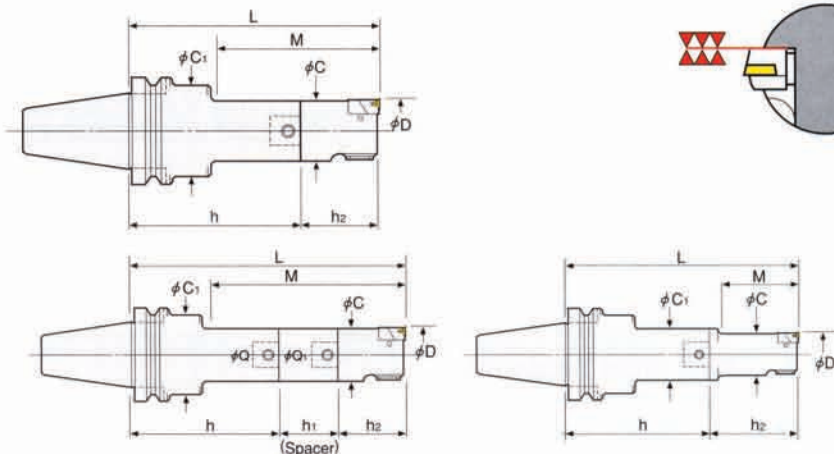




NIKKEN IMP



BT-ZMAC



Code No.	Boring Range D	Boring Depth M	C	C1	Shank Code No.	Extension Spacer Code No.	 for Triangular Insert	 for Rhomboid Insert	Weight (kg)					
							Head No.	Insert No.		Head No.	Insert No.			
BTNo. - Min.D - L					BT No.-Q-h	Q-Q+h1	Q- Min.D -h2	Q- Min.D -h2						
BT40-ZMAC16 -125	15.9 ~ 20.2	38	15	24	BT40-Q12- 80	-	12-ZMAC16-45	-	-	1.9				
-135		48				-	12-ZMAC16-55	-	-	1.9				
-ZMAC20 -120	19.8 ~ 25.2	45	19	30	-Q 9 - 80	-	9-ZMAC20-40	3MP-C, B	-	-	1.9			
-135		67			-Q 9 - 95N	-			-	-	1.9			
-150		75			-Q 9 - 80	SP9-9-30			-	-	2.0			
-ZMAC25 -120	24.8 ~ 32.2	52	24	35	-Q12 - 80	-	12-ZMAC25-40		-	-	2.0			
-150		90			-Q12 - 110	-			-	-	2.1			
-165		97			-Q12 - 80	SP12-12-45			-	-	2.1			
-ZMAC32 -150	31.8 ~ 42.2	77	31	42	-Q16 - 95	-	16-ZMAC32-55		4MP-C, B	16-ZMAC32R-55	CC06-C	2.5		
-180		110			-Q16 - 125	-						-	-	2.7
-195		122			-Q16 - 95	SP16-16-45		-				-	2.7	
-ZMAC42 -150	41.8 ~ 55.2	97	40	50	-Q20 - 80	-	20-ZMAC42-70	6MP-C, B	20-ZMAC42R-70	-		3.0		
-180		130			-Q20 - 110	-				-		-	3.2	
-210		157			-Q20 - 80	SP20-20-60				-		-	3.5	
-ZMAC55 -165	54.8 ~ 70.2	135	53	50	-Q26 - 95	-	26-ZMAC55-70		26-ZMAC55R-70	-		3.9		
-210		180			-Q26 - 140	-				-		-	4.6	
-225		195			-Q26 - 95	SP26-26-60				-	-	4.6		
-ZMAC70 -165	69.8 ~ 85.2	165	67	64	-Q34 - 95	-	34-ZMAC70-70		6MP-C, B	34-ZMAC70R-70	CC08-C	5.4		
-180		180			-Q34 - 110	-						-	-	5.8
-225		225			-Q34 - 95	SP34-34-60						-	-	6.8
-ZMAC85 -195	84.8 ~ 100.2	195	83	62	-Q42 - 95	-	42-ZMAC85-100	-		42-ZMAC85R-100		-	9.0	

MIN. dial readout: ZMAC 32 & above is 0.01 mm on diameter

ZMAC 25 & below is 0.02 mm on diameter. Easy adjustment of 3-5 microns on diameter using our precision screw mechanism

Technical Innovation and tooling development

Double - Contact Support of ZMAC Coated Insert Technology achieve ideal boring.

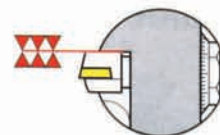
To gain maximum advantage, NIKKEN recommends the high speed boring of Steel, Stainless & Cast Iron **with Identical Coated Insert** → Ideal boring & Long Tool -Life.

For Ultra High Speed Boring of Cast Iron

Era of Cutting speed of 400 - 1000m/min. with CBN Insert

For Hardened Steel HRC 50-60

Ideal boring with identical CBN Insert



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

Code No.	Boring Range D	Boring Depth M	C	C1	Shank Code No.	Extension Spacer Code No	 for Triangular Insert		 for Rhomboid Insert		Weight (kg)	
							Head No.	Insert No.	Head No.	Insert No.		
BTNo. - Min.D - L					BT No.- Q-h	Q-Q1-h1	Q- Min.D -h2		Q- Min.D -h2			
BT50-ZMAC16 -140	14.5 ~ 19.5	38	15	24	BT50-Q12-95	-	12-ZMAC16-45	3MP-C, B	-	-	4.7	
-150		48				-	12-ZMAC16-55		-	-	4.7	
-ZMAC20 -150	19.8 ~ 25.2	45	19	40	-Q 9 -110	-	9-ZMAC20-40		-	-	4.8	
-165		67			-Q 9 -125N	-			-	-	4.8	
-180		75			-Q 9 -110	SP9-9-30			-	-	4.9	
-ZMAC25 -135	24.8 ~ 32.2	52	24	44	-Q12 -95	-	12-ZMAC25-40		-	-	4.8	
-165		90			-Q12 -125	-			-	-	4.8	
-180		97			-Q12 -95	SP12-12-45			-	-	4.9	
-ZMAC32 -180	31.8 ~ 42.2	77	31	50	-Q16 -125N	-	16-ZMAC32-55	4MP-C, B	16-ZMAC32R-55	CC06-C	5.5	
-210		110			-Q16 -155	-					5.6	
-225		122			-Q16 -125N	SP16-16-45					5.7	
-ZMAC42 -180	41.8 ~ 55.2	97	40	60	-Q20 -110	-	20-ZMAC42-70		20-ZMAC42R-70		6.0	
-195		130			-Q20 -125	-					6.0	
-225		142			-Q20 110	SP20-20-45					6.4	
-240		157			-	SP20-20-60					6.5	
-ZMAC55 -210	54.8 ~ 70.2	117	53	65	-Q26 -140	-	26-ZMAC55-70		6MP-C, B		26-ZMAC55R-70	7.5
-240		182			-Q26 -170N	-						7.6
-270		177			-Q26 -140	SP26-26-60						8.1
-ZMAC70 -240	69.8 ~ 85.2	190	67	80	-Q34 -170	-	34-ZMAC70-70	34-ZMAC70R-70		CC08-C	10.0	
-270		220			-Q34 -200	-			10.6			
-300		250			-Q34 -170	SP34-34-60			11.5			
-ZMAC85 -225	84.8 ~ 100.2	187	83	83	-Q42 -125	-	42-ZMAC85-100		42-ZMAC85R-100		12.5	
-290		252			-Q42 -190	-					15.0	
-315		277			-Q42 -125	SP42-42-90					16.0	
-ZMAC100 -225	99.5 ~ 140.5	225	83	83	-Q42 -125	-	42-ZMAC100-100	42-ZMAC100R-100	CC12-C	13.8		
-290		290			-Q42 -190	-				16.5		
-315		315			-Q42 -125	SP42-42-90				17.2		
-ZMAC140 -225	139.5 ~ 180.5	225	83	83	-Q42 -125	-	42-ZMAC140-100			42-ZMAC140R-100	14.6	
-290		290			-Q42 -190	-		17.3				
-315		315			-Q42 -125	SP42-42-90		18.0				

MIN. dial readout: **ZMAC 32 & above** is 0.01 mm on diameter

ZMAC 25 & below is 0.02 mm on diameter. Easy adjustment of 3-5 microns on diameter using our precision screw mechanism

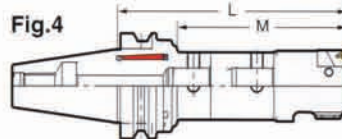
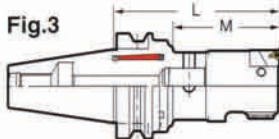
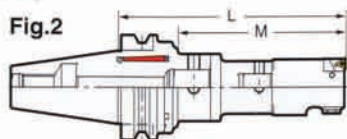
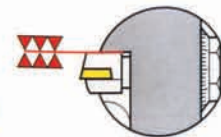
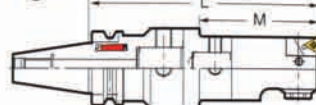

ZMAC


Fig.1



Major Dream Holder	Boring Range D	Boring Depth M	L	Spacer No.	 for Triangular Insert		 for Rhomboid Insert		Fig.
					Head No.	Insert No.	Head No.	Insert No.	
BT30-MDQ26 -60	15.9 ~ 20.2	38	135	SP26-12- 30	12-ZMAC16-45	3MP-C, B	-	-	1
		48	145	SP26-12- 30	12-ZMAC16-55		-	-	1
	19.8 ~ 25.2	55	130	SP26- 9- 30	9-ZMAC20-40		-	-	1
		70	145	SP26- 9- 45			-	-	1
	24.8 ~ 32.2	55	130	SP26-12- 30	12-ZMAC25-40		-	-	1
		85	160	SP26-12- 60			-	-	1
	31.8 ~ 42.2	70	145	SP26-16- 30	16-ZMAC32-55	4MP-C, B	16-ZMAC32R-55	CC06-C	1
		100	175	SP26-16- 60					1
		130	205	SP26-16- 90					1
	41.8 ~ 55.2	85	160	SP26-20- 30	20-ZMAC42-70	6MP-C, B	20-ZMAC42R-70		1
		115	190	SP26-20- 60					1
		155	230	SP26-20-100					1
	54.8 ~ 70.2	104	130	-	26-ZMAC55-70		26-ZMAC55R-70		1
		164	190	SP26-26- 60					1
		194	220	SP26-26- 90					1

BT40-MDQ26 -65	15.9 ~ 20.2	38	140	SP26-12- 30	12-ZMAC16-45	3MP-C, B	-	-	2
		48	150	SP26-12- 30	12-ZMAC16-55		-	-	2
	19.8 ~ 25.2	55	135	SP26- 9- 30	9-ZMAC20-40		-	-	2
		70	150	SP26- 9- 45			-	-	2
	24.8 ~ 32.2	55	135	SP26-12- 30	12-ZMAC25-40		-	-	2
		85	165	SP26-12- 60			-	-	2
	31.8 ~ 42.2	70	150	SP26-16- 30	16-ZMAC32-55	4MP-C, B	16-ZMAC32R-55	CC06-C	2
		100	180	SP26-16- 60					2
		130	210	SP26-16- 90					2
	41.8 ~ 55.2	85	165	SP26-20- 30	20-ZMAC42-70	6MP-C, B	20-ZMAC42R-70		2
		115	195	SP26-20- 60					2
		155	235	SP26-20-100					2
	54.8 ~ 70.2	104	135	-	26-ZMAC55-70		26-ZMAC55R-70		3
		164	195	SP26-26- 60					4
		194	225	SP26-26- 90					4

MIN. dial readout: ZMAC 32 & above is 0.01 mm on diameter

ZMAC 25 & below is 0.02 mm on diameter. Easy adjustment of 3-5 microns on diameter using our precision screw mechanism



Innovative new feature of
Double Contact Support.



High Rigidity Double Contact Support

New Locking Screw &
the support gives higher rigidity



High Precision/Easy micro- adjustment /High durability

Thread on cartridge:
Hardness of HRC50-55 & precision ground
internal threads of dial ring:
Specially heat-treated to HV800.



ZMAC

Special Hardened light alloy metal head
with balancing for preventing from high
frequency vibration.
Ultra high speed boring:Max.12,000min-1
Pl. contact us for your application with the boring diameter.
e.g. BT40-ZMAC42-150AA
Boring dia.:Ø43.5mm

Major Dream Holder	Boring Range D	Boring Depth M	L	Spacer No.	 for Triangular Insert		 for Rhomboid Insert		Fig.		
					Head No.	Insert No.	Head No.	Insert No.			
NBT50-MDQ26 - 80	15.9 ~ 20.2	38	155	SP26-12- 30	12-ZMAC16-45	3MP-C, B	-	-	2		
		48	165	SP26-12- 30	12-ZMAC16-55		-	-	2		
	19.8 ~ 25.2	55	150	SP26- 9- 30	9-ZMAC20-40		-	-	2		
		70	165	SP26- 9- 45			-	-	2		
	24.8 ~ 32.2	55	150	SP26-12- 30	12-ZMAC25-40		-	-	2		
		85	180	SP26-12- 60			-	-	2		
	31.8 ~ 42.2	70	165	SP26-16- 30	16-ZMAC32-55	4MP-C, B	16-ZMAC32R-55	CC06-C	2		
		100	195	SP26-16- 60					2		
		130	225	SP26-16- 90					2		
	41.8 ~ 55.2	85	180	SP26-20- 30	20-ZMAC42-70	6MP-C, B	20-ZMAC42R-70		2		
		115	210	SP26-20- 60					2		
		155	250	SP26-20-100					2		
	54.8 ~ 70.2	87	150	-	26-ZMAC55-70		26-ZMAC55R-70	3			
		147	210	SP26-26- 60				4			
	NBT50-MDQ34 - 90	69.8 ~ 85.2	96	160	-		34-ZMAC70-70	6MP-C, B	34-ZMAC70R-70	CC08-C	3
			156	220	SP34-34- 60						4
			187	250	SP34-34- 90						4
	NBT50-MDQ42 -100	84.8 ~ 100.2	136	200	-		42-ZMAC85-100		42-ZMAC85R-100		CC12-C
196			260	SP42-42- 60	4						
226			290	SP42-42- 90	4						
99.5 ~ 140.5		155	200	-	42-ZMAC100-100	42-ZMAC100R-100	3				
		215	260	SP42-42- 60			4				
		245	290	SP42-42- 90			4				
139.5 ~ 180.5	155	200	-	42-ZMAC140-100	42-ZMAC140R-100	3					
	215	260	SP42-42- 60			4					
	245	290	SP42-42- 90			4					

MIN. dial readout: **ZMAC 32** & above is 0.01 mm on diameter

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