KORLOY
TECH-NEWS

Tangen-Pro
TP2P



Tangential Shoulder Milling Tool

This milling tool series with its tangential clamping system increases stable machining and productivity, while improving perpendicularity

- **Superior Clamping Stability**
  The tangential clamping system enables high speed and high feed machining with its wedge-shaped inserts
- **Improved Perpendicularity**
  A high quality milling tool and optimized blade design improves surface finish and perpendicularity
- **Higher Productivity**
  High speed and high feed machining result in an exceptional chip removal rate per minute



KORLOY

Tangential Shoulder Milling Tool

Tangen-Pro TP2P



Insert



Shank

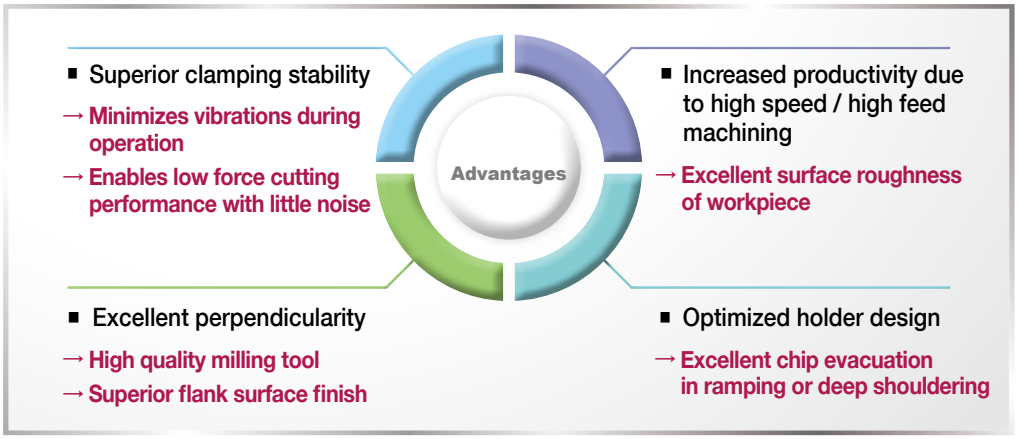


Cutter

The accelerated development of industrial structures has complicated the forming of the workpiece shapes more than ever before. The clamping area for a jig or a vise becomes narrow and leads to tool vibration and imperfect machining conditions. Workpiece materials are also evolving to hard-to-cut materials and high hardness in order to achieve higher durability for industrial components. This is often said to be the major cause of shortened tool life and unexpected tool breakage in many modern metal cutting applications. So companies dealing with unstable workpiece clamping and hard-to-cut materials has a growing demand for cutting tools that are able to solve these problems.

TP2P responds to these demands by using the tangential clamping system and wedge-shaped inserts to improve the clamping stability of the tool itself. Therefore unstable clamping of the workpiece can be off-set by a strong clamping force of the tool. In addition, a sharp chip breaker and high helix angle were applied to the insert design for stable cutting performance in hard-to-cut materials and high hardened workpieces. These design details lead to exceptional increases in tool life.

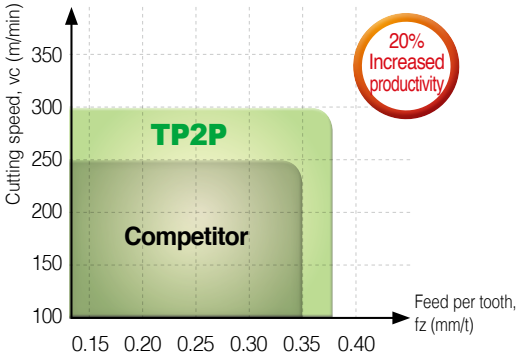
Additionally, the tangential-type clamping system facilitates securing chip pockets and enables multiple-corner use to boost productivity. TP2P features low force cutting performance even at high speeds and high feeds thanks to its optimized blade design that effectively reduces vibration and cutting resistance during operations. Now productivity can be improved over non-tangential designs by more than 30% due to increases in table feeds, stable clamping, and high speed/high feed rates. The Tangen-Pro TP2P shows excellent performance in P, M, K type materials with its specialized design and grades developed specifically for the most challenging metal cutting applications.
KORLOY's Tangen-Pro TP2P is one of the most advanced tangential type milling tools available to meet the demand of the industrial market today.



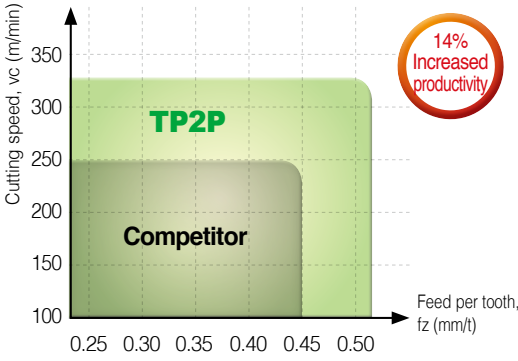
Application Range

•High speed / high feed capability improves productivity compared to competitors

• ap (mm) = 14, ae (mm) = 10



• ap (mm) = 8, ae (mm) = 10



Code System

[Insert]

L	N	K	T	17	07	-	08	P	N	R	-	MM
Insert shape L : L type	**Relief angle of major cutting edge** N: 0°	**Tolerance** K : K Class	**Shape of cross section** T: T type	**Cutting edge length** 17: 17 mm	**Height of cutting edge** 07: 7 mm		**Nose R** 08: R0.8	**Approach angle** P: 90°	**Relief angle of minor cutting edge** N: 0°	**Hand** R: Right-handed		**Chip breaker** MM: General cutting ML: Light cutting

[Shank type]

TP	2	P	S	050	R	-	2	W	32	-	130	-	LN17
Tangen-Pro	**No. of corner** 2: 2 corner	**Approach angle** P: 90°	**Type** S: Shank	**Machining diameter** 050: Ø50	**Oil hole & Hand** R: With oil hole, Right-handed NR: Without oil hole, Right-handed		**No. of tooth** 2: 2 teeth	**Shank type** W: Weldon C: Cylinder	**Shank diameter** 032: Ø32		**Overall length** 130: 130 mm		**Applicable insert** LN08: LNKT08 LN14: LNKT14 LN17: LNKT17

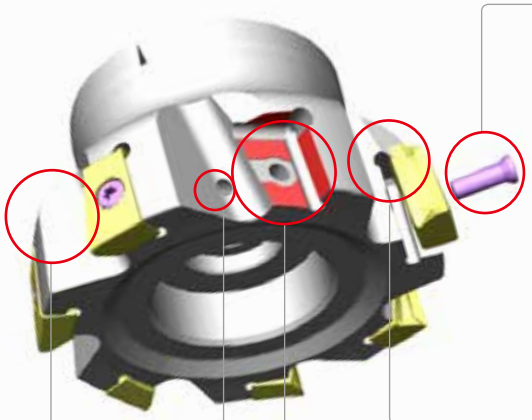
[Cutter type]

TP	2	P	C	M	080	R	-	22	-	7	-	LN17
Tangen-Pro	**No. of corner** 2: 2 corner	**Approach angle** P: 90°	**Type** C: Cutter	**Arbor type** M: Metric A: Inch None : Asia	**Machining diameter** 080: Ø80	**Oil hole & Hand** R: With oil hole, Right-handed NR: Without oil hole, Right-handed		**Internal diameter** 22: 22 mm		**No. of tooth** 7: 7 teeth		**Applicable insert** LN08: LNKT08 LN14: LNKT14 LN17: LNKT17

Cutter Features

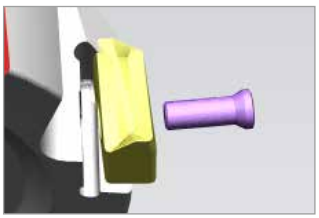
•Tangential clamping system, wedge-shaped inserts and wide seat area
→ Higher clamping stability
→ Lower vibrations and cutting resistance during machining

•Optimized H/D design with curved surface for smooth chip flow
→ Excellent chip evacuation in ramping or deep shouldering



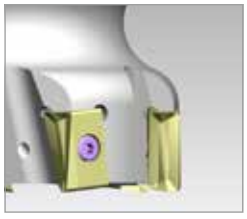
Tangential clamping

• Multi-corner use
→ High feed machining availability



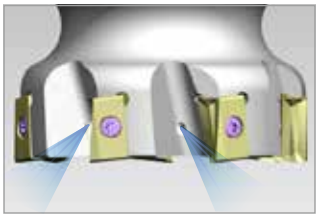
Efficient holder design

• Smoother chip evacuation in slotting or deep shouldering



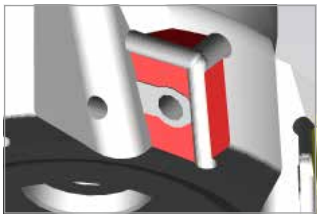
Through coolant system

• Improved chip evacuation
• Longer tool life due to insert cooling



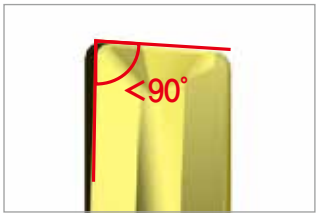
Wide seat area

• Strong clamping force



Wedge type clamping

• Stable insert life



Features

- **Clamping stability** gained through tangential clamping system and wedge-shaped inserts
- **Excellent surface finish** nearly perfect perpendicularity, and highly even flank surface compared to competitors designs
- **Improved productivity** due to high rake angles and sharp cutting edges which lead to lower cutting resistance → Ideally suited for high speed and high feed machining

Insert Features

Wedge type clamping area

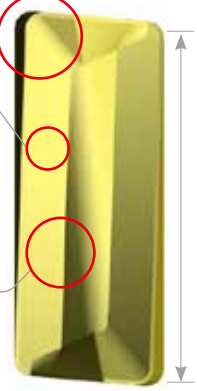
- Clamping in wedge form on seats
  → Creates strong clamping force

High rake angle chip breaker

- High rake angle applied
- Produces smooth chip flow
  → Extended insert life

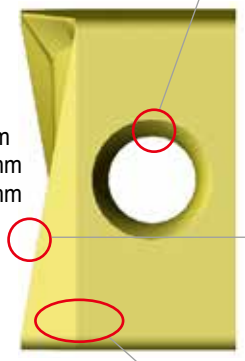
Convex projection

- Improved chip evacuation
- Enhances rigidity



Max. ap

- LNKT08: 8.0 mm
- LNKT14: 12.7 mm
- LNKT17: 16.5 mm



Side hole (tangential type)

- Higher clamping stability

High rake angle cutting edges

- Improves cutting performance while reducing cutting load

2-level flank relief surface

- 1 st reverse positive relief surface enhances rigidity
- 2 nd negative relief surface enables stable clamping
  → Improved chipping resistance and surface finish

Chip Breaker Features

- Chip breaker **MA**

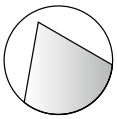
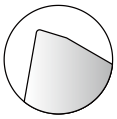
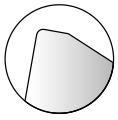


- Chip breaker **ML**



- Chip breaker **MM**



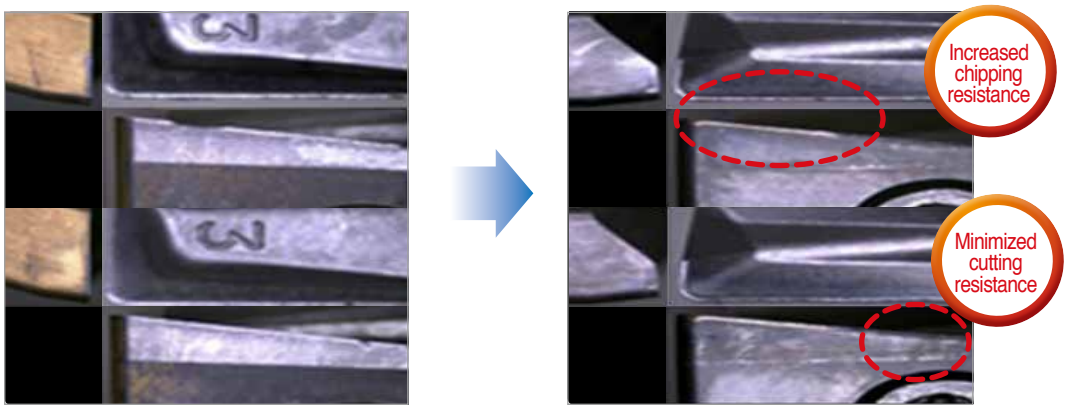
Chip breaker	Cutting edge shape	Application	Features
MA		For aluminum	■ Sharp cutting edges for excellent cutting performance in aluminum machining ■ Buffed surface for excellent chip flow and welding resistance
ML		For Light cutting	■ Chip breaker design for low cutting resistance that provides excellent tool life and quality surface finishes in light cutting and hard-to-cut materials
MM		For General cutting	■ Universal design for general shoulder milling operations, highly suitable in most applications

Performance Evaluation

- **Workpiece** 42CrMo4 (DIN), SCM440 (KS), 4140 (AISI), 300 (L) x 200 (W) x 100 (h), Steel rectangular tube
- **Cutting conditions** vc (m/min) = 250, fz (mm/t) = 0.2, ap (mm) = 14, ae (mm) = 10, Dry
- **Machining method** Shouldering
- **Tools** **Insert** LNKT170708PNR-MM (PC5300) **Holder** TP2PCM080R-27-7-LN17

- Stable clamping improves chipping resistance under high speed cutting conditions over vc (m/min) = 250
  → Minimized unexpected tool breakage
- Optimized cutting edge design
  → Minimized cutting resistance

Wear resistance evaluation

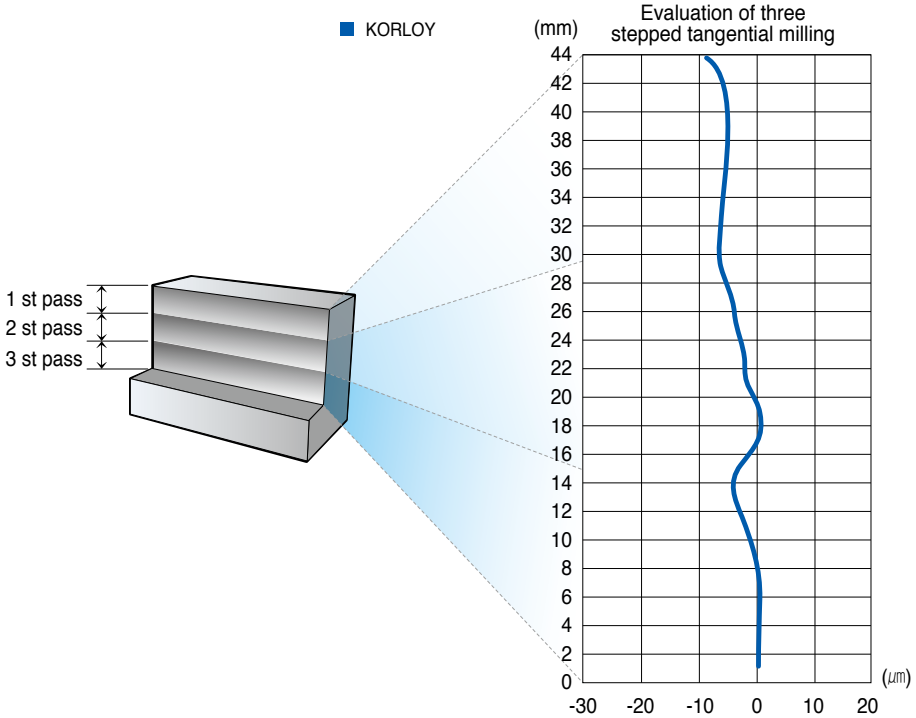


[Competitor] [TP2P]

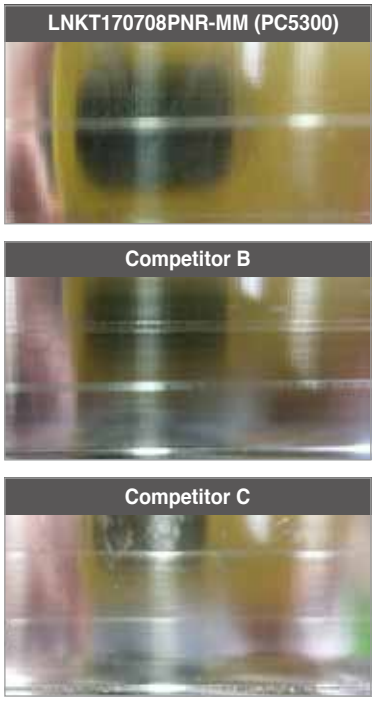
Perpendicularity Evaluation

- **Workpiece** C45 (ISO), SM45C (KS), 1045 (AISI), 300 (L) x 200 (W) x 100 (h), Steel rectangular tube
- **Cutting conditions** vc (m/min) = 150, fz (mm/tooth) = 0.15, ap (mm) = 15, ae (mm) = 5, Dry
- **Machining method** Multiple passes in depth, measured after three passes of 15 mm each, in total 45 mm (measurement of perpendicularity and flank surface roughness)
- **Tools** **Insert** LNKT170708PNR-MM (PC5300) **Holder** TP2PCM080R-27-7-LN17

Perpendicularity Evaluation



[Comparison graph of measured perpendicularities]



[Comparison pictures of flank surface finish]

Grade Guideline by Workpiece Type

Cutting conditions		P		K	N
		Carbon steel	Alloy steel	Cast iron	Aluminum
Grade	High speed cutting	PC5300	PC5300	PC6510	H01
	General cutting	PC5400	PC5300	PC6510	H01
	Interrupted cutting	PC5400	PC5400	PC5300	H01

Recommended Cutting Conditions

LNKT08

Workpiece		Grade	vc (m/min)	fz (mm/t)	Max. ap (mm)	Applicable insert
P	Steel	PC5300	150~240	0.25~0.05	8.0	LNKT0804□□PNR-MM
		PC5400	130~210	0.25~0.05	8.0	
K	Cast iron	PC6510	100~250	0.25~0.05	8.0	LNKT0804□□PNR-ML
		PC5300	100~200	0.25~0.05	8.0	
N	Aluminum	H01	500~1000	0.25~0.05	8.0	LNKT0804□□PNR-MA

※ The above data refer to general cutting conditions and can be adjustable to the speed of 300m/min and the feed per tooth of 0.5mm/t depending on user environment.

LNKT14

Workpiece		Grade	vc (m/min)	fz (mm/t)	Max. ap (mm)	Applicable insert
P	Steel	PC5300	150~240	0.25~0.05	12.7	LNKT1406□□PNR-MM
		PC5400	130~210	0.25~0.05	12.7	
K	Cast iron	PC6510	100~250	0.25~0.05	12.7	LNKT1406□□PNR-ML
		PC5300	100~200	0.25~0.05	12.7	
N	Aluminum	H01	500~1000	0.25~0.05	12.7	LNKT1406□□PNR-MA

※ The above data refer to general cutting conditions and can be adjustable to the speed of 300m/min and the feed per tooth of 0.5mm/t depending on user environment.

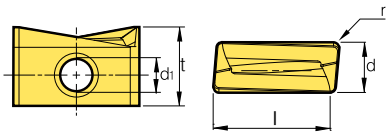
LNKT17

Workpiece		Grade	vc (m/min)	fz (mm/t)	Max. ap (mm)	Applicable insert
P	Steel	PC5300	150~240	0.25~0.05	16.5	LNKT1707□□PNR-MM
		PC5400	130~210	0.25~0.05	16.5	
K	Cast iron	PC6510	100~250	0.25~0.05	16.5	LNKT1707□□PNR-ML
		PC5300	100~200	0.25~0.05	16.5	
N	Aluminum	H01	500~1000	0.25~0.05	16.5	LNKT1707□□PNR-MA

※ The above data refer to general cutting conditions and can be adjustable to the speed of 300m/min and the feed per tooth of 0.5mm/t depending on user environment.

Applicable Insert

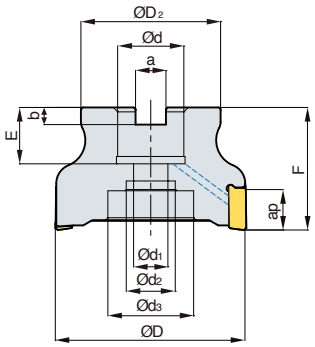
(mm)

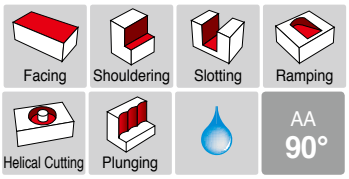
Shape	Designation		Coated			Uncoated	Dimensions (mm)					Figure
			PC5300	PC5400	PC6510	H01	l	d	t	r	d_1	
	LNKT	080404PNR-MA					8.0	4.2	6.6	0.4	2.8	
		080408PNR-MA					8.0	4.2	6.6	0.8	2.8	
		140608PNR-MA					12.7	6.65	10.0	0.8	4.0	
		170704PNR-MA					16.5	7.0	11.0	0.4	4.5	
		170708PNR-MA					16.5	7.0	11.0	0.8	4.5	
		170712PNR-MA					16.5	7.0	11.0	1.2	4.5	
		170716PNR-MA					16.5	7.0	11.0	1.6	4.5	
		170720PNR-MA					16.5	7.0	11.0	2.0	4.5	
	LNKT	080404PNR-ML					8.0	4.2	6.6	0.4	2.8	
		080408PNR-ML					8.0	4.2	6.6	0.8	2.8	
		140608PNR-ML					12.7	6.65	10.0	0.8	4.0	
		170704PNR-ML					16.5	7.0	11.0	0.4	4.5	
		170708PNR-ML	●	●	●		16.5	7.0	11.0	0.8	4.5	
		170712PNR-ML					16.5	7.0	11.0	1.2	4.5	
		170716PNR-ML					16.5	7.0	11.0	1.6	4.5	
		170720PNR-ML					16.5	7.0	11.0	2.0	4.5	
	LNKT	080404PNR-MM					8.0	4.2	6.6	0.4	2.8	
		080408PNR-MM					8.0	4.2	6.6	0.8	2.8	
		140608PNR-MM					12.7	6.65	10.0	0.8	4.0	
		170704PNR-MM					16.5	7.0	11.0	0.4	4.5	
		170708PNR-MM	●	●			16.5	7.0	11.0	0.8	4.5	
		170712PNR-MM					16.5	7.0	11.0	1.2	4.5	
		170716PNR-MM					16.5	7.0	11.0	1.6	4.5	
		170720PNR-MM					16.5	7.0	11.0	2.0	4.5	



TP2PCM-LN08







- AR: -6°
- RR: -26°~ -22°

(mm)

Designation		⊚	ØD	ØD2	Ød	Ød1	Ød2	Ød3	a	b	E	F	ap	kg
TP2PCM	040R-16-6-LN08	6	40	35	16	9	14	-	8.4	5.6	16	40	8.0	0.19
	040R-16-7-LN08	7	40	35	16	9	14	-	8.4	5.6	16	40	8.0	0.19
	050R-22-7-LN08	7	50	41	22	11	18	-	10.4	6.3	20	40	8.0	0.31
	050R-22-10-LN08	10	50	41	22	11	18	-	10.4	6.3	20	40	8.0	0.31
	063R-22-10-LN08	10	63	49	22	11	18	-	10.4	6.3	20	40	8.0	0.49
	063R-22-11-LN08	11	63	49	22	11	18	-	10.4	6.3	20	40	8.0	0.49

Applicable Insert


LNKT-MA


LNKT-ML


LNKT-MM

Designation		Coated			Uncoated
		PC5300	PC5400	PC6510	H01
LNKT	080404PNR-MA				
	080408PNR-MA				
	080404PNR-ML				
	080408PNR-ML				
	080404PNR-MM				
	080408PNR-MM				

Applicable Arbor

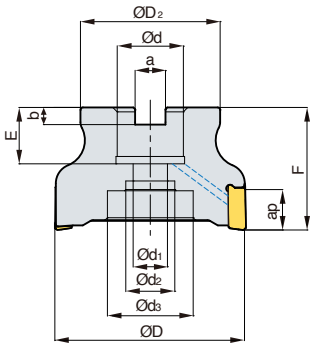
Designation		Applicable arbor
TP2PCM	040R-16-6-LN08	BT□□-FMC16-□□
	040R-16-7-LN08	
	050R-22-7-LN08	BT□□-FMC22-□□
	050R-22-10-LN08	
	063R-22-10-LN08	
	063R-22-11-LN08	

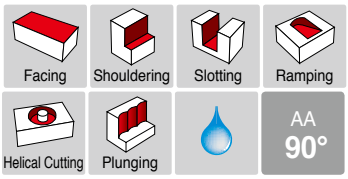
Parts

Specification	Screw	Wrench
		
Ø40~Ø63	FTKA02565S	TW08S

TP2PCM-LN14







• AR: -6°
• RR: -22°~ -12°

(mm)

Designation		⊙	ØD	ØD2	Ød	Ød1	Ød2	Ød3	a	b	E	F	ap	kg
TP2PCM	040R-16-4-LN14	4	40	35	16	9	14	-	8.4	5.6	19	40	12.7	0.19
	040R-16-5-LN14	5	40	35	16	9	14	-	8.4	5.6	19	40	12.7	0.19
	050R-22-5-LN14	5	50	42	22	11	18	-	10.4	6.3	20	40	12.7	0.29
	050R-22-6-LN14	6	50	42	22	11	18	-	10.4	6.3	20	40	12.7	0.29
	063R-22-6-LN14	6	63	49	22	11	18	-	10.4	6.3	20	40	12.7	0.49
	063R-22-8-LN14	8	63	49	22	11	18	-	10.4	6.3	20	40	12.7	0.49
	080R-27-7-LN14	7	80	57	27	14	20	35	12.4	7	23	50	12.7	0.94
	080R-27-10-LN14	10	80	57	27	14	20	35	12.4	7	23	50	12.7	0.94
	100R-32-8-LN14	8	100	70	32	18	28	45	14.4	8	28	63	12.7	1.73
	100R-32-13-LN14	13	100	70	32	18	28	45	14.4	8	28	63	12.7	1.73
	125R-40-9-LN14	9	125	90	40	22	32	54	16.4	9	30	63	12.7	2.98
	125R-40-17-LN14	17	125	90	40	22	32	54	16.4	9	30	63	12.7	3.04
TP2PC	080R-25.4-7-LN14	7	80	57	25.4	14	25	38	9.5	6	25	50	12.7	0.95
	080R-25.4-10-LN14	10	80	57	25.4	14	25	38	9.5	6	25	50	12.7	0.96
	100R-31.75-8-LN14	8	100	70	31.75	18	28	45	12.7	8	32	63	12.7	1.76
	100R-31.75-13-LN14	13	100	70	31.75	18	28	45	12.7	8	32	63	12.7	1.81
	125R-38.1-9-LN14	9	125	90	38.1	22	32	54	15.9	10	35	63	12.7	2.99
	125R-38.1-17-LN14	17	125	90	38.1	22	32	54	15.9	10	35	63	12.7	3.07

Applicable Insert


LNKT-MA


LNKT-ML


LNKT-MM

Designation		Coated			Uncoated
		PC5300	PC5400	PC6510	H01
LNKT	140608PNR-MA				
	140608PNR-ML				
	140608PNR-MM				

Applicable Arbor

Designation		Applicable arbor
TP2PCM	040R-16-4-LN14	BT□□-FMC16-□□
	040R-16-5-LN14	
	050R-22-5-LN14	BT□□-FMC22-□□
	050R-22-6-LN14	
	063R-22-6-LN14	
	063R-22-8-LN14	
	080R-27-7-LN14	BT□□-FMC27-□□
	080R-27-10-LN14	
	100R-32-8-LN14	BT□□-FMC32-□□

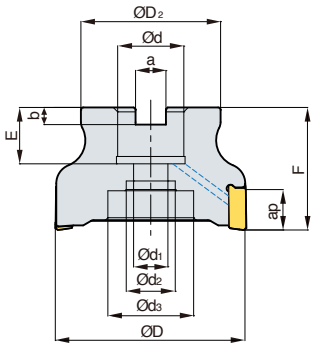
Designation		Applicable arbor
TP2PCM	100R-32-13-LN14	BT□□-FMC32-□□
	125R-40-9-LN14	BT□□-FMC40-□□
	125R-40-17-LN14	
TP2PC	080R-25.4-7-LN14	BT□□-FMA25.4-□□
	080R-25.4-10-LN14	
	100R-31.75-8-LN14	BT□□-FMA31.75-□□
	100R-31.75-13-LN14	
	125R-38.1-9-LN14	BT□□-FMA38.1-□□
	125R-38.1-17-LN14	

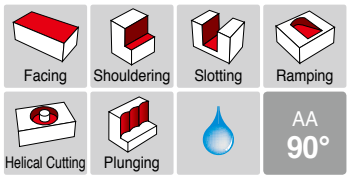
Parts

Specification	Screw	Wrench
Ø40~Ø125	FTKA03510	TW15S

TP2PCM-LN17







- AR: -6°
- RR: -21°~ -15°

(mm)

Designation			ØD	ØD2	Ød	Ød1	Ød2	Ød3	a	b	E	F	ap	kg
TP2PCM	040R-16-3-LN17	3	40	35	16	9	14	-	8.4	5.6	16	40	16.5	0.17
	040R-16-4-LN17	4	40	35	16	9	14	-	8.4	5.6	16	40	16.5	0.17
	050R-22-4-LN17	4	50	41	22	11	18	-	10.4	6.3	20	40	16.5	0.27
	050R-22-5-LN17	5	50	41	22	11	18	-	10.4	6.3	20	40	16.5	0.26
	063R-22-6-LN17	6	63	49	22	11	18	-	10.4	6.3	20	40	16.5	0.46
	063R-22-7-LN17	7	63	49	22	11	18	-	10.4	6.3	20	40	16.5	0.47
	080R-27-7-LN17	7	80	57	27	14	20	35	12.4	7	23	50	16.5	0.89
	080R-27-8-LN17	8	80	57	27	14	20	35	12.4	7	23	50	16.5	0.91
	100R-32-8-LN17	8	100	67	32	18	28	45	14.4	8	25	63	16.5	1.68
	100R-32-9-LN17	9	100	67	32	18	28	45	14.4	8	25	63	16.5	1.75
	125R-40-10-LN17	10	125	90	40	22	32	52	16.4	10	30	63	16.5	2.88
	125R-40-11-LN17	11	125	90	40	22	32	52	16.4	10	30	63	16.5	2.88
TP2PC	080R-25.4-7-LN17	7	80	57	25.4	14	20	35	9.5	6	25	50	16.5	0.92
	080R-25.4-8-LN17	8	80	57	25.4	14	20	35	9.5	6	25	50	16.5	0.93
	100R-31.75-8-LN17	8	100	67	31.75	18	28	45	12.7	8	32	63	16.5	1.73
	100R-31.75-9-LN17	9	100	67	31.75	18	28	45	12.7	8	32	63	16.5	1.73
	125R-38.1-10-LN17	10	125	90	38.1	22	32	52	15.9	9	35	63	16.5	3.06
	125R-38.1-11-LN17	11	125	90	38.1	22	32	52	15.9	9	35	63	16.5	2.91

Applicable Insert



LNKT-MA



LNKT-ML



LNKT-MM

Designation		Coated PC5300	Coated PC5400	Coated PC6510	Uncoated H01	Designation		Coated PC5300	Coated PC5400	Coated PC6510	Uncoated H01
LNKT	170704PNR-MA					LNKT	170716PNR-ML				
	170708PNR-MA						170720PNR-ML				
	170712PNR-MA						170704PNR-MM				
	170716PNR-MA						170708PNR-MM	●	●		
	170720PNR-MA						170712PNR-MM				
	170704PNR-ML						170716PNR-MM				
	170708PNR-ML	●	●	●			170720PNR-MM				
	170712PNR-ML										

Applicable Arbor

Designation		Applicable arbor
TP2PCM	040R-16-3-LN17	BT□□-FMC16-□□
	040R-16-4-LN17	
	050R-22-4-LN17	BT□□-FMC22-□□
	050R-22-5-LN17	
	063R-22-6-LN17	
	063R-22-7-LN17	
	080R-27-7-LN17	BT□□-FMC27-□□
	080R-27-8-LN17	
	100R-32-8-LN17	BT□□-FMC32-□□

Designation		Applicable arbor
TP2PCM	100R-32-9-LN17	BT□□-FMC32-□□
	125R-40-10-LN17	BT□□-FMC40-□□
	125R-40-11-LN17	
TP2PC	080R-25.4-7-LN17	BT□□-FMA25.4-□□
	080R-25.4-8-LN17	
	100R-31.75-8-LN17	BT□□-FMA31.75-□□
	100R-31.75-9-LN17	
	125R-38.1-10-LN17	BT□□-FMA38.1-□□
	125R-38.1-11-LN17	

Parts

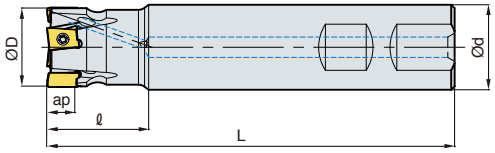
Specification	Screw	Wrench
Ø40~Ø125	FTKA0412B	TW15S

TP2PS-LN08

Facing | Shouldering | Slotting | Ramping | Helical Cutting | Plunging | AA 90°

- AR: -6°
- RR: -35°~ -26°





(mm)

Designation			ØD	Ød	ℓ	L	ap	kg
TP2PS	020R-2W20-120-LN08	2	20	20	30	120	8.0	0.25
	020R-3W20-120-LN08	3	20	20	30	120	8.0	0.25
	025R-3W25-120-LN08	3	25	25	30	120	8.0	0.39
	025R-4W25-120-LN08	4	25	25	30	120	8.0	0.39

Applicable Insert


LNKT-MA


LNKT-ML


LNKT-MM

Designation		Coated			Uncoated
		PC5300	PC5400	PC6510	H01
LNKT	080404PNR-MA				
	080408PNR-MA				
	080404PNR-ML				
	080408PNR-ML				
	080404PNR-MM				
	080408PNR-MM				

Parts

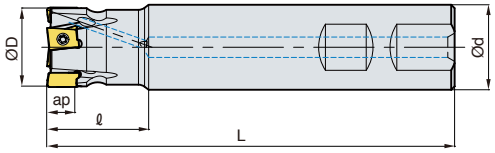
Specification	Screw	Wrench
Ø16~Ø25	FTKA02565S	TW08S

TP2PS-LN14

Facing | Shouldering | Slotting | Ramping | Helical Cutting | Plunging | AA 90°

- AR: -6°
- RR: -21°~ -18°





(mm)

Designation		⊚	ØD	Ød	ℓ	L	ap	kg
TP2PS	025R-2W25-130-LN14	2	25	25	40	130	12.7	0.41
	032R-3W32-130-LN14	3	32	32	40	130	12.7	0.69
	040R-3W32-130-LN14	3	40	32	40	130	12.7	0.75
	040R-4W32-130-LN14	4	40	32	40	130	12.7	0.76
	050R-4W32-130-LN14	4	50	32	40	130	12.7	0.85
	050R-5W32-130-LN14	5	50	32	40	130	12.7	0.84

Applicable Insert


LNKT-MA


LNKT-ML


LNKT-MM

Designation		Coated			Uncoated
		PC5300	PC5400	PC6510	H01
LNKT	140608PNR-MA				
	140608PNR-ML				
	140608PNR-MM				

Parts

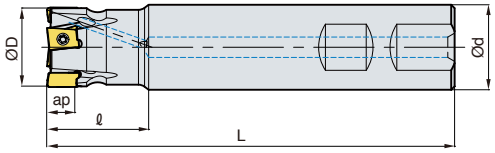
Specification	Screw	Wrench
Ø25~Ø50	FTKA03510	TW15S

TP2PS-LN17

Facing | Shouldering | Slotting | Ramping | Helical Cutting | Plunging | AA 90°

• AR: -6°
• RR: -26°~ -18°





(mm)

Designation		⊚	ØD	Ød	ℓ	L	ap	kg
TP2PS	032R-2W32-130-LN17	2	32	32	40	130	16.5	0.68
	032R-3W32-130-LN17	3	32	32	40	130	16.5	0.67
	040R-3W32-130-LN17	3	40	32	40	130	16.5	0.73
	040R-4W32-130-LN17	4	40	32	40	130	16.5	0.73
	050R-4W32-130-LN17	4	50	32	40	130	16.5	0.83
	050R-5W32-130-LN17	5	50	32	40	130	16.5	0.83

Applicable Insert


LNKT-MA


LNKT-ML


LNKT-MM

Designation		Coated			Uncoated
		PC5300	PC5400	PC6510	H01
LNKT	170704PNR-MA				
	170708PNR-MA				
	170712PNR-MA				
	170716PNR-MA				
	170720PNR-MA				
	170704PNR-ML				
	170708PNR-ML	●	●	●	
	170712PNR-ML				
	170716PNR-ML				
	170720PNR-ML				
	170704PNR-MM				
	170708PNR-MM	●	●		
	170712PNR-MM				
	170716PNR-MM				
	170720PNR-MM				

Parts

Specification	Screw	Wrench
Ø32~Ø50	FTKA0412B	TW15S

www.korloy.com

KORLOY

Holystar B/D, 1350, Nambusunhwan-ro, Geumcheon-gu, Seoul, 08536, Korea
Tel : +82-2-522-3181 Fax : +82-2-522-3184, +82-2-3474-4744 Web : www.korloy.com E-mail : export@korloy.com

KORLOY AMERICA
620 Maple Avenue, Torrance, CA 90503, USA
Tel : +1-310-782-3800 Toll Free : +1-888-711-0001 Fax : +1-310-782-3885
www.korloyamerica.com E-mail : sales@korloy.us

KORLOY EUROPE
Gablonzer Str. 25-27, 61440 Oberursel, Germany
Tel : +49-6171-277-83-0 Fax : +49-6171-277-83-59
www.korloyeurope.com E-mail : sales@korloyeurope.com

KORLOY INDIA
Plot NO.415, Sector 8, IMT Manesar, Gurgaon 122051, Haryana, India
Tel : +91-124-4391790 Fax : +91-124-4050032
www.korloyindia.com E-mail : sales.kip@korloy.com

KORLOY BRASIL
Av. Aruana 280, conj.12, WLC, Alphaville, Barueri,
CEP06460-010, SP, Brasil
Tel : +55-11-4193-3810 E-mail : sales.kbl@korloy.com

KORLOY VIETNAM
No. 133 Le Loi street, Hoa Phu ward, Thu Dau Mot city,
Binh Duong proviende, Vietnam
Tel : +86-532-86959880 E-mail : sales.kvc@korloy.com

KORLOY FACTORY QINGDAO
Ground Dongjing Road 56(B) District Free Trade Zone. Qingdao, China
Tel : +86-532-86959880 Fax : +86-532-86760651
E-mail : pro.kfq@korloy.com

KORLOY FACTORY INDIA
Plot No. 415, Sector 8, IMT Manesar, Gurgaon 122051, Haryana, India
Tel : +91-124-4391790 Fax : +91-124-4050032
www.korloyindia.com E-mail : pro.kim@korloy.com

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