

DIAMOND

Surfacing & Finishing Tools

FOR OPTICS LABS

EHWA®



2014
2015
CATALOG



EHWA® has become an international benchmark for success because of our ability to adapt quickly to changing markets and diverse customer needs, EHWA® is leading the way in applying the most advanced technology for manufacturing industrial diamond tools.

Since 1975, EHWA® has been able to greatly expand its market share throughout the world by establishing world renowned reputation of high quality products, service and expertise in the industry. EHWA® is deeply committed to supplying customers with the most, up-to-date, competitive products and technical information. Our success is measured by the success of our customers.

The key to our flexibility and strength in the global marketplace is our many alliances with reliable overseas partners and customers throughout the world. EHWA® purchases only the highest quality raw materials, industrial diamond and CBN from reputable sources. In addition to having a robust supply chain with major suppliers, EHWA® has successfully teamed up with high-tech manufacturers in Europe, Japan, and U.S. under several joint-ventures for the research and development of high precision diamond tools, rotary dressers, and precision electroplated diamond tools.

The success of a company depends on its ability to adapt and compete in the global marketplace. EHWA® is able to thrive in the age of globalization due to our sustainable global strategy. EHWA® and our high- quality diamond tools are your partner for success!





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Satisloh® is a registered trademark of Satisloh AG
Schneider® is a registered trademark of Schneider GmbH & Co.KG

2014 - 2015

SYNTHETIC DIAMOND *ADVANTAGES* vs. NATURAL DIAMOND

At EHWA® our 40 year heritage of building diamond products for industrial applications has allowed us to develop expertise in all types of Diamond technologies available today:

GRAPHITE
(HIGH PRESSURE HIGH TEMPERATURE)
✓
=
DIAMOND

Polycrystalline Diamonds (PCD)

Synthetically produced in varying grades designed for specific applications. EHWA® uses 5 grades specific to the Optical Industry that provide excellent machining properties and life resulting in the lowest possible machining costs for the end user.

Monocrystalline Diamonds (MCD)

Synthetically produced single crystal diamonds that replicate Natural Diamonds in structure but consistently yield higher performance with their enhanced consistency, with improved machining properties, similar life, and lower machining costs per unit.



03

ADVANTAGES OF PCD - POLYCRYSTALLINE DIAMOND CUTTING TOOLS

Given Polycrystalline Diamond's (PCD) superior hardness to Carbide, cutting tool life is significantly increased over carbide cutting tools used in the same applications. The strengths of PCD are;

Superior
Hardness

Excellent
Wear
Resistance

Good for
High Speed
Machining

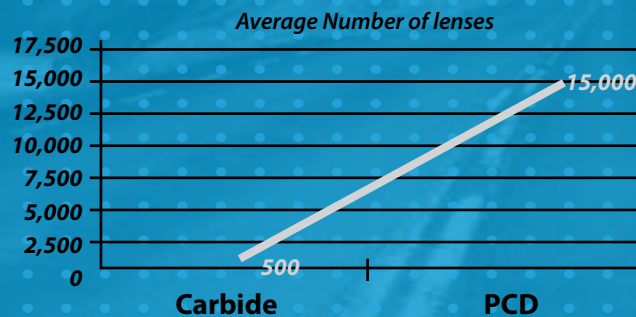
Superior
Edge
Strength

Good
Thermal
Conductivity

Less
Built Up
Edges

LOWEST
COST
PER LENS!

EXAMPLE OF EHWA® FINISHING TEST

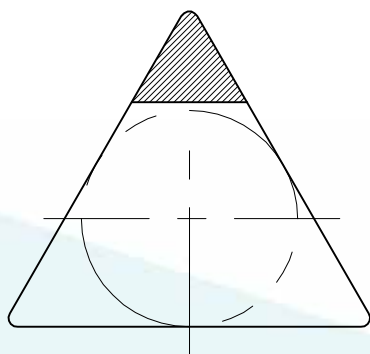


ADVANTAGES OF EHWA® As YOUR CUTTING TOOL PARTNER

With multiple grades of substrates offered, many years of PCD cutting tool experience, and a large team of skilled engineers, EHWA is uniquely positioned to be your cutting tool solutions provider!

EXAMPLE OF EHWA® PCD SUBSTRATE GRADES USED FOR CUTTING TOOLS

Diamond Value	Grain Size	Type	Grit Size
80-90	0.5 μm	Wc Backed	Ultra Fine
90	4 μm	Wc Backed	Fine
90	10 μm	Wc Backed	Mudium
90	25 μm	Wc Backed	Coarse
90	30 + 2 μm	Wc Backed	Multi Modal

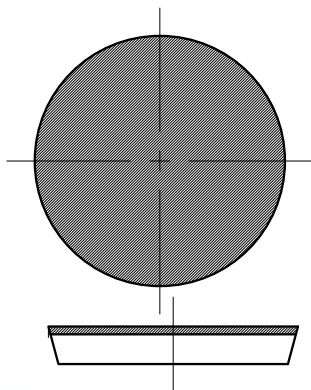


Machine Coburn® Tech.

Part Number GT-PCD-02-1001

Description PCD Insert

Manufacturer Part Number Call Us

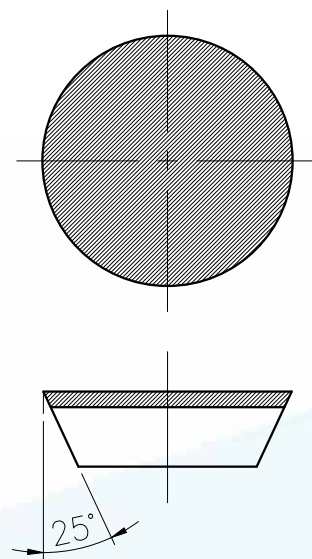


Machine Coburn® Tech.

Part Number GT-263962

Description PCD Cutter for DTL (16mm)

Manufacturer Part Number 263962



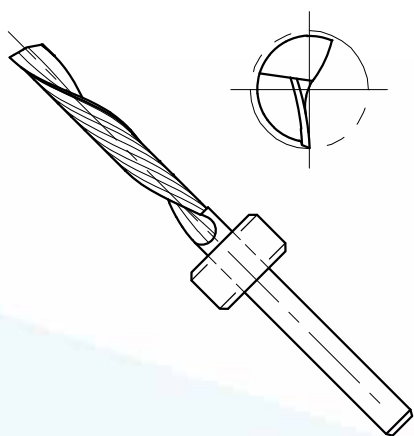
Machine Coburn® Tech.

Part Number GT- 1126200

Description PCD Cutter for IQ CNC Lensmaker & IQ SC2 (8mm)

Manufacturer Part Number 1126200

8MM INSERT

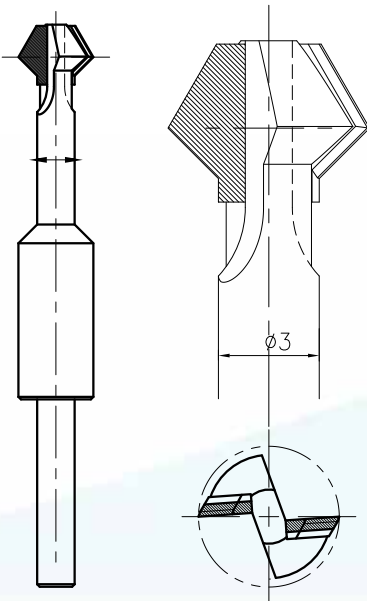


Machine MEI®

Part Number GT-F01015-MD-R-DX

Description TC-EMX Roughing
Tool 3mm Right

Manufacturer
Part Number F01015-MD-R-DX

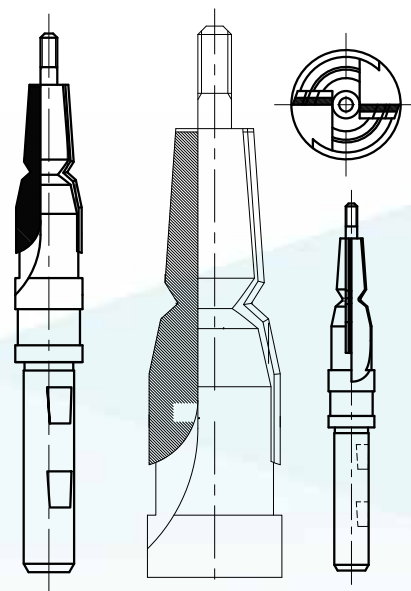


Machine MEI®

Part Number GT-F01041-MD-R-DX

Description PCD-EMX Beveling
Tool 45/60° Right

Manufacturer
Part Number F01041-MD-R-DX

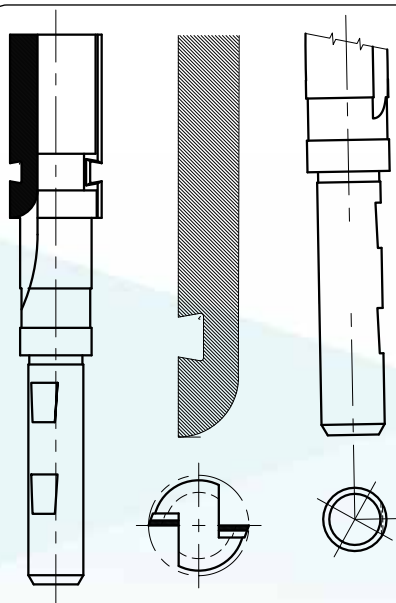


Machine MEI®

Part Number GT-F01072-PCD-DX

Description PCD-EMX
Right Shank

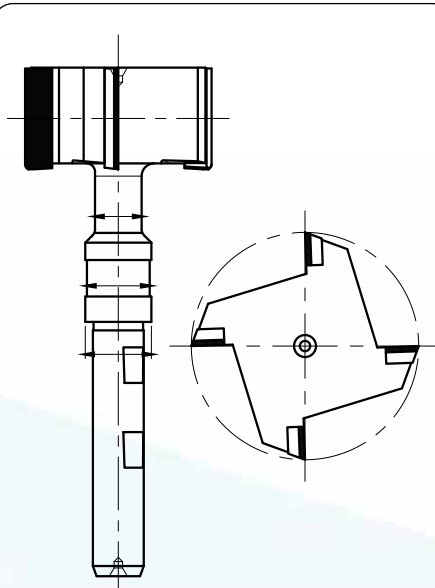
Manufacturer
Part Number F01072-PCD-DX



Machine

MEI®

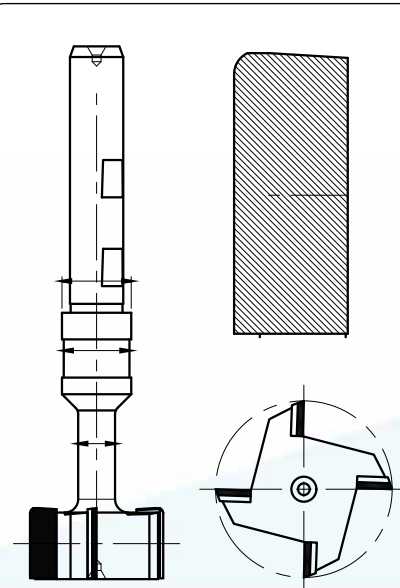
Part Number GT-F01058-PCD-DX

Description PCD-EMX T-Bevel
10.2X1.25 RightManufacturer
Part Number F01058-PCD-DX

Machine

MEI®

Part Number GT-F01013-PCD-DX

Description PCD-EMX Step Back
Tool 22X10mm RightManufacturer
Part Number F01013-PCD-DX

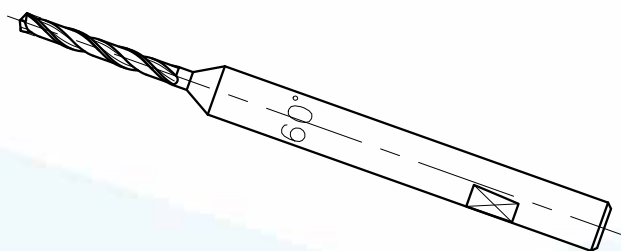
Machine

MEI®

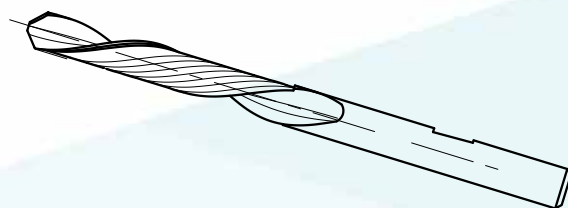
Part Number GT-F01034-SX

Description PCD-EMX Step Back
Tool 15X8mm LeftManufacturer
Part Number F01034-SX

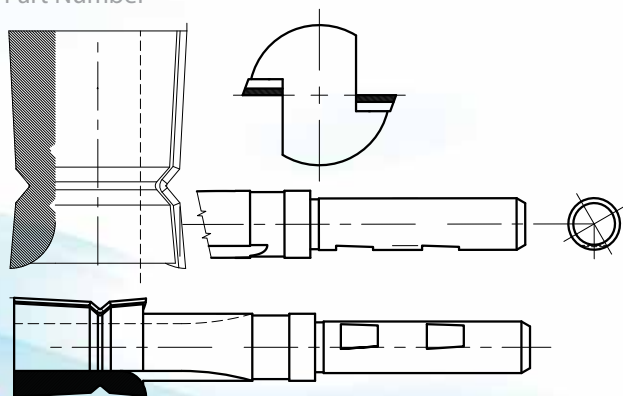
Machine MEI®
Part Number GT-F01007-MD-DX
Description TC-DRS1
1.0 mm Carbide
Manufacturer
Part Number F01007-MD-DX



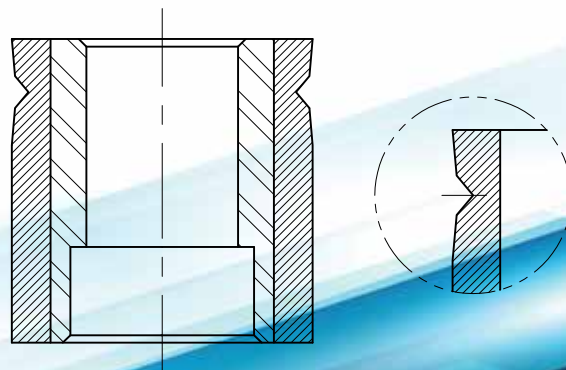
Machine MEI®
Part Number GT-F01062-MD-R-DX
Description TC-EMF1 Roughing Tool
4 mm + Safety Bevel
Manufacturer
Part Number F01062-MD-R-DX

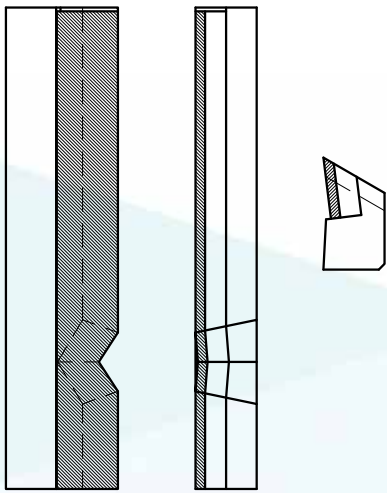


Machine MEI®
Part Number GT-F01071-PCD-DX
Description PCD-EMX Straight
Bevel Tool 100° Right
Manufacturer
Part Number F01071-PCD-DX



Machine MEI®
Part Number GT-F01060-DX-GR3
Description MD-1EE6Y Grinding
Wheel Rimless/Bevel
GR3 (Polish Wheel)
Manufacturer
Part Number F01060-DX-GR3



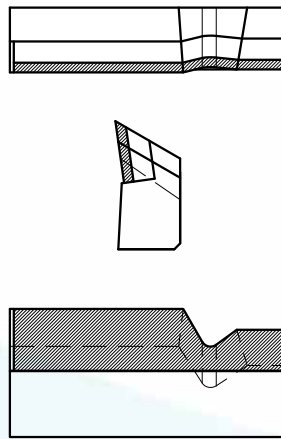


Machine Optronics

Part Number GT-PCD-04-1001

Description PCD-TSX
(114° - 6.65 C/L)

Manufacturer Call Us
Part Number

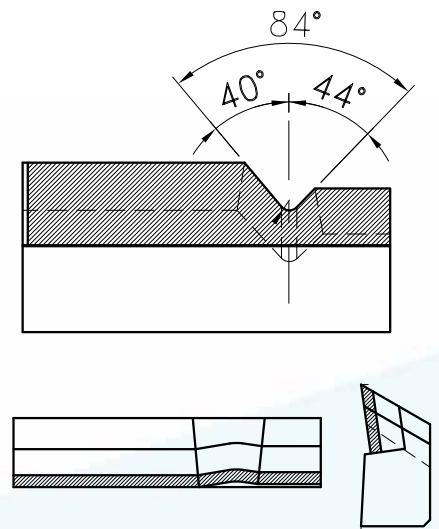


Machine Optronics

Part Number GT-93342

Description PCD-TSX
(Hi Wrap 1 30/54°)
Satisloh # 92-008-00

Manufacturer 93342
Part Number

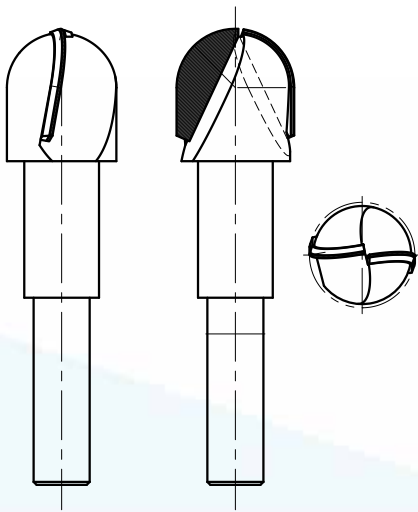


Machine Optronics

Part Number GT-93344

Description PCD-TSX
(Hi Wrap 2 40/44°)
Satisloh # 92-007-893

Manufacturer 93344
Part Number

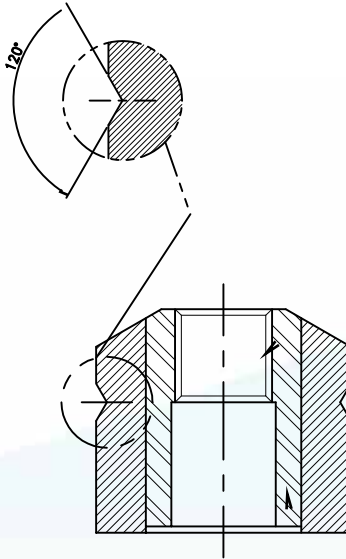


Machine Optronics

Part Number GT-93761

Description PCD-EMX
Polycrystalline Diamond
Cutter (Two Flute Cutter)

Manufacturer 93761
Part Number

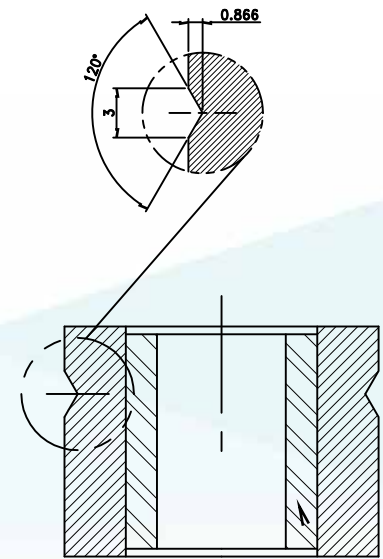


Machine Optronics

Part Number GT-MD-04-1011

Description MD-1EE6Y
(Polish Wheel Taper)
20.5 mm Diameter

Manufacturer Call Us
Part Number



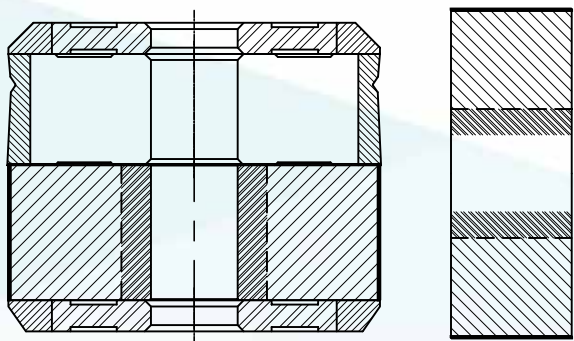
Machine Optronics

Part Number GT-MD-04-1012

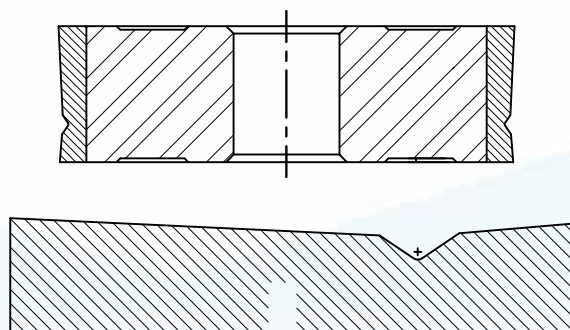
Description MD-1EE6Y
(Polish Wheel Bevel)
20.5 mm Diameter

Manufacturer Call Us
Part Number

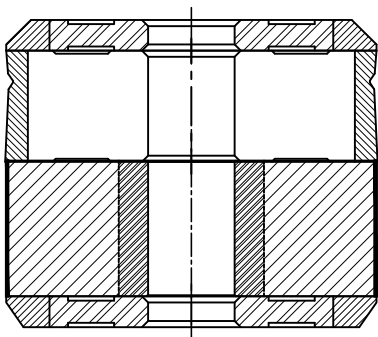
Machine Santinelli®
Part Number GT-40291-M007
Description BSL-460375-1
RS Rougher 60 grit (Right)
Manufacturer Part Number 40291-M007



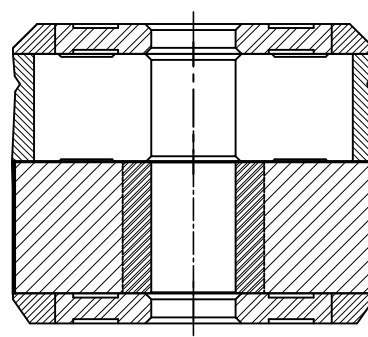
Machine Santinelli®
Part Number GT-40291-M002
GT-40291-M004
Description MD-1EE6Y LS/RS
MD-1EE6Y LS 112° Straight D400
MD-1EE6Y RS 112° Straight D4000
Manufacturer Part Number 40291-M002 (Left)
40291-M004 (Right)

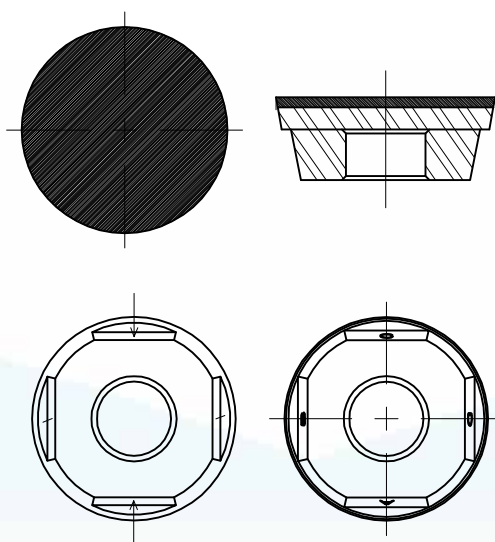


Machine Santinelli®
Part Number GT-40291-M031
GT-40291-M032
Description MD-1EE6Y 35° Bevel
RS D400 / LS D3000
Manufacturer Part Number 40291-M031 (Right)
40291-M032 (Left)



Machine Santinelli®
Part Number GT-40291-M003
GT-40291-M005
Description MD-1EE6Y 45° Bevel
RS D400 / LS D3000
Manufacturer Part Number 40291-M003 (Right)
40291-M005 (Left)



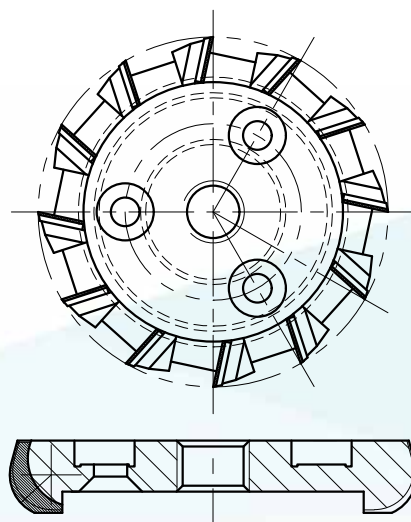


Machine Satisloh® V-Pro

Part Number GT-92-000-929

Description PCD-Insert 11mm
(PCD cutter bits 11 mm)

Manufacturer
Part Number 92-000-929

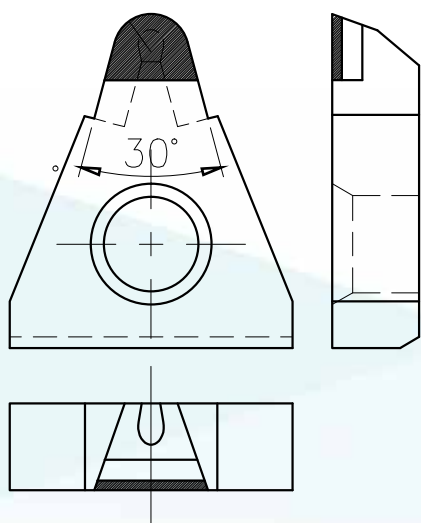


Machine Satisloh® VFT

Part Number GT-92-009-118

Description PCD-CTX 12 Tooth Cutter
Head (12 blade PCD disc)

Manufacturer
Part Number 92-009-118

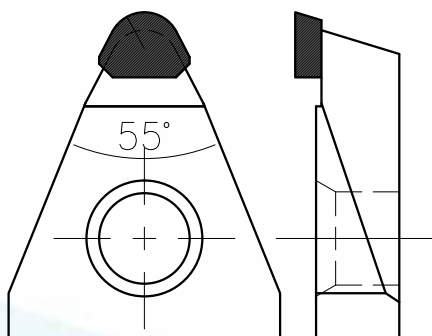


Machine Satisloh® VFT

Part Number GT-92-007-611

Description PCD-GX
(Turning tip PCD R 2 mm)

Manufacturer
Part Number 92-007-611

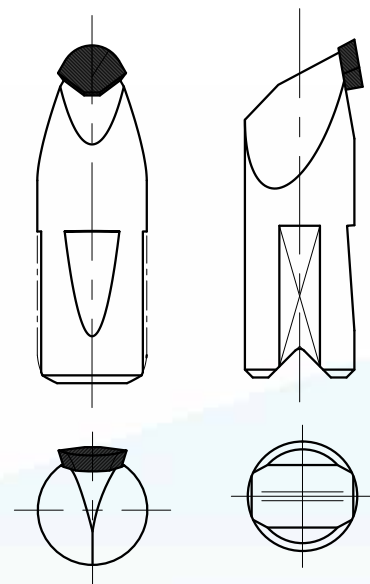


Machine Satisloh® VFT

Part Number GT-92-007-626

Description Monocrystalline Insert
(Turning tip MCD R 2 mm)

Manufacturer
Part Number 92-007-626

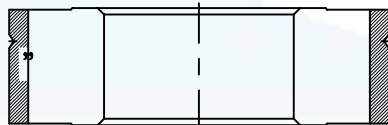
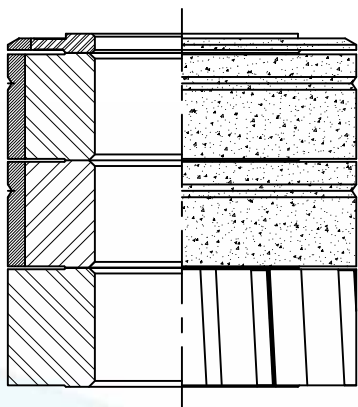


Machine Satisloh®

Part Number GT-PCD-06-3012

Description Monocrystalline Insert

Manufacturer
Part Number Call Us

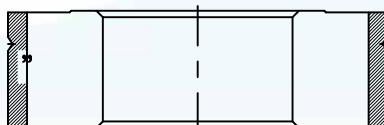
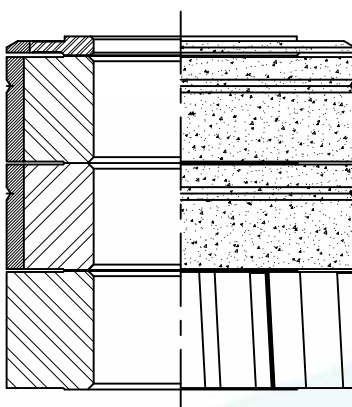


Machine Satisloh® ES

Part Number GT-MD-06-1017

Description MD-1EE6Y
(60D - 18T - 1.5X - 30H
112° V - Groove D400)

Manufacturer Part Number Call Us

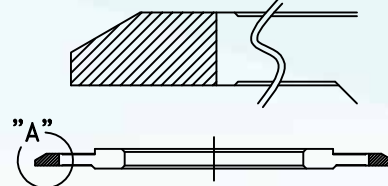
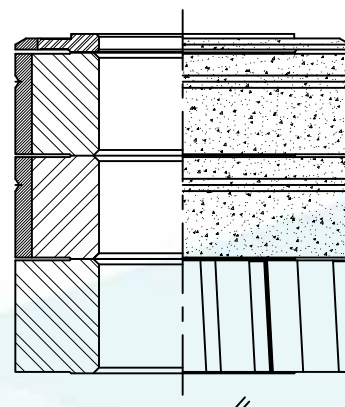


Machine Satisloh® ES

Part Number GT-MD-06-1018

Description MD-1EE6Y
(60D - 18T - 1.5X - 30H
112° V - Groove D2400)

Manufacturer Part Number Call Us



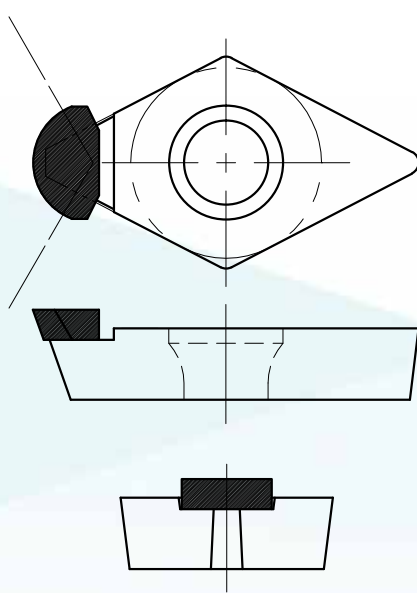
Machine Satisloh® ES

Part Number GT-92-005-736
Pin Bevel

Description MD-1EE6Y
60D - 3.3T - 30H
30° Bevel

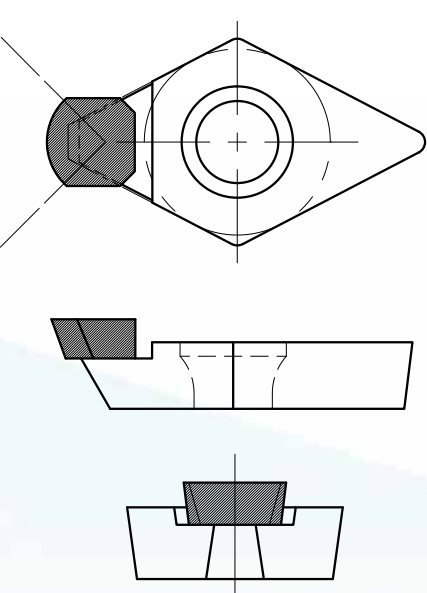
Manufacturer Part Number 92-005-736 Pin Bevel

120° Insert

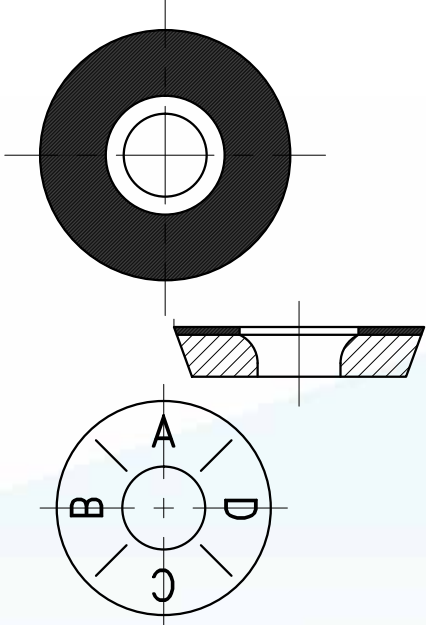


Machine	Schneider
Part Number	GT-DB-07-2003
Description	120° Included Angle Monocrystalline Insert
Manufacturer Part Number	Call Us

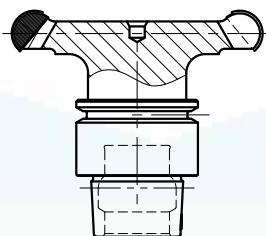
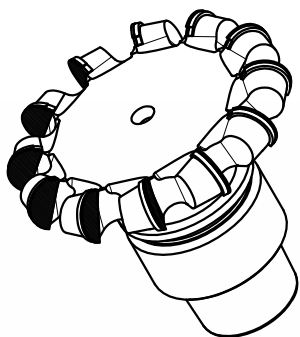
90° Insert



Machine	Schneider
Part Number	GT-DB-07-2004
Description	90° Included Angle Monocrystalline Insert
Manufacturer Part Number	Call Us



Machine	Schneider
Part Number	GT-DB-07-2005 Insert 16 mm Round
Description	PCD 16 mm Insert
Manufacturer Part Number	Call Us



Machine

Schneider

Part Number

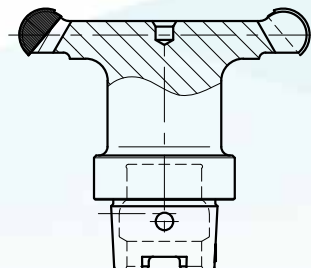
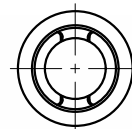
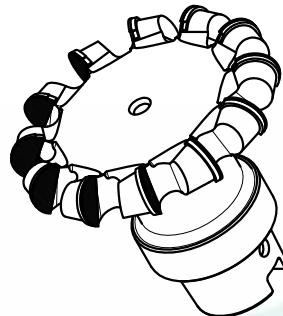
GT-PCD-07-1001

Description

PCD-CTX HSC-32E
12 Tooth Roughing Cutter

Manufacturer
Part Number

Call Us



Machine

Schneider

Part Number

GT-PCD-07-1002

Description

PCD-CTX HSC-32C
12 Tooth Roughing Cutter

Manufacturer
Part Number

Call Us

16

CUSTOMER TOOL ORDER FORM

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Machine Model		
Part Number		

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