DINOX NC TOTAL TOOLING SYSTEM

EN

Milling Chuck (CAT Type)

- High Precision Strong Clamping Force

KORLOY

High Precision Strong Clamping Force

CAT Milling Chuck

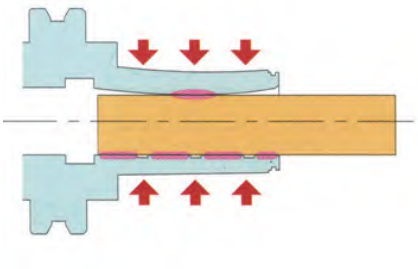
Technical Information for CAT Milling Chuck

Code System

CAT40B	C	1 1/4	4.72
Spindle B = AD/B Coolant	Milling Chuck	Tool Dia.	Length

Radial Groove

- Guarantees even clamping force and minimizes vibration/noise by applying a slot groove in the radial direction



Axial Groove

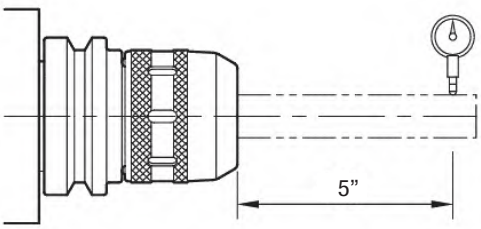
- Axial slot grooves prevent tool slippage by discharging chips during machining
- Clamping Range : Ø3/4 ~ Ø1 1/4

Strong Clamping Force

- X-SLOT system provides strong clamping force from the entrance
  - CAT40B-C1 1/4 : Min. 260kgf·m
  - CAT50B-C1 1/4 : Min. 360kgf·m

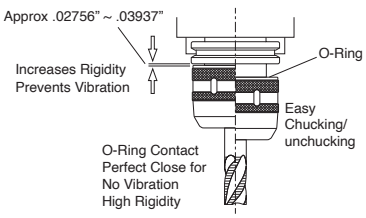
High Precision

- Within 10㎛ at 5” pitch
- T.I.R : Under 10㎛
- L : 5”



Using O-ring for reduced cutting vibration and increased tool life

[High rigidity maximize flexibility]



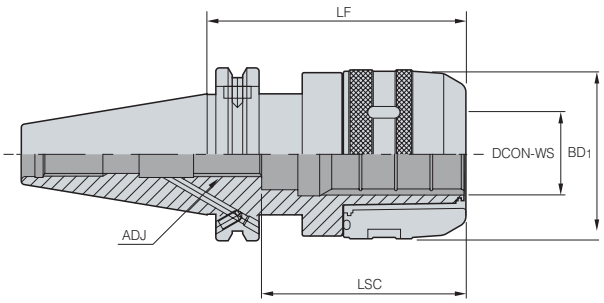
- O-ring increases the stability in milling chuck by preventing the chips and coolant oil from flowing into the tool
- It also plays an important role in increasing the durability of the milling chuck by preventing the inflow of chips and cutting oil

Sub-zero treatment after carburizing

- Remaining austenite of the DINE Milling Chuck is removed through ultra-low temperature treatment below -148° after carburizing heat treatment
- This improves hardness and wear resistance and prevents plastic deformation

Milling Chuck

ASME B5.50-CAT Taper | 10μm T.I.R | 260~360 kgf.m Clamping Force | AD/B | Milling | Drilling



(inch)

Designation		K.P.CODE	STOCK	DCON-WS	LF	BD1	LSC	ADJ	COLLET
CAT40B-	C3/4-5.91	6-01-083586	◆	3/4	5.91	2.09	2.68	M16*P2.0	C3/4
	C3/4-3.35	6-01-083585	◆	3/4	3.35	2.09	2.68	M16*P2.0	C3/4
	C1-5.91	6-01-083588	◆	1	5.91	2.44	2.95	M16*P2.0	C1
	C1-3.74	6-01-083587	◆	1	3.74	2.44	2.95	M16*P2.0	C1
	C1.1/4-4.72	6-01-083589	○	11/4	4.72	2.76	3.07	M16*P2.0	C1 1/4
	C1.1/4-5.91	6-01-083590	○	11/4	5.91	2.76	3.07	M16*P2.0	C1 1/4
CAT50B-	C3/4-5.31	6-01-083592	◆	3/4	5.31	2.09	2.76	M16*P2.0	C3/4
	C3/4-6.50	6-01-083593	◆	3/4	6.50	2.09	2.72	M16*P2.0	C3/4
	C3/4-3.54	6-01-083591	◆	3/4	3.54	2.09	2.72	M16*P2.0	C3/4
	C1-5.31	6-01-083595	◆	1	5.31	2.44	2.95	M16*P2.0	C1
	C1-6.50	6-01-083596	◆	1	6.50	2.44	2.95	M16*P2.0	C1
	C1-3.54	6-01-083594	◆	1	3.54	2.44	2.95	M16*P2.0	C1
	C1.1/4-5.31	6-01-083598	○	11/4	5.31	2.91	3.74	M16*P2.0	C1 1/4
	C1.1/4-6.50	6-01-083599	○	11/4	6.50	2.91	3.74	M16*P2.0	C1 1/4
	C1.1/4-3.54	6-01-083597	○	11/4	3.54	2.76	3.07	M16*P2.0	C1 1/4

※ Dual contact taper : Made to order

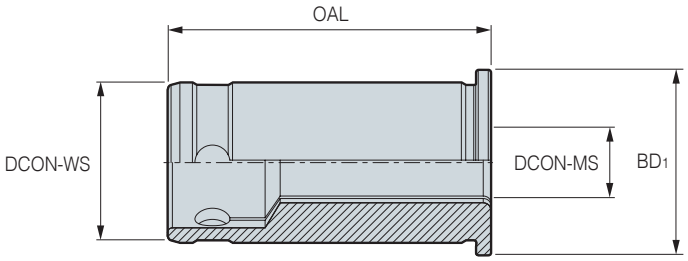
●: Korea stock ◆: US stock ○: Made to order

Parts

Included with the Tool		
Division	Collet	Spanner
Parts / Designation		
C3/4	C3/4	57-60
C1	C1	61-65
C1 1/4	C1 1/4	75-79

C Collet

Straight Collet



(inch)

Designation		K.P.CODE	STOCK	DCON-WS	OAL	DCON-MS	BD1
C3/4-	1/4	6-01-083600	◆	3/4	2.09	1/4	0.98
	3/8	6-01-083601	◆	3/4	2.09	3/8	0.98
	1/2	6-01-083602	◆	3/4	2.09	1/2	0.98
	5/16	6-01-083603	◆	3/4	2.09	5/16	0.98
	5/8	6-01-083604	◆	3/4	2.09	5/8	0.98
	7/16	6-01-083605	◆	3/4	2.09	7/16	0.98
C1-	1/2	6-01-083606	◆	1	2.42	1/2	1.14
	1/4	6-01-083607	◆	1	2.42	1/4	1.14
	3/4	6-01-083608	◆	1	2.42	3/4	1.14
	3/8	6-01-083609	◆	1	2.42	3/8	1.14
	5/16	6-01-083610	◆	1	2.42	5/16	1.14
	5/8	6-01-083611	◆	1	2.42	5/8	1.14
	7/16	6-01-083612	◆	1	2.42	7/16	1.14
C1 1/4-	1/4	6-01-083613	○	1 1/4	2.54	1/4	1.46
	5/16	6-01-083614	○	1 1/4	2.54	5/16	1.46
	3/8	6-01-083615	○	1 1/4	2.54	3/8	1.46
	7/16	6-01-083616	○	1 1/4	2.54	7/16	1.46
	1/2	6-01-083617	○	1 1/4	2.54	1/2	1.46
	5/8	6-01-083618	○	1 1/4	2.54	5/8	1.46
	3/4	6-01-083619	○	1 1/4	2.54	3/4	1.46
	13/16	6-01-083620	○	1 1/4	2.54	13/16	1.46
	1	6-01-083621	○	1 1/4	2.54	1	1.46

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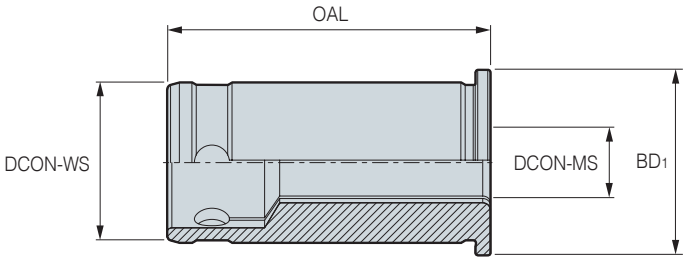
C Collet

Straight Collet



Designation		K.P.CODE	STOCK	DCON-WS(Inch)	OAL(Inch)	DCON-MS(mm)	BD1(Inch)
C3/4-	6	6-01-037509	○	3/4	2.09	6	0.98
	8	6-01-037510	○	3/4	2.09	8	0.98
	10	6-01-037511	○	3/4	2.09	10	0.98
	12	6-01-037512	○	3/4	2.09	12	0.98
	16	6-01-037513	○	3/4	2.09	16	0.98
C1-	6	6-01-037521	○	1	2.42	6	1.14
	8	6-01-037522	○	1	2.42	8	1.14
	10	6-01-037523	○	1	2.42	10	1.14
	12	6-01-037524	○	1	2.42	12	1.14
	16	6-01-037525	○	1	2.42	16	1.14
	20	6-01-037526	○	1	2.42	20	1.14
C1 1/4-	6	6-01-037535	○	1 1/4	2.54	6	1.46
	8	6-01-037536	○	1 1/4	2.54	8	1.46
	10	6-01-037537	○	1 1/4	2.54	10	1.46
	12	6-01-037538	○	1 1/4	2.54	12	1.46
	16	6-01-037539	○	1 1/4	2.54	16	1.46
	20	6-01-037540	○	1 1/4	2.54	20	1.46
	25	6-01-037541	○	1 1/4	2.54	25	1.46

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⚠ For the safe metalcutting

- Use safety supplies such as protective gloves to prevent possible injury while touching the edge of tools.
- Use safety glasses or safety cover to hedge possible dangers. Inappropriate usage or excessive cutting condition may lead tool's breakage or even the fragment's scattering.
- Clamp the workpiece tightly enough to prevent its movement while its machining.
- Properly manage the tool change phase because the inordinately used tool can be easily broken under the excessive cutting load or severe wear, and it may threat the operator's safety.
- Use safety cover because chips evacuated during cutting are hot and sharp and may cause burns and cuts. To remove chips safely, stop machining, put on protective gloves, and use a hook or other tools.
- Prepare for fire prevention measures as the use of the non-water soluble cutting oil may cause fire.
- Use safety cover and other safety supplies because the spare parts or the inserts can be pulled out due to centrifugal force while high speed machining.

KORLOY

Head Office: Holystar B/D, 326, Seocho-daero, Seocho-gu, Seoul, 06633, Republic of Korea
Tel: +82-2-522-3181 Fax: +82-2-522-3184, +82-2-3474-4744 Web: www.korloy.com E-mail: sales.khq@korloy.com

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