

# NC5 ZMAC ADVANCED BORING ARBOR (ZMAC-V)



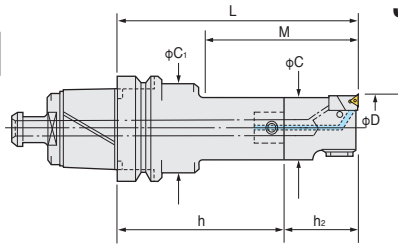
JAPAN PAT.

Boring for Finishing

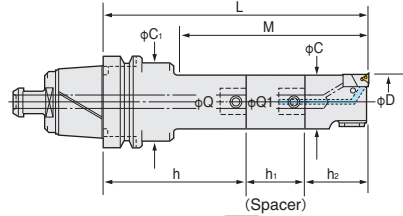
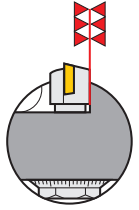


## ZMAC-V

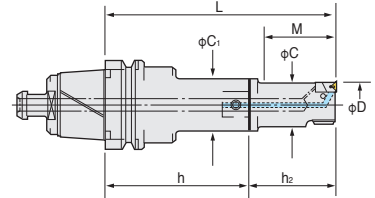
Photo shows ZMAC $\alpha$ -V head with A1 spacer.



No Micro Vibration due to Double-Contact Support of Cartridge. Long Tool-Life & High Accuracy.



(Spacer)



Only for ZMAC16-V

All codes shown are for heads with triangular inserts For heads with rhomboid inserts please add the letter "R" to the code No. e.g. NC5-63-ZMAC32 R -150V

TAPER	Code No.	Boring Range D	Boring Depth M	P.127		Weight (kg)	
				Head No.	Insert No.		
NC5-63	NC5- 63-ZMAC16-125V,135V	15.9~20.2	38, 48	12-ZMAC16-45V,55V	3MP-C,B	1.6, 1.6	
	-ZMAC20-120V, 135V, 150V	19.8~25.2	45, 67, 75	9-ZMAC 20- 40V		1.6, 1.6, 1.7	
	-ZMAC25-120V, 150V, 165V	24.8~32.2	52, 90, 97	12-ZMAC 25- 40V		1.7, 1.8, 1.8	
	-ZMAC32-150V, 180V, 195V	31.8~42.2	77, 110, 122	16-ZMAC 32- 55V	4MP-C,B	2.2, 2.4, 2.4	
	-ZMAC42-150V, 180V, 210V	41.8~55.2	97, 130, 157	20-ZMAC 42- 70V	6MP-C,B	2.7, 2.9, 3.2	
	-ZMAC55-165V, 210V, 225V	54.8~70.2	135, 180, 195	26-ZMAC 55- 70V		3.6, 4.3, 4.3	
	-ZMAC70-165V, 180V, 225V	69.8~85.2	165, 180, 225	34-ZMAC 70- 70V		5.1, 5.5, 6.5	
-ZMAC85-195V	84.8~100.2	195	42-ZMAC 85-100V	8.7			
NC5-85	NC5- 85-ZMAC16-140V, 150V	15.9~20.2	38, 48	12-ZMAC16-45V,55V	3MP-C,B	2.9, 2.9	
	-ZMAC20-150V, 165V, 180V	19.8~25.2	45, 67, 75	9-ZMAC 20- 40V		3.0, 3.0, 3.1	
	-ZMAC25-135V, 165V, 180V	24.8~32.2	52, 90, 97	12-ZMAC 25- 40V	4MP-C,B	3.7, 3.8, 3.9	
	-ZMAC32-180V, 210V, 225V	31.8~42.2	77, 110, 122	16-ZMAC 32- 55V		6MP-C,B	4.2, 4.2, 4.6, 4.7
	-ZMAC42-180V, 195V, 225V, 240V	41.8~55.2	97, 130, 142, 157	20-ZMAC 42- 70V			5.7, 5.8, 7.3
	-ZMAC55-210V, 240V, 270V	54.8~70.2	117, 182, 177	26-ZMAC 55- 70V	8.2, 8.8, 9.7		
	-ZMAC70-240V, 270V, 300V	69.8~85.2	190, 220, 250	34-ZMAC 70- 70V	10.7, 13.2, 14.2		
	-ZMAC85-225V, 290V, 315V	84.8~100.2	187, 252, 277	42-ZMAC 85-100V	12.0, 14.7, 14.6		
-ZMAC100-225V, 290V, 315V	99.5~140.5	225, 290, 315	42-ZMAC100-100V	12.8, 15.5, 16.2			
-ZMAC140-225V, 290V, 315V	139.5~180.5		42-ZMAC140-100V				
NC5-100	NC5-100-ZMAC16-140V, 150V	15.9~20.2	38, 48	12-ZMAC16-45V,55V	3MP-C,B	3.9, 3.9	
	-ZMAC20-150V, 165V, 180V	19.8~25.2	45, 67, 75	9-ZMAC 20- 40V		4.0, 4.0, 4.1	
	-ZMAC25-135V, 165V, 180V	24.8~32.2	52, 90, 97	12-ZMAC 25- 40V	4MP-C,B	4.7, 4.8, 4.9	
	-ZMAC32-180V, 210V, 225V	31.8~42.2	77, 110, 122	16-ZMAC 32- 55V		6MP-C,B	5.2, 5.2, 5.6, 5.7
	-ZMAC42-180V, 195V, 225V, 240V	41.8~55.2	97, 130, 142, 157	20-ZMAC 42- 70V			6.7, 6.8, 8.3
	-ZMAC55-210V, 240V, 270V	54.8~70.2	117, 182, 177	26-ZMAC 55- 70V	9.2, 9.8, 10.7		
	-ZMAC70-240V, 270V, 300V	69.8~85.2	190, 220, 250	34-ZMAC 70- 70V	11.7, 14.2, 15.2		
	-ZMAC85-225V, 290V, 315V	84.8~100.2	187, 252, 277	42-ZMAC 85-100V	13.0, 15.7, 15.6		
	-ZMAC100-225V, 290V, 315V	99.5~140.5	225, 290, 315	42-ZMAC100-100V	13.8, 16.5, 17.2		
-ZMAC140-225V, 290V, 315V	139.5~180.5	42-ZMAC140-100V					

\*MIN. dial readout : ZMAC25-V & smaller is 0.02mm on diameter. ZMAC32-V and larger are 0.01mm on diameter.

\*"C" grade (Coated) insert for Steel, Stainless & Cast Iron is supplied as Standard with the head (Smooth boring & Long tool-life).

We would recommend "B" grade (CBN) insert for Hardened Steel & High Speed boring of Cast Iron. Please refer P.125 for cutting condition.

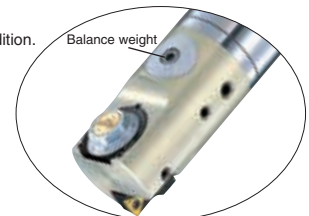
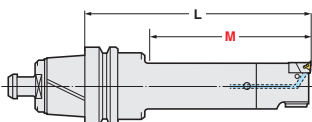
\*Please refer P.252 for Shank, and P.108 for Spacer, and P.93, P.94 for Head.

\*Centre Through Coolant function is available as standard.

\*For NC5-46, modular connection system is applied. Please refer P.252 for Base Holder.

\*The location of the cutting edge is same as the drive key for ZMAC16-V to ZMAC42-V.

\*When L length is required longer than standard, please specify boring depth M.



High Speed Boring ZMAC $\alpha$ -V P.94