

World of mICRO Tools

- Tools for mICRO mACHINING
- Electronics
- Medical

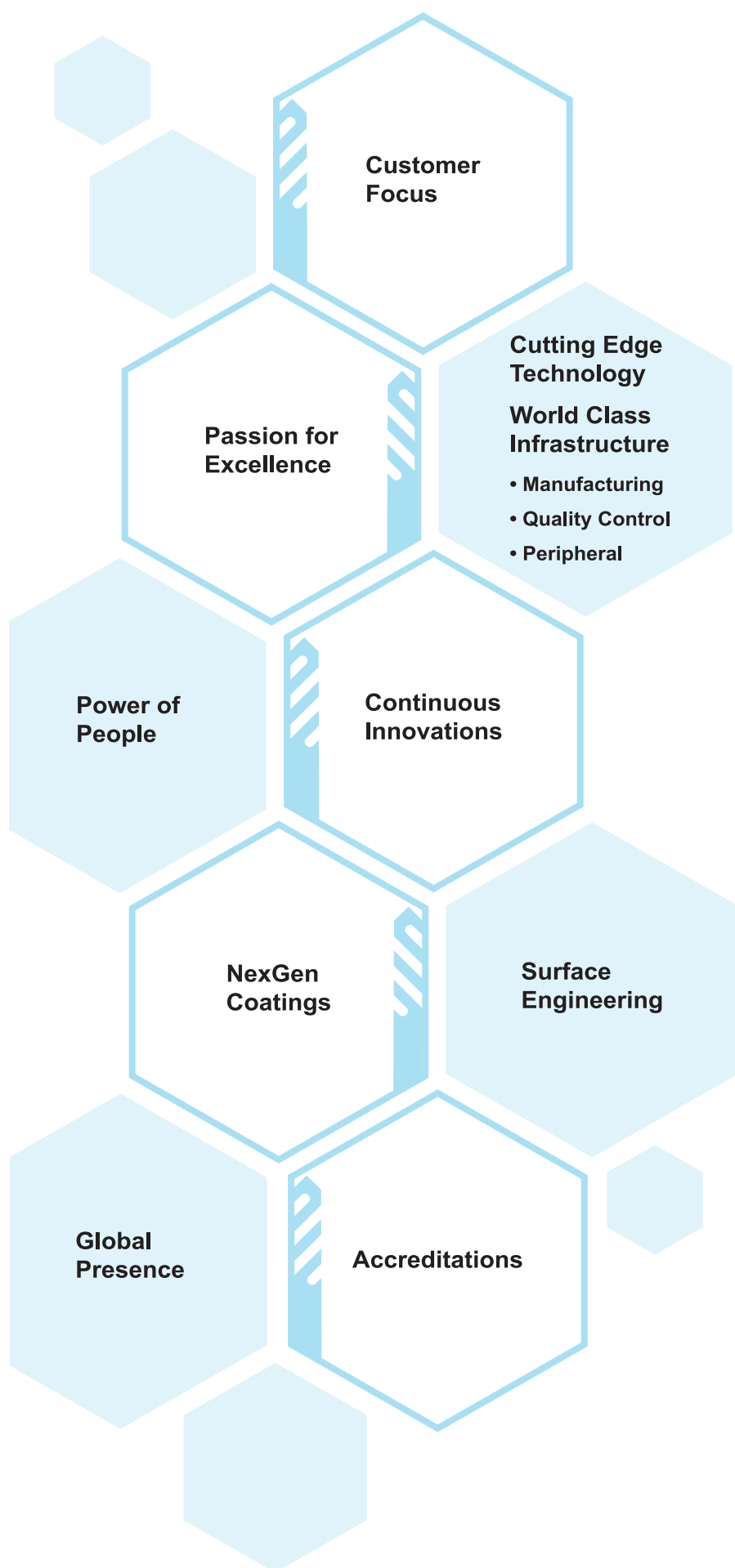


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	Series	Dia Range (mm)	Description	Tool Image	Page
Drilling	H305	0.80 - 6.00	INDrill Cool_5xd		14
	H310	0.80 - 6.00	INDrill Cool_10xd		15
	H315	0.80 - 6.00	INDrill Cool_15xd		16
	H320	0.80 - 6.00	INDrill Cool_20xd		17
	H325	1.00 - 6.00	INDrill Cool_25xd		18
	H330	1.00 - 6.00	INDrill Cool_30xd		19
	T210	1.00 - 6.00	Pilot Drills		20
	T311	0.30 - 3.00	INDrill+ Short Flute Length Series		22-24
	T312	0.30 - 3.00	INDrill+ Medium Flute Length Series		25-27
	T313	0.30 - 3.00	INDrill+ Longer Flute Length Series		28-30
	T301	0.30 - 3.00	INDrill Short Flute Length Series		32-34
	T302	0.10 - 3.00	INDrill Medium Flute Length Series		35-37
	T303	0.015 - 3.00	INDrill Longer Flute Length Series		38-40
	T580 /T581	0.05 - 6.00	NC Pointing Drills		41
	T698	0.05 - 1.50	Reinforced Shank mICRO Drills		42-43
	T732	0.60 - 16.00	Parallel Shank Drills Stub Series		44-45
	T832	0.50 - 16.00	Parallel Shank Drills Jobber Series		46-47
	R90X/H90X	0.90 - 12.15	High Precision Reamers		48
Milling	E305	1.00 - 12.00	High Performance End Mills		50
	E307	1.00 - 12.00	High Performance End Mills		51
	E923	0.10 - 6.00	Single Flute End Mills		53
	E966	0.05 - 6.00	2 Flute End Mills		54
	E967	0.20 - 6.00	4 Flute End Mills		55
	E968	1.00 - 6.00	3 Flute End Mills		56
	B970 / B870	0.20 - 6.00	2 Flute Ballnose End Mills		58
	B972	0.20 - 6.00	4 Flute Ballnose End Mills		59
	G847	0.05 - 0.20	Engravers		60
	C676	3.00 - 12.00	Chamfering Cutter		61



Corporate Profile

AXIS India

AXIS Tools for mICRO mACHINING are brought to you by IND-SPHINX Precision Ltd. incorporated in 1987 as a JV with SPHINX Werke Muller Switzerland.

First state-of-the-art facility was set up in the Himalayan foothills in Parwanoo, Himachal Pradesh, India growing quickly to three dedicated facilities offering wide range of High Precision Tools for diverse sectors such as Aerospace, Defence, Automobile, Medical, Die and Mould, Horology, Jewellery, Semi conductor, PCBs and other applications in mICRO mACHINING.

Today AXIS is among world's leading manufacturers of High Precision Tools for mICRO mACHINING and Precision Machining of challenging materials and for emerging applications. Innovative thinking, flexible production and agile processes enable us offer extraordinary tooling solutions.

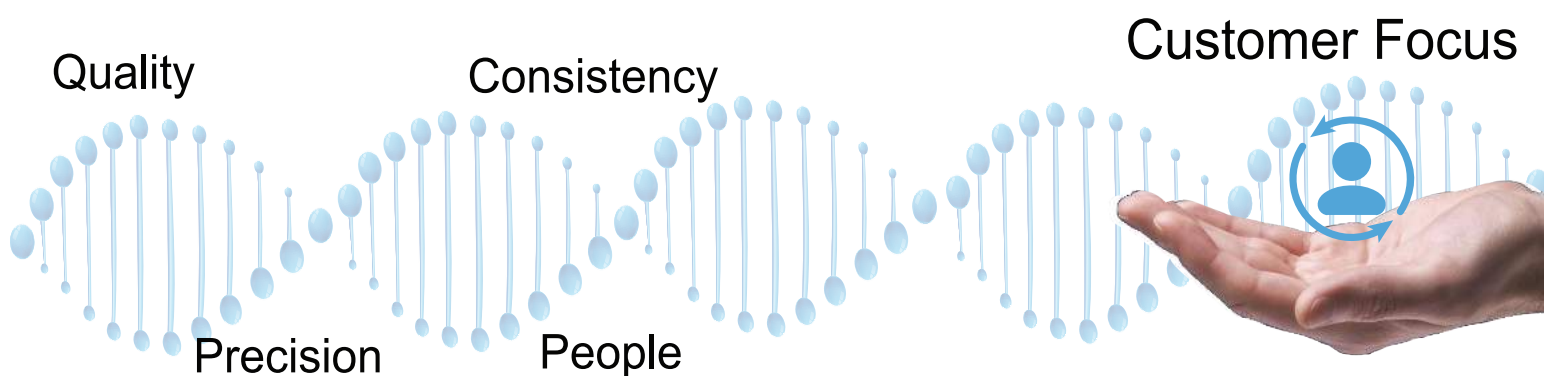


AXIS Europe

AXIS Europe GmbH located in Weingarten / Baden-Württemberg, Germany is wholly owned subsidiary of INDSPHINX, for sales and application support to customers in Europe.

Corporate Ethos

Our D.N.A



- Tools for mICRO mACHINING
- Electronics
- Medical

Tools starting from
Ø 0.015mm (15 Microns)



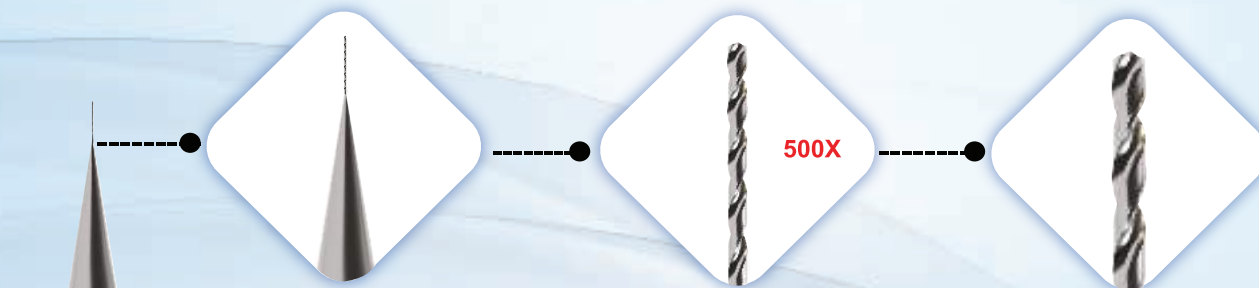
Cutting Edge Technology World Class Infrastructure

State-of-the-Art Machinery

Best in class Swiss, German and Japanese high precision grinders are deployed to produce products of high precision, enhanced consistency and complex standards.

Our Swiss heritage ensure a sound foundation to our production. Innovation focussed culture ensures that technological advances are continuously embraced and complimented with our skills and expertise in High Precision tool making.





Passion for Process Excellence

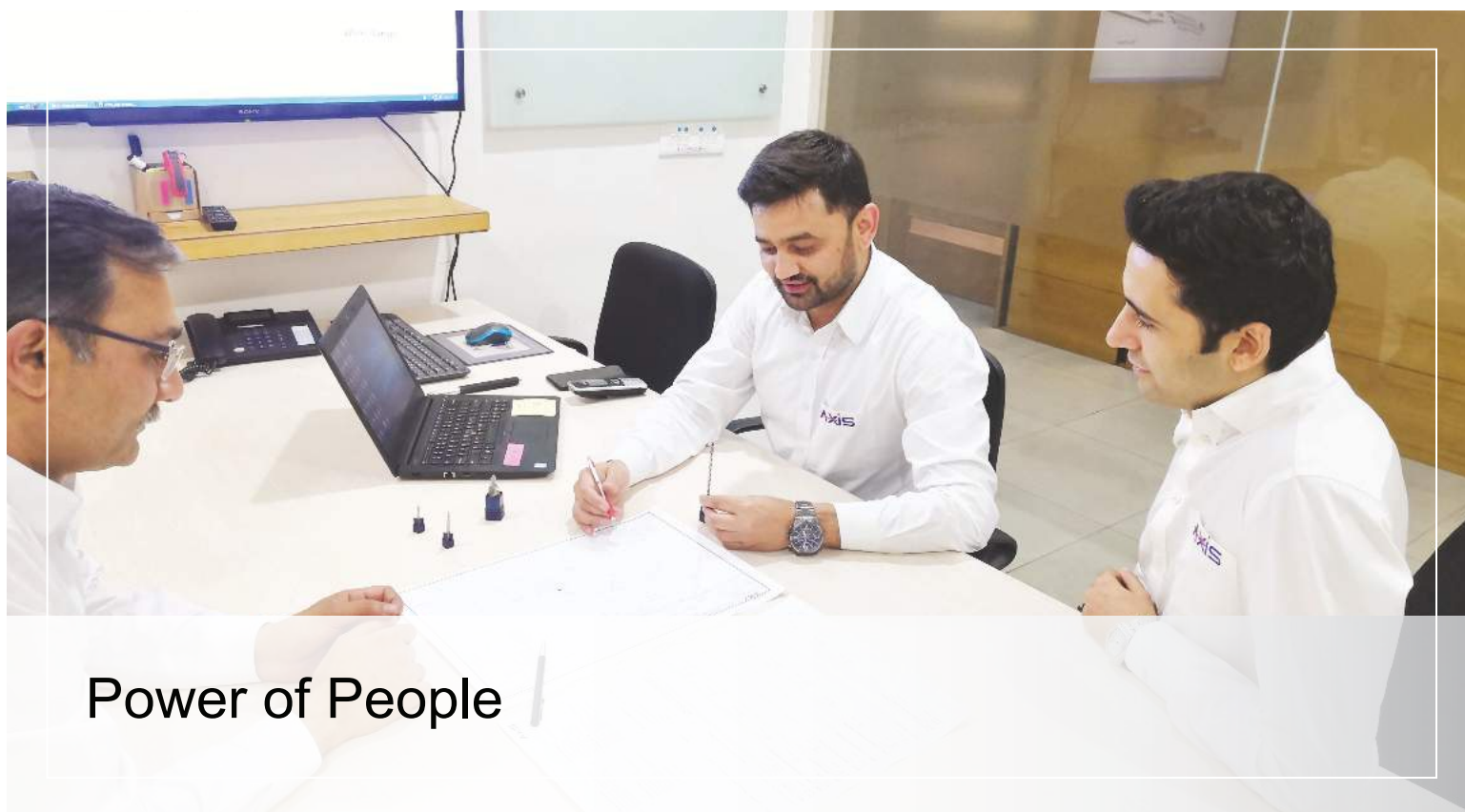
Class-Leading Inspection Systems

To deliver superior customer value, we relentlessly pursue quality and process excellence.

High-end Inspection and quality systems of German, Japanese make are deployed to achieve exacting standards in Quality, Precision and Accuracy.

Our Team's passion for pre-eminence, accumulated expertise, and unwavering customer focus has helped us deliver on our corporate ethos of Quality, Precision and Accuracy with unbeaten consistency.





Power of People

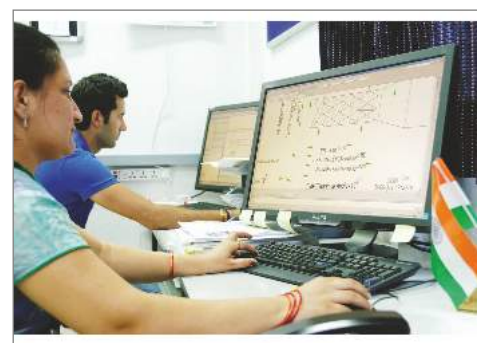
Team

Our core team members bring decades of diverse experience, proven competency and history of accomplishment.

Team members endeavour to unleash individual and collective productive capabilities into our products, processes, innovation, operational excellence and organisational resilience

Further, high performance teams - with right mindset, skillset and tool set - blending experience and energy accomplish outcomes of customer delight.

Together, we strive to achieve Global Excellence in Precision mICRO tooling Solutions.





Continuous Innovations



AXIS INNO-Center

AXIS INNO-Center is a testament to our belief in continuous innovation.

Leveraging our know how in material science, tool design and manufacturing and application, we endeavour to craft tooling solution for emerging needs of our customers across diverse industry segments.

Our ability to continuously innovate and offer end to end solution is the reason why we are supplier of choice among many of our customers.

Highlights

- Demo cum Development Centre for Next Generation tooling solutions.
- Try out and evaluation facility for solution viability analysis, product upgradation, and value enhancement projects.
- Competency showcase and experience centre for futuristic partners.

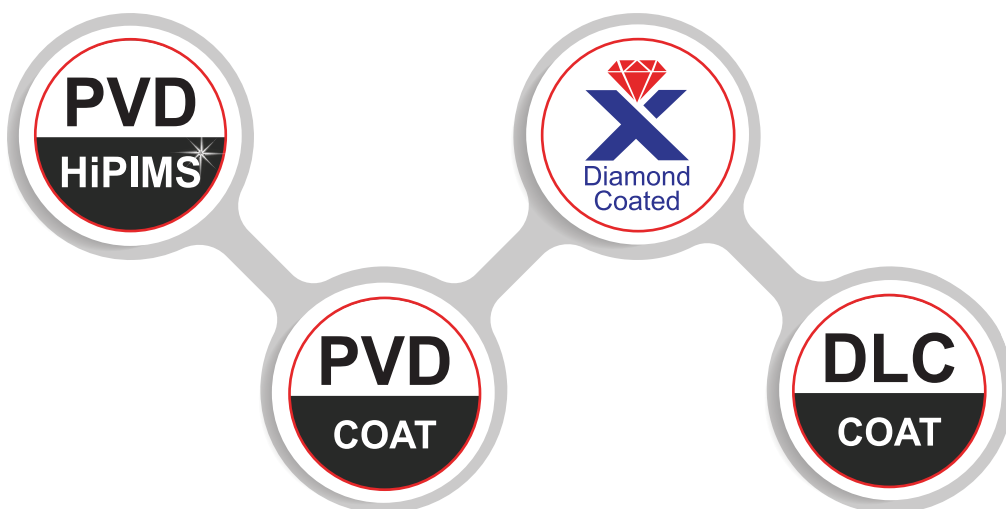




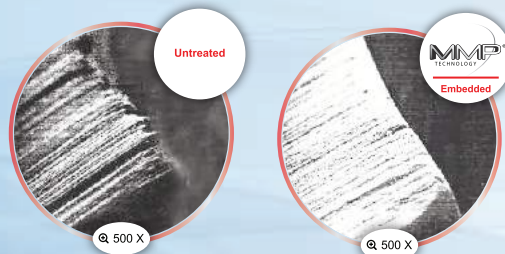
Adoption of Futuristic Technology

Continuously evolving markets, applications and materials place high demands on the precision tools for machining. Our In house CVD - Diamond and PVD Coating facility enables us to offer high performance tools for application ranging from fiber reinforced plastics, graphite, high tensile steels to heat resistant alloys.

Our in house preparation and post coating systems and technologies ensure that we engineer the best foundation and final surface on the tools. Super-finishing and Coating work in synergy delivering an outstanding value proposition.



Controlled and Repeatable
edge Preparations



Optimised surface finishes for
stronger Coating adhesion



Super finished surfaces
for quicker chip evacuation

Surface Engineering

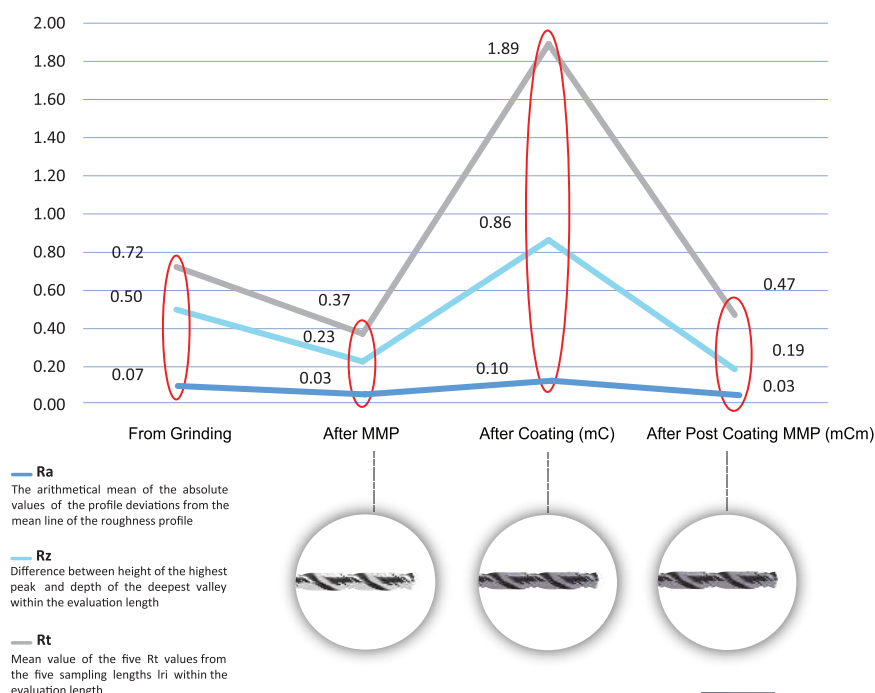
Super Precision Surface Finishing

Right cutting edge preparation and better surface quality will bring considerable value. Cutting edge preparation is integrated into our manufacturing processes for correction of surface defects and to increase the total performance and reliability of the cutting tool.

MMP maps and characterises surface roughness into different frequency ranges and filters them to deliver application specific surface objectives, with a degree of precision that is unique in the market.

AXIS Tools has in-house facility for super finishing with its JV with BINC Industries, Switzerland.

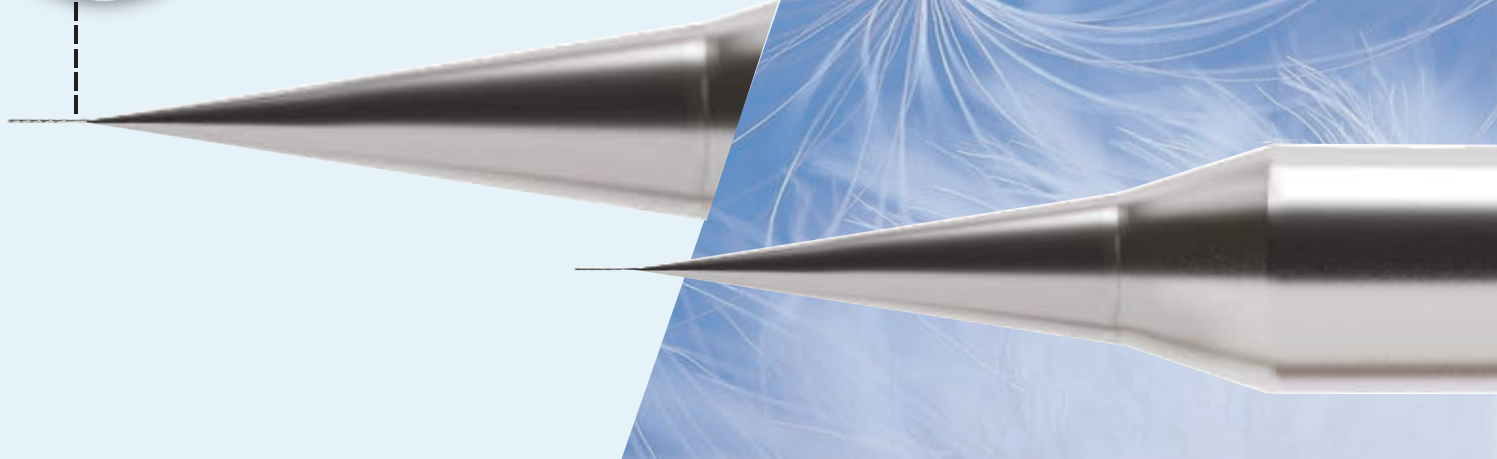
Surface finish improvements



Advantages

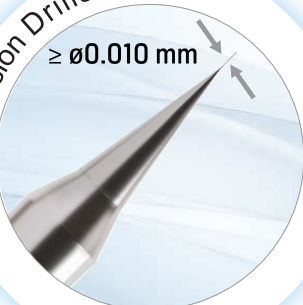
- Increased cutting edge strength and stability
- Improved chip evacuation facilitating higher feed rates and material removal rate
- Reduced cutting forces and chip induced stresses on the cutting edge
- Reduced coefficient of friction
- Reduced heat generation
- Reduced built up edge formation
- Better coating adhesion and productivity

Redefining PRECISION



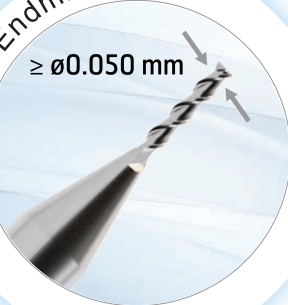
High Precision Drills

$\geq \varnothing 0.010 \text{ mm}$



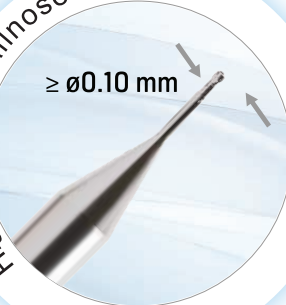
High Precision Endmills

$\geq \varnothing 0.050 \text{ mm}$



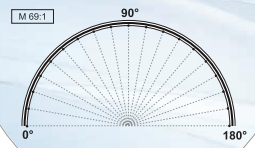
High Precision Ballnose Endmills

$\geq \varnothing 0.10 \text{ mm}$



Ball Line Form

Standard : ± 0.005
On Request : ± 0.0015



Ball Radius Tol.

Standard :
R 0.10 - R 1.50 : $\pm 0.002 \text{ mm}$
R 2.00 - 8.00 : $\pm 0.005 \text{ mm}$
On Request : $\pm 0.0015 \text{ mm}$



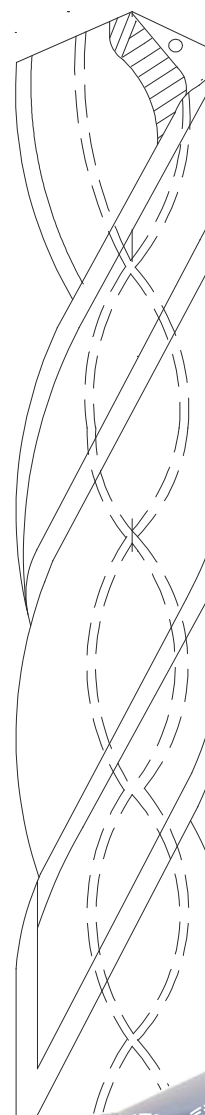
Corner Radius Tol.

Standard :
R 0.10 - R 1.00 : $\pm 0.010 \text{ mm}$
R > 1.00 : $\pm 0.020 \text{ mm}$
On Request : $\pm 0.003 \text{ mm}$



INDRILL Cool

High Precision Deep Hole Drills



Specially designed flute geometry

Efficient chip breaking

Super finished flutes

Efficient chip evacuation

Turbo Coolant channel

Continuous coolant flow at low pressure and smaller dias

Pre and post coatings surface treatments

Reduced Co-efficient of friction

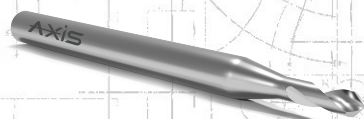
Stabalized cutting edges

Enhanced performance

I/d	5x	10x	15x	20x	25x	30x

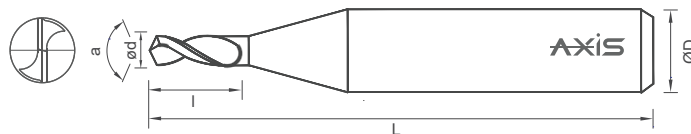
NC Pointing Drills

T580
T581



Dia Tolerance

ød 0.050 - 0.090mm - 0.005 / - 0.010
ød ≥ 0.10mm - 0.010 / - 0.015



Stub flute length and thinner web ensures better positional accuracy

Provides accurate guide for subsequent drilling

Helps in drilling on angular surfaces without drill walking

Made from ultra fine grade carbide with a balanced mix of high toughness and excellent hardness

Eine kurze Schneidlänge und ein verjüngter Kern für eine verbesserte Positioniergenauigkeit

Ergibt präzise Führung für anschließendes Bohren

Ermöglicht das Anbohren auf schrägen Flächen ohne Bohrerwandel

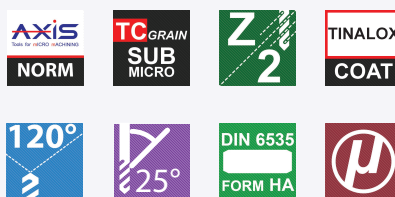
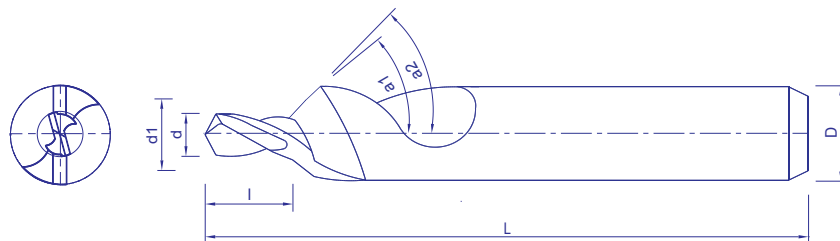
Hergestellt aus ultrafeinem Hartmetall mit einer ausgewogenen Kombination aus hoher Zähigkeit und sehr hoher Härte

ød	l	L	ØD h6	T580 a	T581 a
0.05	0.10	38.00	3.00	120°	90°
0.06					
0.07					
0.08					
0.09	0.20	38.00	3.00	120°	90°
0.10					
0.15					
0.20					
0.25	0.40	38.00	3.00	120°	90°
0.30					
0.35					
0.40					
0.45	0.60	38.00	3.00	120°	90°
0.50					
0.55					
0.60					
0.65	1.00	38.00	3.00	120°	90°
0.70					
0.75					
0.80					
0.85	1.20	38.00	3.00	120°	90°
0.90					
0.95					
1.00					
1.50	1.80	38.00	3.00	120°	90°
2.00					
2.50					
3.00					
4.00	2.50	38.00	3.00	120°	90°
5.00					
6.00					
7.00					
10.00	5.50	38.00	3.00	120°	90°
15.00					
20.00					
25.00					
40.00	10.00	45.00	4.00	120°	90°
50.00					
60.00					
70.00					

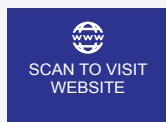
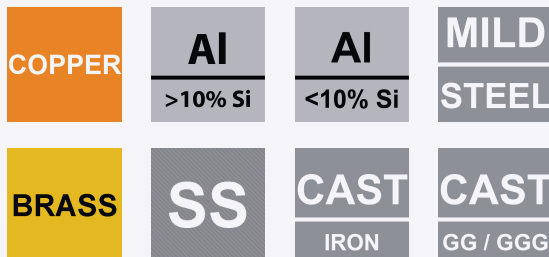
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AXIS T5861



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Dia	Step dia	Step Length	Total Length	Shank dia		
d	d1**	l	L	D h6	a1	a2**
0.70	----	1.3	30	2	30°	---
0.80	----	1.3	30	2	30°	---
0.80	2.12	1.3	30	4	30°	60°
0.90	---	1.3	30	2	30°	---
0.90	2.12	1.3	30	4	30°	60°
1.00	----	1.3	30	2	30°	---
1.00	2.12	1.3	30	4	30°	60°
1.10	----	1.3	30	2	30°	---
1.10	2.12	1.3	30	4	30°	60°
1.20	----	1.3	30	2	30°	---
1.20	2.65	1.6	30	5	30°	60°
1.50	----	1.3	30	2	30°	---
1.50	2.65	1.3	30	5	30°	60°
1.60	3.35	2.0	30	6	30°	60°
2.00	4.25	2.5	30	8	30°	60°

ON REQUEST :
Inch Sizes / Special sizes /
Left hand drills

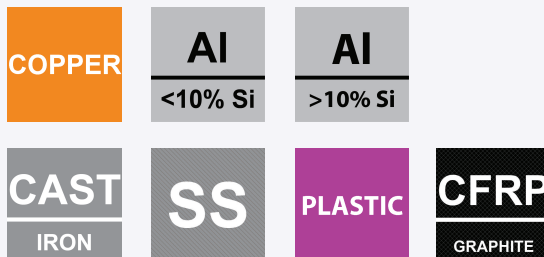
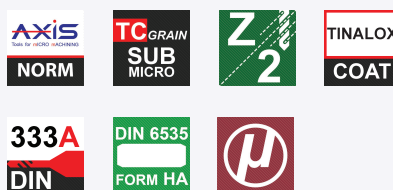
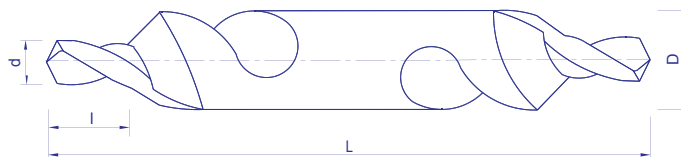
PACKING :
Single tool / pack

All Dimensions in mm otherwise
specified

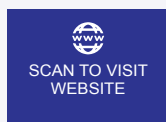


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Dia	Length	Total Length	Shank Dia
d	l	L	D
	min. - max.		
0.50	0.6 - 0.9	25	3.15
0.80	1.0 - 1.3	25	3.15
1.00	1.3 - 1.7	31	3.15
1.00	1.3 - 1.7	35	4.00
1.25	1.6 - 2.0	31	3.15
1.50	2.0 - 2.6	40	5.00
1.60	2.0 - 2.6	35	4.00
2.00	2.5 - 3.1	40	5.00
2.00	2.5 - 3.1	45	6.00
2.50	3.1 - 3.8	45	6.30
2.50	3.1 - 3.8	50	8.00
3.00	3.9 - 4.6	50	8.00
3.00	3.9 - 4.6	55	10.00
3.15	3.9 - 4.6	50	8.00
4.00	5.0 - 5.9	55	10.00
5.00	6.3 - 7.2	63	12.00
5.00	6.3 - 7.2	63	12.50
6.30	8.0 - 8.9	71	16.00

ON REQUEST :
Inch Sizes / Special sizes /
Left hand drills

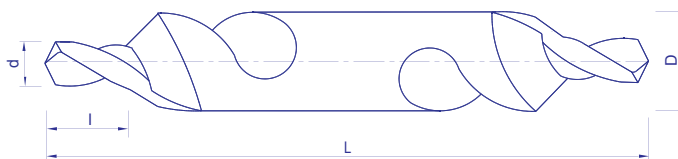
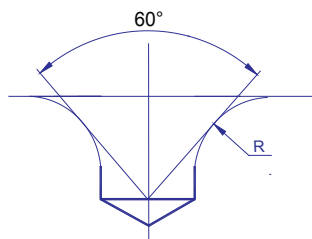
PACKING :
Single tool / pack

All Dimensions in mm otherwise
specified

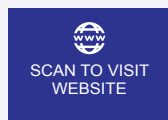
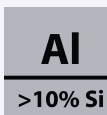
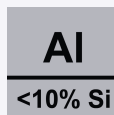


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[illegible]

ON REQUEST :

* Marked / Inch Sizes / Special sizes /
Left hand Drills

PACKING :

PACKING :
Up to Dia 3.00mm : 10 tools / pack,
Dia 3.00 - 8.00mm : 5 tools / pack,
Dia > 8.00mm : Single tool / pack

All Dimensions in mm otherwise specified



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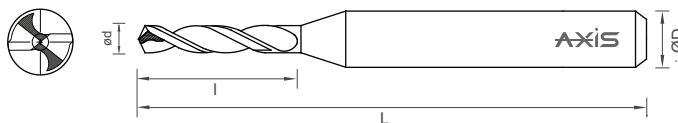
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Short Flute Length Series

Dia Range : $\varnothing 0.30-3.00\text{mm}$
Flute Length : $\sim 3-5d$



A versatile drill crafted with good centering and keen cutting abilities for use across different materials and applications

Special point geometry for increased penetration centering with keen cutting abilities

Differentiated web taper for faster chip evacuation

Web thinned geometry for better centering and chip formation and evacuation

Made from ultra fine grade carbide with a balanced mix of high toughness and excellent hardness

Finely honed cutting edge and highly polished flutes by *MMP Superfinishing* process for superior edge strength, chip evacuation, better coating adhesion and longer tool life

Ein vielseitig einsetzbarer Bohrer mit guter Zentrierung und hervorragenden Schneideigenschaften für den Einsatz bei verschiedenen Materialien und Anwendungen

Spezielle Spitzengeometrie für eine erhöhte Eindringtiefe beim Zentrumschnitt

Differenzierte Kernverjüngung für sicherere Spanabfuhr

Geometrie mit verjüngtem Kern für eine verbesserte Zentrierung und Spanbildung / -abfuhr

Hergestellt aus ultrafeinem Hartmetall mit einer ausgewogenen Kombination aus hoher Zähigkeit und sehr hoher Härte

Hochpräzise Schneidkantenverrundung und im MMP-Superfinishing-Verfahren hochglanzpolierte Schneiden für eine überlegene Kantenstärke, Spanabfuhr, verbesserte Beschichtungshaftung und längere Werkzeugstandzeiten

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ød h6	l	L	ØD h6
0.30	1.50	38.00	3.00
0.31			
0.32			
0.33			
0.34			
0.35			
0.36			
0.37			
0.38			
0.39			
0.40			
0.41	2.00	38.00	3.00
0.42			
0.43			
0.44			
0.45			
0.46			
0.47			
0.48			
0.49			
0.50			
0.51	2.50	38.00	3.00
0.52			
0.53			
0.54			
0.55			
0.56			
0.57			
0.58			
0.59			
0.60			
0.61	3.00	38.00	3.00
0.62			
0.63			
0.64			
0.65			
0.66			
0.67			
0.68			
0.69			
0.70			
0.71	4.00	38.00	3.00
0.72			
0.73			
0.74			
0.75			
0.76			
0.77			
0.78			
0.79			
0.80			
0.81			

T311

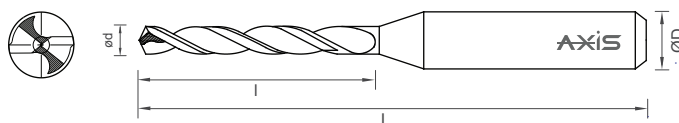
ød h6	I	L	ØD h6
0.82	4.00	38.00	3.00
0.83			
0.84			
0.85			
0.86			
0.87			
0.88			
0.89			
0.90	5.00	38.00	3.00
0.91			
0.92			
0.93			
0.94			
0.95			
0.96			
0.97			
0.98			
0.99			
1.00			
1.01			
1.02			
1.03			
1.04			
1.05			
1.06			
1.07			
1.08			
1.09			
1.10	6.00	38.00	3.00
1.11			
1.12			
1.13			
1.14			
1.15			
1.16			
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1.41			
1.42			
1.43			
1.44			
1.45			
1.46			
1.47			
1.48			
1.49			
1.50	8.00	38.00	3.00

ød h6	I	L	ØD h6
1.51	8.00	38.00	3.00
1.52			
1.53			
1.54			
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2.01	12.00	38.00	3.00
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T311

ød h6	I	L	ØD h6
2.20	12.00	38.00	3.00
2.21			
2.22			
2.23			
2.24			
2.25			
2.26			
2.27			
2.28			
2.29			
2.30			
2.31			
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2.54			
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2.56			
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2.58			
2.59			
2.60			

ød h6	I	L	ØD h6
2.61	12.00	38.00	3.00
2.62			
2.63			
2.64			
2.65			
2.66			
2.67			
2.68			
2.69			
2.70			
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2.97			
2.98			
2.99			
3.00			



A versatile drill crafted with good centering and keen cutting abilities for use across different materials and applications

Special point geometry for increased penetration centering with keen cutting abilities

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Ein vielseitig einsetzbarer Bohrer mit guter Zentrierung und hervorragenden Schneideigenschaften für den Einsatz bei verschiedenen Materialien und Anwendungen

Spezielle Spitzengeometrie für eine erhöhte Eindringtiefe beim Zentrumschnitt

Differenzierte Kernverjüngung für sicherere Spanabfuhr

Geometrie mit verjüngtem Kern für eine verbesserte Zentrierung und Spanbildung / -abfuhr

Hergestellt aus ultrafeinem Hartmetall mit einer ausgewogenen Kombination aus hoher Zähigkeit und sehr hoher Härte

Hochpräzise Schneidkantenverrundung und im MMP-Superfinishing-Verfahren hochglanzpolierte Schneiden für eine überlegene Kantenstärke, Spanabfuhr, verbesserte Beschichtungshaftung und längere Werkzeugstandzeiten

World of mICRO Tools



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ød h6	l	L	ØD h6
0.30	3.00	38.00	3.00
0.31			
0.32			
0.33			
0.34			
0.35			
0.36			
0.37			
0.38			
0.39			
0.40	4.00	38.00	3.00
0.41			
0.42			
0.43			
0.44			
0.45			
0.46			
0.47			
0.48			
0.49			
0.50	5.00	38.00	3.00
0.51			
0.52			
0.53			
0.54			
0.55			
0.56			
0.57			
0.58			
0.59			
0.60	6.00	38.00	3.00
0.61			
0.62			
0.63			
0.64			
0.65			
0.66			
0.67			
0.68			
0.69			
0.70			
0.71			
0.72			
0.73			
0.74			
0.75			
0.76			
0.77			
0.78			
0.79			
0.80			
0.81			

T312

ød h6	I	L	ØD h6
0.82	6.00	38.00	3.00
0.83			
0.84			
0.85			
0.86			
0.87			
0.88			
0.89			
0.90			
0.91	8.00	38.00	3.00
0.92			
0.93			
0.94			
0.95			
0.96			
0.97			
0.98			
0.99			
1.00			
1.01			
1.02			
1.03			
1.04			
1.05			
1.06			
1.07			
1.08			
1.09			
1.10	10.00	38.00	3.00
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1.35			
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1.37			
1.38			
1.39			
1.40			
1.41			
1.42			
1.43			
1.44			
1.45			
1.46			
1.47			
1.48			
1.49			
1.50	12.00	38.00	3.00

ød h6	I	L	ØD h6
1.51	12.00	38.00	3.00
1.52			
1.53			
1.54			
1.55			
1.56			
1.57			
1.58			
1.59			
1.60			
1.61			
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1.65			
1.66			
1.67			
1.68			
1.69			
1.70			
1.71			
1.72			
1.73			
1.74			
1.75			
1.76			
1.77			
1.78			
1.79			
1.80			
1.81			
1.82			
1.83			
1.84			
1.85			
1.86			
1.87			
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1.89			
1.90			
1.91			
1.92			
1.93			
1.94			
1.95			
1.96			
1.97			
1.98			
1.99			
2.00			
2.01	14.00	45.00	3.00
2.02			
2.03			
2.04			
2.05			
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2.18			
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T312

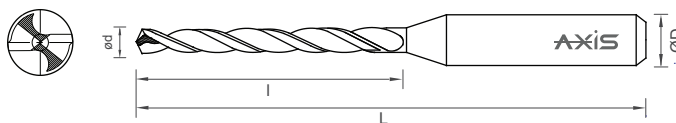
ød h6	I	L	ØD h6
2.20	14.00	45.00	3.00
2.21			
2.22			
2.23			
2.24			
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2.26			
2.27			
2.28			
2.29			
2.30			
2.31			
2.32			
2.33			
2.34			
2.35			
2.36			
2.37			
2.38			
2.39			
2.40			
2.41	16.00	45.00	3.00
2.42			
2.43			
2.44			
2.45			
2.46			
2.47			
2.48			
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2.52			
2.53			
2.54			
2.55			
2.56			
2.57			
2.58			
2.59			
2.60			

ød h6	I	L	ØD h6
2.61	16.00	45.00	3.00
2.62			
2.63			
2.64			
2.65			
2.66			
2.67			
2.68			
2.69			
2.70			
2.71	18.00	45.00	3.00
2.72			
2.73			
2.74			
2.75			
2.76			
2.77			
2.78			
2.79			
2.80			
2.81			
2.82			
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2.93			
2.94			
2.95			
2.96			
2.97			
2.98			
2.99			
3.00			



Longer Flute Length Series

Dia Range : $\varnothing 0.30-3.00\text{mm}$
Flute Length : $\sim 8-12d$



A versatile drill crafted with good centering and keen cutting abilities for use across different materials and applications

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$\varnothing d$ h6	l	L	$\varnothing D$ h6
0.30	5.50	38.00	3.00
0.31			
0.32			
0.33			
0.34			
0.35			
0.36			
0.37			
0.38			
0.39			
0.40	6.00	38.00	3.00
0.41			
0.42			
0.43			
0.44			
0.45			
0.46			
0.47			
0.48			
0.49			
0.50	8.00	38.00	3.00
0.51			
0.52			
0.53			
0.54			
0.55			
0.56			
0.57			
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0.59			
0.60			
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0.65			
0.66			
0.67			
0.68			
0.69			
0.70			
0.71			
0.72			
0.73			
0.74			
0.75			
0.76			
0.77			
0.78			
0.79			
0.80			
0.81			

T313

ød h6	I	L	ØD h6
0.82	8.00	38.00	3.00
0.83			
0.84			
0.85			
0.86			
0.87			
0.88			
0.89			
0.90			
0.91	10.00	38.00	3.00
0.92			
0.93			
0.94			
0.95			
0.96			
0.97			
0.98			
0.99			
1.00			
1.01			
1.02			
1.03			
1.04			
1.05			
1.06	12.00	38.00	3.00
1.07			
1.08			
1.09			
1.10			
1.11			
1.12			
1.13			
1.14			
1.15			
1.16			
1.17			
1.18			
1.19			
1.20	14.00	45.00	3.00
1.21			
1.22			
1.23			
1.24			
1.25			
1.26			
1.27			
1.28			
1.29			
1.30			
1.31			
1.32			
1.33			
1.34			
1.35	16.00	45.00	3.00
1.36			
1.37			
1.38			
1.39			
1.40			
1.41			
1.42			
1.43			
1.44			
1.45			
1.46			
1.47			
1.48			
1.49			
1.50			

ød h6	I	L	ØD h6
1.51	16.00	45.00	3.00
1.52			
1.53			
1.54			
1.55			
1.56			
1.57			
1.58			
1.59			
1.60			
1.61			
1.62			
1.63			
1.64			
1.65	18.00	45.00	3.00
1.66			
1.67			
1.68			
1.69			
1.70			
1.71			
1.72			
1.73			
1.74			
1.75			
1.76			
1.77			
1.78			
1.79	20.00	50.00	3.00
1.80			
1.81			
1.82			
1.83			
1.84			
1.85			
1.86			
1.87			
1.88			
1.89			
1.90			
1.91			
1.92			
1.93			
1.94			
1.95			
1.96			
1.97			
1.98			
1.99			
2.00	20.00	50.00	3.00
2.01			
2.02			
2.03			
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2.19			

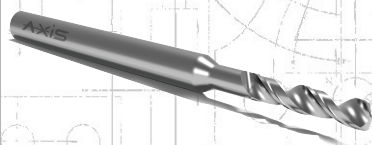
T313

ød h6	I	L	ØD h6
2.20	20.00	50.00	3.00
2.21			
2.22			
2.23			
2.24			
2.25			
2.26	22.00	50.00	3.00
2.27			
2.28			
2.29			
2.30			
2.31			
2.32			
2.33			
2.34			
2.35			
2.36			
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2.39			
2.40			
2.41			
2.42			
2.43			
2.44			
2.45			
2.46			
2.47			
2.48			
2.49			
2.50	24.00	50.00	3.00
2.51			
2.52			
2.53			
2.54			
2.55			
2.56			
2.57			
2.58			
2.59			
2.60			

ød h6	I	L	ØD h6
2.61	24.00	50.00	3.00
2.62			
2.63			
2.64			
2.65			
2.66			
2.67			
2.68			
2.69			
2.70			
2.71	26.00	50.00	3.00
2.72			
2.73			
2.74			
2.75			
2.76			
2.77			
2.78			
2.79			
2.80			
2.81			
2.82			
2.83			
2.84			
2.85			
2.86			
2.87			
2.88			
2.89			
2.90			
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2.95			
2.96			
2.97			
2.98			
2.99			
3.00			

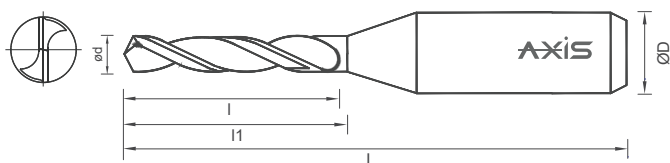
Reinforced Shank mICRO Drills

T698



Dia Tolerance

Uncoated : h6
Coated : ± 0.003



ød < 0.40mm ød ≥ 0.40mm

A universal drill rendered with self centering & keen cutting abilities for use across different materials and applications

Made from ultra fine grade carbide with a balanced mix of high toughness and excellent hardness

MMP Superfinishing process to ensure better coating adhesion, better chip evacuation and reduced friction of the chips

Dimensions as per DIN 1899-A

Ein universeller Bohrer mit Selbstzentrierung und hervorragenden Schneideigenschaften für den Einsatz bei verschiedenen Materialien und Anwendungen

Hergestellt aus ultrafeinem Hartmetall mit einer ausgewogenen Kombination aus hoher Zähigkeit und sehr hoher Härte

MMP-Superfinishing-Verfahren zur Gewährleistung einer verbesserten Schichthaftung und optimaler Spanabfuhr dank geringerer Reibung der polierten Flächen.

Abmessungen gemäß DIN 1899-A

World of mICRO Tools



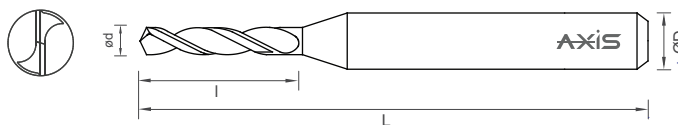
www.axis-microtools.com

ød	l	l1	L	ØD h6
0.05	0.50	0.70	25.00	1.00
0.08				
0.09				
0.10				
0.11				
0.12	0.80	1.00	25.00	1.00
0.13				
0.14				
0.15				
0.16	1.10	1.40	25.00	1.00
0.17				
0.18				
0.19				
0.20	1.50	1.80	25.00	1.00
0.21				
0.22				
0.23				
0.24	1.90	2.20	25.00	1.00
0.25				
0.26				
0.27				
0.28	2.40	2.80	25.00	1.00
0.29				
0.30				
0.31				
0.32				
0.33				
0.34				
0.35				
0.36				
0.37				
0.38				

T698

ød	l	l1	L	ØD h6
0.39	2.70	3.60	25.00	1.00
0.40				
0.41				
0.42				
0.43				
0.44				
0.45				
0.46				
0.47				
0.48				
0.49	3.20	4.00	25.00	1.00
0.50				
0.51				
0.52				
0.53				
0.54	3.60	4.50	25.00	1.00
0.55				
0.56				
0.57				
0.58				
0.59				
0.60				
0.61	3.90	4.50	25.00	1.00
0.62	3.90	5.00	25.00	1.00
0.63				
0.64				
0.65				
0.66				
0.67				
0.68				
0.69	4.50	5.60	25.00	1.00
0.70				
0.71				
0.72				
0.73				
0.74				

ød	l	l1	L	ØD h6
0.75	4.50	5.60	25.00	1.00
0.76	5.00	6.30	25.00	1.00
0.77				
0.78				
0.79				
0.80	5.00	6.30	25.00	1.50
0.81				
0.82				
0.83				
0.84				
0.85				
0.86	5.70	7.10	25.00	1.50
0.87				
0.88				
0.89				
0.90				
0.91				
0.92				
0.93				
0.94				
0.95				
0.96	6.50	8.00	25.00	1.50
0.97				
0.98				
0.99				
1.00				
1.05				
1.10	7.30	9.00	25.00	1.50
1.15				
1.20	8.20	10.00	25.00	1.50
1.25				
1.30				
1.35	9.20	11.20	25.00	1.50
1.40				
1.45				
1.50				



$\varnothing d < 0.40\text{mm}$ $\varnothing d \geq 0.40\text{mm}$

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Differentiated web taper for faster chip evacuation

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NexGen geometry for better positional accuracy for hole quality

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$\varnothing d$	l	L	$\varnothing D$ h6
0.30	1.50	38.00	3.00
0.31			
0.32			
0.33			
0.34			
0.35			
0.36			
0.37			
0.38			
0.39			
0.40			
0.41	2.00	38.00	3.00
0.42			
0.43			
0.44			
0.45			
0.46			
0.47			
0.48			
0.49			
0.50			
0.51	2.50	38.00	3.00
0.52			
0.53			
0.54			
0.55			
0.56			
0.57			
0.58			
0.59			
0.60			
0.61	3.00	38.00	3.00
0.62			
0.63			
0.64			
0.65			
0.66			
0.67			
0.68			
0.69			
0.70			
0.71	4.00	38.00	3.00
0.72			
0.73			
0.74			
0.75			
0.76			
0.77			
0.78			
0.79			
0.80			
0.81			

T301

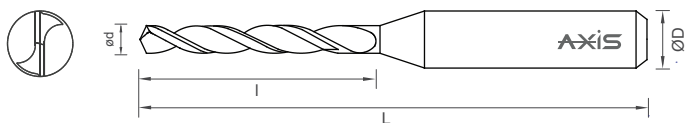
ød	I	L	ØD h6
0.82	4.00	38.00	3.00
0.83			
0.84			
0.85			
0.86			
0.87			
0.88			
0.89			
0.90	5.00	38.00	3.00
0.91			
0.92			
0.93			
0.94			
0.95			
0.96			
0.97			
0.98			
0.99			
1.00			
1.01			
1.02			
1.03			
1.04			
1.05			
1.06			
1.07			
1.08			
1.09			
1.10	6.00	38.00	3.00
1.11			
1.12			
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1.22			
1.23			
1.24			
1.25			
1.26			
1.27			
1.28			
1.29			
1.30			
1.31	8.00	38.00	3.00
1.32			
1.33			
1.34			
1.35			
1.36			
1.37			
1.38			
1.39			
1.40			
1.41	12.00	38.00	3.00
1.42			
1.43			
1.44			
1.45			
1.46			
1.47			
1.48			
1.49			
1.50			

ød	I	L	ØD h6
1.51	8.00	38.00	3.00
1.52			
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1.63			
1.64			
1.65			
1.66			
1.67			
1.68			
1.69			
1.70			
1.71			
1.72	12.00	38.00	3.00
1.73			
1.74			
1.75			
1.76			
1.77			
1.78			
1.79			
1.80			
1.81			
1.82	16.00	38.00	3.00
1.83			
1.84			
1.85			
1.86			
1.87			
1.88			
1.89			
1.90			
1.91			
1.92	20.00	38.00	3.00
1.93			
1.94			
1.95			
1.96			
1.97			
1.98			
1.99			
2.00			
2.01	25.00	38.00	3.00
2.02			
2.03			
2.04			
2.05			
2.06			
2.07			
2.08			
2.09			
2.10			
2.11	30.00	38.00	3.00
2.12			
2.13			
2.14			
2.15			
2.16			
2.17			
2.18			
2.19			

T301

ød	I	L	ØD h6
2.20	12.00	38.00	3.00
2.21			
2.22			
2.23			
2.24			
2.25			
2.26			
2.27			
2.28			
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2.54			
2.55			
2.56			
2.57			
2.58			
2.59			
2.60			

ød	I	L	ØD h6
2.61	12.00	38.00	3.00
2.62			
2.63			
2.64			
2.65			
2.66			
2.67			
2.68			
2.69			
2.70			
2.71			
2.72			
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2.75			
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2.96			
2.97			
2.98			
2.99			
3.00			



$\varnothing d < 0.40\text{mm}$ $\varnothing d \geq 0.40\text{mm}$

A versatile drill crafted with good centering and keen cutting abilities for use across different materials and applications

Differentiated web taper for faster chip evacuation

Made from ultra fine grade carbide with a balanced mix of high toughness and excellent hardness

Finely honed cutting edge and highly polished flutes by MMP Superfinishing process for superior edge strength, chip evacuation, better coating adhesion and longer tool life

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$\varnothing d$	l	L	$\varnothing D$ h6
0.10	0.80	38.00	3.00
0.11			
0.12			
0.13			
0.14			
0.15	1.00	38.00	3.00
0.16			
0.17			
0.18			
0.19			
0.20	1.50	38.00	3.00
0.21			
0.22			
0.23			
0.24			
0.25	2.00	38.00	3.00
0.26			
0.27			
0.28			
0.29			
0.30	3.00	38.00	3.00
0.31			
0.32			
0.33			
0.34			
0.35	4.00	38.00	3.00
0.36			
0.37			
0.38			
0.39			
0.40	5.00	38.00	3.00
0.41			
0.42			
0.43			
0.44			
0.45			
0.46			
0.47			
0.48			
0.49			
0.50			
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0.60			
0.61			

T302

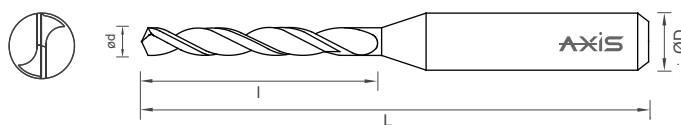
ød	I	L	ØD h6
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0.68			
0.69			
0.70			
0.71			
0.72			
0.73			
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0.75			
0.76			
0.77			
0.78			
0.79			
0.80	6.00	38.00	3.00
0.81			
0.82			
0.83			
0.84			
0.85			
0.86			
0.87			
0.88			
0.89			
0.90	8.00	38.00	3.00
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1.04			
1.05			
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1.07			
1.08			
1.09			
1.10	10.00	38.00	3.00
1.11			
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1.28			
1.29			
1.30			

ød	I	L	ØD h6
1.31	10.00	38.00	3.00
1.32			
1.33			
1.34			
1.35			
1.36			
1.37			
1.38			
1.39			
1.40			
1.41			
1.42			
1.43			
1.44			
1.45			
1.46			
1.47			
1.48			
1.49	12.00	38.00	3.00
1.50			
1.51			
1.52			
1.53			
1.54			
1.55			
1.56			
1.57			
1.58			
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1.98			
1.99			

T302

ød	I	L	ØD h6
2.00	12.00	38.00	3.00
2.01	14.00	45.00	3.00
2.02			
2.03			
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2.05			
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2.17			
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2.19			
2.20	14.00	45.00	3.00
2.21			
2.22			
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2.32			
2.33			
2.34			
2.35			
2.36			
2.37			
2.38			
2.39			
2.40			
2.41	16.00	45.00	3.00
2.42			
2.43			
2.44			
2.45			
2.46			
2.47			
2.48			
2.49			
2.50			

ød	I	L	ØD h6
2.51	16.00	45.00	3.00
2.52			
2.53			
2.54			
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2.56			
2.57			
2.58			
2.59			
2.60			
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2.67			
2.68			
2.69			
2.70			
2.71	18.00	45.00	3.00
2.72			
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2.94			
2.95			
2.96			
2.97			
2.98			
2.99			
3.00			



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ød	l	L	ØD h6
0.015	0.15	38.00	3.00
0.020	0.20		
0.030	0.30		
0.040	0.40		
0.050	0.50		
0.060	0.60		
0.070	0.70		
0.080	0.80		
0.090	0.90	38.00	3.00
0.10	1.00		
0.11	1.00		
0.12	1.50	38.00	3.00
0.13			
0.14			
0.15	2.00	38.00	3.00
0.16			
0.17			
0.18	2.50	38.00	3.00
0.19			
0.20			
0.21			
0.22			
0.23	4.00	38.00	3.00
0.24			
0.25			
0.26			
0.27			
0.28			
0.29			
0.30	5.50	38.00	3.00
0.31			
0.32			
0.33			
0.34			
0.35			
0.36			
0.37			
0.38			
0.39			
0.40	6.00	38.00	3.00
0.41			
0.42			
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0.50			
0.51			
0.52			

T303

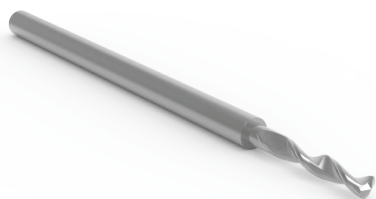
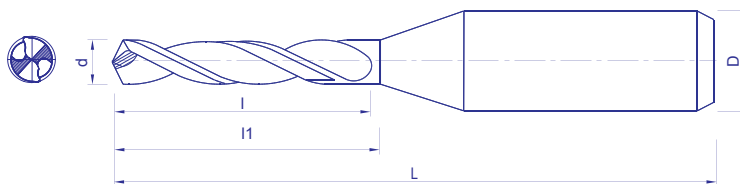
ød	I	L	ØD h6
0.53	6.00	38.00	3.00
0.54			
0.55			
0.56			
0.57			
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0.59			
0.60			
0.61			
0.62			
0.63	8.00	38.00	3.00
0.64			
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0.77			
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0.79			
0.80			
0.81			
0.82			
0.83	10.00	38.00	3.00
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0.94			
0.95			
0.96			
0.97			
0.98			
0.99			
1.00			
1.01			
1.02	12.00	38.00	3.00
1.03			
1.04			
1.05			
1.06			
1.07			
1.08			
1.09			
1.10			
1.11			
1.12	12.00	38.00	3.00
1.13			
1.14			
1.15			
1.16			
1.17			
1.18			
1.19			
1.20			
1.21			

ød	I	L	ØD h6
1.22	12.00	38.00	3.00
1.23			
1.24			
1.25			
1.26			
1.27			
1.28			
1.29			
1.30	14.00	45.00	3.00
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1.44			
1.45			
1.46			
1.47			
1.48			
1.49			
1.50	16.00	45.00	3.00
1.51			
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1.68			
1.69			
1.70	18.00	45.00	3.00
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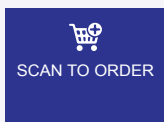
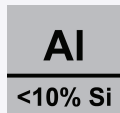
T303

ød	I	L	ØD h6
1.91	18.00	45.00	3.00
1.92			
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1.96			
1.97			
1.98			
1.99			
2.00			
2.01	20.00	50.00	3.00
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2.26	22.00	50.00	3.00
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2.30			
2.31			
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2.45			

ød	I	L	ØD h6
2.46	22.00	50.00	3.00
2.47			
2.48			
2.49			
2.50			
2.51	24.00	50.00	3.00
2.52			
2.53			
2.54			
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2.99			
3.00			



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ADVANTAGES

Better Finish
Ultra High Speeds
High Accuracy Better Life
Self Centering and High Accuracy

CAUTIONS

For drill depth upto 7xd we recommend to use centering drill
For drill depth more than 4xd use Pecking cycle

ON REQUEST :

Inch Sizes / Special sizes /
Left hand drills

PACKING :

Single tool / pack

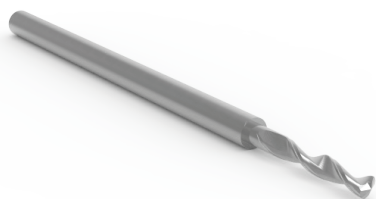
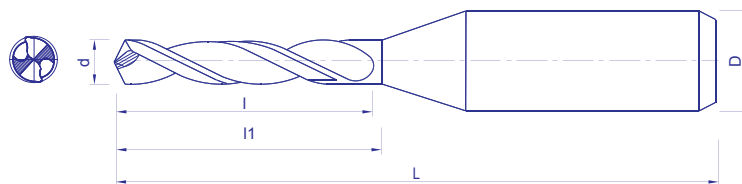
All Dimensions in mm otherwise specified

Dia	Flute Length	Plunge Length	Total Length	Shank Dia		Dia	Flute Length	Plunge Length	Total Length	Shank Dia
d	l	l1	L	D h5		d	l	l1	L	D h5
Short Lengths (~ 4Xd1)						Long Lengths (~ 7Xd1)				
0.80/0.85	5.0	5.2	44	3.0		0.80/0.85	6.6	6.8	45	3.0
0.90/0.95	5.6	5.8	44	3.0		0.90/0.95	7.4	7.6	45	3.0
1.00/1.05	6.2	6.4	44	3.0		1.00/1.05	8.2	8.4	46	3.0
1.10/1.15	6.8	7.0	44	3.0		1.10/1.15	9.0	9.2	46	3.0
1.20/1.25	7.4	7.6	45	3.0		1.20/1.25	11.1	11.3	49	3.0
1.30/1.35	8.0	8.2	45	3.0		1.30/1.35	12.0	12.2	49	3.0
1.40/1.45	8.6	8.8	46	3.0		1.40/1.45	12.9	13.1	50	3.0
1.50/1.55	9.2	9.4	46	3.0		1.50/1.55	13.3	13.5	50	3.0
1.60/1.65	9.8	10.0	47	3.0		1.60/1.65	14.7	14.9	52	3.0
1.70/1.75	10.4	10.6	47	3.0		1.70/1.75	15.6	15.8	52	3.0
1.80/1.85	11.0	11.2	48	3.0		1.80/1.85	16.5	16.7	53	3.0
1.90/1.95	11.6	11.8	48	3.0		1.90/1.95	17.4	17.6	53	3.0
2.00/2.05	12.2	12.4	55	3.0		2.00/2.05	18.3	18.5	61	3.0
2.10/2.15	12.8	13.0	55	3.0		2.10/2.15	19.2	19.4	61	3.0
2.20/2.25	13.4	13.6	56	3.0		2.20/2.25	20.1	20.3	63	3.0
2.30/2.35	14.0	14.2	56	3.0		2.30/2.35	21.0	21.2	63	3.0
2.40/2.45	14.6	14.8	57	3.0		2.40/2.45	21.9	22.1	64	3.0
2.50/2.55	15.2	15.4	57	3.0		2.50/2.55	22.8	23.0	64	3.0
2.60/2.65	15.8	16.0	58	3.0		2.60/2.65	23.7	23.9	66	3.0
2.70/2.75	16.4	16.6	58	3.0		2.70/2.75	24.6	24.8	66	3.0
2.80/2.85	17.0	17.2	60	3.0		2.80/2.85	25.5	25.7	67	3.0
2.90/2.95	17.6	17.8	60	3.0		2.90/2.95	26.4	26.6	67	3.0
3.00	18.0	18.2	60	3.0		3.00	27.0	27.2	67	3.0

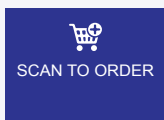
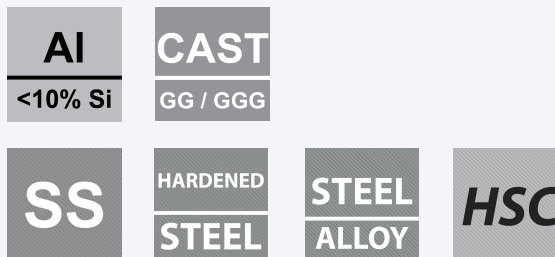
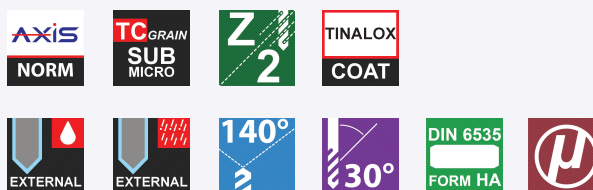


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info@axis-microtools.com



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Dia	Flute Length	Total Length	Shank Dia		Dia	Flute Length	Total Length	Shank Dia
d	l	L	D h5		d	l	L	D h5
3d/5d/8d/12d					3d/5d/8d/12d			
3.00-3.30	20.0	62	6.0		5.60-6.00	57.0	95	6.0
	28.0	66	6.0			78.0	116	6.0
	34.0	72	6.0			34.0	79	8.0
	54.0	92	6.0			53.0	91	8.0
3.40-3.70	20.0	62	6.0		7.10-8.00	76.0	114	8.0
	28.0	66	6.0			108.0	146	8.0
	34.0	72	6.0			41.0	79	8.0
	54.0	92	6.0			53.0	91	8.0
3.80-4.30	24.0	66	6.0		8.10-9.00	76.0	114	8.0
	36.0	74	6.0			108.0	146	8.0
	43.0	81	6.0			47.0	89	10.0
	64.0	102	6.0			61.0	103	10.0
4.40-4.70	24.0	66	6.0		9.10-10.00	95.0	142	10.0
	36.0	74	6.0			120.0	162	10.0
	43.0	81	6.0			47.0	89	10.0
	64.0	102	6.0			61.0	103	10.0
4.80-5.50	28.0	66	6.0		10.10-12.00	95.0	142	10.0
	44.0	82	6.0			120.0	162	10.0
	57.0	95	6.0			55.0	102	12.0
	78.0	116	6.0			71.0	118	12.0
5.60-6.00	28.0	66	6.0			114.0	162	12.0
	44.0	82	6.0			156.0	204	12.0

ON REQUEST :
Inch Sizes / Special sizes

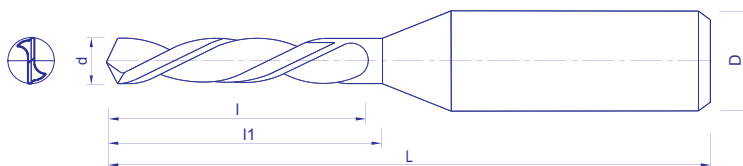
PACKING :
Up to Dia 3.00mm : 10 tools / pack,
Dia 3.00 - 8.00mm : 5 tools / pack,
Dia > 8.00mm : Single toll / pack

All Dimensions in mm otherwise specified

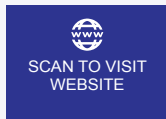
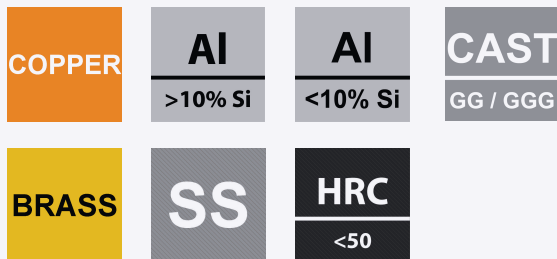
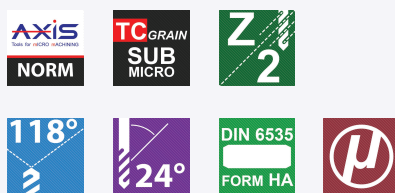


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AXIS T4001 Left Helix



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Dia	Flute Length	Plunge Length	OAL	Shank Dia		Dia	Flute Length	Plunge Length	OAL	Shank Dia
d -0.004	l	l1	L	D h6		d -0.004	l	l1	L	D h6
0.05		0.7	30	1.0		0.17		1.4	30	1.0
0.05	0.5	0.7	30	1.0		0.17	1.1	1.4	30	1.0
0.08		0.7	30	1.0		0.18		1.4	30	1.0
0.08	0.5	0.7	30	1.0		0.18	1.1	1.4	30	1.0
0.09		0.7	30	1.0		0.19		1.4	30	1.0
0.09	0.5	0.7	30	1.0		0.19	1.1	1.4	30	1.0
0.10		0.7	30	1.0		0.20		1.8	30	1.0
0.10	0.5	0.7	30	1.0		0.20	1.5	1.8	30	1.0
0.11		0.7	30	1.0		0.21		1.8	30	1.0
0.11	0.5	0.7	30	1.0		0.21	1.5	1.8	30	1.0
0.12		0.7	30	1.0		0.22		1.8	30	1.0
0.12	0.5	0.7	30	1.0		0.22	1.5	1.8	30	1.0
0.13		1.0	30	1.0		0.23		1.8	30	1.0
0.13	0.8	1.0	30	1.0		0.23	1.5	1.8	30	1.0
0.14		1.0	30	1.0		0.24		1.8	30	1.0
0.14	0.8	1.0	30	1.0		0.24	1.5	1.8	30	1.0
0.15		1.0	30	1.0		0.25		2.2	30	1.0
0.15	0.8	1.0	30	1.0		0.25	1.9	2.2	30	1.0
0.16		1.4	30	1.0		0.26		2.2	30	1.0
0.16	1.1	1.4	30	1.0		0.26	1.9	2.2	30	1.0

ON REQUEST :
Inch Sizes / Special sizes

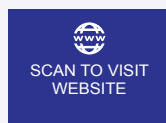
PACKING :
10 tools / pack

All Dimensions in mm otherwise specified



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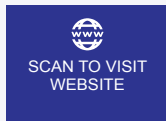
or visit : www.axis-microtools.com

Dia	Flute Length	Plunge Length	OAL	Shank Dia		Dia	Flute Length	Plunge Length	OAL	Shank Dia
d -0.004	I	I1	L	D h6		d -0.004	I	I1	L	D h6
0.27		2.2	30	1.0		0.49	3.2	4.0	30	1.0
0.27	1.9	2.2	30	1.0		0.50		4.0	30	1.0
0.28		2.2	30	1.0		0.50	3.2	4.0	30	1.0
0.28	1.9	2.2	30	1.0		0.51		4.0	30	1.0
0.29		2.2	30	1.0		0.51	3.2	4.0	30	1.0
0.29	1.9	2.2	30	1.0		0.52		4.0	30	1.0
0.30		2.2	30	1.0		0.52	3.2	4.0	30	1.0
0.30	1.9	2.2	30	1.0		0.53		4.0	30	1.0
0.31		2.8	30	1.0		0.53	3.2	4.0	30	1.0
0.31	2.4	2.8	30	1.0		0.54		4.5	30	1.0
0.32		2.8	30	1.0		0.54	3.6	4.5	30	1.0
0.32	2.4	2.8	30	1.0		0.55		4.5	30	1.0
0.33		2.8	30	1.0		0.55	3.6	4.5	30	1.0
0.33	2.4	2.8	30	1.0		0.56		4.5	30	1.0
0.34		2.8	30	1.0		0.56	3.6	4.5	30	1.0
0.34	2.4	2.8	30	1.0		0.57		4.5	30	1.0
0.35		2.8	30	1.0		0.57	3.6	4.5	30	1.0
0.35	2.4	2.8	30	1.0		0.58		4.5	30	1.0
0.36		2.8	30	1.0		0.58	3.6	4.5	30	1.0
0.36	2.4	2.8	30	1.0		0.59		4.5	30	1.0
0.37		2.8	30	1.0		0.59	3.6	4.5	30	1.0
0.37	2.4	2.8	30	1.0		0.60		4.5	30	1.0
0.38		2.8	30	1.0		0.60	3.6	4.5	30	1.0
0.38	2.4	2.8	30	1.0		0.61		5.0	30	1.0
0.39		3.6	30	1.0		0.61	3.9	5.0	30	1.0
0.39	2.7	3.6	30	1.0		0.62		5.0	30	1.0
0.40		3.6	30	1.0		0.62	3.9	5.0	30	1.0
0.40	2.7	3.6	30	1.0		0.63		5.0	30	1.0
0.41		3.6	30	1.0		0.63	3.9	5.0	30	1.0
0.41	2.7	3.6	30	1.0		0.64		5.0	30	1.0
0.42		3.6	30	1.0		0.64	3.9	5.0	30	1.0
0.42	2.7	3.6	30	1.0		0.65		5.0	30	1.0
0.43		3.6	30	1.0		0.65	3.9	5.0	30	1.0
0.43	2.7	3.6	30	1.0		0.66		5.0	30	1.0
0.44		3.6	30	1.0		0.66	3.9	5.0	30	1.0
0.44	2.7	3.6	30	1.0		0.67		5.0	30	1.0
0.45		3.6	30	1.0		0.67	3.9	5.0	30	1.0
0.45	2.7	3.6	30	1.0		0.68		5.6	30	1.0
0.46		3.6	30	1.0		0.68	4.5	5.6	30	1.0
0.46	2.7	3.6	30	1.0		0.69		5.6	30	1.0
0.47		3.6	30	1.0		0.69	4.5	5.6	30	1.0
0.47	2.7	3.6	30	1.0		0.70		5.6	30	1.0
0.48		3.6	30	1.0		0.70	4.5	5.6	30	1.0
0.48	2.7	3.6	30	1.0		0.71		5.6	30	1.0
0.49		4.0	30	1.0		0.71	4.5	5.6	30	1.0

ON REQUEST :
Inch Sizes / Special sizes

PACKING :
10 tools / pack

All Dimensions in mm otherwise specified



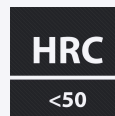
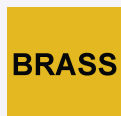
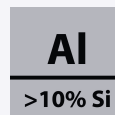
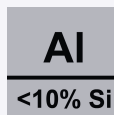
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Dia	Flute Length	Plunge Length	OAL	Shank Dia		Dia	Flute Length	Plunge Length	OAL	Shank Dia
d -0.004	l	l1	L	D h6		d -0.004	l	l1	L	D h6
0.72		5.6	30	1.0		0.92		7.1	30	1.5
0.72	4.5	5.6	30	1.0		0.92	5.7	7.1	30	1.5
0.73		5.6	30	1.0		0.93		7.1	30	1.5
0.73	4.5	5.6	30	1.0		0.93	5.7	7.1	30	1.5
0.74		5.6	30	1.0		0.94		7.1	30	1.5
0.74	4.5	5.6	30	1.0		0.94	5.7	7.1	30	1.5
0.75		5.6	30	1.0		0.95		7.1	30	1.5
0.75	4.5	5.6	30	1.0		0.95	5.7	7.1	30	1.5
0.76		6.3	30	1.0		0.96		8.0	30	1.5
0.76	5.0	6.3	30	1.0		0.96	6.5	8.0	30	1.5
0.77		6.3	30	1.0		0.97		8.0	30	1.5
0.77	5.0	6.3	30	1.0		0.97	6.5	8.0	30	1.5
0.78		6.3	30	1.0		0.98		8.0	30	1.5
0.78	5.0	6.3	30	1.0		0.98	6.5	8.0	30	1.5
0.79		6.3	30	1.0		0.99		8.0	30	1.5
0.79	5.0	6.3	30	1.0		0.99	6.5	8.0	30	1.5
0.80		6.3	30	1.5		1.00		8.0	30	1.5
0.80	5.0	6.3	30	1.5		1.00	6.5	8.0	30	1.5
0.81		6.3	30	1.5		1.05		8.0	38	1.5
0.81	5.0	6.3	30	1.5		1.05	6.5	8.0	38	1.5
0.82		6.3	30	1.5		1.10		9.0	38	1.5
0.82	5.0	6.3	30	1.5		1.10	7.3	9.0	38	1.5
0.83		6.3	30	1.5		1.15		9.0	38	1.5
0.83	5.0	6.3	30	1.5		1.15	7.3	9.0	38	1.5
0.84		6.3	30	1.5		1.20		10.0	38	1.5
0.84	5.0	6.3	30	1.5		1.20	8.2	10.0	38	1.5
0.85		6.3	30	1.5		1.25		10.0	38	1.5
0.85	5.0	6.3	30	1.5		1.25	8.2	10.0	38	1.5
0.86		7.1	30	1.5		1.30		10.0	38	1.5
0.86	5.7	7.1	30	1.5		1.30	8.2	10.0	38	1.5
0.87		7.1	30	1.5		1.35		11.2	38	1.5
0.87	5.7	7.1	30	1.5		1.35	9.2	11.2	38	1.5
0.88		7.1	30	1.5		1.40		11.2	38	1.5
0.88	5.7	7.1	30	1.5		1.40	9.2	11.2	38	1.5
0.89		7.1	30	1.5		1.45-1.49		11.2	38	1.5
0.89	5.7	7.1	30	1.5		1.45-1.49	9.2	11.2	38	1.5
0.90		7.1	30	1.5		1.50-1.99		12.0	38	2.0
0.90	5.7	7.1	30	1.5		1.50-1.99	12.0	12.0	38	2.0
0.91		7.1	30	1.5		2.00-2.45		12.0	43	2.5
0.91	5.7	7.1	30	1.5		2.00-2.45	12.0	12.0	43	2.5

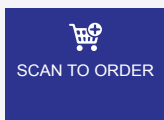
ON REQUEST :
Inch Sizes / Special sizes

PACKING :
10 tools / pack

All Dimensions in mm otherwise specified



AXIS T4031 Left Helix



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Dia	Flute Length	Total Length		Dia	Flute Length	Total Length
d	l	L		d	l	L
0.60	6.0	30		3.80-4.25	22.0	50
0.65	6.0	30		4.30-4.75	24.0	50
0.70	6.0	30		4.80-5.90	25.0	50
0.75	6.0	30		6.00	28.0	66
0.80	8.0	30		6.10-6.70	31.0	70
0.85	8.0	30		6.80-7.00	34.0	74
0.90	8.0	30		7.50	34.0	74
0.95	8.0	30		8.00	37.0	79
1.00	8.0	30				
1.05	10.0	30				
1.10	10.0	30				
1.15	10.0	30				
1.20	10.0	30				
1.25	10.0	30				
1.30	10.0	30				
1.45-1.50	10.0	30				
1.55-2.35	16.0	38				
2.40-3.00	16.0	46				
3.05-3.35	18.0	50				
3.40-3.75	20.0	50				

ON REQUEST :

Inch Sizes / Special sizes /
Left hand drills

PACKING :

Up to Dia 3.00mm : 10 tools / pack
Dia > 3.00mm : Single tool / pack

All dimensions in mm otherwise
specified

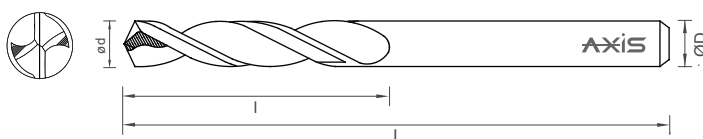
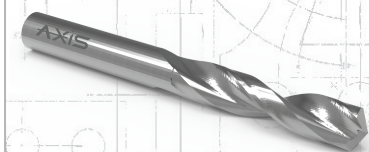


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T732



ød ≥ 1.50mm

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Dimensions as per DIN 6539

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MMP-Superfinishing-Verfahren zur Gewährleistung einer verbesserten Schichthftung und optimaler Spanabfuhr dank geringerer Reibung der polierten Flächen.

Abmessungen gemäß DIN 6539

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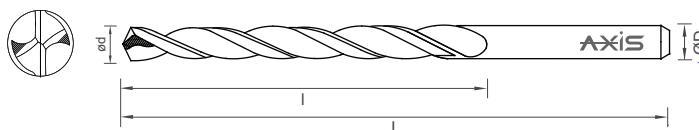
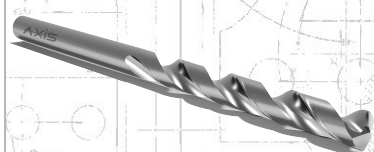
ød	l	L
0.60	3.50	21.00
0.65	4.00	22.00
0.70	4.05	23.00
0.75		
0.80	5.00	24.00
0.85		
0.90	5.50	25.00
0.95		
1.00	6.00	26.00
1.05		
1.10	7.00	28.00
1.15		
1.20	8.00	30.00
1.25		
1.30	9.00	32.00
1.35		
1.40	10.00	34.00
1.45		
1.50	11.00	36.00
1.55		
1.60	12.00	38.00
1.65		
1.70	13.00	40.00
1.75		
1.80	14.00	43.00
1.85		
1.90	16.00	46.00
1.95		
2.00	18.00	49.00
2.05		
2.10	2.15	2.20
2.15		
2.20	2.25	2.30
2.25		
2.30	2.35	2.40
2.35		
2.40	2.45	2.50
2.45		
2.50	2.55	2.60
2.55		
2.60	2.65	2.70
2.65		
2.70	2.75	2.80
2.75		
2.80	2.85	2.90
2.85		
2.90	2.95	3.00
2.95		
3.00	3.05	3.10
3.05		
3.10	3.15	3.20
3.15		

T732

ød	l	L
3.20	18.00	49.00
3.25		
3.30		
3.35		
3.40	20.00	52.00
3.45		
3.50		
3.55		
3.60		
3.65		
3.70		
3.75		
3.80	22.00	55.00
3.85		
3.90		
3.95		
4.00		
4.05		
4.10		
4.15		
4.20	24.00	58.00
4.25		
4.30		
4.35		
4.40		
4.45		
4.50		
4.55		
4.60	26.00	62.00
4.65		
4.70		
4.75		
4.80		
4.85		
4.90		
4.95		
5.00	28.00	66.00
5.05		
5.10		
5.15		
5.20		
5.25		
5.30		
5.35		
5.40	31.00	70.00
5.45		
5.50		
5.55		
5.60		
5.65		
5.70		
5.75		
5.80	31.00	70.00
5.85		
5.90		
5.95		
6.00		
6.10		
6.20		
6.30		
6.40		
6.50		
6.60		

ød	l	L
6.70	31.00	70.00
6.80	34.00	74.00
6.90		
7.00		
7.10		
7.20		
7.30		
7.40		
7.50		
7.60	37.00	79.00
7.70		
7.80		
7.90		
8.00		
8.10		
8.20		
8.30	40.00	84.00
8.40		
8.50		
8.60		
8.70		
8.80		
8.90		
9.00	43.00	89.00
9.10		
9.20		
9.30		
9.40		
9.50		
9.60		
9.70	47.00	95.00
9.80		
9.90		
10.00		
10.10		
10.20		
10.30		
10.40		
10.50	51.00	102.0
10.60		
10.70		
10.80		
10.90		
11.00		
11.10		
11.20	54.00	107.0
11.30		
11.40		
11.50		
11.60		
11.70		
11.80		
11.90	56.00	111.0
12.00		
12.50		
13.00		
13.50	58.00	115.0
14.00		
14.50		
15.00		
15.50		
16.00		

Parallel Shank Drills Jobber Series T832



ed ≥ 1.50mm

A universal drill rendered with self centering & keen cutting abilities for use across different materials and applications

Made from ultra fine grade carbide with a balanced mix of high toughness and excellent hardness

MMP Superfinishing process to ensure better coating adhesion, better chip evacuation and reduced friction of the chips

Dimensions as per DIN 338

Ein universeller Bohrer mit Selbstzentrierung und hervorragenden Schneideigenschaften für den Einsatz bei verschiedenen Materialien und Anwendungen

Hergestellt aus ultrafeinem Hartmetall mit einer ausgewogenen Kombination aus hoher Zähigkeit und sehr hoher Härte

MMP-Superfinishing-Verfahren zur Gewährleistung einer verbesserten Schichthaftung und optimaler Spanabfuhr dank geringerer Reibung der polierten Flächen.

Abmessungen gemäß DIN 338

World of mICRO Tools



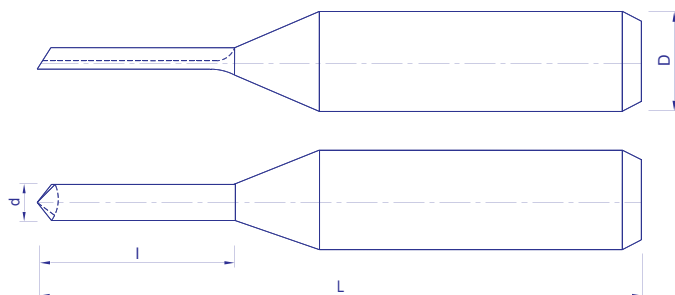
www.axis-microtools.com

ød	l	L
0.50	6.00	22.00
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0.70	9.00	28.00
0.75		
0.80	10.00	30.00
0.85		
0.90	11.00	32.00
0.95		
1.00	12.00	34.00
1.05		
1.10	14.00	36.00
1.15		
1.20	16.00	38.00
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1.30	18.00	40.00
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1.45		
1.50	22.00	46.00
1.55		
1.60	24.00	49.00
1.65		
1.70	27.00	53.00
1.75		
1.80	30.00	57.00
1.85		
1.90	33.00	61.00
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2.00	36.00	65.00
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2.10	33.00	61.00
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2.55		
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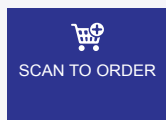
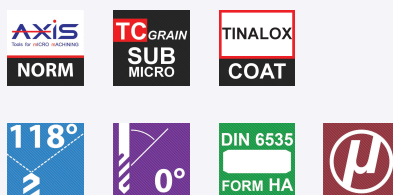
T832

ød	I	L
3.10	36.00	65.00
3.15		
3.20		
3.25		
3.30		
3.35		
3.40	39.00	70.00
3.45		
3.50		
3.55		
3.60		
3.65		
3.70		
3.75		
3.80	43.00	75.00
3.85		
3.90		
3.95		
4.00		
4.05		
4.10		
4.15		
4.20		
4.25		
4.30	47.00	80.00
4.35		
4.40		
4.45		
4.50		
4.55		
4.60		
4.65		
4.70		
4.75		
4.80	52.00	86.00
4.85		
4.90		
4.95		
5.00		
5.05		
5.10		
5.15		
5.20		
5.25		
5.30		
5.35	57.00	93.00
5.40		
5.45		
5.50		
5.55		
5.60		
5.65		
5.70		
5.75		
5.80		
5.85		
5.90		
5.95		
6.00		
6.10	63.00	101.0
6.20		
6.30		
6.40		
6.50		

ød	I	L
6.60	63.00	101.0
6.70		
6.80	69.00	109.0
6.90		
7.00		
7.10		
7.20		
7.30		
7.40		
7.50	75.00	117.0
7.60		
7.70		
7.80		
7.90		
8.00		
8.10		
8.20		
8.30	81.00	125.0
8.40		
8.50		
8.60		
8.70		
8.80		
8.90		
9.00		
9.10	87.00	133.0
9.20		
9.30		
9.40		
9.50		
9.60		
9.70		
9.80		
9.90	94.00	142.0
10.00		
10.10		
10.20		
10.30		
10.40		
10.50		
10.60		
10.70	101.0	151.0
10.80		
10.90		
11.00		
11.10		
11.20		
11.30		
11.40		
11.50	108.0	160.0
11.60		
11.70		
11.80	114.0	169.0
11.90		
12.00		
12.50	120.0	178.0
13.00		
13.50		
14.00	120.0	178.0
14.50		
15.00		
15.50	120.0	178.0
16.00		



AXIS T9801- RH
AXIS T9851- LH



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ON REQUEST :
Inch Sizes / Special sizes /
Left hand Drills

PACKING :
Up to Dia 2.00mm : 10 tools /
pack
Dia > 3.00mm : Single tool / pack

All Dimensions in mm otherwise specified

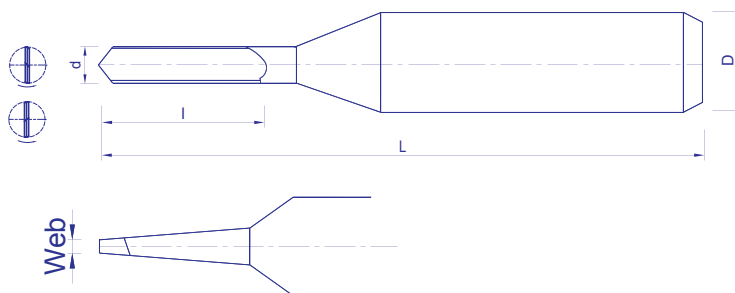


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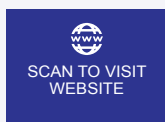
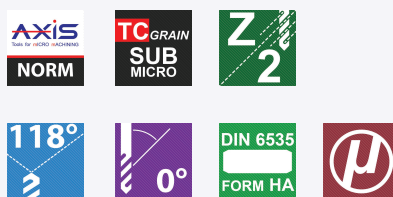
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 info@axis-microtools.com

Right Hand Cut

Left Hand Cut



AXIS T2001- RH
AXIS T2051- LH



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Dia	Flute Length	Total Length	Shank Dia
d	l	L	D h6
0.10 - 0.14	0.7	30	1.0
0.15 - 0.19	1.0	30	1.0
0.20 - 0.29	1.0	30	1.0
0.30 - 0.39	1.5	30	1.0
0.40 - 0.49	2.0	30	1.0
0.50 - 0.59	3.0	30	1.0
0.60 - 0.64	3.5	30	1.0
0.65 - 0.69	4.0	30	1.0
0.70 - 0.79	4.5	30	1.0
0.80 - 1.49	9.0	30	2.0
1.50 - 1.99	10.0	38	2.0
2.00 - 2.49	12.0	38	3.0
2.50 - 2.99	15.0	38	3.0
3.00 - 3.99	18.0	50	4.0
4.00 - 4.99	20.0	50	5.0
5.00 - 6.00	25.0	50	6.0

ON REQUEST :
Inch Sizes / Special sizes /
Left hand Drills

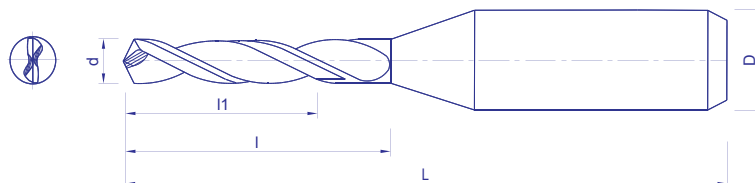
PACKING :
Up to Dia 2.99mm : 10 tools /
pack
Dia > 2.99mm : Single tool / pack

All Dimensions in mm otherwise
specified

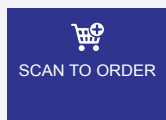
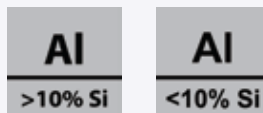
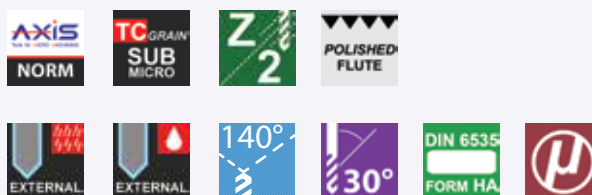


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AXIS T6401



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ON REQUEST :

ON REQUEST :
Inch Sizes / Special sizes /
Left hand drills

PACKING :

Up to Dia 2.95mm : 10 tools / pack,
Dia > 2.95mm : Single tool / pack

All Dimensions in mm otherwise specified

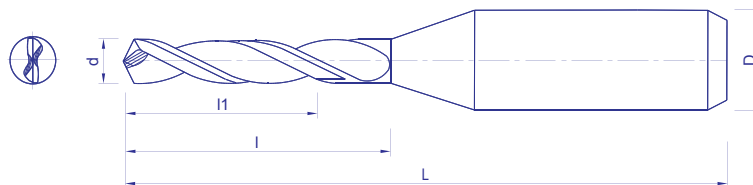


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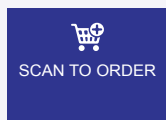
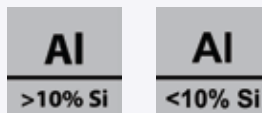
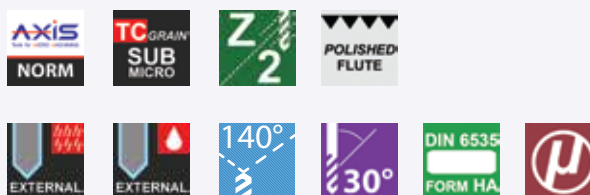
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AXIS T6401



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Dia	Drilling Depth	Flute Length	Total Length	Shank Dia
d h6	I1	I	L	D h6
6.10 - 8.00	43.0	53.0	91	8.0
	64.0	76.0	114	8.0
	94.0	108.0	146	8.0
8.10 - 10.00	49.0	61.0	103	10.0
	80.0	95.0	142	10.0
	110.0	120.0	162	10.0
10.10 - 12.00	56.0	71.0	118	12.0
	96.0	114.0	162	12.0
	142.0	156.0	204	12.0
12.50 - 14.00	60.0	77.0	124	14.0
	112.0	133.0	178	14.0
	166.0	182.0	230	14.0
14.50 - 16.00	63.0	83.0	133	16.0
	128.0	152.0	203	16.0
	192.0	208.0	260	16.0
16.50 - 18.00	71.0	93.0	143	18.0
	144.0	171.0	222	18.0
	216.0	234.0	285	18.0
18.50 - 20.00	77.0	101.0	153	20.0
	160.0	190.0	243	20.0
	240.0	258.0	310	20.0

ON REQUEST :
Inch Sizes / Special sizes /
Left hand drills

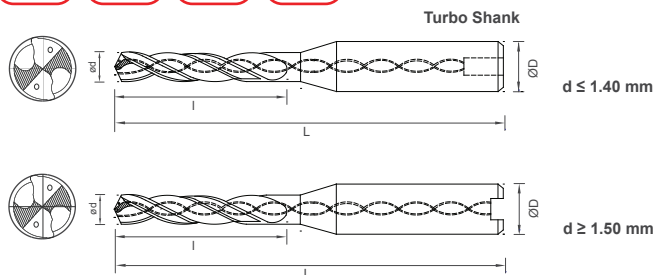
PACKING :
Up to Dia 2.95mm : 10 tools / pack,
Dia > 2.95mm : Single tool / pack

All Dimensions in mm otherwise
specified



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Four margin geometry to ensure balanced and precise drilling of deep holes

Wavy cutting edges and specially designed flute geometry for controlled chip formation and evacuation

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Die differenzierte Kernstärke unterstützt eine ausgezeichnete Bohrungsform und -qualität sowie eine effiziente Spanabfuhr

Hochleistungsfähiger, ultrafeiner Hartmetallwerkstoff, der speziell für die Mikrobearbeitung entwickelt wurde

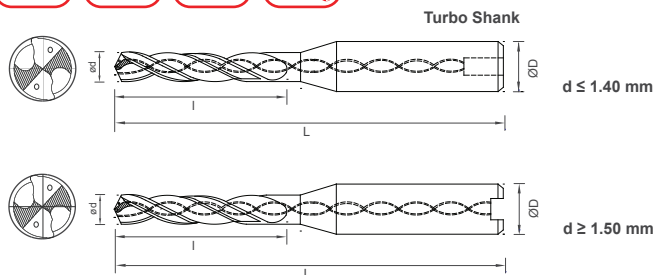
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ød	l	L	ØD h6
0.80	8.00	45.00	3.00
0.90			
1.00			
1.10	10.00	45.00	3.00
1.20			
1.30			
1.40	12.00	55.00	3.00
1.50			
1.60			
1.70	16.00	60.00	3.00
1.80			
1.90			
2.00	16.00	60.00	4.00
2.10			
2.20			
2.30	18.00	60.00	4.00
2.40			
2.50			
2.60	20.00	60.00	4.00
2.70			
2.80			
2.90	22.00	60.00	4.00
3.00			
3.10			
3.20	24.00	65.00	4.00
3.30			
3.40			
3.50	26.00	75.00	4.00
3.60			
3.70			
3.80	28.00	75.00	4.00
3.90			
4.00			
4.10	36.00	75.00	4.00
4.20			
4.30			
4.40	36.00	75.00	6.00
4.50			
4.60			
4.70	44.00	80.00	6.00
4.80			
4.90			
5.00	48.00	80.00	6.00
5.10			
5.20			
5.30	48.00	80.00	6.00
5.40			
5.50			
5.60	48.00	80.00	6.00
5.70			
5.80			
5.90	48.00	80.00	6.00
6.00			



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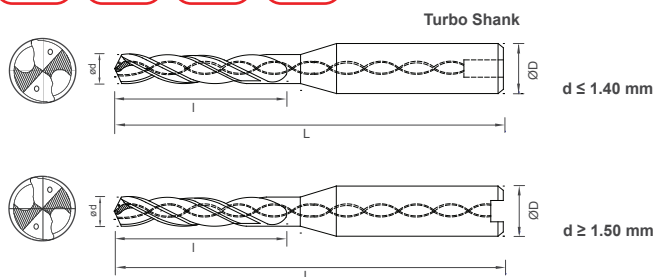
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ød	l	L	ØD h6
0.80	12.00	55.00	3.00
0.90			
1.00			
1.10	16.00	55.00	3.00
1.20			
1.30			
1.40	18.00	55.00	3.00
1.50			
1.60			
1.70	26.00	65.00	3.00
1.80			
1.90			
2.00	26.00	65.00	4.00
2.10			
2.20			
2.30	33.00	75.00	4.00
2.40			
2.50			
2.60	40.00	80.00	4.00
2.70			
2.80			
2.90	42.00	80.00	4.00
3.00			
3.10			
3.20	45.00	90.00	4.00
3.30			
3.40			
3.50	52.00	90.00	4.00
3.60			
3.70			
3.80	60.00	100.0	6.00
3.90			
4.00			
4.10	65.00	108.0	6.00
4.20			
4.30			
4.40	72.00	108.0	6.00
4.50			
4.60			
4.70	78.00	120.0	6.00
4.80			
4.90			
5.00	72.00	108.0	6.00
5.10			
5.20			
5.30	78.00	120.0	6.00
5.40			
5.50			
5.60	72.00	108.0	6.00
5.70			
5.80			
5.90	78.00	120.0	6.00
6.00			



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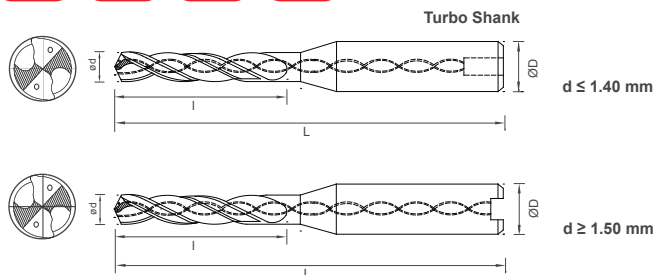
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ød	l	L	ØD h6
0.80	16.00	55.00	3.00
0.90			
1.00			
1.10			
1.20			
1.30	24.00	75.00	3.00
1.40			
1.50			
1.60	30.00	75.00	3.00
1.70			
1.80			
1.90	35.00	75.00	3.00
2.00			
2.10			
2.20	40.00	80.00	4.00
2.30			
2.40			
2.50	45.00	90.00	4.00
2.60			
2.70			
2.80	50.00	90.00	4.00
2.90			
3.00			
3.10	55.00	100.0	6.00
3.20			
3.30			
3.40	60.00	100.0	6.00
3.50			
3.60			
3.70	65.00	108.0	6.00
3.80			
3.90			
4.00	70.00	108.0	6.00
4.10			
4.20			
4.30	75.00	120.0	6.00
4.40			
4.50			
4.60	80.00	120.0	6.00
4.70			
4.80			
4.90	85.00	125.0	6.00
5.00			
5.10			
5.20	90.00	140.0	6.00
5.30			
5.40			
5.50	95.00	140.0	6.00
5.60			
5.70			
5.80	100.0	150.0	6.00
5.90			
6.00			



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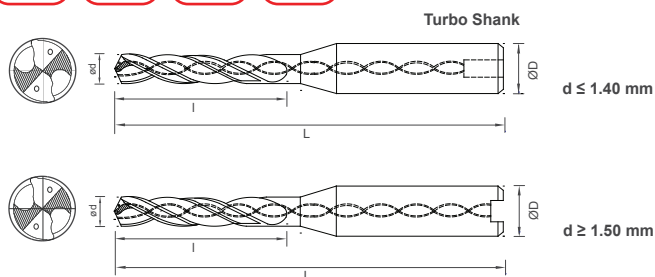
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Ød	L	ØD h6
0.80	20.00	3.00
0.90		
1.00	25.00	3.00
1.10		
1.20	28.00	3.00
1.30	30.00	3.00
1.40	32.00	3.00
1.50		
1.60	36.00	3.00
1.70		
1.80	40.00	3.00
1.90	45.00	3.00
2.00	45.00	4.00
2.10		
2.20	50.00	4.00
2.30		
2.40	55.00	4.00
2.50		
2.60	60.00	4.00
2.70		
2.80	65.00	4.00
2.90		
3.00	68.00	4.00
3.10		
3.20	75.00	6.00
3.30		
3.40	80.00	6.00
3.50		
3.60	85.00	6.00
3.70		
3.80	90.00	6.00
3.90		
4.00	95.00	6.00
4.10		
4.20		
4.30	100.0	6.00
4.40		
4.50		
4.60	110.0	6.00
4.70		
4.80		
4.90	115.0	6.00
5.00		
5.10		
5.20		
5.30	125.0	6.00
5.40		
5.50		
5.60		
5.70	140.0	6.00
5.80		
5.90		
6.00		



A versatile high performance drill crafted for super long drilling applications in Carbon & Alloy Steels, Cast Iron, Stainless Steel and Super Alloys

Four margin geometry to ensure balanced and precise drilling of deep holes

Wavy cutting edges and specially designed flute geometry for controlled chip formation and evacuation

Differentiated web construction supports excellent hole form and quality with efficient chip evacuation

High performance ultra fine carbide substrate developed specifically for mICRO machining applications

Finely honed cutting edge and highly polished flutes by *MMP Superfinishing* process provide superior edge strength, excellent chip evacuation, better coating adhesion and longer tool life

Ein vielseitig einsetzbarer Hochleistungsbohrer für die Tieflochbohrung von unlegiertem und legiertem Stahl, Gusseisen, Edelstahl und Superlegierungen

Vier-Fasen-Geometrie für eine ausgewogene und präzise Tieflochbohrung

Wellenförmige Schneidkanten und speziell konzipierte Schneidengeometrie für eine kontrollierte Spanbildung und -abfuhr

Die differenzierte Kernstärke unterstützt eine ausgezeichnete Bohrungsform und -qualität sowie eine effiziente Spanabfuhr

Hochleistungsfähiger, ultrafeiner Hartmetallwerkstoff, der speziell für die Mikrobearbeitung entwickelt wurde

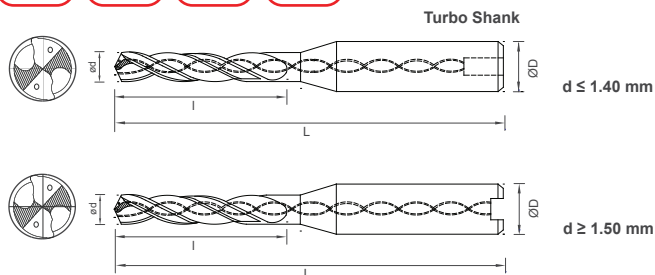
Fein geschliffene Schneidkante und im MMP-Superfinishing-Verfahren hochglanzpolierte Schneiden für eine überlegene Kantenstärke, hervorragende Spanabfuhr und verbesserte Beschichtung

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ød	l	L	ØD h6
1.00	30.0	75.0	3.00
1.10			
1.20			
1.30	35.0	75.0	3.00
1.40			
1.50	40.0	85.0	3.00
1.60			
1.70			
1.80	50.0	95.0	3.00
1.90			
2.00	55.0	95.0	4.00
2.10			
2.20	60.0	108.0	4.00
2.30			
2.40			
2.50	70.0	112.0	4.00
2.60			
2.70	75.0	120.0	4.00
2.80			
2.90			
3.00	85.0	130.0	6.00
3.10			
3.20			
3.30	95.0	140.0	6.00
3.40			
3.50			
3.60	100.0	150.0	6.00
3.70			
3.80			
3.90	105.0	150.0	6.00
4.00			
4.10			
4.20	110.0	160.0	6.00
4.30			
4.40			
4.50	120.0	170.0	6.00
4.60			
4.70			
4.80	130.0	180.0	6.00
4.90			
5.00			
5.10	140.0	190.0	6.00
5.20			
5.30			
5.40	150.0	200.0	6.00
5.50			
5.60			
5.70	160.0	210.0	6.00
5.80			
5.90			
6.00	170.0	220.0	6.00



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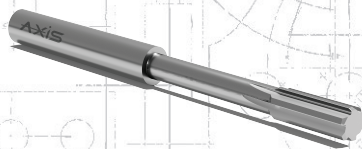


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ød	l	L	ØD h6
1.00	35.0	75.0	3.00
1.10			
1.20			
1.30	45.0	85.0	3.00
1.40			
1.50			
1.60	55.0	95.0	3.00
1.70			
1.80			
1.90	65.0	105.0	3.00
2.00			
2.10			
2.20	75.0	115.0	4.00
2.30			
2.40			
2.50	85.0	130.0	4.00
2.60			
2.70			
2.80	95.0	140.0	4.00
2.90			
3.00			
3.10	105.0	150.0	6.00
3.20			
3.30			
3.40	115.0	160.0	6.00
3.50			
3.60			
3.70	125.0	175.0	6.00
3.80			
3.90			
4.00	135.0	185.0	6.00
4.10			
4.20			
4.30	145.0	195.0	6.00
4.40			
4.50			
4.60	155.0	205.0	6.00
4.70			
4.80			
4.90	165.0	210.0	6.00
5.00			
5.10			
5.20	175.0	220.0	6.00
5.30			
5.40			
5.50	190.0	240.0	6.00
5.60			
5.70			
5.80			
5.90			
6.00			

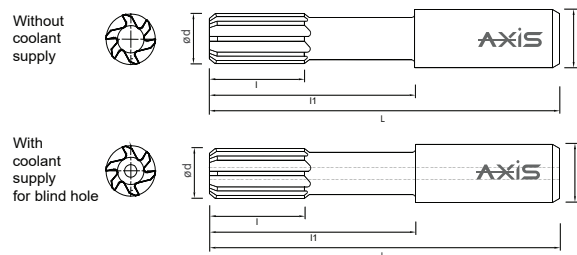
High Precision Reamers

R90X
H90X



Dia Tolerance

Standard $\pm 0.002\text{mm}$
On Request $\pm 0.001\text{mm}$



A versatile reamer crafted to ream high Alloy Steels, Stainless Steels, Aluminium and other Non-ferrous material

Precisely controlled diameter and runout to meet high precision hole making requirements

For blind holes, availability of centre coolant holes ensures sufficient coolant pressure and volume. Thereby ensuring faster chip evacuation, heat dissipation leading to longer tool life with better dimensional control

Made from ultra fine grade carbide with a balanced mix of high toughness and excellent hardness

MMP Superfinishing to ensure better coating adhesion, better chip evacuation, reduced chip friction and better hole surface

Eine vielseitig einsetzbare Reibahle zum Reiben von hochlegiertem Stahl, Edelstahl, Aluminium und anderen Nichteisenmetallen. Präzise kontrollierter Durchmesser und Rundlauf, um die Anforderungen an Hochpräzisionsbohrungen zu erfüllen.

Bei Sacklochbohrungen sorgt eine zentrierte Kühlmittelzufuhr für ausreichenden Kühlmittel Druck und -volumen. Dadurch wird eine zügigere Span- und Wärmeabfuhr und somit längere Werkzeugstandzeiten und eine sichere Masshaltigkeit gewährleistet.

Hergestellt aus ultrafeinem Hartmetall mit einer ausgewogenen Kombination aus hoher Zähigkeit und sehr hoher Härte.

MMP-Superfinishing-Verfahren zur Gewährleistung einer verbesserten Schichthaftung und optimaler Spanabfuhr dank geringerer Reibung der polierten Flächen.

Article		Ød	l	l1	L	ØD h6	Flute Z
R9011	N.A	0.900 - 1.069	6.00	20.00	48.00	3.00	3
R9011	N.A	1.070 - 1.569	6.00	20.00	48.00	3.00	3
R9011	N.A	1.570 - 2.069	6.00	20.00	48.00	3.00	3
R9011	N.A	2.070 - 2.569	6.00	20.00	48.00	3.00	6
R9001	N.A	2.570 - 3.069	6.00	20.00	48.00	3.00	3
R9001	H9001	3.070 - 3.569	8.00	26.00	54.00	4.00	4
R9001	H9001	3.570 - 4.069	8.00	26.00	54.00	4.00	4
R9041	H9041	4.070 - 4.569	12.00	38.00	74.00	6.00	4
R9041	H9041	4.570 - 5.069	12.00	38.00	74.00	6.00	6
R9041	H9041	5.070 - 6.150	12.00	38.00	74.00	6.00	6
R9041	H9041	6.160 - 6.790	12.00	55.00	91.00	8.00	6
R9041	H9041	6.800 - 7.150	16.00	55.00	91.00	8.00	6
R9041	H9041	7.160 - 8.150	16.00	55.00	91.00	8.00	6
R9041	H9041	8.160 - 8.690	16.00	63.00	103.0	10.00	6
R9041	H9041	8.700 - 10.15	20.00	63.00	103.0	10.00	6
R9041	H9041	10.16 - 10.59	20.00	73.00	118.0	12.00	6
R9041	H9041	10.60 - 12.15	24.00	73.00	118.0	12.00	6
without coolant supply	with coolant supply						

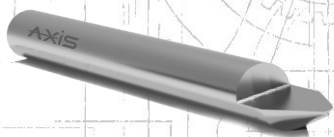
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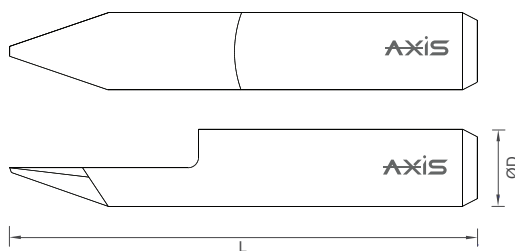
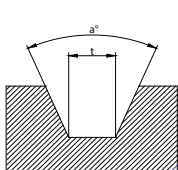
Engravers

G847



On Request

ultra mICRO tip dia $\geq 0.020\text{mm}$
Customised tip radius



Precisely controlled tip angles and tip diameters for high precision machining requirements

Sharp cutting edges to ensure burr free engraving

High performance ultra fine carbide substrate developed specifically for mICRO tooling applications

Next Gen coatings suitable for the application material

Präzise kontrollierte Spitzenwinkel und -durchmesser für die Anforderungen an die Hochpräzisionsbearbeitung

Scharfe Schneidkanten für gratfreies Gravieren

Hochleistungsfähiger, ultrafeiner Hartmetallwerkstoff, der speziell für Mikrowerkzeuganwendungen entwickelt wurde

Moderne NexGen-Beschichtungen abgestimmt auf das Anwendungsmaterial

ød	L	ØD h6	Angle a			
0.05	38.00	2.00	30°	45°	60°	90°
0.10						
0.20						
0.05	38.00	3.00	30°	45°	60°	90°
0.10						
0.20						
0.05	38.00	3.175	30°	45°	60°	90°
0.10						
0.20						
0.05	50.00	4.00	30°	45°	60°	90°
0.10						
0.20						
0.05	50.00	5.00	30°	45°	60°	90°
0.10						
0.20						
0.05	50.00	6.00	30°	45°	60°	90°
0.10						
0.20						
0.05	50.00	8.00	30°	45°	60°	90°
0.10						
0.20						

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