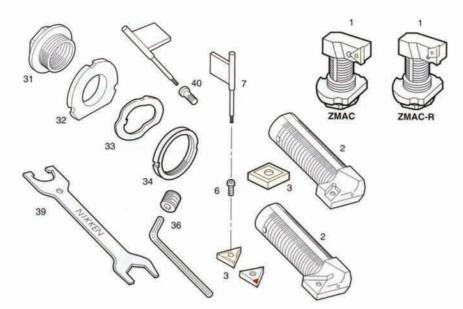


## **ZMAC UNIT PART LIST**

NIKKEN IMP





ZMAC Boring Heads come complete with ZMAC Boring Unit.See below part no. for spares.

Different codes for the Triangular Insert unit & Rhomboid Insert unit are shown below: column 1: Boring unit, column 2: Cartridge, column 3: Insert, column 6: Insert clamp screw, column 7: Insert clamp handle, but all other parts (column 31 to 34,36,39) are common to both. N.B. Other manufacturers ISO Standard Insert Tip may have different centre hole diameters.

	1	2	3	6	7	31	32	33	34	36	39	40
Boring Range	ZMAC Unit	Cartridge	Triangular Insert	Insert Clamp Screw	Insert Clamp Handle	Dial Ring	Lock Flange	Wave Spring	Preload Nut	Lock Screw	Adjustme nt Handle	Unit Clamp Bolt
15.9 ~ 20.2	M 2HZ- 16	M 2HZ- 16C			Т6	9M216D	9M216L	9M216W	9M216P	M361	M392	M2045
19.8 ~ 25.2	M 2HZ- 20	M 2HZ- 20C	3MP-C,B			9M220D	9M220L			M362		
24.8 ~ 32.2	M 3HZ- 25	M 3HZ- 25C				9M325D	9M325L	M333	9M325P	M363	M393	
31.8 ~ 42.2	M 4HZ- 32	M 4HZ- 32C	4MP-C,B			9M432D	9M432L	M334	M344	M365	M394	M2577
41.8 ~ 55.2	M 5HZ- 42	M 5HZ- 42C			Т8	9M542D 9M542L	OMEAGI	M335	9M542P	M364	78.0005	IVIZ5//
54.8 ~ 70.2	M 5HZ- 55	M 5HZ- 55C					IVISSS	91VD42P	M366	ZM395		
69.8 ~ 85.2	M 7HZ- 70	M 7HZ- 70C	6MP-C,B	100077		9M770D	9M770L	M337	9M770P	M360	M397	M3090
84.8 ~ 100.2	M10HZ- 85	M10HZ- 85C	UNIT-C,D	M2577			9M108L	M330	9M108P	M367	M390	M4012
99.5 ~ 140.5	M10HZ-100	M10HZ-100C				9M108D				M368		
139.5 ~ 180.5	M10HZ-140	M10HZ-140C	4							M369		

- Each unit and Cartridge are supplied with out Insert Tip. Cartridge are not be supplied alone, please order ZMAC unit.
- Cartridge for base forming of bore is an option. Please specify the diameter and width of base forming.
- For Diamond Insert Tip (6MP-D), M2562D\* must be used.

	1	2	3	6	7	
Boring Range	ZMAC Unit	Cartridge	Rhomboid Insert	Insert Clamp Screw	Insert Clamp Handle	
31.8 ~ 42.2	M 4HZ- 32R	M 4HZ- 32RC		M2560		
41.8 ~ 55.2	M 5HZ- 42R	M 5HZ- 42RC	CC06-C	M2577	T8	
54.8 ~ 70.2	M 5HZ- 55R	M 5HZ- 55RC		IVIZOTT		
69.8 ~ 85.2	M 7HZ- 70R	M 7HZ- 70RC	CC08-C	M4090		
84.8 ~ 100.2	M10HZ- 85R	M10HZ- 85RC	CC08-C	M4012	T15	
99.5 ~ 140.5	M10HZ-100R	M10HZ-100RC	CC12-C	M5012	115	
139.5 ~ 180.5	M10HZ-140R	M10HZ-140RC	0012-0	100012		

Marie Carlo	Cartrido	Head		
Boring Range		(6)	Clamp Bolt	
41.8 ~ 55.2	M 5HZ- 42CH	M 5HZ- 42RCH	M512	
54.8 ~ 70.2	M 5HZ- 42CH	M 5HZ- 42RCH	M512	
69.8 ~ 85.2	M 7HZ- 70CH	M 7HZ- 70RCH	M625	
84.8 ~ 100.2	M10HZ- 85CH	M10HZ- 85RCH	M825	
99.5 ~ 140.5	M10HZ-100CH	M10HZ-100RCH	M835	
139.5 ~ 180.5	M10HZ-100CH	M10HZ-100RCH	M835	

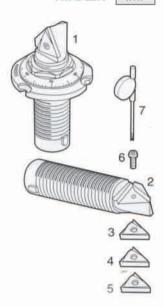
For ZMAC42 or larger type, Cartridge is made up 2 parts, therefore it's possible to exchange cartridge heads.

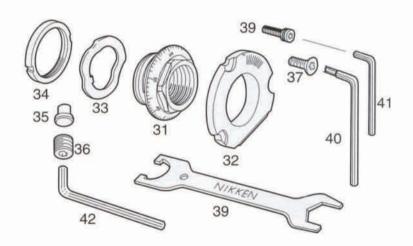


## MICRO-CUT BORING UNIT PARTS LIST

## NIKKEN IMP

	1	2	3	4	5	6	7	
Boring Range	BCB Unit	Cartridge	Insert for Alloy Steel	Insert for Cast Iron	Insert for Steel, Stainless Steel	Insert Clamp Bolt	Insert Clamp Handle	
12.7 ~ 14.5	M 1-12.7	3.5	1MP-E	1MP-F	1MP-T	Med	108	
14.5 ~ 19.5	M 1-14.5	-	IIVIP-E	IIVIP-F	IIVIP-I	M61		
19 ~ 22.5	M 2-19	M 2-19 C				M68	138	
22 ~ 29.5	M 2-22	M 2-22 C	3MS-E	3MS-F	3MS-T			
29 ~ 41	M 3-29	M 3-29 C				M63		
38 ~ 50	M 5-38	M 5-38 C	CMP	CMD	CMD C	140577	Т8	
48 ~ 65	M 5-48	M 5-48 C	6MP-E	6MP-F	6MP-C	M2577		
62 ~ 90	14.7.00	M 7.00 O	10MP-E			1107	208	
82 ~ 110	M 7-62	M 7-62 C		10MP-T	10MP-T	M67		
100 ~ 140	M10-100	M10-100C				M60	1	





	31	32	33	34	35	36	37	38	39	40	41	42		
Boring Range	Dial Ring	Lock Flange	Wave Spring	Pre-Load Nut	Lock Metal	Lock Screw	Unit Mounting Bolt A	Unit Mounting Bolt B	Adjustment Handle	Wrench for Unit Mounting Bolt A	Wrench for Unit Mounting Bolt B	Wrench for Lock Screw		
12.7 ~ 14.5	DOM		D004	D004	D004	D044	D054	D004		D004	14204	95	M4 07	MAE
14.5 ~ 19.5	B311 B321	B321	B331	B341	B351	B361	- 7	B381	M391	5	M1.27	M1.5		
19 ~ 22.5	DOAG	B322	22 9M216W	9M216P	B352	B362	- B382	Mana		TC	M2			
22 ~ 29.5	B312					M363		B382	M392	-	T6	MZ		
29 ~ 41	B313	B323	M333	9M325P	B353	B363		B384	M393	9	138	M2.5		
38 ~ 50	DOAE	B325	M335	0145400	B355	B365	-	B386	14005	¥	208	M3		
48 ~ 65	B315	B326	M335	9M542P	B356	B366	M375	-	M395	M405	-	M4		
62 ~ 90	D047 D007	14007	0147700	D057	B367	14077	D007	14007	14407					
82 ~ 110	B317	B327	M337	9M770P	B357	B368	M377	B387	M397	M407	M405	M5		
100 ~ 140	B310	B320	M330	9M108P	B350	B360	M370	B380	M390 M400			M6		