

HSK-MDPE (Arbor+Head)

TAPER	Code No.	φD	L	L ₁	L ₂	MAX. Depth L ₃	M	Arbor Code No.	Head Code No.
HSK 63A	HSK 63A-MDPE16-100,120,135	16	100,120,135	70, 90,105	30	10	37.4	HSK 63A-MDPE-M 8- 70, 90,105	M 8-MDPE16-30
	-MDPE20-105,120,135	20	105,120,135	75, 90,105			40.0	-MDPE-M10- 75, 90,105	M10-MDPE20-30
	-MDPE25-105,120,135	25		70, 85,100	35	15	45.3,47.5,47.5	-MDPE-M12- 70, 85,100	M12-MDPE25-35
	-MDPE32-120,135,150	32	120,135,150	80, 95,110	40		52.5	-MDPE-M16- 80, 95,110	M16-MDPE32-40
HSK 100A	HSK100A-MDPE16-120,140,155	16	120,140,155	90,110,125	30	10	37.4	HSK100A-MDPE-M 8- 90,110,125	M 8-MDPE16-30
	-MDPE20-125,140,155	20		95,110,125			40.0	-MDPE-M10- 95,110,125	M10-MDPE20-30
	-MDPE25-125,140,155	25	125,140,155	90,105,120	35	15	45.3,47.5,47.5	-MDPE-M12- 90,105,120	M12-MDPE25-35
	-MDPE32-140,155,170	32	140,155,170	100,115,130	40		52.5	-MDPE-M16-100,115,130	M16-MDPE32-40

★2pcs of tip clamp bolt and tip clamp wrench are supplied as standard.
★Please refer P.270 for cutting condition.

★Insert tip is available as an option. Please refer P.213.
★Centre through coolant is available for all series.

HSK-MDPE-M (Arbor) ★Coolant pipe : Option P.278

TAPER	Code No.	φD	L ₁	ID φd	Arbor Front Dia.	ℓ	ℓ ₁	ℓ ₂	Screw G
HSK 63A	HSK 63A-MDPE-M 8- 70, 90,105	16	70, 90,105	8.5	14.7	9	11	20	M 8
	-MDPE-M10- 75, 90,105	20	75, 90,105	10.5	18.7		12	21	M10
	-MDPE-M12- 70, 85,100	25	70, 85,100	12.5	23.0		15	24	M12
	-MDPE-M16- 80, 95,110	32	80, 95,110	17.0	30.0		16	25	M16
HSK 100A	HSK100A-MDPE-M 8- 90,110,125	16	90,110,125	8.5	14.7		11	20	M 8
	-MDPE-M10- 95,110,125	20	95,110,125	10.5	18.7		12	21	M10
	-MDPE-M12- 90,105,120	25	90,105,120	12.5	23.0		15	24	M12
	-MDPE-M16-100,115,130	32	100,115,130	17.0	30.0		16	25	M16

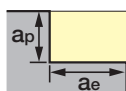
★Head is available as an option. P.213

★Centre through coolant is available for all series.

★This is interchangeable with DEPO. When the connection interface (Screw G and ID φd) is same, the cutter head of other carbide makers can be used.

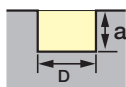
★Lubrication Pipe is optional. Please refer P.278

CUTTING CONDITION of PRO-ENDMILL

Side
Milling

- The bold figures of cutting speed **V** (m/min.) show the cutting speed when **a_e**=0.5 X D. **V** (m/min.) should be reduced to 80%, when **a_e**=0.75 X D.
- Feed rate per 1 tooth/ 1 revolution **f** (mm/tooth) should be smaller, when **a_p** is getting larger. The feed rate of **f** (mm/tooth) shows the feed rate when **a_e**=0.5 X D & **a_p**=MAX.

Material	Mild Steel (SS400, S10C)	Carbon Steel (S45C, SCM440)	Cast Iron (FC300)	Ductile Cast Iron (FCD450)	Hardened Steel HRC40~55 (SKD)
Cutting Speed V	220 (140~270)	170 (110~210)	170 (110~210)	120 (80~150)	85 (50~100)
f	MDPE16	0.1 (0.1~0.15)		0.07 (0.07~0.1)	
	MDPE20	0.1 (0.1~0.25)		0.07 (0.07~0.2)	0.07 (0.07~0.15)
	MDPE25	0.1 (0.1~0.3)		0.07 (0.07~0.25)	0.07 (0.07~0.15)
	MDPE32				

Groove
Milling

- Feed rate per 1 tooth/ 1 revolution **f** (mm/min) should be smaller, when **a_p** is getting larger. The feed rate of **f** (mm/tooth) shows the feed rate when **a_e**=0.5 X D & **a_p**=MAX.
- MAX. ramping angle is MDPE16: 15°, MDPE20: 9°, MDPE25: 11°, MDPE32: 7°

Material	Mild Steel (SS400, S10C)	Carbon Steel (S45C, SCM440)	Cast Iron (FC300)	Ductile Cast Iron (FCD450)	Hardened Steel HRC40~55 (SKD)
Cutting Speed V	180 (140~210)	140 (110~160)	100 (80~120)	100 (80~120)	70 (50~80)
f	MDPE16	0.1		0.07	
	MDPE20	0.07 (0.07~0.1)		0.07	
	MDPE25	0.07 (0.07~0.15)			
	MDPE32			0.07	



• Please clamp the insert tip with the suitable torque.

AOMT123608 : 1.0Nm, AOMT184808 : 4.0Nm

• For the guide line of insert tip life, the flank wear within 0.3mm under normal cutting will be recommended.