

HISTORY

- 1963 Setup of RIGPL with mere 2 employees to start off with & small workshop
- 1992 Setup of Modernised Delhi Plant I
- 1996 Setup of Bahadurgarh (Haryana) Plant II
- ▶ 1998 SOP for HSS Round Tool Bits
- 2002 SOP for HSS Punches
- 2007 Modernisation of Heat Treatment Plant
- 2008 Setup of CNC Production Facility for Carbide End Mills
- 2011 SOP for Solid Carbide Drills
- 2011 SOP for Solid Carbide Reamers and Centre Drills
- 2012 SOP for HSS End Mills & Centre Drills
- 2013 SOP for HSS Bandsaw Blade Cutters
- 2014 SOP for HAND CRAFTED HIGH PERFORMANCE CARBIDE DRILLS
- 2015 Setup of Bahadurgarh (Haryana) Plant III

RIGPL Today

- Today RIGPL boasts of over 50,000 sq. ft of Area spread over 3- Manufacturing plants & 2 Sales Offices.
- Over 80,000 items stocked in 2-warehouses
- Over 100+ employees
- With over 15 Application Engineers & 12 Engineers in production department.
- Sales in excess of over USD 5.0 Million
- Dedicated R&D Team for product improvements
- Director's Profile:
 - 2 Director's with over 30-years of tooling experience,
 - 1 Director with Metallurgical from I.I.T Kanpur & MBA Finance from IIMS Kolkata & 12 years of tooling experience
 - 1 Director with Mechanical Engineer Degree from Delhi College of Engineering (D.C.E) & 6 years of tooling experience.
 - 1 Director with Electrical Engineer from D.C.E with 12 years of Tooling Experience.

What RIGPL can do for YOU?

Application
Based
Solutions

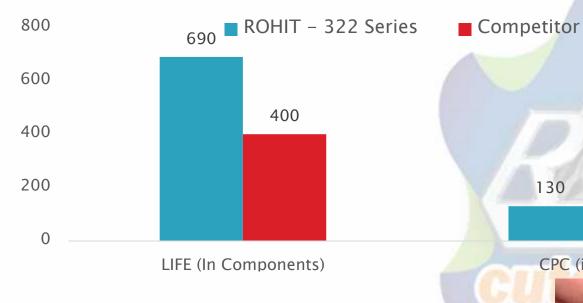
Standard Carbide Tools High
Performance
Drills
(C4HT,
C3HS)

HSS Tools

Application Based Solutions







Size of tools & Grade: 8mm - 322 Series

Material: SCM 420M

Parameters: 4000rpm & Feed 400mm/min

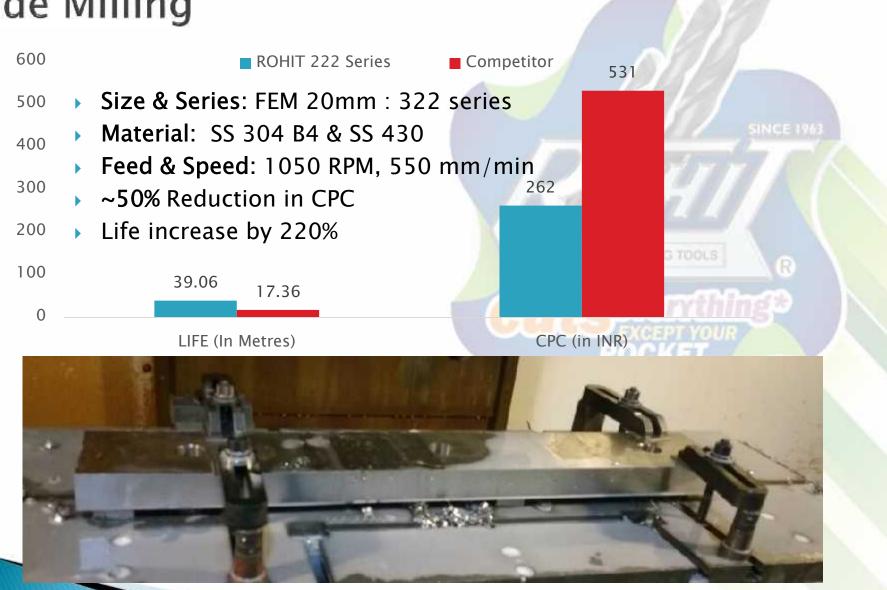
~20% Reduction in CPC



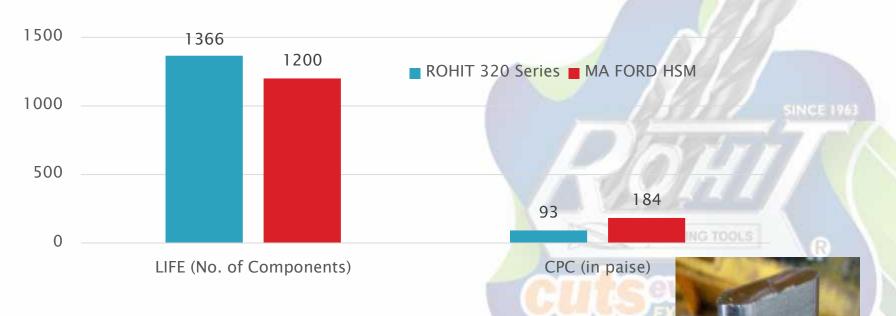
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130

Side Milling

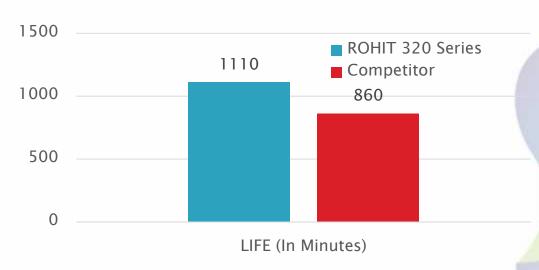


Side Milling



- Component: Bike Kick Cam
- Competitor : MA Ford (HSM series)
- Material: Steel 15 HRc
- Size: 10mm FEM, 320 series
- Feed & Speed Data: 3200 RPM & 450 mm/min

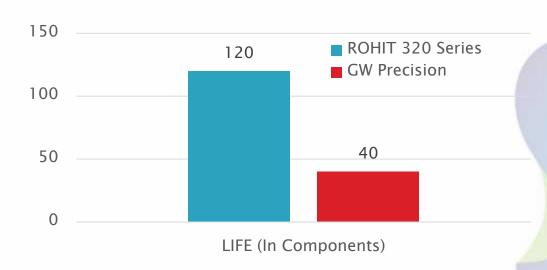
Plunging + Slotting



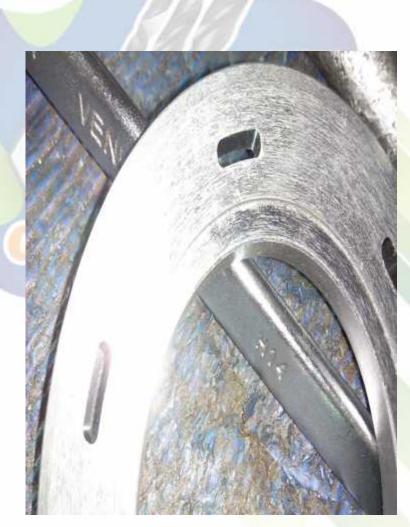
- Component: Compressor Part
- Material: Steel 15 Hrc
- Size of tools & Grade: Taper End Mill
 4mm x 5Degree, 320 series
- Feed & Speed Data: 4000 rpm & 500 mm/min



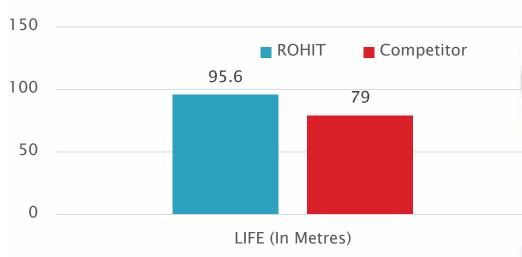
Plunging + Interpolation



- Component: New Holland Tractor Part
- Material: Steel 25 Hrc
- Size of tools & Grade: 3mm, 320 series
- Feed & Speed Data: 4000 rpm & 120 mm/min



Drilling



- Component: New Holland Tractor Part
- Material: Steel 20Hrc
- Size of tools & Grade: 7.8mm, C3HS series
- Feed & Speed Data: 2800 rpm & 500 mm/min



SOLID CARBIDE TOOLS

CARBIDE END MILLS

- GP (General Purpose) END MILLS
- HP (High Performance) END MILLS

Carbide GP End Mills



GP 0X Series (C-103, 104, 107, 108, 109, Engraving & St. flute UpCut bits)

- Application: Wood Working industry like CNC Wood Router machines & non-ferrous materials
- Type of tools:
- 103 Series 2Flute UpCut Router Bits or End Mills
- 104 Series 2Flute UpCut Ball Nose End Mills
- 107 Series Single Flute UpCut Router Bits / End Mills
- 108 / 109 Series 2Flute Taper or Conical Bits
- Engraving Bits
- St. Flute Router Bits / End Mills

Carbide GP End Mills

GP-1X Series (201 & 202 series)

- · Application: Suitable for non-ferrous, free cutting materials, C.I below 320BHN & steels up-to 35HRc
- Comes with TiALN Coating

GP-TX Series (205 & 206 series)

- · Application : Suitable for machining preheat treated steels P20 up to 55HRc
- Comes with Hyperlox coating



Carbide GP End Mills cont...

Aluminium Machining (211–214 series)

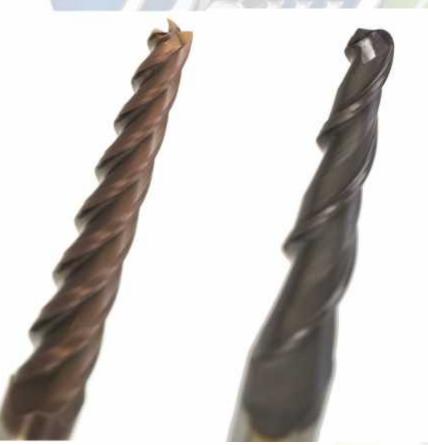
- All products for aluminium machining are high helix
- · Comes with Superior flute finish for better chip evacuation
- · 211 2flute end mills, 212 2flute ball nose, 213 3Flute high helix end mills



Carbide GP End Mills cont...

TAPER END MILLS (207 & 208 series)

- Application: For machining in compressors, impellors, taper slots or taper grooves etc.
- USAGE IN TUBINE BLADE
- USAGE IN IMPELLOR



Carbide HP End Mills (for Die-Mold Industry)

HP-3X series (301 & 302 series)

• Suitable for machining Hardened dies in range of 45-60HRc like P20, D2, D3.

HP-4X series (401 & 402 series)

Suitable for machining Hardened Die steel & tool steel in range of 55-70HRc



Carbide HP End Mills

HP- Production Run End Mill series (320, 322, 422 Series)

- Useful for Machining SUS / SS / Titanium & other difficult to machine materials.
- 320 series is for side milling, face milling & other milling operation in Alloy Steel like \$35C, \$45C etc.
- 322series is for PLUNGING & SLOTTING operation in all difficult to machine materials.
- Features:
 - · Comes with Special NOVA coating
 - VIDEO: TYPE OF MILLING



Carbide HIGH Feed Cutter (For Die-Mold Industry)

- Super-Cut Series / High Feed Cutters (407 series)
 - Replace your Ball Nose in roughing or semi finishing operations with SUPER-CUT End Mills
 - Suitable for HSFM (High Speed Feed Machining)
 - Suitable for machining hardened dies above 60HRc like D2, D3, H13 and other types of Tool & Die steels

"Use High Feed Cutters or 407 Series for Roughing operations on your Hard-die materials before you use RIGPL 402 or 302 series to finish them"







Special Carbide End Mills



CARBIDE DRILLS

- GP (General Purpose) DRILLS
- HP (High Performance) DRILLS
- Through Coolant Drills

Carbide General Purpose Drills

General Purpose Drills

- Stub Series (C1GS series)
 - For drilling depths up to 3L/D to 5L/D ratio
 - Run-out within 20–40microns
- · Jobber Series (C1GJ series)
 - For drilling depths up to 3L/D to 5L/D ratio
 - Run-out within 20-40microns



Carbide High Performance Drills

High Performance Drills (C1HP)

- · Less than 10microns Run-out in the tools
- Comes with Parallel Shank (not in stock)
- · Good for M.S, Low Carbon Steel, Cast Iron, GCI, & other softer steels.
- 20~30% increase in Feed & Speed rates than GP drills



Carbide High Performance Drills

High Performance Drills (C3HS*, C3HL*)

· Less than 10microns Run-out in the tools

SINCE 196

• 40~50% increase in Feed & Speed rates than standard drills

Carbide HP Drills (C3HS, C3HL Series)

**Newly developed NOVA Coating

**Edge Honing to provide sturdy drill point

**Edge Chamfer to provide longer cutting edge life

New Chip curling design to enable faster chip breakageDeveloped for

drilling in Alloy Steel, SS, Ti, Nickel Alloys





Carbide HP Drills cont.

Through Coolant or Coolant Fed Series - CTHS, CTHL

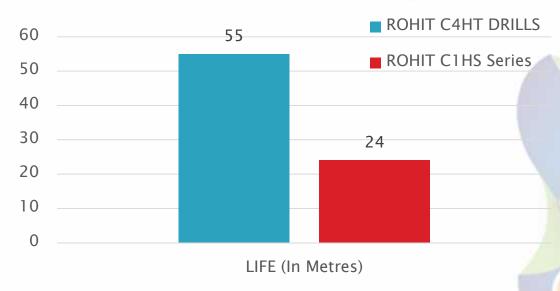
- 70% Higher Speed & Feed rates
- · Minimum 500psi of coolant pressure recommended for usage
- For drilling depths up to 3L/D to 15L/D ratio
- Special 4-Facet design for High Performance

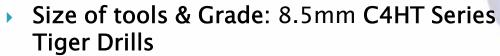


Carbide High Performance Drills

(C4HT,C3HS Series)

Intermittent Drilling





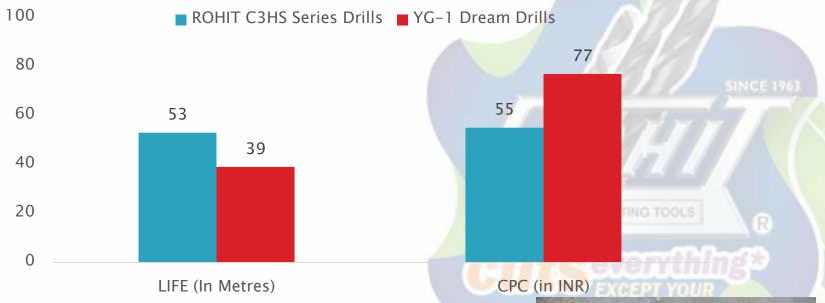
Material: S35C (Steel)

Feed & Speed Data: 2000rpm & Feed 200mm/min





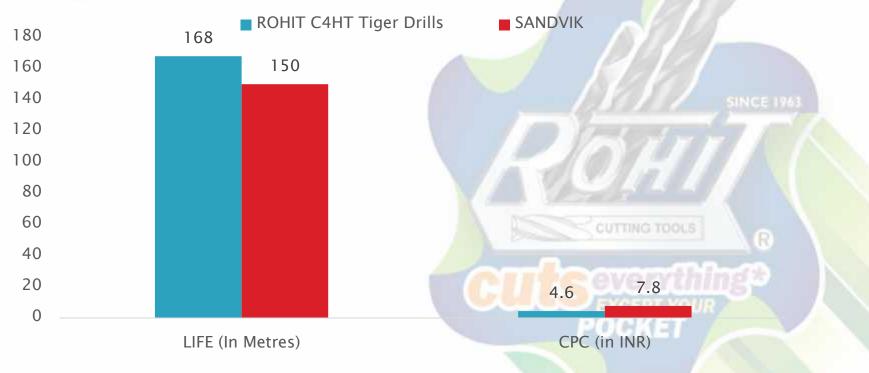
Through Drilling



- Size of tools & Grade: 6.5mm C3HS Series
- Material: S35C (Steel)
- Feed & Speed Data: 2400rpm & Feed 250mm/min
- ~40% Reduction in CPC



Through Drilling



- Size of tools & Grade: 13.6mm C4HT Tiger Drills
- Material: Cast Iron
- Feed & Speed Data: 2000rpm & Feed 700mm/min
- ~ 70% Reduction in CPC

HSS Tools

Products (HSS Tools)

Square & Flat Tool Bits

- Machine: Traub, Lathe, Automats & other special purpose m/cs
- Industry: Used in Fasteners, Rivets industry, Pipe industry, Auto Parts, Tool Rooms, Auto Parts etc.
- Usage of Tool bits
- Usage as Mandrels in Spring Industry

Round Tool Bits

- Machine: Power presses, Lathe, Automats, Engravers, Router machines, used as RM for making Drills, End Mills, Taps etc.
- Industry: Used in Fastener, Rivets, Cold or hot Forging Bolts, Pipe industry, Tool Rooms, Auto Parts etc.





Products (HSS Tools)

Parting Blades

- Machine: Traub, Lathe, Automats & other special purpose m/cs
- Application: Used in Fasteners, Rivets industry, Pipe industry, Auto Parts, Tool Rooms etc.

Punches in M2 & ASP grade

- Machine: Power presses, Special purpose Rivet making machines, cold or hot forging of fasteners.
- Application: Used in Fastener, Rivets manufacturing, Cold or hot Forging in Fasteners, sheet metal comp.,
- USAGE IN RIVET MFR.
- USAGE IN NUT MFR (cold forging)
- USAGE IN PERFORATED SHEETS



Products (HSS Tools cont...)

8-piece HSS Sets

- Includes TURNING TOOL (LH & RH), NOSE TURNING TOOL, ST. CORNER TURNING TOOL, PARTING OFF TOOL etc...
- · ONLY EXPORT HOUSES or EXPORT (s)



- From diameters 2mm 50mm
- Machine: Milling machines (MLTR), Turning machines (CNC / Semi automatic), VMC.
- · Industry: Auto parts, tool rooms etc.

HSS Centre Drills (M2, M35 grades)

· In Type "A" & Tpye "B"







Products (HSS Tools cont...)

HSS Drills (M2 DIN 338 from 1-13mm std. available only.

- Machine: Traub, Lathe, Automats, Drilling Machines, Radial Drilling Machines & other special purpose m/cs
- Application: Used in all type of manufacturing industry

HSS Taps (M2 – St. flute, spiral, SPPT)

- Machine: Automats, Drilling Machines, Radial Drilling Machines, other special purpose m/cs, VMC & CNC.
- Application: Used in all type of manufacturing industry

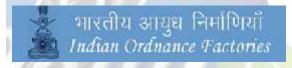


Our Customers























Note: these are some of our satisfied customers from the list of 1000+ customers

THANK YOU