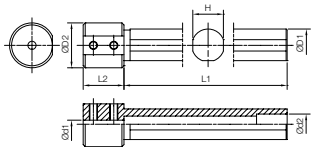
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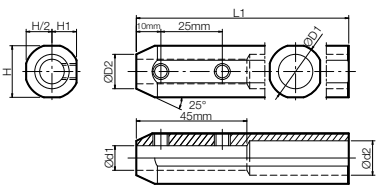
Sleeves for Micro Bars

Shape	Part Number	Previous Part Number	Stock	Unit	Dimensions ØD1	ØD2	Ød1	Ød2	H	L1	L2	Spare Parts Screw	Spare Parts Wrench
 (Tip-Bar installation side)	PH 0212-60	PH -0212	○	mm	12	19	1.8	6	11	60	20	HS3X4	LW-1.5
	0312-60	-0312	○		12	19	2.8						
	0412-60	-0412	○		12	19	3.8	6	11	60	20	HS4X4	LW-2
	0512-60	-0512	○		12	19	4.8						
	0612-60	-0612	○		12	19	5.8	8	11	60	20	HS4X4	LW-2
	0712-60	-0712	○		12	19	6.8						
	PH 0216-80	PH -0216	○		16	22	1.8	Rp¼ (PS¼)	15	80	20	HS3X4	LW-1.5
	0316-80	-0316	○		16	22	2.8						
	0416-80	-0416	○		16	22	3.8	Rp¼ (PS¼)	15	80	20	HS4X4	LW-2
	0516-80	-0516	○		16	22	4.8						
	0616-80	-0616	○		16	22	5.8						
	0716-80	-0716	○		16	22	6.8						
	PH 10-3MM	-	●	inch	0.625	0.750	0.110	3/8-24 UNF	0.575	3.213	0.787	SLS-1	LW-2
	10-4MM		●		0.625	0.875	0.150						
	10-6MM		●		0.625	0.875	0.228						
	10-7MM		●		0.625	0.875	0.268						

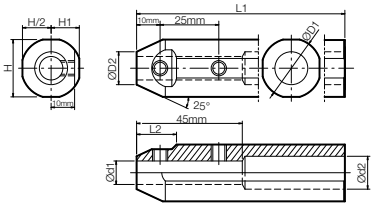
Description Table for PH Sleeves and Applicable Toolholders

Shank Size (Hole Dia. : mm)		..-2mm / 02.. (0.071" / 1.8mm)	..-3mm / 03.. (0.110" / 2.8mm)	..-4mm / 04.. (0.150" / 3.8mm)	..-5mm / 05.. (0.189" / 4.8mm)	..-6mm / 06.. (0.228" / 5.8mm)	..-7mm / 07.. (0.268" / 6.8mm)
PH Type Sleeve Part Numbers		PH10-2MM	PH10-3MM	PH10-4MM	PH10-5MM	PH10-6MM	PH10-7MM
		PH0212-60	PH0312-60	PH0412-60	PH0512-60	PH0612-60	PH0712-60
		PH0216-80	PH0316-80	PH0416-80	PH0516-80	PH0616-80	PH0716-80
1-Edge Micro Bars	Boring Bars	PSB□0202-	PSB□0303-	PSB□0404-	PSB□0505-	PSB□0606-	PSB□0707-
				PSBT□0415-	PSBT□0515-		
	Internal Grooving			PSG□0510-	PSG□0610-	PSG□0710-	PSG□0810-
				PSG□0520-	PSG□0620-	PSG□0720-	PSG□0820-
	Face Grooving						PSFG□0810-
							PSFG□0820-
							PSFG□0830-
	Internal Threading			PSTR0604-	PSTR0805-		

SHA Sleeves (Applicable Toolholders → F96)



(Toolholder installation side) **Fig.1**



(Toolholder installation side) **Fig.2**

Part Number	Stock	Dimensions (mm) Ød1	ØD1	ØD2	Ød2	H	H1	L1	L2	Drawing	Spare Parts Screw	Spare Parts Wrench	Applicable Machine Manufacturer
SHA 0820-120	○	8	20.00	14	12	19.0	9.25	120	-	Fig.1	HS6X4P	LW-3	Amada Machine Tools, Eguro, Tsugami, Citizen Machinery
1020-120	○	10	20.00	14	12	19.0	9.25	120	-	Fig.1			
SHA 0825.0-135	○	8	25.00	14	14	24.0	11.5	135	17	Fig.2			
1025.0-135	○	10	25.00	14	14	24.0	11.5	135	17	Fig.2			
1225.0-135	○	12	25.00	16	14	24.0	11.5	135	17	Fig.2			
SHA 0819-120	○	8	19.05	14	12	18.0	8.75	120	-	Fig.1	HS6X4P	LW-3	Citizen Machinery
1019-120	○	10	19.05	14	12	18.0	8.75	120	-	Fig.1			
SHA 0820-120	○	8	20.00	14	12	19.0	9.25	120	-	Fig.1			
1020-120	○	10	20.00	14	12	19.0	9.25	120	-	Fig.1			
SHA 0825.4-120	○	8	25.40	14	14	24.4	12.0	120	17	Fig.2			
1025.4-120	○	10	25.40	14	14	24.4	12.0	120	17	Fig.2			
1225.4-120	○	12	25.40	16	14	24.4	12.0	120	17	Fig.2			
SHA 0822-125	○	8	22.00	14	14	21.0	10.0	125	-	Fig.1	HS6X4P	LW-3	Star Micronics, Nomura DS
1022-125	○	10	22.00	14	14	21.0	10.0	125	-	Fig.1			
1222-125	○	12	22.00	16	14	21.0	10.0	125	-	Fig.1			
SHA 0823-120	○	8	23.00	14	14	22.0	10.5	120	16	Fig.2	HS6X4P	LW-3	Nomura DS
1023-120	○	10	23.00	14	14	22.0	10.5	120	16	Fig.2			
1223-120	○	12	23.00	16	14	22.0	10.5	120	16	Fig.2			

※ : Length of Ød1…45mm (All SHA sleeves) • Choose sleeves (Ød1) to meet with ØD dimension of toolholder. • Machine manufacturers are in random order.

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