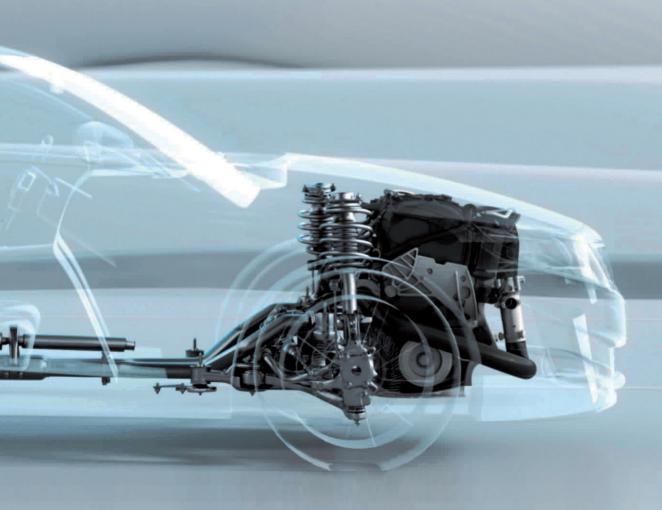
# Track Milling Tools

**C.V-Joint** 

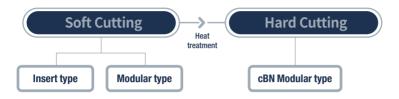


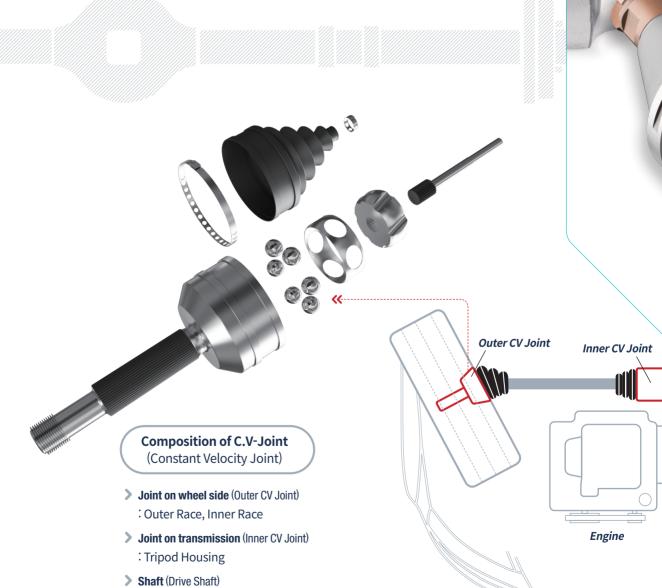




## Track Milling Tools







: Axis connecting outer CV Joint and inner CV Joint

#### **TRACK MILLING?**

(Ball) Track milling is a type of machining to mill the path where the bearing balls pass through.



#### **Track Milling before Heat Treatment**

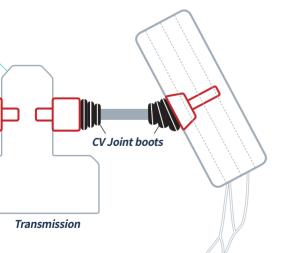


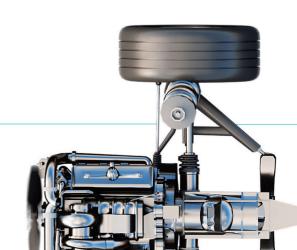
#### **Insert type**

- Economical 2 cornered insert
- More economical than modular type







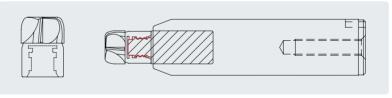


#### Modular type

- Screw thread clamping system designed for high rigidity and stability with increase in precision machining.
- · Helical cutting edge reduces cutting load resulting in longer tool life.
- Cutting edges with 3~ 5 corners increase productivity with high feed.
- Ball or radius shape of cutting edge is applicable according to demands.

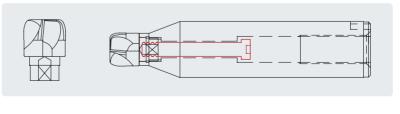
#### Thread clamping

- The most stable clamping system in soft cutting.
- Clamping = a modular (a female screw) + a holder (a male screw)



#### Pressed clamping

- Modular clamping with a bolt
- Clamping = a modular (a female screw) + a bolt









#### **Hard Cutting**

#### **Track Milling after Heat Treatment**

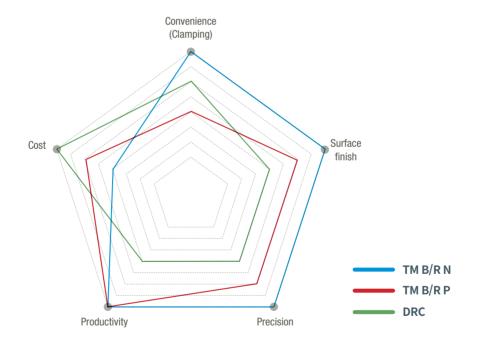
#### cBN modular type

- · Carbide body with cBN cutting edge
- · High precision in finishing heat-treated parts and high hardness parts



### Track Milling Tools Selection Guide





Туре	Tools	Convenience (Clamping)	Precision	Surface finish	Productivity	Cost
Medulestree	TM B/R N (Threaded)	***	****	****	****	**
Modular type	TM B/R P (Pressed)	**	***	***	****	***
Insert type	DRC	***	**	**	**	****





#### < Modular type >



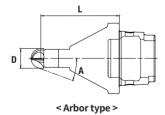
	HSK63 -	тм	N	16.55	- 75.00
Holder	Holder type	Item	Clamping system	Machining dia.	Center distance
	HSK63C, BT40/50 SS = Shank type	TRACK MILLING	N = Threaded P = Pressed	(mm)	

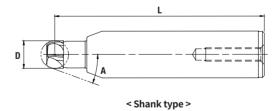
#### < Insert type >



	KBE	16.55	DRC	- CV
Holder	Item	Machining dia.	Insert	Holder type
	Korloy Ball Endmill	(mm)		CV∶Shank type HSK63C∶Arbor type

#### Order Form





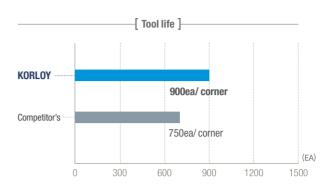
#### Data Sheet <Example>

Туре	Insert type	Modular type (threaded)	Modular type (pressed)	Modular type cBN
<b>D</b> (Ball diameter)		16.55		
A (Setting angle)		20°		
L (Distance between base level and center of ball)		70		
Holder type		HSK63C		



#### Application Examples

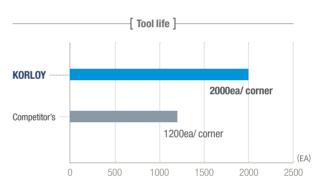




Part	Outer Race	TOOL	Insert - radius type		
Workpiece	S55CKN	Cutting conditions	vc:163m/min, fz:0.21mm/t, ap:1.5mm, D:14.37mm, dry		
Application	Soft Cutting	Holder	KBE14.37DRC-CV	Head	DRC14.37 CX161D



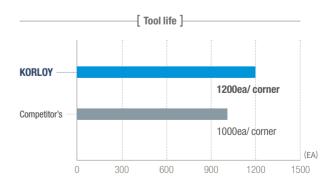




Part	Outer Race	TOOL	Threaded modular type: ball type		
Workpiece	SM53C	Cutting conditions	vc∶200m/min, fz∶0.2mm/t, ap∶3~4mm, D∶25mm, dry		
Application	Soft Cutting	Holder	BT50-TMN23.0-136	Head	TMBN25.0 - 4S PC30Y





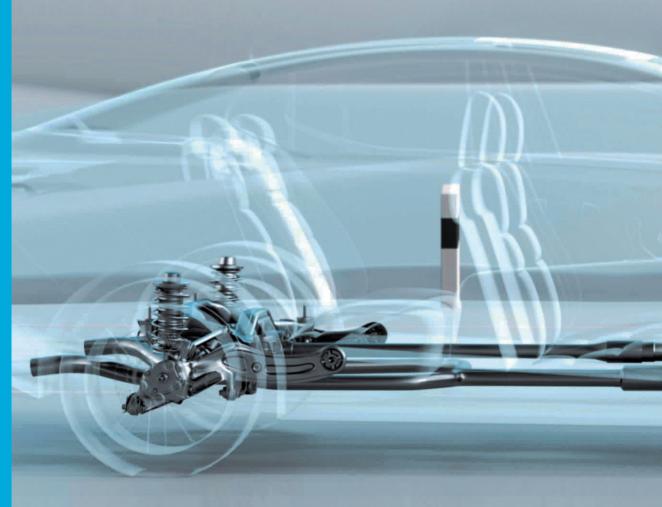


Part	Inner Race	TOOL	CBN modular type		
Workpiece	SCM420H	Cutting conditions	vc: 170m/min, fz: 0.08mm/t, ap: 0.1~0.2mm, D: 17.6mm, dry		
Application	Hard Cutting	Holder	HSK63C-TMP17.6-75	Head	TMBP17.6-4H DBN7500



## KORLOY Track Milling Tools







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