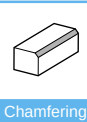


MSO45

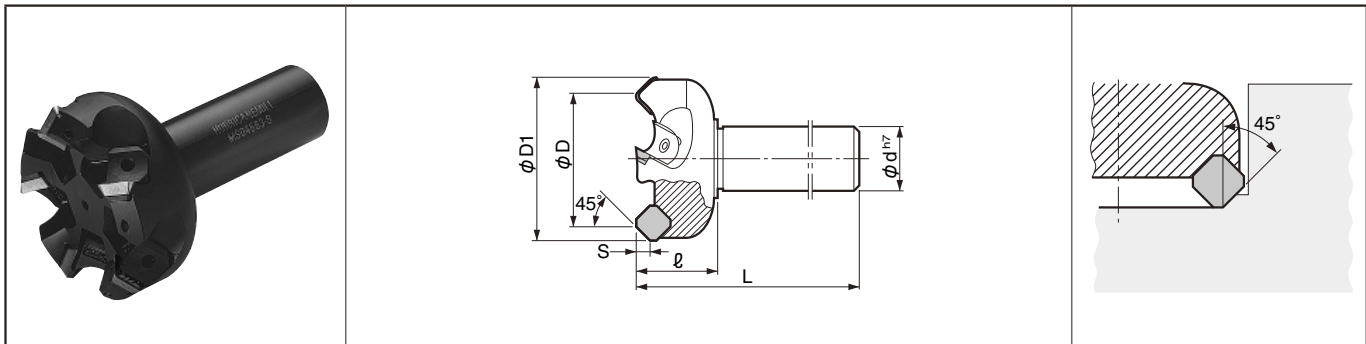


Facing



Chamfering

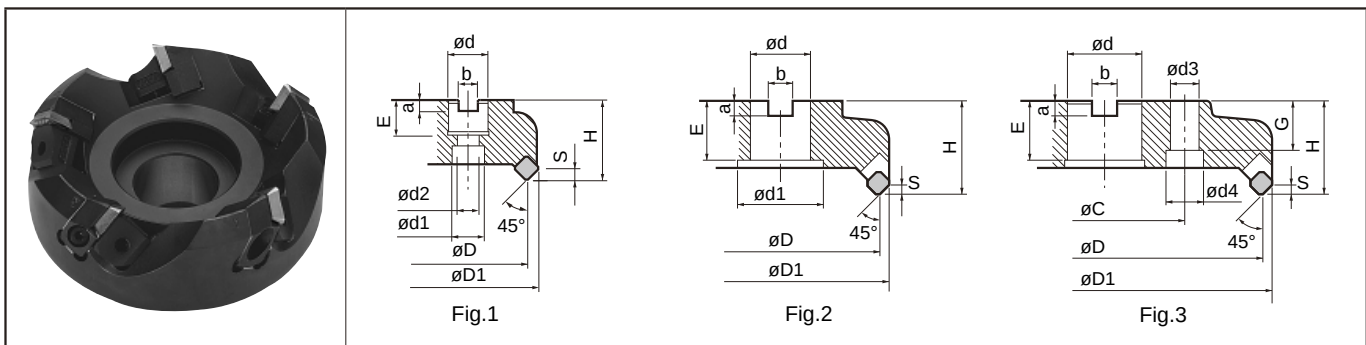
MSO45-S Endmill (High Rake)



Toolholder Dimensions

Description	Std.	No. of Insert	Dimension (mm)						Rake Angle (°)		Spare Parts				
			ϕD	$\phi D1$	ϕd	L	ℓ	S	A.R.	R.R.	Shim	Clamp Screw	Clamp	Clamp Screw	Wrench
MSO 4550-S	●	4	50	66	32	120	40	7.1	+27°	-8°	MSO-4T245	SP3X6	CH-20R	TH8X15	TH-4
4563-S	●	5	63	79											
4580-S	●	5	80	96											

MSO45-R (High Rake)



Toolholder Dimension

Description	Std.	No. of Insert	Dimension (mm)													Rake Angle (°)		Drawing	Weight (kg)						
			øD	øD1	ød	ød1	ød2	ød3	ød4	øC	H	E	G	a	b	S	A.R.			R.R.					
MSO 45100R	○	5	100	114.8	31.75	48	-	-	-	60	32	-	8	12.7	7.1	+27°	-8°	Fig.2	2.5						
45125R	○	6	125	140.0	38.10	58					38		10	15.9					3.7						
45160R	○	8	160	174.5	50.80	68							11	19.0					5.4						
45200R	○	10	200	214.5	47.625	-					18	26	101.6	32				14	25.4	Fig.3	8.4				
MSO 4550R-13E-4T	●	4	50	65.9	22	18	12	-	-	-	40	20	-	6.3	10.4	7.1	+27°	-8°	Fig.1	0.4					
4563R-13E-5T	●	5	63	78.9							45			6.3	10.4					1.0					
4580R-13E-5T	●	5	80	95.9							50			22	7.2					12.4	1.3				
MSO 45100R-E	●	5	100	114.8	32	48	-	-	-	60	28	-	8	14.4	7.1	+27°	-8°	Fig.2	2.5						
45125R-E	●	6	125	140.0	40	58							30						9	16.4	3.7				
45160R-E	●	8	160	174.5															10	16.4	5.4				
45200R-E	●	10	200	214.5	60	62					18	26	101.6	38				32	15	25.4	Fig.3	8.4			

● : Std. Item ○ : Check Availability R : Std. Item (R-hand Only) L : Std. Item (L-hand Only)