

NIKKEN

NIKKEN KOSAKUSHO EUROPE LIMITED

NIKKEN POLYGON C6 TOOL SYSTEM



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PRODUCTIVITY SOLUTIONS



Nikken strive to offer performance and capabilities from our products to benefit not only machine tool but also cutting tools and consumables. Our new range of products, designed specifically for 'Polygon' style spindles, expand the choice and solutions and provided by our revolutionary Major Dream vibration dampening system.

MAJOR DREAM MULTI-LOCK MILLING CHUCK—MDC



MAJOR DREAM SLIM CHUCK—MDSK & SK



MAJOR DREAM PRO-END MILL ARBOR—MDPE



MAJOR DREAM BORING ARBOR—MDQ



BORING SYSTEM AND ACCESSORIES



ACCESSORIES FOR NIKKEN TOOLING SYSTEMS



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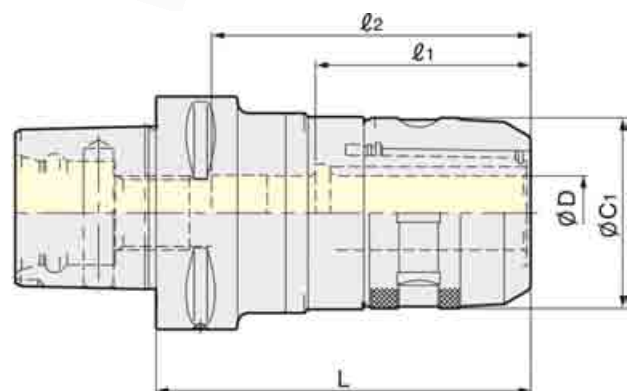
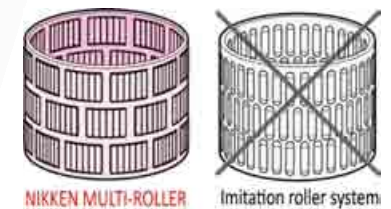
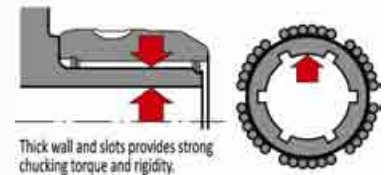
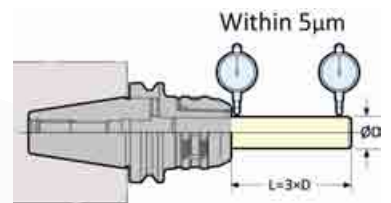
NIKKEN POLYGON C6 TOOL SYSTEM

MULTI-LOCK MILLING CHUCK



KEY BENEFITS:

- ◇ Built-in 'Major Dream' vibration dampening system.
- ◇ Excellent gripping torque.
- ◇ Superior rigidity and durability.
- ◇ Fine run-out accuracy.
- ◇ Increased tool life and cutting performance.



MULTI-LOCK CAPACITIES & SPECIFICATIONS

Order Code	ØC1	ØD	L	ℓ1	ℓ2	Collet	Weight (kg)
C6-MDC16-90	44	16	90	50	81	KM16,CCK16	1.4
C6-MDC20-100	52	20	100	57	85	KM20,CCK20	1.8
C6-MDC25-110	60	25	110	58	65	KM25,CCK25	2.2
C6-MDC32-130	68	32	130	70	83	KM32,CCK32	2.5

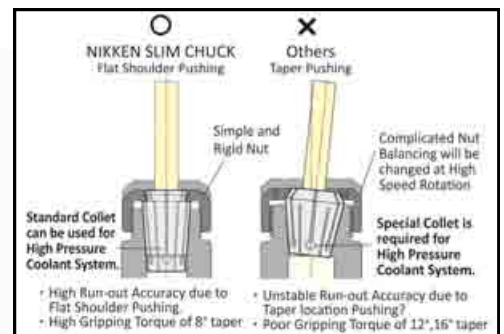
Applicable spanners: MDC16=9HC16, MDC20=9HC22, MDC25=9HC25, MDC32=9HC32

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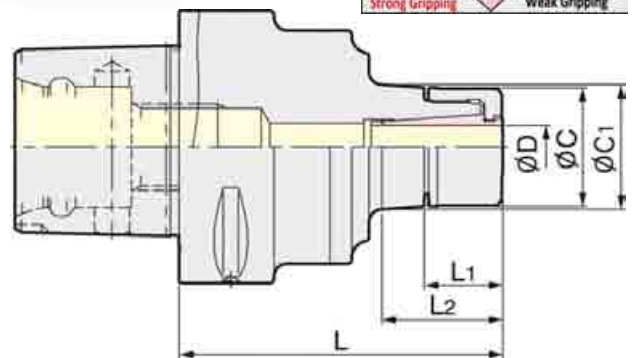
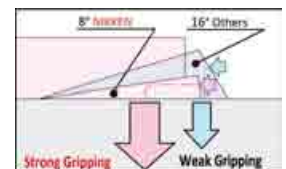
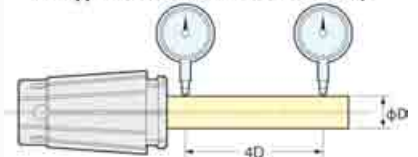
MAJOR DREAM SLIM CHUCK



KEY BENEFITS:

- ◇ Built-in 'Major Dream' vibration dampening system.
- ◇ Power of TiN Bearing Nut.
- ◇ 8° Taper for stronger gripping power and increased rigidity.
- ◇ Increased tool life and cutting performance.

'A' Type Collet Run-out within 3μ



SLIM CHUCK CAPACITIES & SPECIFICATIONS

Order Code	φC	φC1	φD	L	L1	L2	Collet	Weight (kg)
C6-MDSK10-65,90	27.5	27.5,31	3.0-10.0	65,90	18.2	19,43	SK10-□A	1.0,1.3
C6-MDSK16-70,90	40	40.0,42.8	3.0-16.0	70,90	23	24,43	SK16-□A	1.0,1.5
C6-MDSK20-90	48	52.6	4.0-20.0	90	25.2	50.7	SK20-□A	1.9
*C6-SK10-90	27.5	27.5	3.0-10.0	90	22	63	SK10-□A	1.1
*C6-SK16-90	40	40	3.0-16.0	90	30	63	SK16-□A	1.3

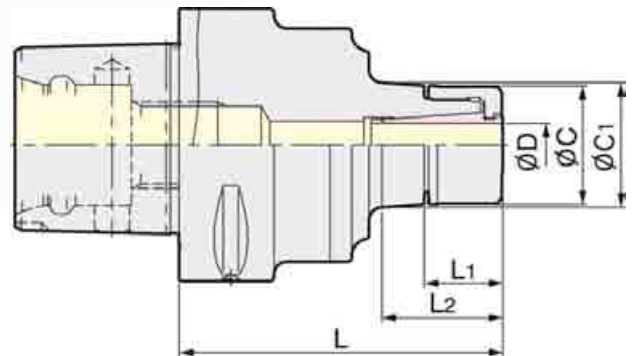
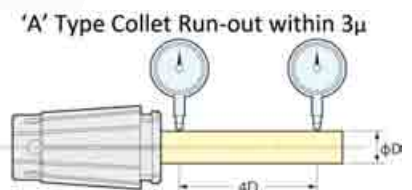
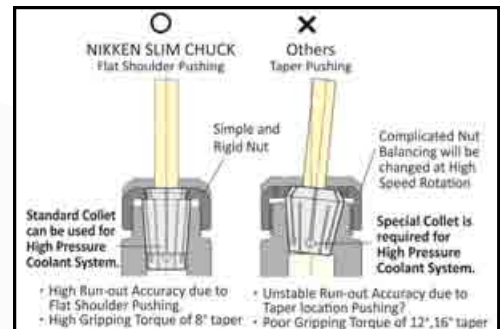
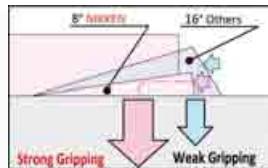
Applicable spanners: MDSK10=GH10, MDSK16=GH16, MDSK20=GH20. SK10=SKL-10, SK16=9HC16. *These items are based upon standard Nikken Slim Chuck and do not incorporate 'Major Dream' dampening or 'G' type nut.

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MAJOR DREAM SLIM CHUCK



KEY BENEFITS:

- ◇ Built-in 'Major Dream' vibration dampening system.
- ◇ Power of TiN Bearing Nut.
- ◇ 8° Taper for stronger gripping power and increased rigidity.

ALSO AVAILABLE AS STANDARD SLIM CHUCK

Order Code	ØC	ØD	L	Collet
*C6-SK6-60,90	19.5	0.7-6.0	65,90	SK6-□
*C6-SK10-60,90,120,150	27.5	1.75-10.0	60,90,120,150	SK10-□
*C6-SK16-60,90,120,150	40	2.75-16.0	60,90,120,150	SK16-□
*C6-SK20-70,90	48.5	4.0-20.0	70,90	SK20-□

Applicable spanners: SK6=SKL-6W, SK10=SKL-10, SK16=9HC16, SK20=9HC22 *These items are based upon standard Nikken Slim Chuck and do not incorporate 'Major Dream' dampening or 'G' type nut.

MAJOR DREAM SLIM CHUCK CAPACITIES & SPECIFICATIONS

Order Code	ØC	ØC1	ØD	L	L1	L2	Collet	Weight (kg)
C6-MDSK10-65,90	27.5	27.5,31	3.0-10.0	65,90	18.2	19,43	SK10-□A	1.0,1.3
C6-MDSK16-70,90	40	40.0,42.8	3.0-16.0	70,90	23	24,43	SK16-□A	1.0,1.5
C6-MDSK20-80,90	48	52.6	4.0-20.0	80,90	25.2	50.7	SK20-□A	1.9

Applicable spanners: MDSK10=GH10, MDSK16=GH16, MDSK20=GH20.

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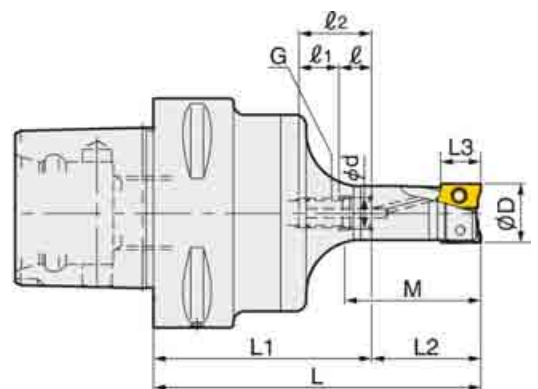
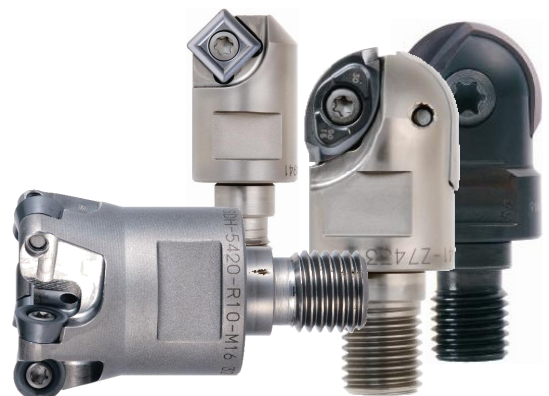
NIKKEN POLYGON C6 TOOL SYSTEM

PRO-END MILL ARBOR



KEY BENEFITS:

- ◇ Built-in 'Major Dream' vibration dampening system.
- ◇ Compatible with all Depo style cutters and accessories.
- ◇ Nikken Pro-End Mill available.
- ◇ Increased tool life and cutting performance.



PRO-END MILL ARBOR CAPACITIES & SPECIFICATIONS

Order Code	ØD	L1	ØD	ℓ	ℓ1	ℓ2	G	Cutter Ref. (option)	Insert
C6-MDPE-M8-60,95	16	60,95	8.5	9	11	20	M8	M8-MDPE16-30	AOMT12
C6-MDPE-M10-65,95	20	65,95	10.5		12	21	M10	M10-MDPE20-30	AOMT12
C6-MDPE-M12-60,90	25	60,90	12.5		15	24	M12	M12-MDPE25-35	AOMT18
C6-MDPE-M16-70,100	32	70,100	17		16	25	M16	M16-MDPE32-40	AOMT18

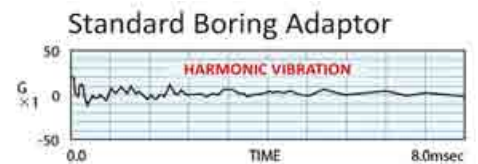
Nikken MDPE is centre through as standard. For further Nikken cutter details and insert options please see separate catalogue 2802E.

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Q26 BORING BASE HOLDER

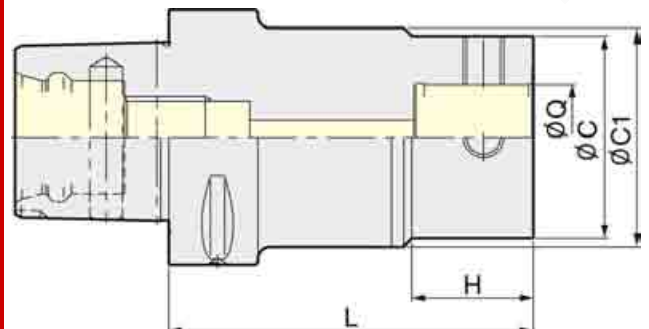


RAC SYSTEM
Ø25 to 100mm

ZMAC SYSTEM
Ø16 to 70mm

KEY BENEFITS:

- ◇ Built-in 'Major Dream' vibration dampening system.
- ◇ Compatible with all Nikken boring heads and accessories.
- ◇ Precision face contact interface.
- ◇ Increased tool life and cutting performance.



Q26 BORING BASE HOLDER CAPACITIES & SPECIFICATIONS

Order Code	ØQ	L	C	C1	H	Weight (Kg)	Boring Capability
C6-MDQ26-90	26	90	50	54	30	1.4	Ø16-100

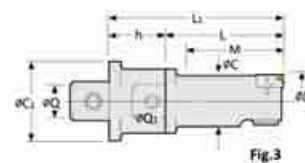
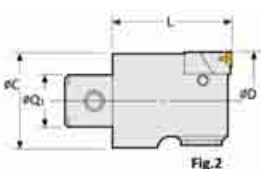
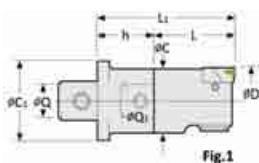
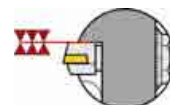
Base holder is centre through as standard. Please specify appropriate boring heads for centre through 'C' coolant supply.

NIKKEN POLYGON C6 TOOL SYSTEM

Q26 BORING OPTIONS 1



MODULAR TYPE ZMAC BORING HEAD—FINISHING Ø16mm to Ø70mm

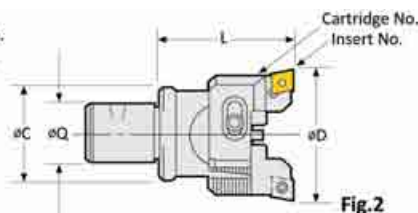
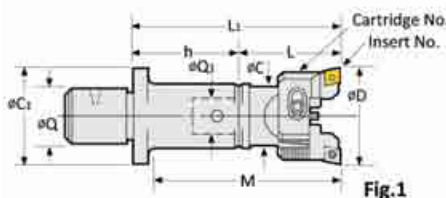


MODULAR TYPE ZMAC BORING HEAD CAPACITIES & SPECIFICATIONS

Set/Head Code No.	Range D	Depth M	Coupling Q	Spacer	Head	Remarks							
(Q-Q1-Min.D-L1/L				Q-Q1-h	Q1-Min.D-L	h	L1	Q1	C	C1	Unit No.	Insert	Fig.
Q26-12-ZMAC16-75	15.9-20.2	38	26	SP26-12-30	12-ZMAC16-45	30	75	12	15	50	M2HZ-16	3MP-C,B	3
Q26-12-ZMAC16-85		48		SP26-12-30	12-ZMAC16-55		85	12	15	50	M2HZ-20		
Q26-9-ZMAC20-70	19.8-25.2	55		SP26-9-30	9-ZMAC20-40	30	70	9	19	50	M3HZ-25	4MP-C,B	1
Q26-12-ZMAC25-70	24.8-32.2	55		SP26-12-30	12-ZMAC25-40	30	70	12	24	50	M4HZ-32		
Q26-16-ZMAC32-85	31.8-42.2	70		SP26-16-30	16-ZMAC32-55	30	85	16	31	50	M5HZ-42	6MP-C,B	2
Q26-20-ZMAC42-100	41.8-55.2	85		SP20-20-30	20-ZMAC42-70	30	100	20	40	50	M5HZ-55		
26-ZMAC55-70	54.8-70.2	70		-	26-ZMAC55-70	-	-	-	53	-	M5HZ-55		

'C' Grade insert supplied as standard for Steel, Stainless and Cast Iron. 'B' Grade should be specified for Hardened Steel or high speed boring of Cast Iron (pg 86 CAT303A). Items marked 'Fig 1' & 'Fig 3' include stepped spacer to allow connection to Nikken Q26 base holder. Centre through coolant is available as an option, please specify 'C' at the end of code e.g. 26-ZMAC55-70C. Lightweight hardened Aluminium head is also available for high speed applications. please add 'AA' to end of code for this option e.g. 26-ZMAC55-70AA.

RAC TYPE BALANCE-CUT BORING HEAD—ROUGHING Ø25mm to Ø70mm



MODULAR TYPE RAC BALANCE-CUT HEAD CAPACITIES & SPECIFICATIONS

Set/Head Code No.	Range D	Depth M	Coupling Q	Spacer	Head	Remarks							
Q-Q1-Min D-L				Q-Q1-h	Q1-Min.D-L	h	L1	Q1	C	C1	Cartridge	Insert	Fig.
Q26-12-RAC25-85	25-32	70	26	SP26-12-30	12-RAC25-55	30	85	12	24	50	RCC-025	CC07	1
Q26-16-RAC32-85	32-45			SP26-16-30	16-RAC32-55			16	31		RCC-32	CC08	
Q26-20-RAC43-100	43-55	85		SP26-20-30	20-RAC43-70			20	40		RCC-43	CN08	
26-RAC53-70	53-70	70		-	-	-	-	50	-	RCC-53	2		

Standard cartridge is suitable Cast Iron or Mild Steel. Cartridges and inserts for Stainless/Alloy Steel (E), Aluminium and Cast Iron (A) or for through hole (K) are also available (pg 84 CAT303A). Add 'E', 'A', or 'K' to code e.g. Q26-12-RAC25-55A. Items marked 'Fig 1' include stepped spacer to allow connection to Nikken Q26 base holder. Centre through coolant is available as an option, please specify 'C' at the end of code e.g. 26-RAC53-70-C.

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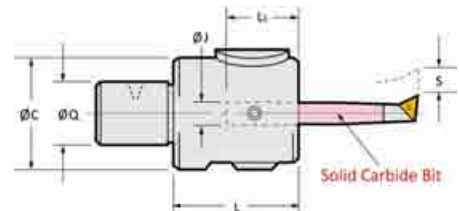
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NIKKEN POLYGON C6 TOOL SYSTEM

Q26 BORING OPTIONS 2



DJ BORING HEAD WITH DJ BORING BITS—FINE FINISHING $\phi 3\text{mm}$ to $\phi 50\text{mm}$



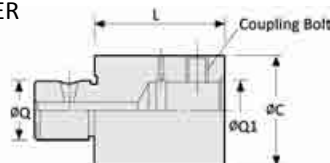
DJ BORING HEAD SET CAPACITIES & SPECIFICATIONS

DJ No.	Code No.	Boring Range	Boring Depth	Q	L	C	Bit Hole Size	L1	Bit Stroke	Bit Code No. (Standard Accessories)	Insert
	Q No.—Min. D-L	D	M				J		S		
DJ3	Q26-DJ3-36	3-28	14-80	26	36	45	10	24	5.2	J10- 3-14	-
										J10- 5-35	CC03-C
										J10- 8-40	3MP-C
										J10-18-65	6MP-C
DJ8	Q26-DJ8-44N	8-50	60-130	26	44	54	16	32	6.0	J16- 8-40	3MP-C
										J16-18-60	6MP-C
										J16-28-65	
										J16-38-65	

Each set of DJ3 and DJ8 includes four pieces of DJ Boring Bits as shown above with additional accessories; Inserts, Insert clamp handle (T6, T8, (10S for DJ3)) and micro adjusting handle (M2.5). 'C' grade coated carbide inserts are supplied as standard. DJ Boring head without boring bits is also available, e.g. Q26-DJ3-36-BD or Q26-DJ8-44-BD.

SPACERS FOR MODULAR BORING HEADS

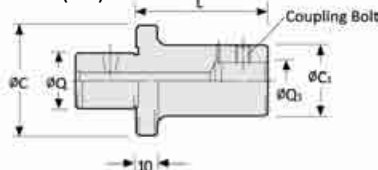
STRAIGHT EXTENSION SPACER



STRAIGHT EXTENSION SPACERS

Code No.	Coupling Diameter		C	Coupling
	Q	Q1		
Q-Q1-L	Q	Q1	C	Coupling
SP9-9-30,45	9	9	19	B19
SP12-12-30,45,60	12	12	24	B12
SP16-16-30,45,60	16	16	31	B16
SP20-20-45,60	20	20	40	B20
SP26-26-60,90	26	25	50	B26N

STEPPED EXTENSION SPACER (A1)



STEPPED EXTENSION SPACERS

Code No.	Coupling Diameter		C	C1	Coupling
	Q	Q1			
Q-Q1-L	Q	Q1	C	C1	Coupling
SP12-9-45	12	9	24	19	B19
SP16-9-45	16	9	31	19	B19
-12-60		12		24	B12
SP20-9-45	20	9	40	19	B19
-12-60		12		24	B12
-16-60,90		16		31	B16
SP26-9-30,45	26	9	50	19	B19
-12-30,60		12		24	B12
-16-30,60,90		16		31	B16
-20-30,60,100		20		40	B20

A1 EXTENDED STEPPED SPACERS

Coupling Diameter		C	C1	Max. L
Q	Q1			
26	9	50	19	85
	12		24	115
	16		31	140
	20		40	180
	26		50	190

FOR A1 TYPE SPACER

Max. L/D = 6 times.

Please specify the 'L' length when ordering A1 type spacer e.g. SP26-9-85-A1 (where Q1 = 9, & L = 85)



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