Wheel Bearing for Automotive Industry

Low Alloy Steel
AISI 4140
JIS SCM440
DIN 42CrMo4

CNMG 120408-UM,YG3020
(CNMG 432-UM,YG3020)

- Vc: 350 m/min (1150 ft/min)
- Fn: 0.25 mm/rev (.01 in/rev)
- Ap: 1 mm (.04 in)

Tool life: 110 pcs

Competitor
P25 grade

YGTURN for Steel P

83%
Steel Grades

YG1001 **High Wear Resistance grade**
- Provides longer tool life in stable application

YG3010 **First choice for Finishing Steels, and Ductile Cast iron**
- Finishing and light machining of steel under stable condition

YG3020 **First Choice grade for general Steel application**
- Substrate especially designed for good toughness

YG3030 **Interrupted cutting of steel and stainless steel**
- for heavy roughing in mild steel and low carbon alloy steel

Chipbreakers

- **UF** For Finishing
- **UL** Semi-Finishing and Sticky Materials
- **MM** Low Carbon Steel
- **UM** Medium (for Unstable Condition)
- **UG** Medium (for Stable Condition)
- **UC** Medium Roughing
- **UR** Roughing and Heavy Interrupted Cut
CNMG 120408-MM, YG211
(CNMG 432-MM, YG211)

Vc  200 m/min  
(660 ft/min)

Fn  0.15 mm/rev  
(.006 in/rev)

Ap  1.2 mm  
(.05 in)

Flange for Pipe

Austenitic Stainless Steel
AISI 316
JIS SUS316
DIN 1.4401

20% Tool life

60 pcs

50 pcs

Competitor M10 grade
**Grades**

- **YG211**
  - PVD Grade for Stainless Steel and Super Alloy
  - For continuous cutting and general machining

- **YG3030**
  - Interrupted cutting of steel and stainless steel
  - For heavy roughing in mild steel and low carbon alloy steel

**Chipbreakers**

- **MF** Finishing
  - Coming Soon

- **MM** Medium

- **MR** Roughing
  - Coming Soon
Grey Cast Iron
ASTM A48-40B
JIS FC250
DIN GG25

CNMG 120408-UC, YG1001 (CNMG 432-UC, YG1001)
Vc  570 m/min
    (1870 ft/min)
Fn  0.3 mm/rev
    (.012 in/rev)
Ap  2 mm
    (.08 in)

240 pcs
Competitor K10 grade

60%
240 pcs
YG1001

150 pcs
Tool life

Damper Pulley for Automotive Industry

K

YG TURN for Cast Iron
Grades

YG1001  First choice for stable machining of cast iron
  • Substrate especially designed for high wear resistance

YG3010  First choice for Ductile Cast iron
  • Increased wear resistance and chipping resistance

Chipbreakers

UC  Medium Roughing

UR  Roughing and Heavy Interrupted Cut

MA  Cast Iron Heavy Roughing
YG MILL for Mold & Die Industry
YG622 High Alloy Steel Milling Grade

- for High alloy Steel and Cast Iron
- Combination of High Hardness coating and Tough Substrate
- First choice grade for Mold & Die segment

-TR New Chipbreaker for heavy duty application

- Reinforced edge design
- First choice grade for tough application

General Insert
New -TR Chipbreaker
APKT-TR 16
RDKT-TR 08/10/12

High Alloyed Steel
AISI H13
JIS SKD61
DIN 1.2344

RDKT 1204M0-TR, YG622

Vc 332 m/min
(1080 ft/min)
Fz 0.47 mm/tooth
(.019 in/tooth)
Ap 0.7 mm
(.028 in)

50% Tool Life
90 pcs
60 pcs
Competitor

YG622

www.yg1.kr
SDMT Series

- High feed milling series
- 4 corner positive insert
- APMX 1.8mm
- Flat Wiper to improve surface finish

Chipbreakers

SDMT –ST
General Chipbreaker
Lower cutting force

SDMW
Heavy Duty Application
Strong edge provides high toughness

Austenitic Stainless Steel
AISI 630
JIS SUS630
DIN 1.4542

SDMT 120420 -ST, YG602
Vc 120 m/min (400 ft/min)
Fz 0.9 mm/tooth (.035 in/tooth)
Ap 1 mm (.04 in)

70%
54 pcs
Tool life

70%
54 pcs
YG602
32 pcs
Competitor
**WCMX Series**

- 3 Corner Indexable Drilling Insert
- 4 insert sizes covering D21~52
- General Type with Good compatibility

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**YG602 Drilling Grade**

Universal grade for General Drilling Application

- Ultra Dense PVD Coating with optimal thermal resistance & strength
- Sub-Micron substrate designed for demanding applications

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**Low Alloy Steel**

- **AISI 1045**
- **JIS S45C**
- **DIN C45E**

**WCMX 06T308, YG602**

- **Vc** 120 m/min (400 ft/min)
- **Fz** 0.12 mm/tooth (.005 in/tooth)

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**YG1 CO., LTD. • www.yg1.kr**
Cylindrical shank with a parallel flat surface according to ISO9766
Plain shank and Whistle notch shank are available on request

Body Clearance for eliminating undesirable contact with work piece

Nickel-plated Premium tool Steel holder for corrosion and wear resistance

Optimized flute shape for better chip evacuation

Torx Plus Screw for securely clamping the insert

Internal cooling channel for higher drilling performance

Ground bright finished shank for more precise clamping

Multi-layered "H"-coated Micro Grain Carbide Insert

Optimized Point Geometry of i-One Drills Ensures Centering Ability and Smoother Cutting

FEATURES & BENEFITS
- For Carbon Steels, Alloy Steels and Cast Iron
- Secure and quick clamping system
- High performance with Cost efficiency
- Multi-layered coating delivers outstanding productivity and reliability

RANGE
- Ø 10mm - Ø 33.73mm (0.3937-1.3281")
- Holder Length: 3xD, 5xD, 8xD

YG-1 CO., LTD. • www.yg1.kr
YG-1 CO., LTD.

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Note: The new address above has currently been updated to the new Korean postal standard valid since 2014. Notice that the physical Head Office location did NOT change.

Search ‘YG-1’ on social media outlets

Tool specifications are subject to change without prior notice.