

ZMAC ADVANCED BORING ARBOR (ZMAC-V)



Boring for Finishing



ZMAC-V

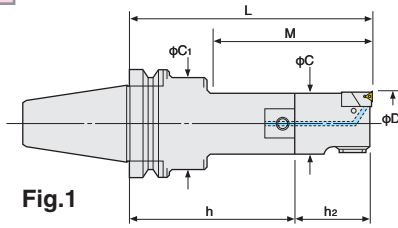


Fig.1

Only for ZMAC16-V

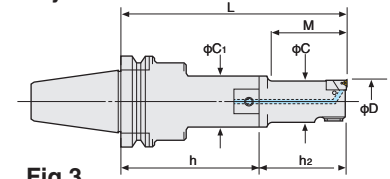


Fig.3

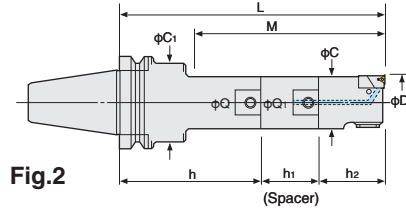


Fig.2

ZMAC100-V, 140-V

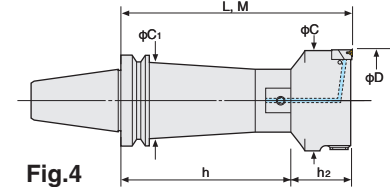


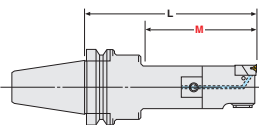
Fig.4

Code No. of the insert tip are shown.

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TAPER	Code No.	Boring Range D	Boring Depth M	C	C1	Shank Code No.	Extension Spacer Code No.	P.127		Weight (kg)	Fig.
								Head No.	Insert No.		
						BT No.-Q-h	Q-Q1-h1	Q- Min.D -h2			
No.40	BT40-ZMAC16 -125V	15.9~20.2	38	15	24	BT40-Q12- 80	-	12-ZMAC16-45V	3MP-C,B	1.9	3
	(IT40) -135V		48					12-ZMAC16-55V			
	-ZMAC20 -120V	19.8~25.2	45	19	30	-Q 9- 80	-	9-ZMAC20-40V	4MP-C,B	1.9	1
	-135V		67								
	-150V		75								
	-ZMAC25 -120V	24.8~32.2	52	24	35	-Q12- 80	-	12-ZMAC25-40V	6MP-C,B	2.0	1
	-150V		90								
	-165V		97								
	-ZMAC32 -150V	31.8~42.2	77	31	42	-Q16- 95	-	16-ZMAC32-55V	4MP-C,B	2.5	1
	-180V		110								
	-195V		122								
	-ZMAC42 -150V	41.8~55.2	97	40	50	-Q20- 80	-	20-ZMAC42-70V	6MP-C,B	3.0	1
	-180V		130								
	-210V		157								
	-ZMAC55 -165V	54.8~70.2	135	53	50	-Q26- 95	-	26-ZMAC55-70V	6MP-C,B	3.9	1
	-210V		180								
	-225V		195								
	-ZMAC70 -165V	69.8~85.2	165	67	64	-Q34- 95	-	34-ZMAC70-70V	6MP-C,B	5.4	1
	-180V		180								
	-225V		225								
-ZMAC85 -195V	84.8~100.2	195	83	62	-Q42- 95	-	42-ZMAC85-100V	6MP-C,B	6.8	2	
										9.0	1

- ★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). 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.107, P.108 for Shank & Spacer, and P.93, P.94 for Head.
- ★Centre Through Coolant function is available as standard.
- ★For BT30, modular connection system is applied. Please refer P.108 for Base Holder.
- ★When L length is required longer than standard, please specify boring depth M.



■ Boring Arbor with Extension Spacer

■ ZMAC-V for Multi-Task Boring Bar

Please contact us for the special boring bar.



High Pressure Coolant Through Tool



ZMAC ADVANCED BORING ARBOR (ZMAC-V)



■ With ZMAC α -V Boring Head
Please add "AA" at the end of Code No.
e.g. BT40-ZMAC42-150AAV



ZMAC α -V

Diameter can be adjusted easily and quickly by new handle with wrench.



Unlock

Adjust diameter

Lock

Code No. of the insert tip are shown.

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TAPER	Code No.	Boring Range D	Boring Depth M	C	C ₁	Shank Code No.	Extension Spacer Code No.	P.127		Weight (kg)	Fig.						
								Head No.	Insert No.								
								Q- Min.D -h ₂									
No.50	BT50-ZMAC16 -140V (IT50) -150V	15.9~20.2	38	15	24	BT50-Q12- 95	—	12-ZMAC16-45V	3MP-C,B	4.7	3						
	12-ZMAC16-55V		4.7														
	-ZMAC20 -150V	19.8~25.2	45	19	40	-Q 9-110	—	9-ZMAC20-40V	4MP-C,B	4.8	1						
	-165V		67			-Q 9-125N				4.8							
	-180V		75			-Q 9-110				4.9							
	-ZMAC25 -135V	24.8~32.2	52	24	44	-Q12- 95	—	12-ZMAC25-40V	4MP-C,B	4.8	1						
	-165V		90			-Q12-125				4.8							
	-180V		97			-Q12- 95				4.9							
	-ZMAC32 -180V	31.8~42.2	77	31	50	-Q16-125N	—	16-ZMAC32-55V	4MP-C,B	5.5	1						
	-210V		110			-Q16-155				5.6							
	-225V		122			-Q16-125N				5.7							
	-ZMAC42 -180V	41.8~55.2	97	40	60	-Q20-110	—	20-ZMAC42-70V	6MP-C,B	6.0	1						
	-195V		130			-Q20-125				6.0							
	-225V		142			-Q20-110				6.4							
	-240V		157			SP20-20-45				6.5							
						SP20-20-60				6.5							
	-ZMAC55 -210V	54.8~70.2	117	53	65	-Q26-140	—	26-ZMAC55-70V	6MP-C,B	7.5	1						
	-240V		182			-Q26-170N				7.6							
	-270V		177			-Q26-140				8.1							
	-ZMAC70 -240V	69.8~85.2	190	67	80	-Q34-170	—	34-ZMAC70-70V	6MP-C,B	10.0	1						
	-270V		220			-Q34-200				10.6							
	-300V		250			-Q34-170				11.5							
	-ZMAC85 -225V	84.8~100.2	182	83	83	-Q42-125	—	42-ZMAC85-100V	6MP-C,B	12.5	1						
	-290V		247			-Q42-190				15.0							
	-315V		272			-Q42-125				16.0							
	-ZMAC100-225V	99.5~140.5	225	95	98	-Q42-125	—	42-ZMAC100-100V	6MP-C,B	12.4	4						
	-290V		290			-Q42-190				15.1							
	-325V		325			-Q42-225A				17.8							
	-375V		375			-Q42-275A				20.5							
	-425V		425			-Q42-325A				23.2							
-ZMAC140-225V	139.5~180.5		225			135				98		-Q42-125	—	42-ZMAC140-100V	6MP-C,B	13.8	4
-290V			290									-Q42-190				16.5	
-325V		325	-Q42-225A	19.2													
-375V		375	-Q42-275A	21.9													
-425V		425	-Q42-325A	24.6													

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BT