



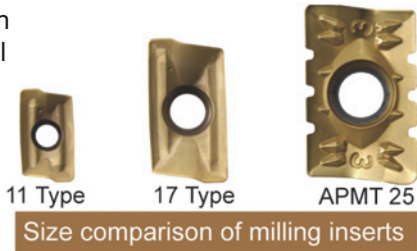
MSR

Heavy Roughing Milling Cutter

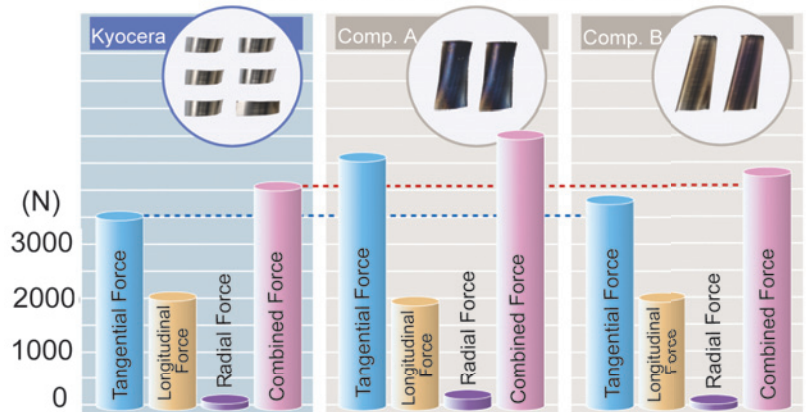
- Double the metal removal rate; double the productivity
- Notched inserts promote larger depths of cut and excellent chip control
- Heavy machining with low cutting forces



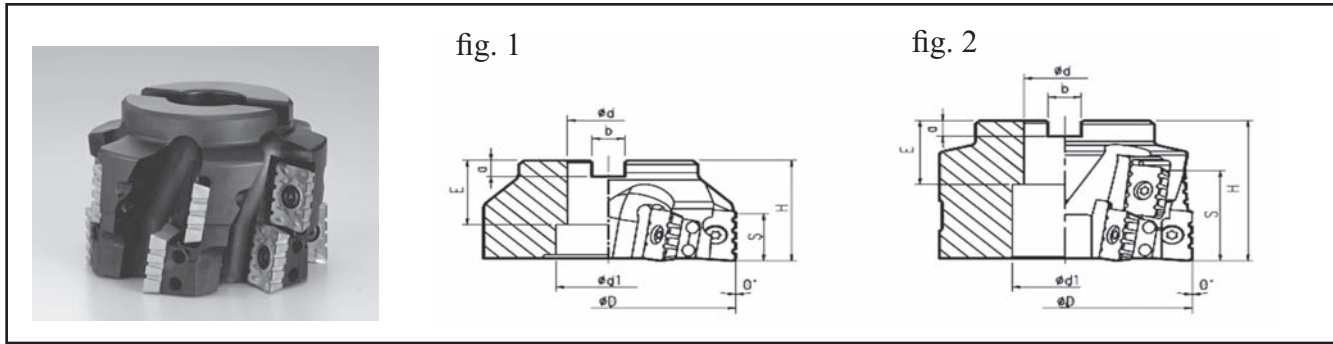
Shown
Actual
Size



Comparison of Cutting Resistance


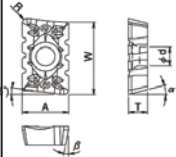

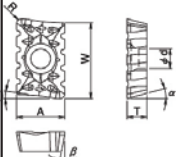


■ **MSR (Heavy Milling Cutter)**



Description	Stock	# inserts	# flutes	Dimensions										Rake Angle		Fig.
				unit	ϕD	ϕd	$\phi d1$	$\phi d2$	H	E	a	b	S	A.R.	R.R.	
MSR3000R-1	●	4	4	in	3.00	1.00	.870	-	1.970	1.020	.240	.375	.925	+9°	-5°	1
MSR3000R-2	●	8	4		3.00	1.00	.870	-	2.760	1.020	.240	.375	1.77			2
MSR4000R-1	●	6	6		4.00	1.25	1.610	-	1.970	1.260	.310	.500	.925			1
MSR4000R-2	●	12	6		4.00	1.25	1.610	-	2.760	1.260	.310	.500	1.77			2

● Applicable Inserts

	Dimension	Angle		Stock				
		A	T	ϕd	W	R	α	β
  APMT 250616ER-NB3	.625	.250	.256	.984	.063	15°	11°	●
  APMT 250616ER-NB4								●

- If cutter pocket is marked with a "3", use AP..ER-NB3
- If cutter pocket is marked with a "4", use AP..ER-NB4

Description	# of total inserts	# of lines	# of NB3 inserts	# of NB4 inserts
MSR R-1	6	6	3	3
MSR R-2	12		6	6

It is important to install the appropriate notched insert into the correct position. Failure to do so may result in damage to the cutter body. The appropriate insert is marked on the pockets of the cutter body.