



 **KORLOY Inc.**

**HEAD QUARTER**

Holystar B/D 953-1, Doksanbon – Dong, Geumcheon-Gu, Seoul, 153-823, Korea  
Tel: +82 – 2 – 522 – 3181 Fax: +82 – 2 – 522 – 3184, +82 – 2 – 3474 – 4744  
**Web : [www.korloy.com](http://www.korloy.com)** E-mail : [export@korloy.com](mailto:export@korloy.com)

**JINCHEON FACTORY**

767-1, Gwanghyewon-Ri, Gwanghyewon-Myon, Jincheon-Gun, Chungcheongbuk-Do, 365-831, Korea  
Tel: +82 – 43 – 535 – 0141 Fax: +82 – 43 – 535 – 0144

**CHEONGJU FACTORY**

53-16, Songjeong – Dong, Hungduk – Gu, Cheongju, Chungcheongbuk – Do, 361 – 290, Korea  
Tel: +82 – 43 – 262 – 0141 Fax: +82 – 43 – 262 – 0146

**R&D INSTITUTE**

53-16, Songjeong – Dong, Hungduk – Gu, Cheongju, Chungcheongbuk – Do, 361 – 290, Korea  
Tel: +82 – 43 – 262 – 0141 Fax: +82 – 43 – 262 – 0711

 **KORLOY AMERICA Inc.**

2750 Oregon Court, South Bay Business Park, Suite M7, Torrance CA 90503, USA  
Tel : +1-310-782-3800 Toll Free : +1-888-711-0001 Fax : +1-310-782-3885  
**Web : [www.korloyamerica.com](http://www.korloyamerica.com)** E-mail : [korloyamerica@korloy.com](mailto:korloyamerica@korloy.com)

 **KORLOY EUROPE GmbH**

Heinrich-Lanz-Allee 12, 60437 Frankfurt am Main, Germany  
Tel : +49-69-5069-887-0 Fax : +49-69-5069-887-29  
**Web : [www.korloyeurope.com](http://www.korloyeurope.com)** E-mail : [europe@korloy.com](mailto:europe@korloy.com)



**Industrial Solutions of  
KORLOY**



**RAILWAY  
INDUSTRY**

We Create your Tomorrow!



We learn the challenge with nature.  
 We also dream love in nature.  
 'Challenge for dream, Love for human'  
 It's an ideal of Korloy like nature.

## The 21st century of KORLOY is the power for a better future.

KORLOY Inc. is a total cutting tool manufacturer specializing in uncoated, coated (CVD, PVD), and Cermet inserts.

KORLOY Inc. was founded in 1966.

Our establishment is now a top leading cutting tool provider that constantly invests and improves our R&D center in Korea

Our goal is to be the top, globally leading company that overcomes the continuous challenges and innovations.

KORLOY Inc. products manufactured by the ever growing R&D department along with our innovative production technology are selling and exporting to over 80 countries, as the global company recognized with higher technology.

KORLOY Inc. continuously endeavors to grow as the global enterprise representing Korea.

We sincerely anticipate your on-going interest for KORLOY Inc.



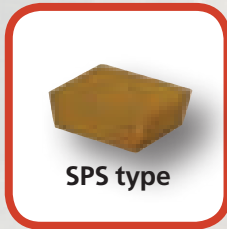
## RAILWAY INDUSTRY

Nowadays, railway industry holds the spotlight as popular transportation like subway & express train instead of oil industry Korloy supplies you total tooling solution based on accumulative experience and know-how for achieving high efficiency machining rail separator, crossing, joint and wheel etc. Korloy will try to satisfy customers' needs with various and accurate total tooling.





# Rail Repair



SPS type

1

## Cutter for Rail Repair <Wedge type(60KgK-SMRP-RW)>

- Number of tooth : 128
- Milling applicable on the rail of part requested repairing



2

## Cutter for Rail Repair <Screw on type (60KgK-SMRP-RS01)>

- Number of tooth : 198
- Milling applicable on the rail of part requested repairing



LPE type

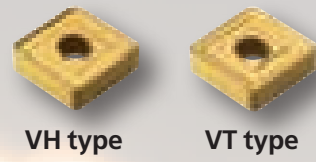
SPEW type



# Axle

# Wheel

**1** Inserts For Heavy Duty Machining  
<SNMM(VH/VT)>  
[ Axle External / Profile ]  
: Turning for heavy duty machining



VH type VT type

**2** Holders  
<PRDCN(RCMX)>  
[ Axle External / Profile ]  
: Turning for heavy duty machining



RCMX type

**4** Inserts for Heavy Duty Machining  
<CNMM(VH/VT)>  
[ Axle External / Profile ]  
: Turning for heavy duty machining



VH type VH type

**3** Rich Mill <RM8>  
[ Axle External / Profile ]  
: Roughing and finishing  
for top surface facing

**1** Inserts for Heavy Duty Machining  
<SNMM/CNMM(VH/VT)>  
[ Axle External / Profile ]  
: Turning for heavy duty machining

**2** Holders  
<PRDCN(RCMX)>  
[ Wheel External / Profile ]  
: Turning for heavy  
duty machining



RCMX type

**3** LNUX Insert for Rail Way Wheel  
<LNUX(TM/TF)>  
: External, profile-Finishing



TM type TF type

# Rail & Crossing



**1**

## Forming Cutter for the Top Side of Rail Way

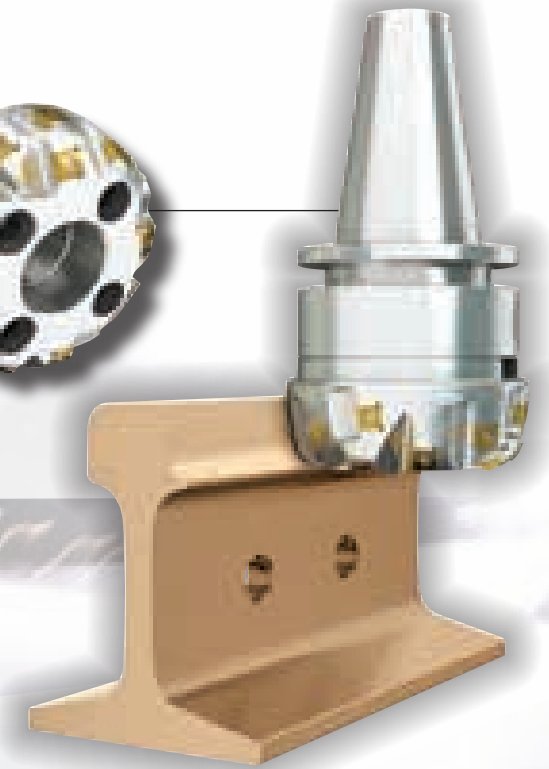
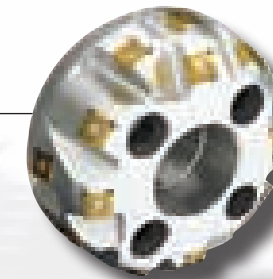
- Cutter diameter: Ø300(mm)
- Number of tooth: 33
- One body design of cutter and arbor provides high rigidity



**3**

## Forming Cutter for the Top Side of Rail Way

- Cutter diameter: Ø160(mm)
- Number of tooth: 16
- Precise forming of rail way is possible



**2**

## Periphery Face Milling for the Top Side of Rail Way

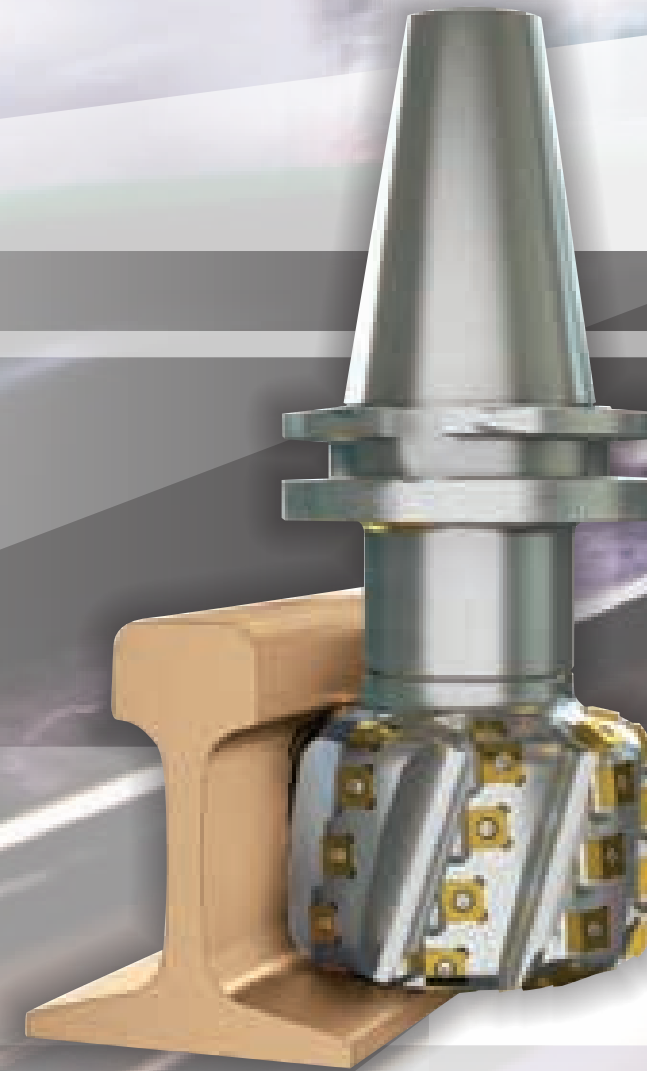
- Cutter diameter: Ø240(mm)
- Number of tooth: 25



**4**

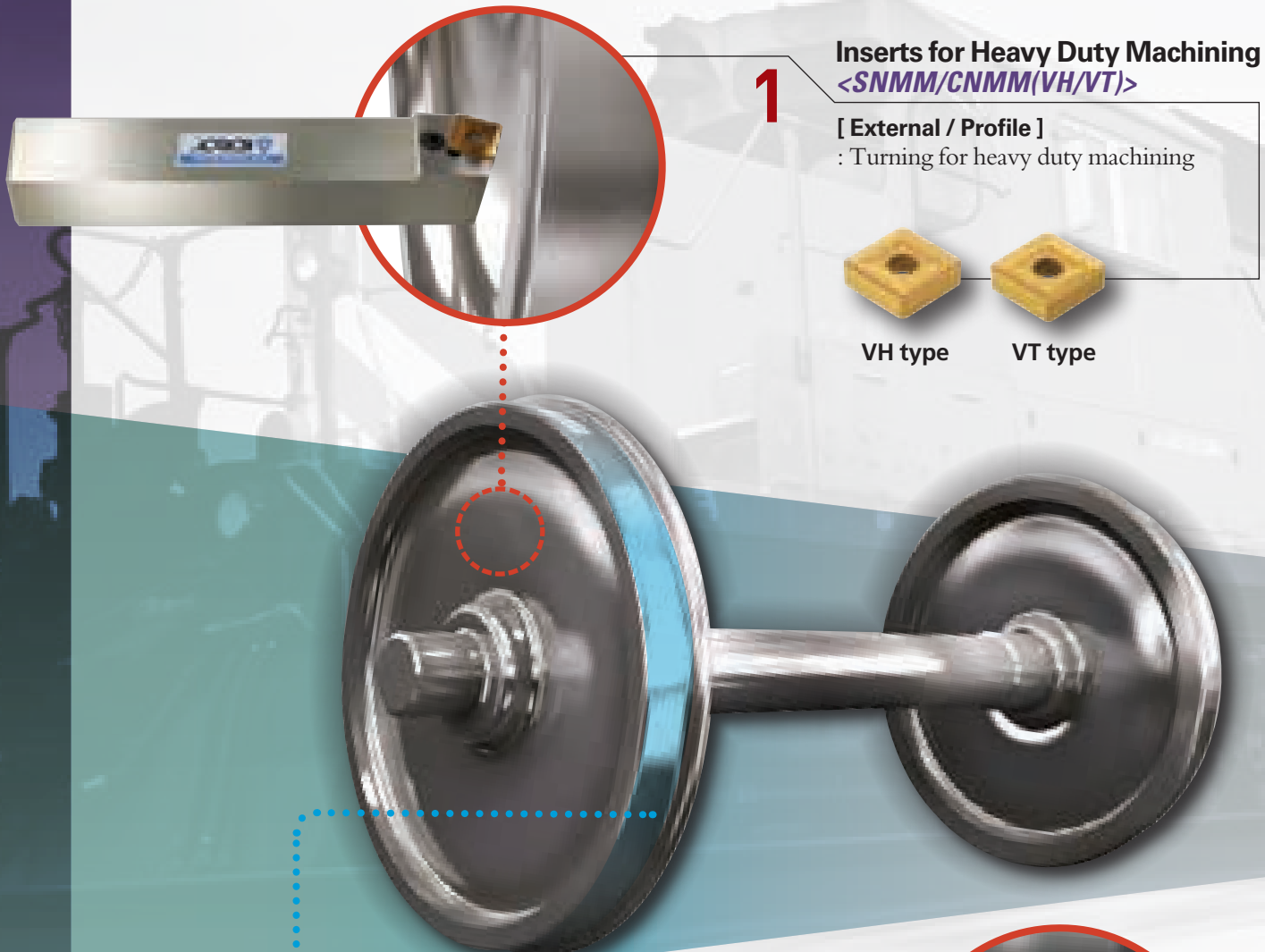
## Rail Separator Joint Face Milling Cutter

- Cutter diameter: Ø160(mm)
- Number of tooth: 54
- Special customizing is available upon customer's requests

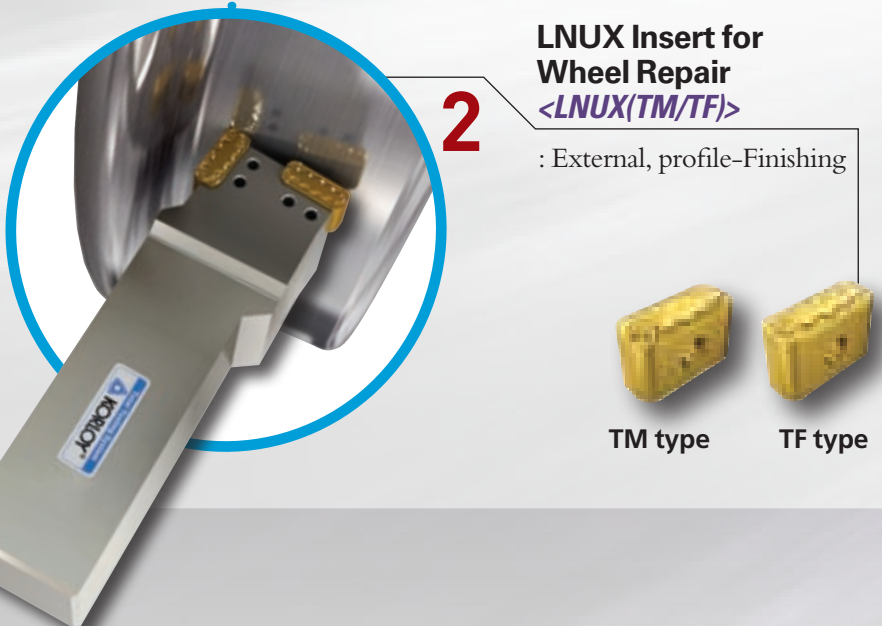
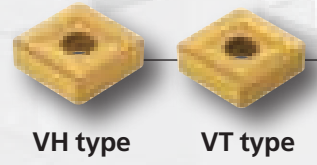




# Wheel Repair



**1**  
**Inserts for Heavy Duty Machining**  
 <SNMM/CNMM(VH/VT)>  
 [ External / Profile ]  
 : Turning for heavy duty machining



**2**  
**LNUX Insert for Wheel Repair**  
 <LNUX(TM/TF)>  
 : External, profile-Finishing



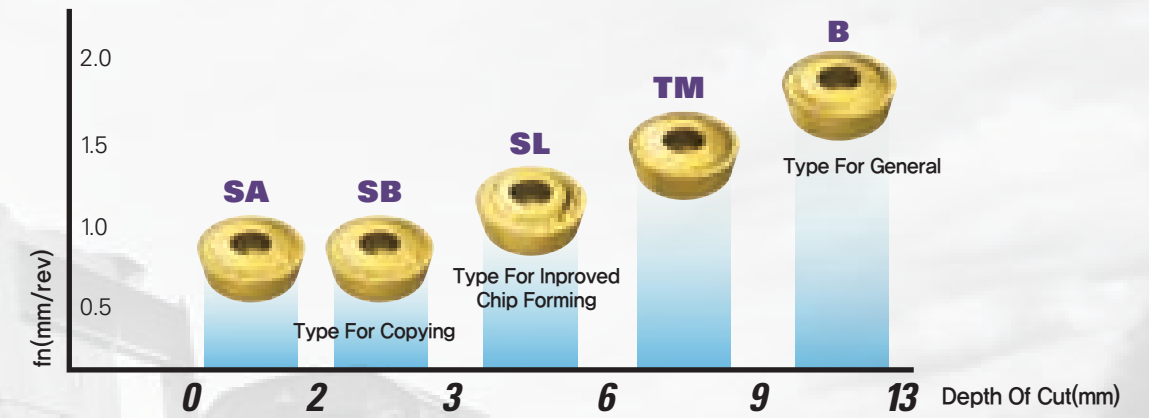
**3**  
**Holders**  
 <PRDCN(RCMX)>  
 [ external / Profile ]  
 : Turning for heavy duty machining



# Chip breaker

## RCMX For The Working Of Wheel

[ RCMX32type Line-up ]



## The Insert For Rail Way Wheel

Designation	C/B	Insert Shape	Edge Shape	Chip Breaker Use And Feature
LNUXtype	TF			For Light Cutting, It Generates a Low Cutting Load And Has Good Chip Forming (d=under 0.118inch)
	TM			Comprehensive Ddsign For General Use, Strong Cutting Edge With Good Chip Forming (d=0.079-0.197inch)(First Recommendation)

## Cutting performance 1

**Example 1**

- Tool (insert) : RCMX3209M0-SL
- Grades : NC3020
- Work Piece : Forged Steel (SSW-2) Diameter 33inch
- Cutting Condition : vc=55~100m/min fn=1.0~1.5mm/rev ap=1~6mm
- Result : superior in chip-control, stability, tool-life

**Example 2**

- Tool (insert) : LNUX301940-TM
- Grades : NC3020
- Work Piece : Forged Steel (SSW-2) Diameter 36~39inch
- Cutting Condition : vc=78m/min fn=1.0mm/rev ap=3~6mm
- Result : superior in chip-control, stability, tool-life