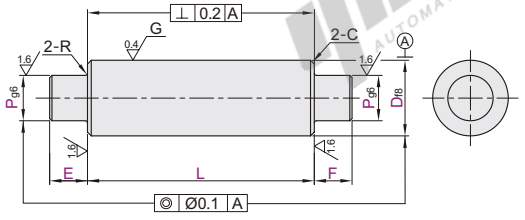
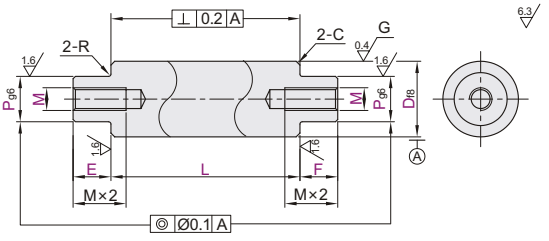
Both Ends Stepped	Both Ends Stepped and Tapped	Accuracy Grade	D Tol.	Material		Hardness	Surface Treatment
				GB	Equiv.		
SHM11	SHN11	Ordinary Grade	f8	45	S45C	—	Hard Chrome Plating, Plating Hardness HV750~, Plating Thickness More Than 3μm

Processing according to drawings

Both Ends Stepped
SHM11



Both Ends Stepped and Tapped
SHN11



! Circularity, Straightness, Perpendicularity and Changes in Hardness. Please refer to shaft product introduction.

The first perspective

Both Ends Stepped

Part Number Code	Dh8	L	E·F	P	R	C
(D Tol. f8) SHM11	8 -0.013 -0.035	20~800		6	0.3	0.5 Below
	10			6~8		
	12			6~10		
	13	20~1000		6~11		
	15 -0.016 -0.043			6~13		
	16			6~14		
	18		E=2~P×4	8~16		
	20	20~1200	F=2~P×4	8~17		
	25 -0.020 -0.053			8~22		
	30			9~27		1.0 Below
	35			9~32		
	40 -0.025 -0.064	20~1500		11~37	0.5	
	50			11~47		

Both Ends Stepped and Tapped

Part Number Code	Dh8	L	E·F	P	M Selection	R	C
(D Tol. f8) SHN11	8 -0.013 -0.035	20~800		6	3	0.3	0.5 Below
	10			6~8	3 4 5		
	12			6~10	3 4 5 6		
	13	20~1000		6~11	3 4 5 6 8		
	15 -0.016 -0.043			6~13	3 4 5 6 8 10		
	16			6~14	3 4 5 6 8 10		
	18		E=2~P×4	8~16	4 5 6 8 10 12		
	20	20~1200	F=2~P×4	8~17	4 5 6 8 10 12		
	25 -0.020 -0.053			8~22	4 5 6 8 10 12 16		
	30			9~27	5 6 8 10 12 16 20 24		1.0 Below
	35			9~32	5 6 8 10 12 16 20 24		
	40 -0.025 -0.064	20~1500		11~37	6 8 10 12 16 20 24 30	0.5	
	50			11~47	6 8 10 12 16 20 24 30		

Please order as shown

Both Ends Stepped

Part Number Code	D	L	E·F	P
SHM11	⑧ 10	20≤300	E=2≤P×4 F=2≤P×4	⑥ 6~8

SHM11—D8—L30—E10—F10—P6

Optional Processing(Both Ends Stepped)

Part Number Code	D	L	E·F	P	Optional Processing Code
SHM11	⑧ 10	20≤300	E=2≤P×4 F=2≤P×4	⑥ 6~8	JD() JE() SD() EC() ED() LC

SHM11—D8—L30—E10—F10—P6—LC

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Both Ends Stepped and Tapped

Part Number Code	D	L	E·F	P	M
SHN11	⑧ 10	20≤300	E=2≤P×4 F=2≤P×4	⑥ 6~8	③ 3 4 5

SHN11—D8—L30—E10—F10—P6—M3

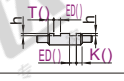
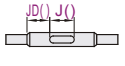
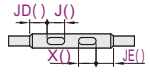
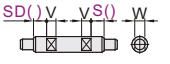
Optional Processing(Both Ends Stepped and Tapped)

Part Number Code	D	L	E·F	P	M	Optional Processing Code
SHN11	⑧ 10	20≤300	E=2≤P×4 F=2≤P×4	⑥ 6~8	③ 3 4 5	JD() JE() SD() EC() ED() LC

SHN11—D8—L30—E10—F10—P6—M3—LC

Delivery 4

Optional Processing

Code	Spec.		Code	Spec.	
LC	**Alteration to L Dimension Tolerance** 	Ordering Code LC ! 0.1 mm Increment ! When L<300, L±0.03; When 300≤L<600, L±0.05; When L≥600, L±0.1.	EC() ED()	**Set Screw Flat at One Location**  **Set Screw Flats at Two Locations** 	Ordering Code EC10-K8 Ordering Code ED10-K8-T10 ! 1 mm Increment D: 8~18 h: 1; 20~40 2; 50 3
JD() JE()	**Add keyway at One Location**  **Add Keyways at Two Locations** 	Ordering Code JD10-J10 Ordering Code JE10-X10-JD10-J8  ! 1 mm Increment ! When JD=0/JE=0 , see the right figure. ! Application Notes:D12,D16, D20,D25,D30. ! Keyway details refer to P10. ! Only applicable to SHM11.	SD()	**Wrench Flats at Two Locations**  ! Only applicable to SHM11.	Ordering Code SD12-S8 ! 1 mm Increment D: 8 W: 7 V: 9; 10 8; 12 10; 13 11; 15 13; 16 14 11; 18 16; 20 17; 25 22; 30 27 16; 35 30; 40 36 21; 50 41

! When selecting multiple optional processing, the distance between machined areas should be greater than 2mm.
! Optional processing may reduce hardness.