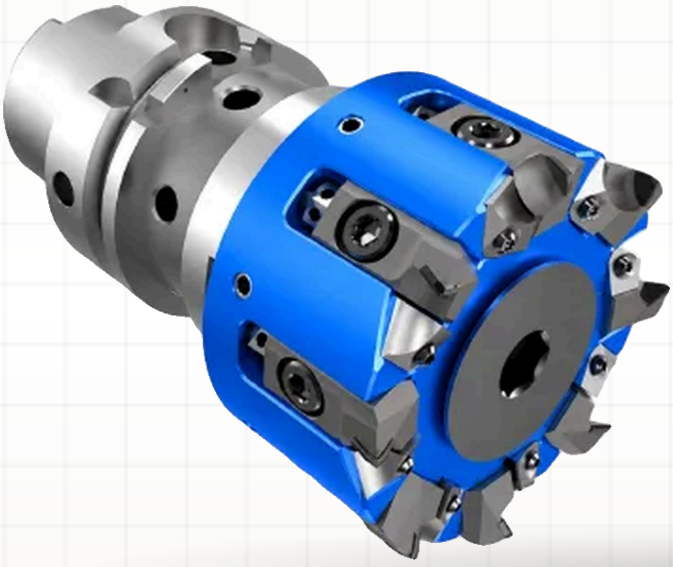
VALUE TOOLS

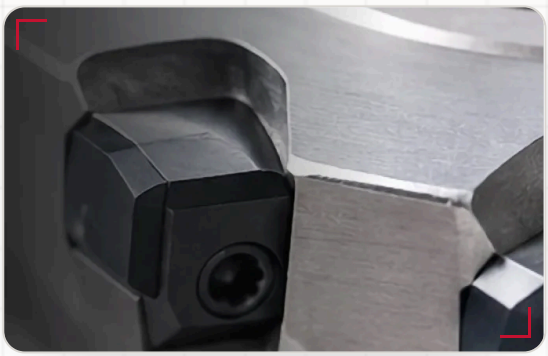
STANDARD & SPECIAL CUTTING TOOLS

BENGALURU, INDIA
MANUFACTURING UNIT
DEALER · AUSTRALIA & NZ

PRODUCT DATASHEET

PCD CARTRIDGES FOR FACE MILL CUTTERS







- FINISHING
- FACING
- CORNER MILLING
- HSC OPERATIONS
- BALANCED TO DIN 69888

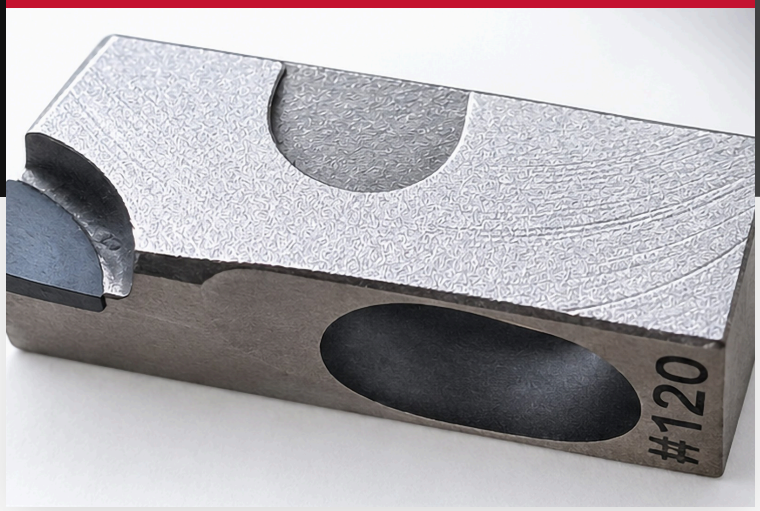
WWW.VALUE-TOOLS.COM
connect@value-tools.com · +91 96112 36211

VALUE WORKERS
VW-DS-PCD-FMC · REV A · 10/2026

FACE MILLING · HSC OPERATIONS

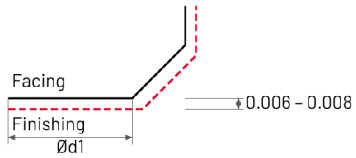
PCD Cartridges For Face Mill Cutters

FINISHING | FACING | CORNER MILLING | HSC



COMBINATION FINISHING & FACING SETUP

0.006 – 0.008 mm



High-precision PCD cartridges
Polycrystalline diamond cutting edges for finishing, facing and corner milling.

Internal coolant supply
Coolant routed through the body directly to each cutting edge.

Precision balancing to DIN 69888
Balanced for stable running at HSC spindle speeds.

Axial run-out adjustment
Each cartridge is set axially to micron level.

Secure clamping and adjusting screws
Cartridges are positively clamped and individually adjustable.

Lightweight aluminium-alloy body
Low mass for high spindle speeds. Ø63 mm body in steel.

PREMIUM PCD MATERIAL	HIGH WEAR RESISTANCE	CONSISTENT PERFORMANCE	PRECISION · STABILITY · SURFACE FINISH

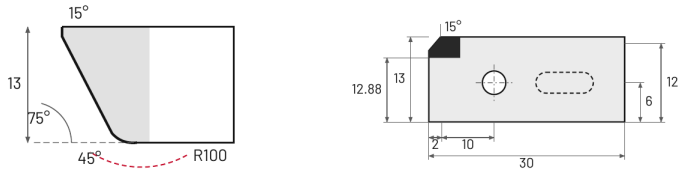
TECHNICAL DATA

PCD Finishing, Facing & Corner Milling Cartridges for HSC

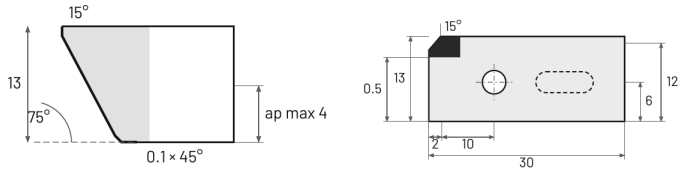
All dimensions in mm
Drawings schematic, not to scale

CARTRIDGES

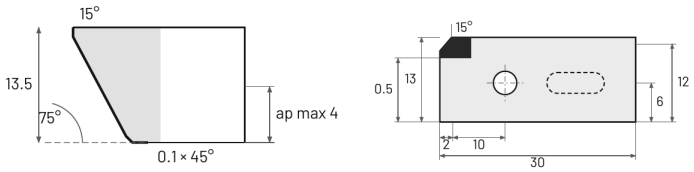
TYPE A Wiper radius R100 · 45° lead



TYPE B 0.1 × 45° corner chamfer · ap max 4 mm



TYPE C 0.1 × 45° corner chamfer · ap max 4 mm



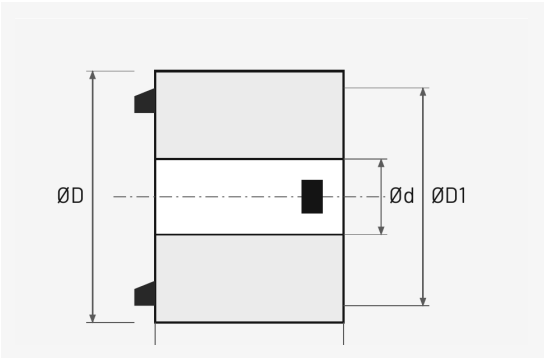
SPINDLE & CUTTING SPEEDS

Diameter Ø mm	Spindle speed max. min^{-1}	Cutting speed max. m/min
63	20,000	3,960
80	24,360	6,120
100	21,650	6,800

$v_c = \pi \cdot D \cdot n / 1000$, rounded to 10 m/min. Permissible maximums; verify against tool, machine and workpiece conditions.

BASIC BODY

Dimensions to DIN 8030



Basic body supplied with: balancing screws and clamping screws fitted. Cartridges not included.

Cartridges supplied: without clamping screws.

ORDERING EXAMPLES

Corner mill, complete tool Ø63 mm, Z = 3

1 × basic body · 3 × corner cartridge

ORDER EXAMPLE

Face milling cutter Ø80 mm, Z = 5

1 × basic body
4 × facing cartridge
1 × finishing cartridge

Technical data are for guidance and subject to change without notice. Performance depends on machine, clamping, coolant and workpiece material. Special geometries and diameters available on request.

ONE STOP SHOP

High Quality Standard & Customised Products

Automobile Industry
PCD tools, solid carbide tools, fixtures & components

Wood Working Industry
Carbide tip tools, slitters & cutters, blades, accessories

Machine Building
Hardened & customised guideways, fixtures & components

All Industries
Consumables, slitters, broach tools

Contact Us

MANUFACTURING UNIT · INDIA

VALUE TOOLS

Value Workers

#88, Ground Floor, 5th Cross Road, Aralu Mallige Parthasarathy Rd, beside DESI Shop, Seetha Circle, Nagendra Block, Banashankari 1st Stage, Bengaluru – 560050, India

+91 96112 36211

connect@value-tools.com

www.value-tools.com

How we work · remote AR support: value-tools.com/how-we-work

Instagram · value.workers

GSTIN 29AAZFV4451B1ZP

DEALERS & DISTRIBUTORS · AUSTRALIA & NEW ZEALAND

Iksha CONSULTING

Iksha Consulting Pty Ltd

Melbourne, Australia

+61 403 706 322

connect@ikshaconsulting.com

www.ikshaconsulting.com