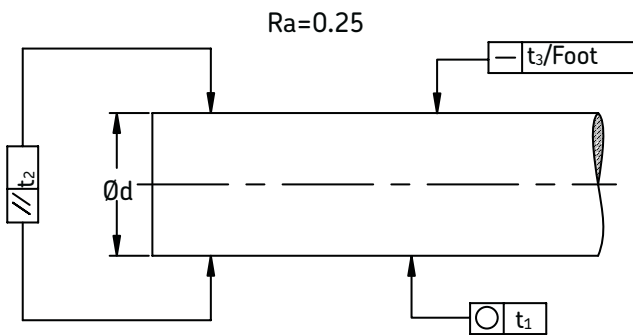


Inch shafting



shaft type	size	class	ESSC
LJX	4 x length	CS	ESSC 1
LJX = Steel			ESSC 1 = cut
LJXR = Stainless steel			ESSC 2 = chamfered
LJXH = Chrome plated			ESSC 3 = chamfered to customers specs
LJXT = Hollow shaft			ESSC 4 = one axial hole
	4 = 1/4"		ESSC 5 = two axial holes
	6 = 3/8"		ESSC 6 = predrilled and tapped (PDT)
	8 = 1/2"		ESSC 7 = radial holes per customer print
	10 = 5/8"		ESSC 8 = PDT shaft mounted on shaft support
	12 = 3/4"		/D = per customer drawing
	16 = 1"		
	20 = 1-1/4"		
	24 = 1-1/2"		
	32 = 2"		
length in inches			
			CS = class S
			blank = class L
			CN = class N
			CD = class D

Inch shafting from SKF® is manufactured in a variety of types and sizes to suit particular applications.

Material

We offer precision hardened and ground carbon steel shafting (material Ck55, AISI 1055), as well as chrome plated and 420C stainless steel shafting.

Hardness

The shaft surface hardness is from 60 to 64 HRC for the carbon steel shafting, and 50 to 55 HRC for the stainless steel shafting. Please see chart below for hardening depth.

Tolerances

We offer Class L and Class S as a standard, but can also supply Class N and Class D on special requests.

Accessories

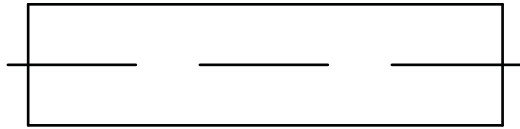
A standard range of shaft support rails and shaft support blocks are available. We also offer custom machining of shafts to your specifications.

Designations

When ordering, please specify requirements in accordance with the chart at top right.

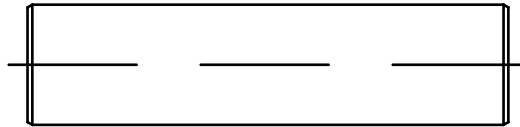
part number prefix	shaft diameter d		hardening depth R _{ht} (max) DIN6773	tolerance class “L”	tolerance class “S”	tolerance class “N”	standard tolerance ISO h6	weight per inch length	roundness (circular) t1	parallelism t2	straightness t3
	inch	mm		inch	inch	inch	inch	inch	inch	inch	inch
LJX 4	1/4	6.350	0.032	.2495/.2490	.2485/.2490	.2498/.2500	0 -.00035	0.014	0.00016	0.00020	0.0036
LJX 6	3/8	9.525	0.039	.3745/.3740	.3735/.3740	.3748/.3750	0 -.00035	0.031	0.00016	0.00024	0.0036
LJX 8	1/2	12.700	0.051	.4995/.4990	.4985/.4990	.4998/.5000	0 -.00047	0.055	0.00020	0.00032	0.0024
LJX 10	5/8	15.875	0.051	.6245/.6240	.6235/.6240	.6248/.6250	0 -.00047	0.087	0.00020	0.00032	0.0024
LJX 12	3/4	19.050	0.063	.7495/.7490	.7485/.7490	.7498/.7500	0 -.00050	0.125	0.00024	0.00035	0.0024
LJX 16	1	25.400	0.071	.9995/.9990	.9985/.9990	.9998/1.0000	0 -.00050	0.222	0.00024	0.00035	0.0012
LJX 20	1-1/4	31.750	0.079	1.2495/1.2490	1.2485/1.2490	1.2498/1.2500	0 -.00063	0.348	0.00028	0.00043	0.0012
LJX 24	1-1/2	38.100	0.098	1.4994/1.4989	1.4984/1.4989	1.4997/1.5000	0 -.00063	0.501	0.00028	0.00043	0.0012
LJX 32	2	20.800	0.118	1.9994/1.9987	1.9980/1.9987	1.9997/2.0000	0 -.00075	0.891	0.00028	0.00043	0.0012

ESSC inch shafting standard



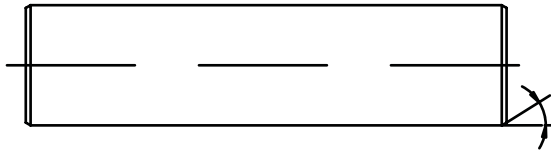
ESSC 1

Cut with no chamfer, deburr only.



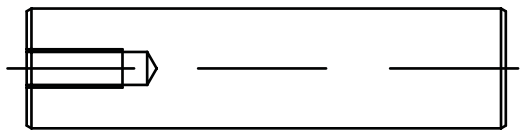
ESSC 2

Cut with hand chamfer. If no specification is given, this is the standard.



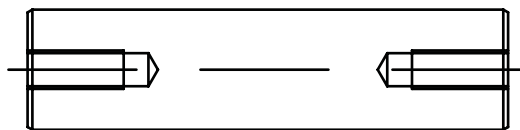
ESSC

Cut with chamfer according to customer drawing.



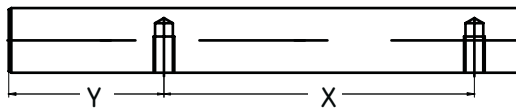
ESSC 4

Cut with chamfer and one axial hole. Please specify thread size and depth.



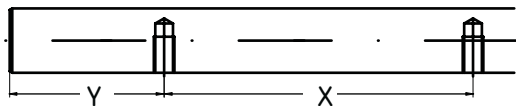
ESSC 5

Cut with chamfer and two axial holes. Please specify thread size and depth.



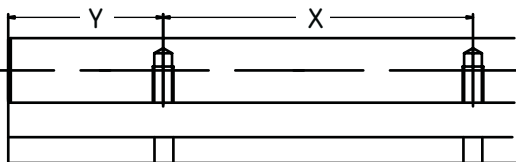
ESSC 6

Cut and chamfer as ESSC 2 with radial holes per table below.



ESSC 7

As ESSC 6, but with radial holes, and X and Y according to customer drawing.



ESSC 8

As ESSC 6, shaft mounted on LSXB shaft support.

nom. dia.	diameter tolerance	max. one piece length	"X" hole spacing +/-0.015 (non-cumulative)	tap size (to center of shaft)
1/2	.4990/.4995	181	4	6-32
5/8	.6240/.6245	181	4	8-32
3/4	.7490/.7495	181	6	10-32
1	.9990/.9995	181	6	1/4-20
1-1/4	1.2490/1.2495	181	6	5/16-18
1-1/2	1.4989/1.4994	181	8	3/8-16
2	1.9987/1.9994	181	8	1/2-13