



# MOHAWK

PCD | CBN | CVD  
CUTTING TOOLS

WORLD WIDE MARKET LEADERS IN  
PRECISION MADE CUTTING TOOLS

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C U T T I N G   T O O L S



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# The Company



## GENERAL OVERVIEW

### MOHAWK SPECIAL CUTTING TOOLS

Mohawk is recognised as one of the leading manufacturers of customised special cutting tools, gaining its reputation over the past 50 years by providing innovation and high performance tooling solutions to all its customers.

Based in Shannon, Ireland, our manufacturing facility is purposely designed to manufacture custom cutting tools for the world's aerospace, automotive & medical industries.

Our experienced staff, state of the art machinery and precision equipment allow us to continuously grow and provide our customers with a cost effective tooling solution.

## CURRENT BUSINESS

We currently supply the aerospace, automotive and medical industries with customised special cutting tools in High Speed Steel, Carbide and PCD/CBN/CVD.

## QUALITY

Mohawk operates a Quality Management system in accordance with ISO 9001-2015 standard. Providing the most competitive service available, we ensure outstanding quality, service and value.

All of our products are rigorously inspected before we deliver to our customers. This is to ensure all aspects of the tool are to the customers print. Our equipment is regularly calibrated, with all of our inspection associates fully trained on our new high end inspection equipment

# Mohawk Special Cutting Tools

Mohawk Special Cutting Tools is specialised in the manufacture of high performance PCD/CBN/CVD tooling, designed according to customer requirements. At Mohawk Special Cutting Tools, we are dedicated to constantly improving our products.

## Increased Productivity

- Tool designs are optimised according to the actual application, which enables you to operate the tools at higher RPM's and feed rates. Increased cutting parameters provide a shorter cycle time, less down-time and thereby a greatly increased productivity.

## Increased Product Quality

- The unique design system and the very narrow tolerances of the tools cause less vibrations and thereby less friction. Reduced friction yields a longer tool life, better roundness, and a second-to-none surface quality of holes.

## Professional Technical back-up

- With highly qualified tooling technicians working in close cooperation with you, we are ready to provide the best advice on the cutting.



PCD grades have different characteristics and behaviours in applications. Different grades suit certain conditions and materials. We find the best solutions for all our customers.

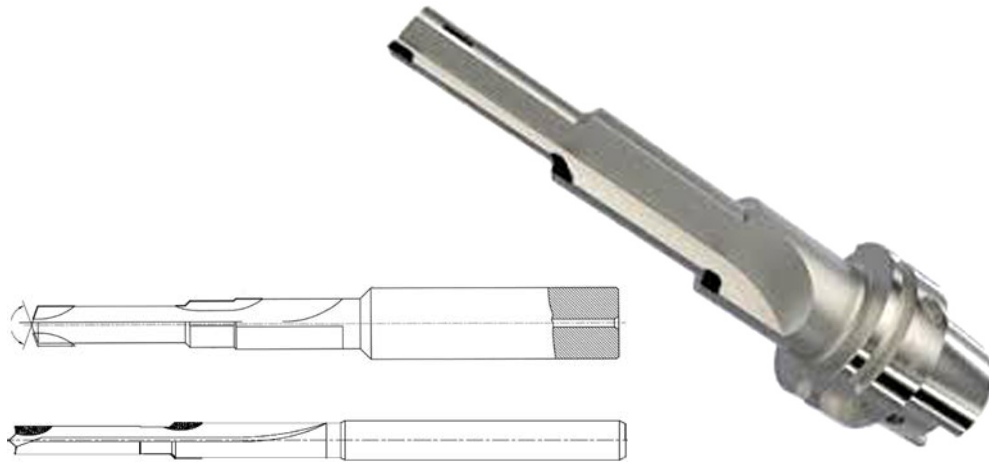
## Processing Characteristics

Grade Characteristics		Behaviour in Applications	
	Grain Size	Chip Resistance	Abrasion Resistance
MHX850	0.5 - 1 $\mu\text{m}$		
MOH002	2 $\mu\text{m}$		
MOH010	10 $\mu\text{m}$		
MOH025	25 $\mu\text{m}$		
MOH302	2 - 30 $\mu\text{m}$		

# Our Product Range

## STEP DRILLS FOR AUTOMOTIVE INDUSTRY

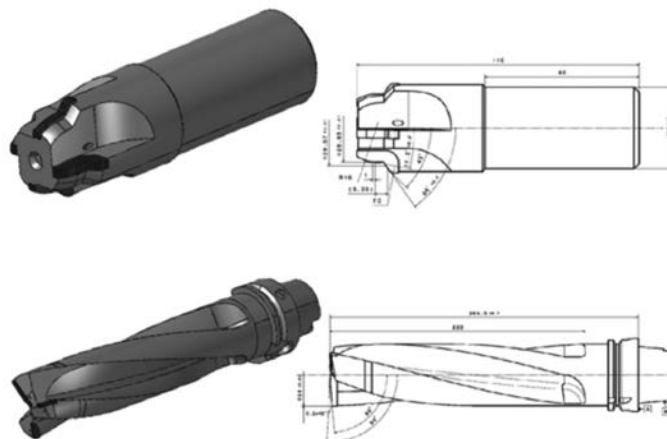
- Material: **PCD/CBN/CVD**
- Carbide body
- With lubrication
- Sizes available on request



## STEP DRILLS

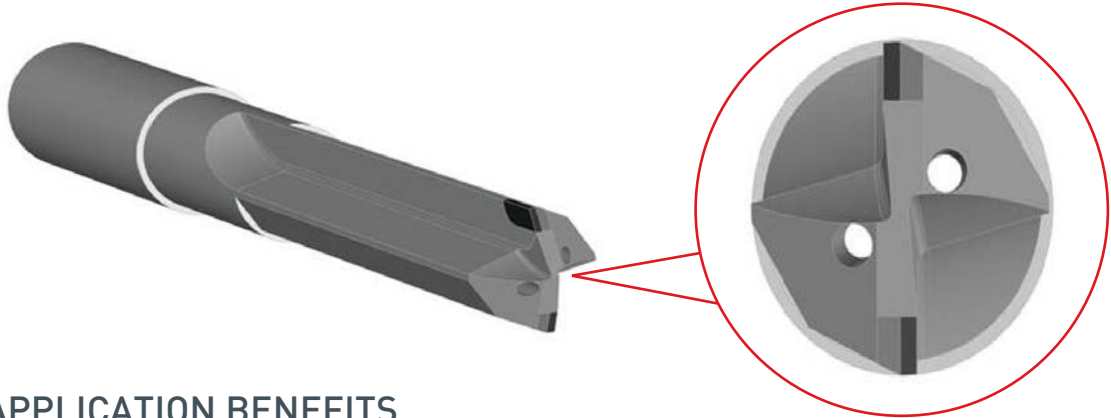


## CORE DRILLS



# PCD Tooling

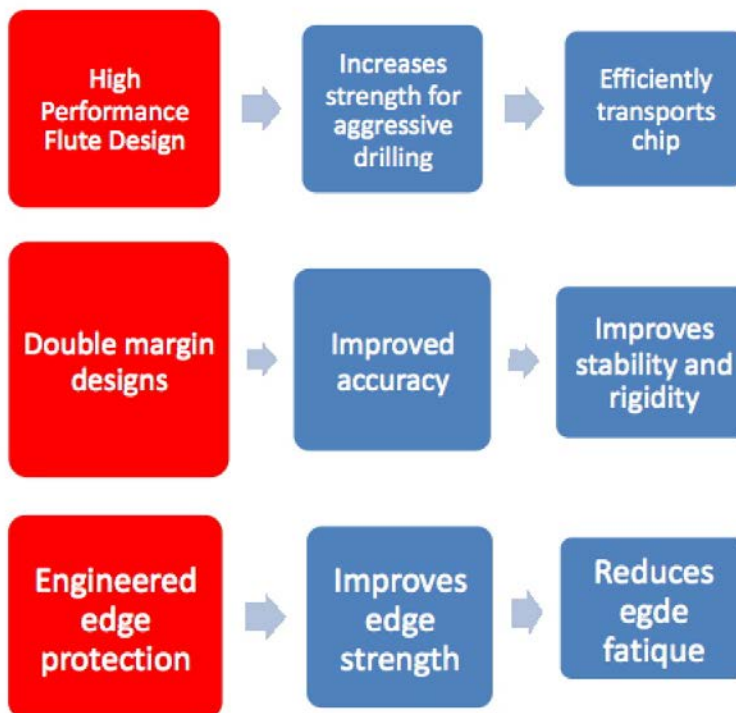
## PCD **BURNISHING DRILL**



### APPLICATION BENEFITS

- Highest productivity for all non-ferrous based materials
- Excellent hole quality and hole finish
- Excellent chip removal
- High abrasive resistance to machine high silicon content aluminium

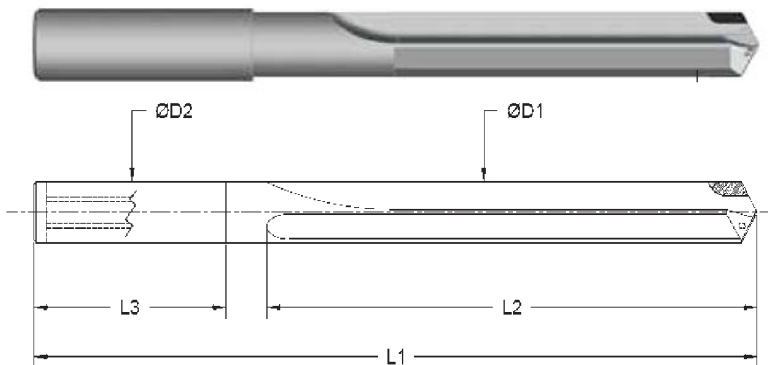
The unique features of the Burnishing Drill gives application benefits, not only far beyond that of carbide drills, but also other PCD drills in the industry. Each feature of the Mohawk Drill was individually engineered as a solution to tackle the issues commonly encountered in high production drilling.





# PCD Tooling

## PCD BURNISHING DRILL • Carbide body • With lubrication



CUTTING DIAMETER (D1)	DEC EQUIV	TAP SIZE REFERENCE	SHANK DIAMETER (D2)	OVERALL LENGTH (L1)	FLUTE LENGTH (L2)	SHANK LENGTH (L3)
5.0 mm	0.1969	M6 X 1	6 mm	66 mm	28 mm	36 mm
B	0.238		1/4	(3-1/8)	(1-5/16)	(1-7/16)
6.1 mm	0.2402		8 mm	79 mm	34 mm	36 mm
I	0.272	5/16-24	5/16	(3-1/8)	(1-5/16)	(1-7/16)
7.0 mm	0.2756	M8 X 1	8 mm	79 mm	34 mm	36 mm
J	0.277		5/16	(3-1/8)	(1-5/16)	(1-7/16)
8.0 mm	0.315	M9 X 1	8 mm	79 mm	41 mm	36 mm
O	0.316		3/8	(3-1/2)	1-27/32	(1-9/16)
9.0 mm	0.3543	M10 X 1	10 mm	89 mm	47 mm	40 mm
25/64	0.3906	7/16-20	1/2	(3-1/2)	1-27/32	(1-9/16)
10.0 mm	0.3937		10 mm	89 mm	47 mm	40 mm
X	0.397	7/16-24	1/2	(4-1/16)	(4-1/16)	1-49/64
11.0 mm	0.4331	M12 X 1	12 mm	102 mm	55 mm	45 mm
15/32	0.4688	(1/2-28)	1/2	(4-1/16)	(4-1/16)	1-49/64
12.0 mm	0.4724	M14 X 2	12 mm	102 mm	55 mm	45 mm
31/64	0.4844	9/16-12	1/2	(4-1/4)	(2-5/16)	1-49/64
13.0 mm	0.5118	M14 X 1	14 mm	107 mm	60 mm	45 mm
14.0 mm	0.5512	M16 X 2	14 mm	107 mm	60 mm	45 mm
15.0 mm	0.5906	M16 X 1	16 mm	115 mm	65 mm	48 mm
16.0 mm	0.6299		16 mm	115 mm	65 mm	48 mm
21/32	0.6562	(3/4-10)	3/4	(4-7/8)	(2-3/4)	1-57/64
17.0 mm	0.6693		18 mm	123 mm	73 mm	48 mm
18.0 mm	0.7087		18 mm	123 mm	73 mm	48 mm
19.0 mm	0.748	(7/8-9)	20 mm	131 mm	79 mm	50 mm
(3/4)	0.75	M22 X 2.5	3/4	(5-1/4)	(3-1/16)	1-31/32

Above sizes are semi-finished stock available on quick turnaround.  
All other sizes and lengths are available upon request.

# PCD Tooling

## PCD REAMER

- Material: PCD/CBN/CVD
- Carbide body
- With lubrication

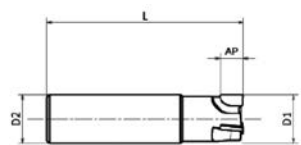


Tool Material	OD Diameter	Shank Diameter	Length
PCD	4-6mm	6mm	65
PCD	6-8mm	8mm	65
PCD	8-10mm	10mm	90
PCD	10-12mm	12mm	90
PCD	12-14mm	14mm	90
PCD	14-16mm	16mm	90
PCD	16-18mm	18mm	110
PCD	18-20mm	20mm	110

Above sizes are semi-finished stock available on quick turnaround.  
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## FACE MILLS WITH CYLINDRICAL SHANK

- Material: PCD/CBN/CVD
- Carbide body
- With lubrication



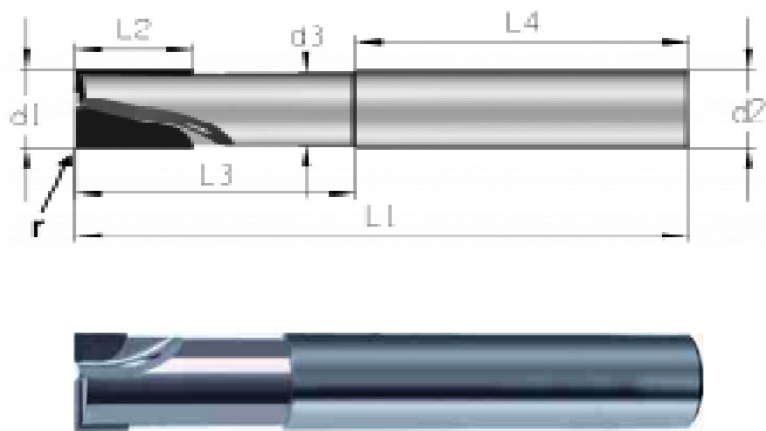
Tool Material	OD Diam	Shank Diam	Length
PCD	6-8mm	8mm	65
PCD	8-10mm	10mm	75
PCD	10-12mm	12mm	75
PCD	12-14mm	14mm	75
PCD	14-16mm	16mm	75
PCD	16-18mm	18mm	85
PCD	18-20mm	20mm	85

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# PCD Tooling

## PCD ROUTER

- Material: PCD/CBN/CVD
- Carbide body



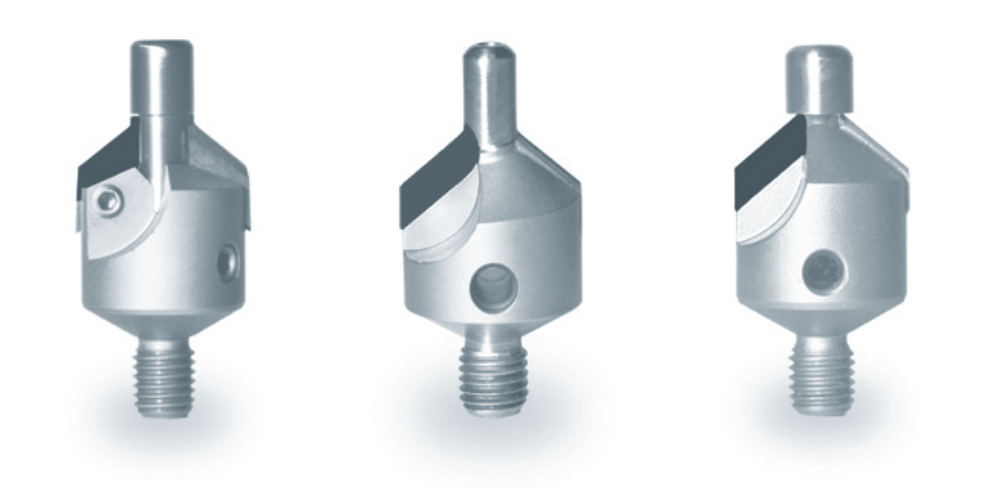
D1=D2 mm	D3 mm	L1 mm	L2 mm	L3 mm	L4 mm	R mm	No. Flutes mm
6	5.7	75	8	21	36	0.1	2
8	7.4	100	12	27	36	0.1	2
10	9.4	100	16	32	40	0.1	2
12	11.2	100	16	38	45	0.1	2
14	13	100	16	38	45	0.1	2
16	15	150	20	52	48	0.1	2
18	17	150	20	52	48	0.1	2
20	19	150	20	52	50	0.1	2

Above sizes are semi-finished stock available on quick turnaround.  
All other sizes and lengths are available upon request.  
Can be supplied with thru holes if required.

# PCD Tooling

## PCD COUNTER SINK DRILL

- Material: PCD/CBN/CVD
- HSS body



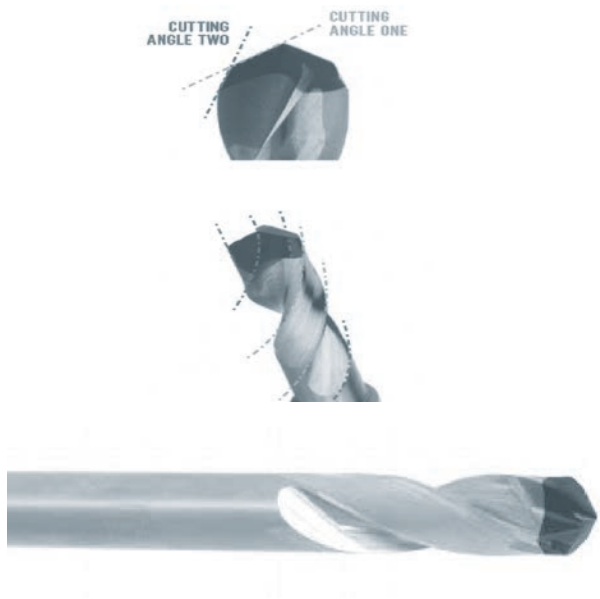
"D" BODY DIAMETER	"PD" PILOT DIAMETER	Nº OF FLUTES	C'SINK ANGLE
10	3	2	100°/ 130°
12	3	2	100°/ 130°
14	3	2	100°/ 130°
17	4	2	100°/ 130°
19	6	2	100°/ 130°
22	8	2	100°/ 130°
25	8	2	100°/ 130°

Above sizes are semi-finished stock available on quick turnaround.  
All other sizes and lengths are available upon request.

# PCD Tooling

## PCD DRILL

- Material: PCD/CBN/CVD
- Carbide body
- With lubrication
- Alternative sizes available on request



Tool Material	OD Diam	Shank Diam	Length
PCD	6-8mm	8mm	65
PCD	8-10mm	10mm	75
PCD	10-12mm	12mm	75
PCD	12-14mm	14mm	75
PCD	14-16mm	16mm	75
PCD	16-18mm	18mm	85
PCD	18-20mm	20mm	85

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All other sizes and lengths are available upon request.

# PCD Tooling

## PCD BALL END MILL

- Material: PCD/CBN/CVD
- Carbide body
- Alternative sizes available on request



CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAMETER	CUTTING RADIUS	L	OVERALL LENGTH	Nº OF FLUTES
5	8	5	2.5	12	60	2
6	10	6	3	14	75	2
6	15	6	3	19	75	2
8	10	8	4	15	75	2
8	15	8	4	20	75	2
10	15	10	5	20	75	2
12	15	12	6	20	75	2
16	20	16	8	25	100	2
20	25	20	10	30	100	2

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# MOHAWK

SPECIAL CUTTING TOOLS

MEETING THE NEEDS OF ADVANCED INDUSTRIES



MEDICAL



AUTOMOTIVE



AEROSPACE

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