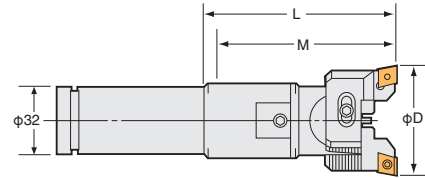
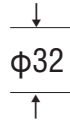


Straight Shank BALANCE CUT BORING BAR

NIKKEN



K-RAC

You can use following boring tools with C32 Milling Chuck. It is convenient for Various/Small Volume Productions. Use with Straight Shank ZMAC-V Boring Bar.

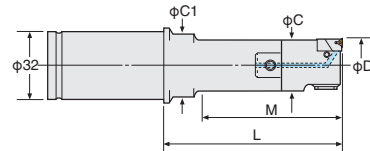
P.80

Code No.	Boring Range D	Boring Depth M	Shank Code No.	Head No.	Insert No.	Weight (kg)
K32-RAC25- 75E	25~ 32	70	K32-Q12-20	12-RAC 25- 55E	CC07-C	0.8
-115E		93	-Q12-60			0.9
-RAC32- 75E	32~ 45	70	-Q16-20	16-RAC 32- 55E	CC08-C	1.1
-110E			-Q16-55			1.3
-RAC43-110E	43~ 55	105	-Q20-40	20-RAC 43- 70E	CC12-C	1.7
-RAC53-110E	53~ 70		-Q26-40	26-RAC 53- 70E		1.8
-RAC70-110E *	70~ 100			26-RAC 70- 70E		1.9

★Balance cut boring bar on above table is the boring bar with the cartridges (E) for steel, stainless and cast iron. "C" grade (Coated) insert tip is supplied as standard. P.78
 ★Boring bar with the cartridges for heavy duty boring of iron and cast iron P.80, for aluminium (A) P.82 and for through hole and multi sheets (K) . P.84
 Please refer P.124 for cutting condition.
 ★Shank (P.109) and head (P.85) are delivered in separate packages.
 ★For centre through coolant type except **K32-RAC70-110E** marked *, please add "-C" at the end of Code No. e.g. **K32-RAC53-110E-C**

Straight Shank ZMAC ADVANCED BORING BAR

NIKKEN



K-ZMAC-V

You can use following boring tools with C32 Milling Chuck. It is convenient for Various/Small Volume Productions. **JAPAN PAT.**

Code No.	Boring Range D	Boring Depth M	C	C ₁	Shank Code No.	P.127		P.128		Weight (kg)
						Head No.	Insert No.	Head No.	Insert No.	
K32-ZMAC16- 65V	15.9~20.2	38	15	-	K32-Q12-20	12-ZMAC16-45V				0.5
- 75V		48				12-ZMAC16-55V				0.5
-ZMAC20- 60V	19.8~25.2	55	19	-	-Q 9-20	9-ZMAC20-40V	3MP-C,B			0.6
- 80V		63								-Q 9-40
-ZMAC25- 60V	24.8~32.2	55	24	-	-Q12-20	12-ZMAC25-40V				0.6
-100V		83								-Q12-60
-ZMAC32- 75V	31.8~42.2	70	31	-	-Q16-20	16-ZMAC32-55V	4MP-C,B	16-ZMAC32R-55V	CC06-C	0.9
-110V										-Q16-55
-ZMAC42-110V	41.8~55.2	105	40	-	-Q20-40	20-ZMAC42-70V	6MP-C,B	20-ZMAC42R-70V		1.5
-ZMAC55-110V	54.8~70.2									-Q26-40

★All Codes shown are for Heads with Triangular Inserts.

For Heads with Rhomboidal Inserts, please add "R" to the Code No. e.g.) **K32-ZMAC32 R -75V**

★MIN. dial read out: **ZMAC25-V** and smaller is 0.02mm on dia. **ZMAC32-V** and larger is 0.01mm on dia.
 ★"C" grade (coated) Insert for Steel, Stainless and Cast Iron is supplied as standard with the Head. (Smooth Boring and Long tool-life) Please refer P.125 for cutting condition.
 We would recommend "B" grade (CBN) Insert for Hardened Steel and High Speed Boring of Cast Iron.
 ★Centre Through Coolant function is available as standard.