

HSK ZMAC ADVANCED BORING ARBOR (ZMAC-V)



Boring for Finishing



ZMAC-V

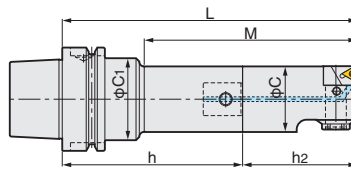


Fig.1

Only for ZMAC16-V

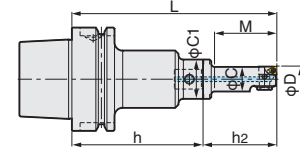


Fig.3

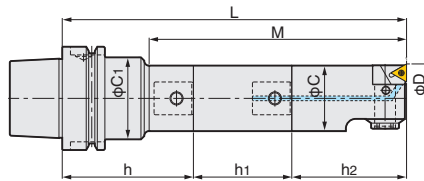


Fig.2

ZMAC100-V, 140-V

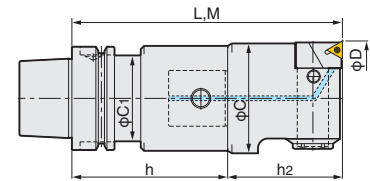


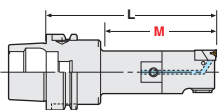
Fig.4

Code No. of the insert tip are shown.

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TAPER	Code No.	Boring Range D	Boring Depth M	C	C ₁	Shank Code No.	Extension Spacer Code No.	P.127		Weight (kg)	Fig
								Head No.	Insert No.		
HSK63A	HSK63A-ZMAC16-125V	15.8~20.2	38	15	24	HSK63A-Q12- 80	—	12-ZMAC16- 45V	3MP-C,B	1.6	3
	-135V		48					12-ZMAC16- 55V		1.6	
	-ZMAC20-120V	19.8~25.2	45	19	30	-Q 9- 80	—	9-ZMAC20- 40V		1.6	1
	-135V		67			-Q 9- 95N				1.6	
	-150V		75			-Q 9- 80				1.7	
	-ZMAC25-120V	24.8~32.2	52	24	35	-Q12- 80	—	12-ZMAC25- 40V		1.7	1
	-150V		90			-Q12-110				1.8	
	-165V		97			-Q12- 80				1.8	
	-ZMAC32-150V	31.8~42.2	77	31	42	-Q16- 95	—	16-ZMAC32- 55V		2.2	1
	-180V		110			-Q16-125				2.4	
	-195V		122			-Q16- 95				2.4	
	-ZMAC42-150V	41.8~55.2	97	40	50	-Q20- 80	—	20-ZMAC42- 70V		2.7	1
	-180V		130			-Q20-110				2.9	
	-210V		157			-Q20- 80				3.1	
	-ZMAC55-165V	54.8~70.2	135	53	50	-Q26- 95	—	26-ZMAC55- 70V		3.6	1
	-210V		180			-Q26-140				4.3	
	-225V		195			-Q26- 95				4.3	
	-ZMAC70-165V	69.8~85.2	165	67	52.4	-Q34- 95	—	34-ZMAC70- 70V		5.1	4
-180V	180		-Q34-110			5.5					
-225V	225		-Q34- 95			6.5					
-ZMAC85-195V	84.8~100.2	195	83	52.4	-Q42- 95	—	42-ZMAC85-100V	8.7			

- ★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.297 for base holder, P.108 for spacer and P.93, P.94 for head.
- ★Centre Through Coolant function is available as standard.
- ★For HSK40A or 50A, modular connection system is applied. Please refer P.297 for Base Holder.
- ★When L length is required longer than standard, please specify boring depth M.
- ★Lubrication Pipe is optional. Please refer P.278



■ Boring Arbor with Extension Spacer

■ ZMAC-V for Multi-Stage Boring Bar P.113

Please contact us for the special boring bar.



High Pressure Coolant Through Tool



HSK ZMAC ADVANCED BORING ARBOR (ZMAC-V)



■ With ZMAC α -V Boring Head
Please add "AA" at the end of Code No.
e.g. HSK63A-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.			
HSK100A	HSK100A-ZMAC 16-140V	15.8~20.2	38	15	24	HSK100A-Q12- 95	—	12-ZMAC 16- 45V	3MP-C,B	3.9	3	
	-150V		48					12-ZMAC 16- 55V		3.9		
	-ZMAC 20-150V	19.8~25.2	45	19	40	-Q 9-110	—	9-ZMAC 20- 40V	3MP-C,B	4.0	1	
	-165V		67							-Q 9-125N		4.0
	-180V		75							-Q 9-110		4.1
	-ZMAC 25-135V	24.8~32.2	52	24	44	-Q12- 95	—	12-ZMAC 25- 40V	3MP-C,B	4.0	1	
	-165V		90							-Q12-125		4.0
	-180V		97							-Q12- 95		4.1
	-ZMAC 32-180V	31.8~42.2	77	31	50	-Q16-125N	—	16-ZMAC 32- 55V	4MP-C,B	4.7	1	
	-210V		110							-Q16-155		4.8
	-225V		122							-Q16-125N		4.9
	-ZMAC 42-180V	41.8~55.2	97	40	60	-Q20-110	—	20-ZMAC 42- 70V	6MP-C,B	5.2	1	
	-195V		130							-Q20-125		5.2
	-225V		142							-Q20-110		5.6
	-240V		157							-Q20-110		5.7
	-ZMAC 55-210V	54.8~70.2	117	53	65	-Q26-140	—	26-ZMAC 55- 70V	6MP-C,B	6.7	1	
	-240V		182							-Q26-170N		6.8
	-270V		177							-Q26-140		8.3
	-ZMAC 70-240V	69.8~85.2	187	67	80	-Q34-170	—	34-ZMAC 70- 70V	6MP-C,B	9.2	1	
	-270V		217							-Q34-200		9.8
	-300V		247							-Q34-170		10.7
	-ZMAC 85-225V	84.8~100.2	187	83	—	-Q42-125	—	42-ZMAC 85-100V	6MP-C,B	11.7	1	
	-290V		252							-Q42-190		14.2
	-315V		277							-Q42-125		15.2
	-ZMAC100-225V	99.5~140.5	225	95	98	-Q42-125	—	42-ZMAC100-100V	6MP-C,B	11.6	4	
	-290V		290							-Q42-190		14.3
	-325V		325							-Q42-225A		17.0
	-375V		375							-Q42-275A		19.7
	-425V		425							-Q42-325A		22.4
	-ZMAC140-225V		139.5~180.5							225		135
-290V	290	-Q42-190		15.7								
-325V	325	-Q42-225A		18.4								
-375V	375	-Q42-275A		21.1								
-425V	425	-Q42-325A		23.8								

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