

Heavy Milling Cutter MSR



Shouldering



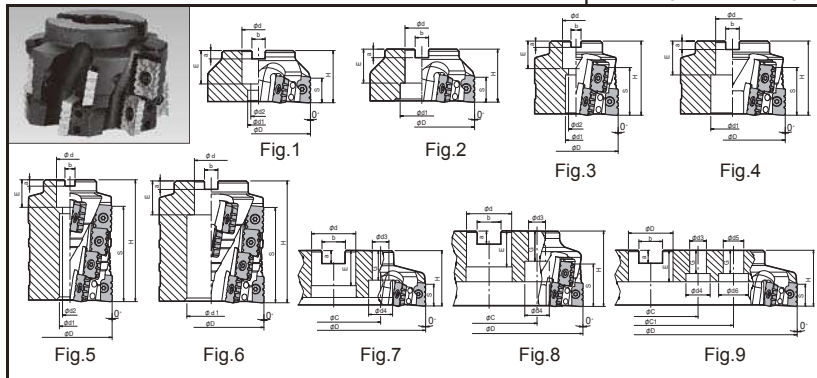
Slotting



Facing

MSR

Rake Angle (°)
 ø63~ø80 ø100~
 A.R. : +9° A.R. : +9°
 R.R. : -8° R.R. : -5°



Spare Parts (Bore ød: common to Inch type / Metric type)

Description	Spare Parts					
	Clamp Screw	Wrench	Shim	Clamp Screw	Wrench	Anti-seize Compound
MSR 063R-○			-	-	-	MP-1
MSR 080R-○	SB-60120TR	TT-25L	MAP-2506	SB-40140TR	DT-15	
315R-○	for Insert Clamp		for Shim Clamp			



Coat Anti-seize Compound (MP-1) thinly on clamp screw when insert is fixed.

Toolholder Dimensions (Bore ød: Metric type)

Description	Std.	No. of Insert	No. of Flute	No. of Stage	Dimension (mm)															Drawing	Weight (kg)		
					øD	ød	ød1	ød2	H	E	a	b	S	ød3	ød4	ød5	ød6	øC	øC1			G	
MSR 063R-1M	●	4	4	1	63	27	20	14	65	22	7.2	12.4	23.5	-	-	-	-	-	-	-	-	Fig.1	0.7
063R-2M	●	8		2					85				45									Fig.3	0.9
080R-1M	●	4	4	1	80	27	20	14	50	22	7.2	12.4	23.5	-	-	-	-	-	-	-	-	Fig.1	1.0
080R-2M	●	8		2					70				45									Fig.3	1.5
080R-4M	●	16		4					115				90									Fig.5	2.5
100R-1M	●	6	6	1	100	32	42	-	50	28	8	14.4	23.5	-	-	-	-	-	-	-	-	Fig.2	1.5
100R-2M	●	12		2					70				45									Fig.4	2.0
100R-4M	●	24		4					115				90									Fig.6	3.2
125R-1M	●	6	6	1	125	40	58	-	60	30	9	16.4	23.5	-	-	-	-	-	-	-	-	Fig.2	3.4
125R-2M	●	12		2					70				45									Fig.4	3.7
125R-4M	●	24		4					115				90									Fig.6	6.0
160R-1M	●	8	8	1	160	40	68	-	60	30	10	16.4	23.5	-	-	-	-	-	-	-	-	Fig.2	6.1
160R-2M	●	16		2					70				45									Fig.4	6.8
200R-1M	●	10	10	1	200	60	-	-	60	38	15	25.4	23.5	ø18	ø26	-	-	101.6	-	-	32	Fig.7	7.0
200R-2M	●	20		2					80				45									Fig.8	9.9
250R-1M	●	12	12	1	250	60	-	-	60	38	15	25.4	23.5	ø18	ø26	-	-	101.6	-	-	32	Fig.7	10.3
250R-2M	●	24		2					80				45									Fig.8	14.2

*Shim is not available for MSR063R Dia. D=63).

*Arbor attachment bolt (HH12x40) is included for MSR063R/MSR080R.

*It is not recommended using only top edge part (ap = 30mm) for 4 stages type. If ap is small, use 1 stage or 2 stages type.

*Deep grooving is not recommended for this cutter.

Toolholder Dimensions (Bore ød: Inch type)

Description	Std.	No. of Insert	No. of Flute	No. of Stage	Dimension (mm)															Drawing	Weight (kg)	
					øD	ød	ød1	ød2	H	E	a	b	S	ød3	ød4	ød5	ød6	øC	øC1			G
MSR	063R-1	○	4	1	63	25.4	20	14	65	26	6	9.5	23.5	-	-	-	-	-	-	-	Fig.1	0.8
	063R-2	○	8	2					85				45								Fig.3	1.0
	080R-1	○	4	1	80	25.4	20	14	50	26	6	9.5	23.5	-	-	-	-	-	-	-	Fig.1	1.1
	080R-2	○	8						2				70								45	Fig.3
	080R-2-31.75	○		4	25.4	20	14	115		32	8	12.7	90	Fig.3	1.7							
	080R-4	○	Fig.5						2.6													
	080R-4-31.75	○	31.75	27	18	32	8	12.7	Fig.5	2.7												
	100R-1	○	6	1	100	31.75	42	-	50	32	8	12.7	23.5	-	-	-	-	-	-	Fig.2	1.6	
	100R-2	○	12	2					70				45							Fig.4	2.2	
	100R-4	○	24	4	115	90	Fig.6	3.6														
	125R-1	○	6	1	125	38.1	54	-	60	38	10	15.9	23.5	-	-	-	-	-	-	-	Fig.2	3.5
	125R-2	○	12	2					70				45								Fig.4	3.8
	125R-4	○	24	4	115	90	Fig.6	6.1														
	160R-1	○	8	1	160	50.8	68	-	60	38	11	19.0	23.5	-	-	-	-	-	-	-	Fig.2	5.8
	160R-2	○	16	2					70				45								Fig.4	6.4
	160R-4	○	32	4	115	90	Fig.6	10.7														
	200R-1	○	10	1	200	47.625	-	-	60	38	14	25.4	23.5	ø18	ø26	-	-	101.6	-	32	Fig.7	7.5
	200R-2	○	20	2					80				45								Fig.8	10.4
	250R-1	○	12	1	250	47.625	-	-	60	38	14	25.4	23.5	ø18	ø26	-	-	101.6	-	32	Fig.7	10.9
	250R-2	○	24	2					80				45								Fig.8	14.7
315R-1	○	14	14	1	315	47.625	-	-	60	35	14	25.4	23.5	ø17	ø27	ø22	ø32	101.6	177.8	25	Fig.9	16.0

*Shim is not available for MSR063R Dia. D=63).

*Arbor attachment bolt (HH12x40) is included for MSR063R type / MSR080R-○ type. Arbor attachment bolt (HH16x45) is included for MSR080R-○-31.75.

*It is not recommended using only top edge part (ap = 30mm) for 4 stages type. If ap is small, use 1 stage or 2 stages type.

*Deep grooving is not recommended for this cutter.

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