

# 2LOCK ZMAC ADVANCED BORING ARBOR (ZMAC-V)

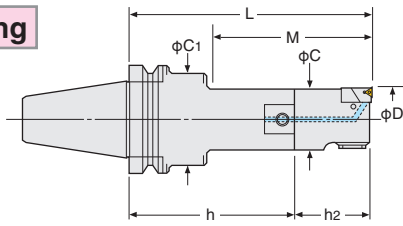
**NIKKEN**

JAPAN PAT.

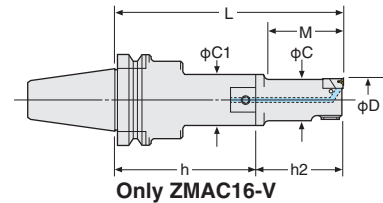
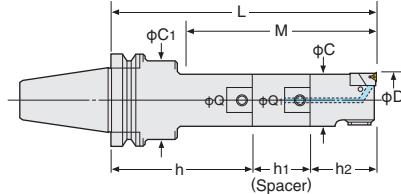
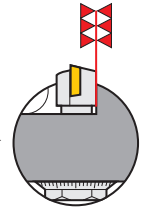


**ZMAC-V**

**Boring for Finishing**



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



Only 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. NBT40-ZMAC32 R -150V

TAPER	Code No. NB TNo.- Min.D - L	Boring Range D	Boring Depth M	Cupling Dia Q	C	C1	P.127		Weight (kg)
							Head No. Q- Min.D -h2	Insert No.	
No.40	NBT40-ZMAC 16-125V, 135V	15.9~20.2	38, 48	12	15	24	12-ZMAC16-45V, 55V	3MP-C,B	1.9, 1.9
	(NIT40)-ZMAC 20-120V, 135V, 150V	19.8~25.2	45, 67, 75	9	19	30	9-ZMAC20-40V		1.9, 1.9, 2.0
	-ZMAC 25-120V, 150V, 165V	24.8~32.2	52, 90, 97	12	24	35	12-ZMAC25-40V		2.0, 2.1, 2.1
	-ZMAC 32-150V, 180V, 195V	31.8~42.2	77, 110, 122	16	31	42	16-ZMAC32-55V	6MP-C,B	2.5, 2.7, 2.7
	-ZMAC 42-150V, 180V, 210V	41.8~55.2	97, 130, 157	20	40	50	20-ZMAC42-70V		3.0, 3.2, 3.5
	-ZMAC 55-165V, 210V, 225V	54.8~70.2	135, 180, 195	26	53		26-ZMAC55-70V		3.9, 4.6, 4.6
	-ZMAC 70-165V, 180V, 225V	69.8~85.2	165, 180, 225	34	67	64	34-ZMAC70-70V		5.4, 5.8, 6.8
	-ZMAC 85-195V	84.8~100.2	195	42	83	62	42-ZMAC85-100V	9.0	
No.50	NBT50-ZMAC 16-140V, 150V	15.9~20.2	38, 48	12	15	24	12-ZMAC16-45V, 55V	3MP-C,B	4.7, 4.7
	(NIT50)-ZMAC 20-150V, 165V, 180V	19.8~25.2	45, 67, 75	9	19	40	9-ZMAC20-40V		4.8, 4.8, 4.9
	-ZMAC 25-135V, 165V, 180V	24.8~32.2	52, 90, 97	12	24	44	12-ZMAC25-40V		4.8, 4.8, 4.9
	-ZMAC 32-180V, 210V, 225V	31.8~42.2	77, 110, 122	16	31	50	16-ZMAC32-55V	6MP-C,B	5.5, 5.6, 5.7
	-ZMAC 42-180V, 195V, 225V, 240V	41.8~55.2	97, 130, 142, 157	20	40	60	20-ZMAC42-70V		6.0, 6.0, 6.4, 6.5
	-ZMAC 55-210V, 240V, 270V	54.8~70.2	117, 182, 177	26	53	65	26-ZMAC55-70V		7.5, 7.6, 8.1
	-ZMAC 70-240V, 270V, 300V	69.8~85.2	190, 220, 250	34	67	80	34-ZMAC70-70V		10.0, 10.6, 11.5
	-ZMAC 85-225V, 290V, 315V	84.8~100.2	182, 247, 272				42-ZMAC85-100V	12.5, 15.0, 16.0	
	-ZMAC100-225V, 290V*	99.5~140.5	225, 290	42	83	83	42-ZMAC100-100V	13.8, 16.5	
-ZMAC140-225V, 290V*	139.5~180.5					42-ZMAC140-100V	14.6, 17.3		

★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). P.127 Please refer P.125 for cutting condition. We would recommend "B" grade (CBN) insert for Hardened Steel & High Speed boring of Cast Iron.

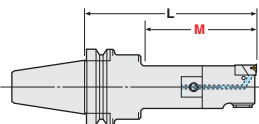
★Please refer P.221, P.108 for Shank&Spacer, and P.93, P.94 for Head.

★Centre Through Coolant function is available as standard.

★For NBT30, modular connection system is applied. Please refer P.221 for Base Holder.

★\* : NBT50-ZMAC100-325V, 375V, 425V, 475V are also available. NBT50-ZMAC140-325V, 375V, 425V, 475V

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



## High Speed Boring ZMAC X-V

Special Hardened light alloy metal head with balancing for preventing from high frequency vibration.  
Ultra high speed boring: MAX.12,000r/min



## ZMAC-V for Multi-Stage Boring Bar

Please contact us for the special boring bar.



Photo. shows NC5 shank.

High Pressure Coolant Through Tool

Please contact us for your application with the boring diameter. P.94  
e.g. NBT40-ZMAC42-150AAV  
Boring dia.:φ43.5mm

2Lock