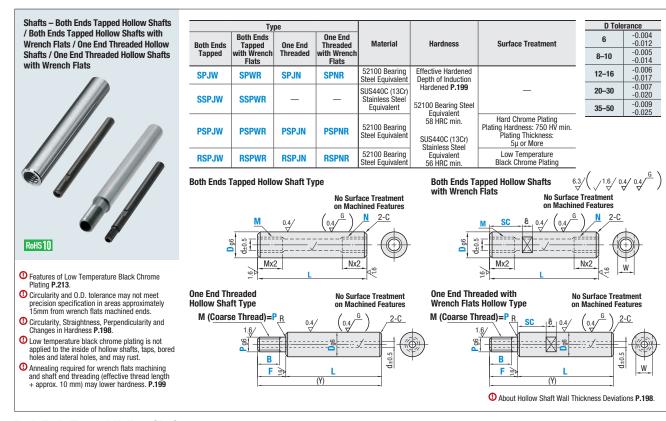
# Both Ends Tapped Hollow Shafts / Both Ends Tapped Hollow Shafts with Wrench Flats / One End Threaded Hollow Shafts / One End Threaded Hollow Shafts with Wrench Flats



#### **Both Ends Tapped Hollow Shafts**

Part Number		L	M (Coarse Threads) /	Wrench Flats Dimensions				•
Туре	D	1 mm Increments N (Coarse Threads)		SC	W	l <sub>1</sub>	ď	C
	6	20-600	3		5		2	0.5
Both Ends Tapped Hollow Shafts	*8	20-800 (300)	4 *5	SC=1 mm Increment	7	8	3 (3)	
SPJW SSPJW (*marked sizes only)	*10	20-800 (400)	5 *6	U When D≤25	8		4 (4)	
PSPJW	*12	32-1000 (500)	*8 *T1 (RC1/8)			6 (5)	or Less	
RSPJW (D≤30, L≤500)	*13	40-1000 (500)	*10 *T1 (RC1/8)	SC>Mx2	11		7 (5)	
(5300, 23000)	*16	48-1200 (600)	*12 *T2 (RC1/4)		14	10	10 (6)	
Both Ends Tapped Hollow Shafts	*20	64-1200 (800)	*16 *T3 (RC3/8)	U When D≥30	17		14 (8)	
with Wrench flats	*25	80-1200 (1000)	*20	SC+ℓ <sub>1</sub> ≤L	22		16 (10)	
SPWR	*30	80-1500 (1000)	*20	SC≥0	27	15	17 (12)	1.0 or Less
SSPWR (*marked sizes only) PSPWR	35	96-1500	24		30	10	19	
RSPWR (D≤30, L≤500)	40	96-1500	24 30	Details of Wrench Flats <b>P.199</b>	36	20	20	
	50	120-1500	30	1	41	20	26	

- Umben T1, T2 or T3 is selected as M or N, tapered thread machining is applied. (Ordering Code: MT1, NT1) UL requires Mx2+Nx2≤L.
- ① When Mx25+4+Nx2.5+4≤L, tap pilot holes may go through. ① When L≤Mx2+Nx2, effective depth of larger diameter tap has priority.
- Only \* marked D, M and N dimensions are applicable to Stainless Steel Shafts. L and d dimensions in () are applicable.

#### **One End Threaded Hollow Shafts**

Part Number		1 mm Increments				Wrench Flats Dimensions				(Y)		
Туре	D	L	F B		P	SC	W	ℓ <sub>1</sub>	d	Max.	R	C
One End Threaded Hollow Shafts SPJN PSPJN RSPJN (D=30, L=500)  One End Threaded Hollow Shafts with Wrench Flats SPNR PSPNR RSPNR (D≤30, L=500)	6	25-598	B≤F-2 (When P=6)  B≤F-3 (When P=8, 10)  2≤F≤Px5  B≤F-5 (When P≤12)  B=0 (Without threads)  ① B≥Pitchx3	(When P=6) <b>B≤F-3</b>	6		5	8 3 3 4 0 6 1 7	2	600		
	8	25-798			8	00.1	7		3	000	0	0.5 or Less
	10	25-798			8 10	SC=1 mm Increment  O SC+ℓ₁≤L O SC≥0	8		4	800		
	12	25-998			10 12		10		6	1000	000 0.3 or Less	
	13	25-998		(Wileli P=8, 10)	12		11		7	1000		
	16	25-1198		B≤F-5	16		14		10			
	20	25-1198		20	1	17		14	1200			
	25	25-1198		(Without threads)	24	① Details of Wrench	22	1 [	16			1.0
	30	25-1498			24 30		27	45	17			or
	35	25-1498			30	Flats <b>P.199</b>	30	15	19	1500	0.5	Less
	40	25-1498		30	1	36	20 20	20		or Less	Or Loce	

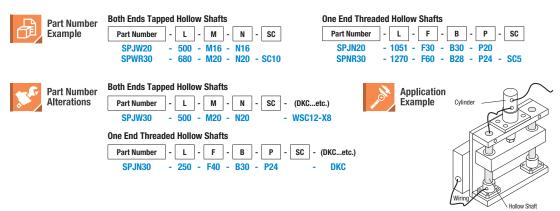
<sup>1</sup> When D=P, please specify F=B as B dimensions. L and F dimensions, however, have priority to build, thus B dimensions should be F-(Pitch x 2).

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### Shafts

Both Ends Tapped Hollow Shafts / Both Ends Tapped Hollow Shafts with Wrench Flats / One End Threaded Hollow Shafts / One End Threaded Hollow Shafts with Wrench Flats, continued



						(With Lateral Hole Alteration)				
Alterations C		Code	Spec.		Alterations	Code	Alteration Details <b>P.2</b> Spec.			
Revise O.D. Tolerance (Precision Grade)	) DKC	DKC	Outer diameter tolerance is altered to h5.  Ordering Code: DKC     D		M side	wsc	Adds Wrench Flats at two locations.  Ordering Code: WSC12-X8  ① WSC,X = 1 mm Increment  ① When D≥25  WSC+X+ℓ,X2 <l 10="" 10<="" 11="" 12="" 13="" 14="" 16="" 5="" 6="" 7="" 8="" between="" d="" d≥30="" features="" flat="" is="" orientation="" random="" th="" two="" w="" when="" wrench="" wsc+x+ℓ,x2<l="" wsc≥0="" wsc≥mx2,="" x≥mx2="" z="0" ℓ₁="" ①=""></l>			
Alteration to L Dimension Tolerance	LKC	LKC	Changes L Tolerance. Ordering Code: LKC  ① L<200 → L±0.03 200±L<500 → L±0.05 L≥500 → L±0.1  ① L dimensions can be specified in 0.1 mm increment for LKC.  ⊗ Not applicable to One End Threaded Type when D-P≤2	Wrench Flats at Two Locations			20 17 25 22 30 27 15 35 30 40 36 50 41 20   ↑ Applicable to Both Ends Tapped Hollow Shafts only.  Adds a lateral hole to one side.  Lateral hole diameters are shown in the table below.  RH=1 mm Increment			
One End Bored	K   John State of the State of	VC	Boring added to right end (Use as pilots) Hole diameter V <sub>sr</sub> shown in the table below.  K=1 mm Increment ① 3-K≤VX2  Ordering Code: VC-K5  □ 0 V <sub>sr</sub> 10 6 12 8 13 10 16 12 20 16 25 20 35 24 40 24  ⊗ Not applicable to Both End Tapped Hollow Shafts.	Lateral Hole on One Side	di RH	RH	O d₁+1 <rh≤dx3< th="">           Ordering Code: RH5           D d₁         D d₁           10 2 (2)         20 6 (4)           12 3 (2)         25,30 6 (5)           13 3 (2)         35,40 8           16 5 (3)         50 10           Values in () are for Stainless Steel Shafts.           ① The hollow I.D. "d" may vary due to the wall thickness deviations.           ① Not applicable to threaded side of One End Threaded Shafts.           ① Burrs might remain inside after alteration.           ① Orientation in relation to other features will be random.           ② Not applicable to Both Ends Tapped Shafts           ③ Not applicable if interfering with other alterations.</rh≤dx3<>			
<b>A</b> 140			one the distance between machined areas about he greater than	0	004					

① When selecting multiple alteration additions, the distance between machined areas should be greater than 2 mm. **P.201** 

O Alterations may lower hardness. P.199

 $<sup>\</sup>bigcirc$  Thread machining will not be applied when B = 0 is specified.