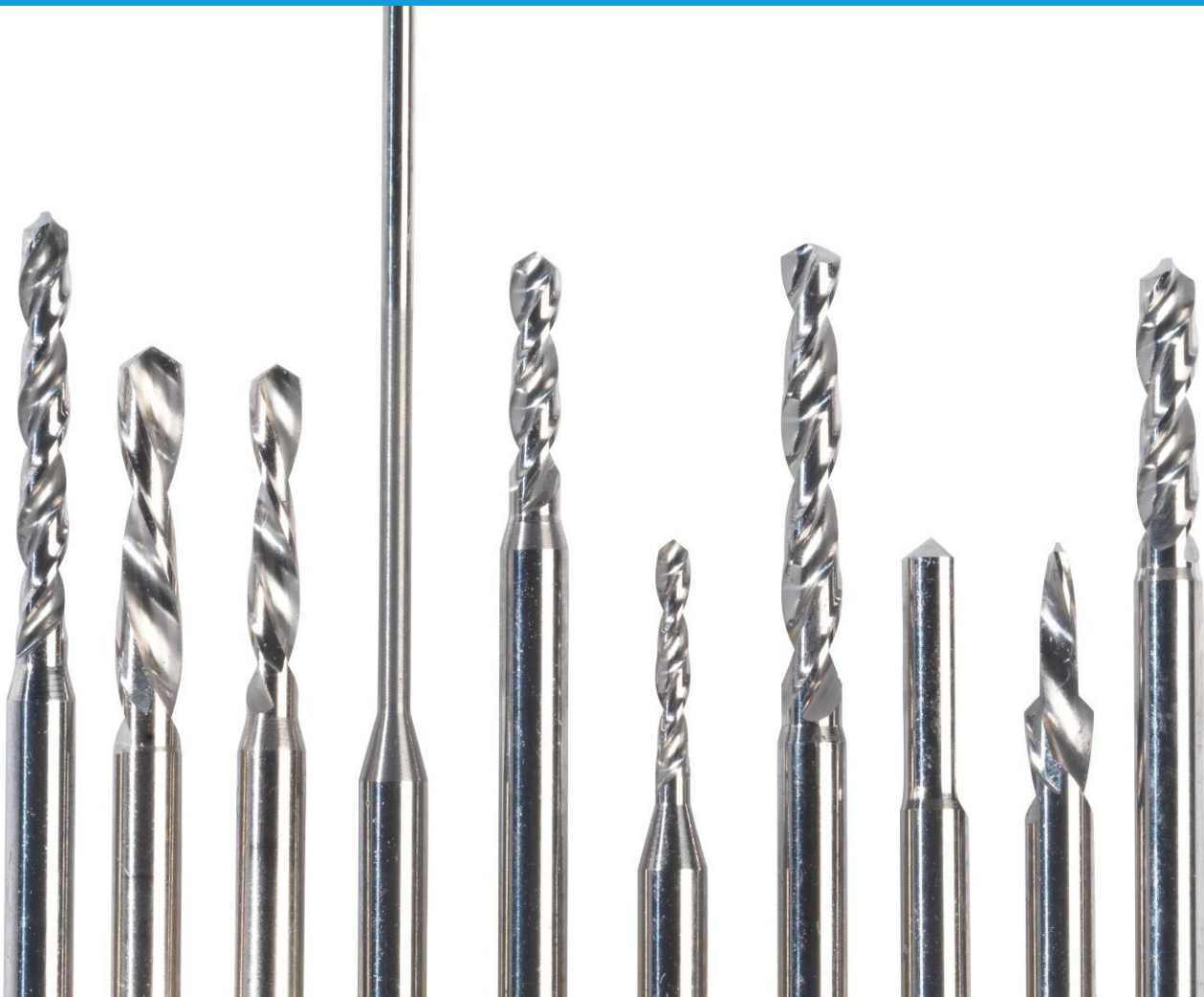


**KONRAD
TOOLS**



MICROTOOLS

Standard products:

	Code	Type	D range	Z	D.o.C	Pte	Helix	Hand
HSS-Co	CD120	Center Drill 120°	0,20 - 3,00	2	2xD	120°	H35°	R
	TD5	Twist Drills	0,10 - 3,00	2	5xD	120°	H24°	R+L
SOLID CARBIDE	CPD120	Center / Pilot Drill 120°	0,20 - 3,00	2	2xD	120°	H24°	R
	SD90	Spot Drill 90°	0,50 - 3,00	2	2xD	90°	H30°	R
	MD5	Micro Drill	0,20 - 3,00	2	4-5xD	120°	H35°	R
	MD5.1	Micro Drill (Shank – 3.00 mm)	0,20 - 2,00	2	4-5xD	120°	H24°	R
	MD7	Micro Drill	0,10 - 2,00	2	5-7xD	120°	H35°	R
	MD7.H15	Micro Drill (Low Helix, Left)	0,50 - 2,00	2	5-7xD	120°	H15°	L
	TD10.S	Twist Drill (Straight Shank)	0,50 - 1,50	2	10xD	120°	H24°	R
	MD7.1HP	Micro Drill (High perf.)	0,50 - 4,00	2	6-7xD	140°	H30°	R
	MD12.1HP	Micro Drill (High perf.)	0,50 - 3,00	2	12xD	140°	H30°	R
	PD40.1	Flex Type Z2 Drill for Pecking	0,30 - 1,00	2	30-40xD	135°	H24°	R
	MD5.1-IC	Coolant-Thru Drill	1,00 - 3,00	2	5xD	140°	H30°	R
	MD15.1-IC	Coolant-Thru Drill	1,00 - 3,00	2	15xD	140°	H30°	R
	3FD4.1	3-Flutes Cross Drill	0,50 - 1,50	3	3-4xD	140°	H30°	R
	3FD10.1	3-Flutes Reamer Drill	0,50 - 3,00	3	6-10xD	140°	H30°	R
	GD8	Gun Drill (Half-Round)	0,20 - 3,00	1	8xD	120°	H0°	R+L
	GD8.H10	Gun Drill (Z1 Helical)	0,50 - 1,50	1	8xD	120°	H10°	R+L

CD120 - Center Drill 120°

Z2

2xD

120°

H35°

R

HSS-Co (8% cobalt)

Center drill to be used before TD5 series!

Materials: brass, aluminium, soft steel, stainless steel, titanium, cast iron

Key features:

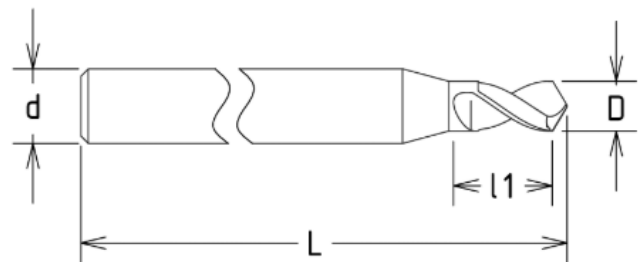
- Range from 0.20 mm to 3.00 mm - increments of 0.05 mm
- Special characteristics on request
- Packaging - 10 units per box

Benefits:

- Can be used as pilot
- Can be used for short length 2 x D

Main characteristics:

- Tolerance h6 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
CD120-020R	0.20	0,0079	0.6	1.50	25
CD120-025R	0.25	0,0098	0.8	1.50	25
CD120-030R	0.30	0,0118	0.9	1.50	25
CD120-035R	0.35	0,0138	1.0	1.50	25
CD120-040R	0.40	0,0157	1.0	1.50	25
CD120-045R	0.45	0,0177	1.2	1.50	25
CD120-050R	0.50	0,0197	1.2	1.50	25
CD120-055R	0.55	0,0217	1.4	1.50	25
CD120-060R	0.60	0,0236	1.4	1.50	25
CD120-065R	0.65	0,0256	1.7	1.50	25
CD120-070R	0.70	0,0276	1.7	1.50	25
CD120-075R	0.75	0,0295	1.8	1.50	25
CD120-080R	0.80	0,0315	1.8	1.50	25
CD120-085R	0.85	0,0335	1.8	1.50	25
CD120-090R	0.90	0,0354	1.8	1.50	25
CD120-095R	0.95	0,0374	2.0	1.50	25
CD120-100R	1.00	0,0394	2.0	1.50	25
CD120-105R	1.05	0,0413	2.3	1.50	25
CD120-110R	1.10	0,0433	2.3	1.50	25
CD120-115R	1.15	0,0453	2.3	1.50	25
CD120-120R	1.20	0,0472	2.3	1.50	25
CD120-125R	1.25	0,0492	2.7	1.50	25
CD120-130R	1.30	0,0512	2.7	1.50	25
CD120-135R	1.35	0,0531	2.7	1.50	25
CD120-140R	1.40	0,0551	2.7	1.50	25
CD120-145R	1.45	0,0571	2.7	1.50	25

CD120-150R	1.50	0,0591	3.0	2.00	25
CD120-160R	1.60	0,063	3.0	2.00	25
CD120-170R	1.70	0,0669	3.3	2.00	25
CD120-180R	1.80	0,0709	3.3	2.00	25
CD120-190R	1.90	0,0748	3.3	2.00	25
CD120-200R	2.00	0,0787	4.0	2.00	25
CD120-210R	2.10	0,0827	4.0	2.50	25
CD120-220R	2.20	0,0866	4.0	2.50	25
CD120-230R	2.30	0,0906	4.6	2.50	25
CD120-240R	2.40	0,0945	4.6	2.50	25
CD120-250R	2.50	0,0984	4.6	2.50	25
CD120-260R	2.60	0,1024	4.6	3.00	25
CD120-270R	2.70	0,1063	5.3	3.00	25
CD120-280R	2.80	0,1102	5.3	3.00	25
CD120-290R	2.90	0,1142	5.3	3.00	25
CD120-300R	3.00	0,1181	5.3	3.00	25

TD5 - Twist Drill

Z2

5xD

120°

H24°

R+L

HSS-Co (8% cobalt)

Materials: brass, aluminium, soft steel, stainless steel, titanium, cast iron

Key features:

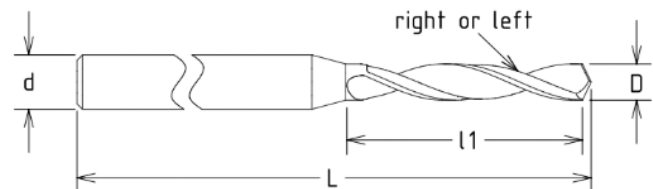
- Range from 0.10 mm to 3.00 mm - increments of 0.01/0.05/0.10 mm
- Special characteristics on request
- Packaging - 10 units per box

Benefits:

- Good flexibility of drills, suitable for cam lathes

Main characteristics:

- Tolerance h6 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
TD5-010R/L	0.10	0,0039	0.7	1.00	25
TD5-011R/L	0.11	0,0043	0.7	1.00	25
TD5-012R/L	0.12	0,0047	0.7	1.00	25
TD5-013R/L	0.13	0,0051	1.0	1.00	25
TD5-014R/L	0.14	0,0055	1.0	1.00	25
TD5-015R/L	0.15	0,0059	1.0	1.00	25
TD5-016R/L	0.16	0,0063	1.4	1.00	25
TD5-017R/L	0.17	0,0067	1.4	1.00	25
TD5-018R/L	0.18	0,0071	1.4	1.00	25
TD5-019R/L	0.19	0,0075	1.4	1.00	25
TD5-020R/L	0.20	0,0079	1.8	1.00	25
TD5-021R/L	0.21	0,0083	1.8	1.00	25
TD5-022R/L	0.22	0,0087	1.8	1.00	25
TD5-023R/L	0.23	0,0091	1.8	1.00	25
TD5-024R/L	0.24	0,0094	1.8	1.00	25
TD5-025R/L	0.25	0,0098	2.2	1.00	25
TD5-026R/L	0.26	0,0102	2.2	1.00	25
TD5-027R/L	0.27	0,0106	2.2	1.00	25
TD5-028R/L	0.28	0,011	2.2	1.00	25
TD5-029R/L	0.29	0,0114	2.2	1.00	25
TD5-030R/L	0.30	0,0118	2.2	1.00	25
TD5-031R/L	0.31	0,0122	2.8	1.00	25
TD5-032R/L	0.32	0,0126	2.8	1.00	25
TD5-033R/L	0.33	0,013	2.8	1.00	25
TD5-034R/L	0.34	0,0134	2.8	1.00	25
TD5-035R/L	0.35	0,0138	2.8	1.00	25

TD5-036R/L	0.36	0,0142	2.8	1.00	25
TD5-037R/L	0.37	0,0146	2.8	1.00	25
TD5-038R/L	0.38	0,015	2.8	1.00	25
TD5-039R/L	0.39	0,0154	2.8	1.00	25
TD5-040R/L	0.40	0,0157	3.2	1.00	25
TD5-041R/L	0.41	0,0161	3.2	1.00	25
TD5-042R/L	0.42	0,0165	3.2	1.00	25
TD5-043R/L	0.43	0,0169	3.2	1.00	25
TD5-044R/L	0.44	0,0173	3.2	1.00	25
TD5-045R/L	0.45	0,0177	3.2	1.00	25
TD5-046R/L	0.46	0,0181	3.6	1.00	25
TD5-047R/L	0.47	0,0185	3.6	1.00	25
TD5-048R/L	0.48	0,0189	3.6	1.00	25
TD5-049R/L	0.49	0,0193	3.6	1.00	25
TD5-050R/L	0.50	0,0197	3.6	1.00	25
TD5-051R/L	0.51	0,0201	4.0	1.50	25
TD5-052R/L	0.52	0,0205	4.0	1.50	25
TD5-053R/L	0.53	0,0209	4.0	1.50	25
TD5-054R/L	0.54	0,0213	4.0	1.50	25
TD5-055R/L	0.55	0,0217	4.0	1.50	25
TD5-056R/L	0.56	0,022	4.5	1.50	25
TD5-057R/L	0.57	0,0224	4.5	1.50	25
TD5-058R/L	0.58	0,0228	4.5	1.50	25
TD5-059R/L	0.59	0,0232	4.5	1.50	25
TD5-060R/L	0.60	0,0236	4.5	1.50	25
TD5-061R/L	0.61	0,024	4.7	1.50	25
TD5-062R/L	0.62	0,0244	4.7	1.50	25
TD5-063R/L	0.63	0,0248	4.7	1.50	25
TD5-064R/L	0.64	0,0252	4.7	1.50	25
TD5-065R/L	0.65	0,0256	4.7	1.50	25
TD5-066R/L	0.66	0,026	4.7	1.50	25
TD5-067R/L	0.67	0,0264	4.7	1.50	25
TD5-068R/L	0.68	0,0268	5.2	1.50	25
TD5-069R/L	0.69	0,0272	5.2	1.50	25
TD5-070R/L	0.70	0,0276	5.2	1.50	25
TD5-071R/L	0.71	0,028	5.2	1.50	25
TD5-072R/L	0.72	0,0283	5.2	1.50	25
TD5-073R/L	0.73	0,0287	5.2	1.50	25
TD5-074R/L	0.74	0,0291	5.2	1.50	25
TD5-075R/L	0.75	0,0295	5.2	1.50	25
TD5-076R/L	0.76	0,0299	5.5	1.50	25
TD5-077R/L	0.77	0,0303	5.5	1.50	25
TD5-078R/L	0.78	0,0307	5.5	1.50	25
TD5-079R/L	0.79	0,0311	5.5	1.50	25
TD5-080R/L	0.80	0,0315	5.5	1.50	25
TD5-081R/L	0.81	0,0319	5.5	1.50	25
TD5-082R/L	0.82	0,0323	5.5	1.50	25
TD5-083R/L	0.83	0,0327	5.5	1.50	25
TD5-084R/L	0.84	0,0331	5.5	1.50	25
TD5-085R/L	0.85	0,0335	5.5	1.50	25

TD5-086R/L	0.86	0,0339	6.0	1.50	25
TD5-087R/L	0.87	0,0343	6.0	1.50	25
TD5-088R/L	0.88	0,0346	6.0	1.50	25
TD5-089R/L	0.89	0,035	6.0	1.50	25
TD5-090R/L	0.90	0,0354	6.0	1.50	25
TD5-091R/L	0.91	0,0358	6.0	1.50	25
TD5-092R/L	0.92	0,0362	6.0	1.50	25
TD5-093R/L	0.93	0,0366	6.0	1.50	25
TD5-094R/L	0.94	0,037	6.0	1.50	25
TD5-095R/L	0.95	0,0374	6.0	1.50	25
TD5-096R/L	0.96	0,0378	6.5	1.50	25
TD5-097R/L	0.97	0,0382	6.5	1.50	25
TD5-098R/L	0.98	0,0386	6.5	1.50	25
TD5-099R/L	0.99	0,039	6.5	1.50	25
TD5-100R/L	1.00	0,0394	6.5	1.50	25
TD5-101R/L	1.01	0,0398	6.5	1.50	25
TD5-102R/L	1.02	0,0402	6.5	1.50	25
TD5-103R/L	1.03	0,0406	6.5	1.50	25
TD5-104R/L	1.04	0,0409	6.5	1.50	25
TD5-105R/L	1.05	0,0413	6.5	1.50	25
TD5-106R/L	1.06	0,0417	7.0	1.50	25
TD5-107R/L	1.07	0,0421	7.0	1.50	25
TD5-108R/L	1.08	0,0425	7.0	1.50	25
TD5-109R/L	1.09	0,0429	7.0	1.50	25
TD5-110R/L	1.10	0,0433	7.0	1.50	25
TD5-111R/L	1.11	0,0437	7.0	1.50	25
TD5-112R/L	1.12	0,0441	7.0	1.50	25
TD5-113R/L	1.13	0,0445	7.0	1.50	25
TD5-114R/L	1.14	0,0449	7.0	1.50	25
TD5-115R/L	1.15	0,0453	7.0	1.50	25
TD5-116R/L	1.16	0,0457	7.5	1.50	25
TD5-117R/L	1.17	0,0461	7.5	1.50	25
TD5-118R/L	1.18	0,0465	7.5	1.50	25
TD5-119R/L	1.19	0,0469	7.5	1.50	25
TD5-120R/L	1.20	0,0472	7.5	1.50	25
TD5-121R/L	1.21	0,0476	7.5	1.50	25
TD5-122R/L	1.22	0,048	7.5	1.50	25
TD5-123R/L	1.23	0,0484	7.5	1.50	25
TD5-124R/L	1.24	0,0488	7.5	1.50	25
TD5-125R/L	1.25	0,0492	7.5	1.50	25
TD5-126R/L	1.26	0,0496	7.5	1.50	25
TD5-127R/L	1.27	0,05	7.5	1.50	25
TD5-128R/L	1.28	0,0504	7.5	1.50	25
TD5-129R/L	1.29	0,0508	7.5	1.50	25
TD5-130R/L	1.30	0,0512	7.5	1.50	25
TD5-131R/L	1.31	0,0516	8.5	1.50	25
TD5-132R/L	1.32	0,052	8.5	1.50	25
TD5-133R/L	1.33	0,0524	8.5	1.50	25
TD5-134R/L	1.34	0,0528	8.5	1.50	25
TD5-135R/L	1.35	0,0531	8.5	1.50	25

TD5-136R/L	1.36	0,0535	8.5	1.50	25
TD5-137R/L	1.37	0,0539	8.5	1.50	25
TD5-138R/L	1.38	0,0543	8.5	1.50	25
TD5-139R/L	1.39	0,0547	8.5	1.50	25
TD5-140R/L	1.40	0,0551	8.5	1.50	25
TD5-141R/L	1.41	0,0555	8.5	1.50	25
TD5-142R/L	1.42	0,0559	8.5	1.50	25
TD5-143R/L	1.43	0,0563	8.5	1.50	25
TD5-144R/L	1.44	0,0567	8.5	1.50	25
TD5-145R/L	1.45	0,0571	8.5	1.50	25
TD5-146R/L	1.46	0,0575	8.5	1.50	25
TD5-147R/L	1.47	0,0579	8.5	1.50	25
TD5-148R/L	1.48	0,0583	8.5	1.50	25
TD5-149R/L	1.49	0,0587	8.5	1.50	25
TD5-150R/L	1.50	0,0591	10	2.00	35
TD5-155R/L	1.55	0,061	10	2.00	35
TD5-160R/L	1.60	0,063	10	2.00	35
TD5-165R/L	1.65	0,065	10	2.00	35
TD5-170R/L	1.70	0,0669	10	2.00	35
TD5-175R/L	1.75	0,0689	10	2.00	35
TD5-180R/L	1.80	0,0709	11	2.00	35
TD5-185R/L	1.85	0,0728	11	2.00	35
TD5-190R/L	1.90	0,0748	11	2.00	35
TD5-195R/L	1.95	0,0768	11	2.00	35
TD5-200R/L	2.00	0,0787	11	2.00	35
TD5-210R/L	2.10	0,0827	12	2.50	35
TD5-220R/L	2.20	0,0866	12	2.50	35
TD5-230R/L	2.30	0,0906	14	2.50	35
TD5-240R/L	2.40	0,0945	14	2.50	35
TD5-250R/L	2.50	0,0984	14	2.50	35
TD5-260R/L	2.60	0,1024	16	3.00	40
TD5-270R/L	2.70	0,1063	16	3.00	40
TD5-280R/L	2.80	0,1102	18	3.00	40
TD5-290R/L	2.90	0,1142	18	3.00	40
TD5-300R/L	3.00	0,1181	18	3.00	40

PD120 - Center / Pilot Drill 120°

Z2

2xD

120°

H24°

R

Carbide (Sub-Micro Grain - Cobalt 10%)

For use prior to MD5, MD5.1 and MD7 series!

Materials: brass, aluminium, soft steel, medium steel, stainless steel, titanium, cast iron, others

Key features:

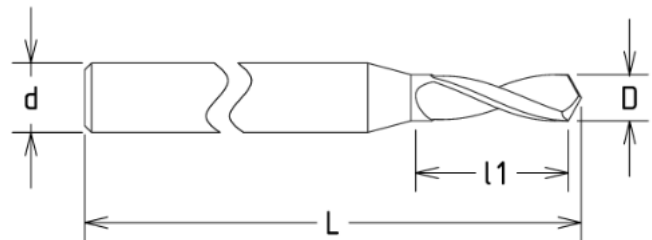
- Range from 0.20 mm to 3.00 mm - increments of 0.05/0.10 mm
- Special characteristics on request H15°, H24°, H30° - POINT 90°, 130°
- Packaging - 10 units per box

Benefits:

- Suitable for preparing deep hole drilling

Main characteristics:

- Tolerance h6 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
CPD120-020R	0.20	0,0079	0.9	1.50	30
CPD120-025R	0.25	0,0098	0.9	1.50	30
CPD120-030R	0.30	0,0118	0.9	1.50	30
CPD120-035R	0.35	0,0138	1.2	1.50	30
CPD120-040R	0.40	0,0157	1.5	1.50	30
CPD120-045R	0.45	0,0177	1.5	1.50	30
CPD120-050R	0.50	0,0197	1.9	1.50	30
CPD120-055R	0.55	0,0217	1.9	1.50	30
CPD120-060R	0.60	0,0236	1.9	1.50	30
CPD120-065R	0.65	0,0256	2.1	1.50	30
CPD120-070R	0.70	0,0276	2.4	1.50	30
CPD120-075R	0.75	0,0295	2.4	1.50	30
CPD120-080R	0.80	0,0315	2.6	1.50	30
CPD120-085R	0.85	0,0335	2.6	1.50	30
CPD120-090R	0.90	0,0354	3.0	1.50	30
CPD120-095R	0.95	0,0374	3.0	1.50	30
CPD120-100R	1.00	0,0394	3.4	1.50	30
CPD120-105R	1.05	0,0413	3.4	1.50	30
CPD120-110R	1.10	0,0433	3.8	1.50	30
CPD120-115R	1.15	0,0453	3.8	1.50	30
CPD120-120R	1.20	0,0472	4.2	1.50	30
CPD120-125R	1.25	0,0492	4.2	1.50	30
CPD120-130R	1.30	0,0512	4.2	1.50	30
CPD120-135R	1.35	0,0531	4.7	1.50	30
CPD120-140R	1.40	0,0551	4.7	1.50	30
CPD120-145R	1.45	0,0571	4.7	1.50	30

CPD120-150R	1.50	0,0591	4.7	2.00	38
CPD120-160R	1.60	0,063	5.4	2.00	38
CPD120-170R	1.70	0,0669	5.4	2.00	38
CPD120-180R	1.80	0,0709	6.5	2.00	38
CPD120-190R	1.90	0,0748	6.5	2.00	38
CPD120-200R	2.00	0,0787	6.5	3.00	38
CPD120-210R	2.10	0,0827	6.5	3.00	38
CPD120-220R	2.20	0,0866	6.5	3.00	38
CPD120-230R	2.30	0,0906	6.5	3.00	38
CPD120-240R	2.40	0,0945	6.5	3.00	38
CPD120-250R	2.50	0,0984	7.5	3.00	38
CPD120-260R	2.60	0,1024	7.5	3.00	38
CPD120-270R	2.70	0,1063	7.5	3.00	38
CPD120-280R	2.80	0,1102	7.5	3.00	38
CPD120-290R	2.90	0,1142	7.5	3.00	38
CPD120-300R	3.00	0,1181	7.5	3.00	38

SD90 - Spot Drill 90°

Z2

2xD

90°

H30°

R

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: brass, aluminium, soft steel, medium steel, stainless steel, titanium, cast iron, others

Key features:

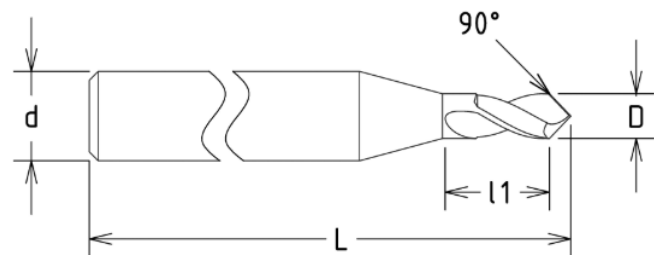
- Range from 0.50 mm to 3.00 mm - increments of 0.05/0.10 mm
- Other diameters and other point angles 60° / 120° on request
- Packaging - 10 units per box

Benefits:

- Suitable for preparing hole drilling with chamfer entrance

Main characteristics:

- Tolerance h6 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
SD90-050R	0.50	0,0197	2	2.00	30
SD90-055R	0.55	0,0217	2	2.00	30
SD90-060R	0.60	0,0236	2	2.00	30
SD90-065R	0.65	0,0256	2	2.00	30
SD90-070R	0.70	0,0276	2	2.00	30
SD90-075R	0.75	0,0295	2	2.00	30
SD90-080R	0.80	0,0315	2,5	2.00	30
SD90-085R	0.85	0,0335	2,5	2.00	30
SD90-090R	0.90	0,0354	2,5	2.00	30
SD90-095R	0.95	0,0374	2,5	2.00	30
SD90-100R	1.00	0,0394	2,5	2.00	30
SD90-105R	1.05	0,0413	2,5	2.00	30
SD90-110R	1.10	0,0433	2,5	2.00	30
SD90-115R	1.15	0,0453	2,5	2.00	30
SD90-120R	1.20	0,0472	2,5	2.00	30
SD90-125R	1.25	0,0492	3	2.00	30
SD90-130R	1.30	0,0512	3	2.00	30
SD90-135R	1.35	0,0531	3	2.00	30
SD90-140R	1.40	0,0551	3	2.00	30
SD90-145R	1.45	0,0571	3	2.00	30
SD90-150R	1.50	0,0591	3,5	2.00	30
SD90-160R	1.60	0,063	3,5	2.00	30
SD90-170R	1.70	0,0669	3,5	2.00	30
SD90-180R	1.80	0,0709	4	2.00	30
SD90-190R	1.90	0,0748	4	2.00	30

SD90-200R	2.00	0,0787	4	2.00	30
SD90-210R	2.10	0,0827	4,5	3.00	38
SD90-220R	2.20	0,0866	4,5	3.00	38
SD90-230R	2.30	0,0906	4,5	3.00	38
SD90-240R	2.40	0,0945	4,5	3.00	38
SD90-250R	2.50	0,0984	5	3.00	38
SD90-260R	2.60	0,1024	5	3.00	38
SD90-270R	2.70	0,1063	5	3.00	38
SD90-280R	2.80	0,1102	5	3.00	38
SD90-290R	2.90	0,1142	5	3.00	38
SD90-300R	3.00	0,1181	9	3.00	38

MD5 - Micro Drill

Z2

4-5xD

120°

H35°

R

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: brass, aluminium, soft steel, medium steel, stainless steel, titanium, cast iron, others

Key features:

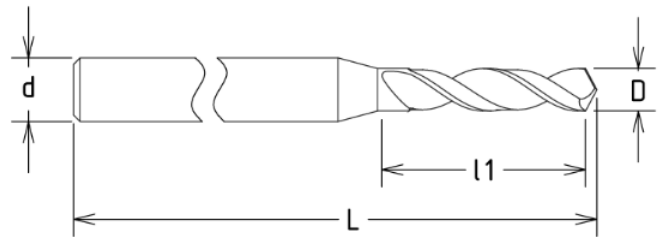
- Range from 0.20 mm to 3.00 mm - increments of 0.01 mm
- Special characteristics on request H15°, H24°, H30° - POINT 90°, 130°
- Packaging - 10 units per box

Benefits:

- Perfect surface finish for chip evacuation in high conditions of cutting

Main characteristics:

- Tolerance h6 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
MD5-020R	0.20	0,0079	1.1	1.00	25
MD5-021R	0.21	0,0083	1.1	1.00	25
MD5-022R	0.22	0,0087	1.1	1.00	25
MD5-023R	0.23	0,0091	1.1	1.00	25
MD5-024R	0.24	0,0094	1.1	1.00	25
MD5-025R	0.25	0,0098	1.3	1.00	25
MD5-026R	0.26	0,0102	1.3	1.00	25
MD5-027R	0.27	0,0106	1.3	1.00	25
MD5-028R	0.28	0,011	1.3	1.00	25
MD5-029R	0.29	0,0114	1.3	1.00	25
MD5-030R	0.30	0,0118	1.6	1.00	25
MD5-031R	0.31	0,0122	1.6	1.00	25
MD5-032R	0.32	0,0126	1.6	1.00	25
MD5-033R	0.33	0,013	1.6	1.00	25
MD5-034R	0.34	0,0134	1.6	1.00	25
MD5-035R	0.35	0,0138	1.6	1.00	25
MD5-036R	0.36	0,0142	1.6	1.00	25
MD5-037R	0.37	0,0146	1.6	1.00	25
MD5-038R	0.38	0,015	1.6	1.00	25
MD5-039R	0.39	0,0154	2.0	1.00	25
MD5-040R	0.40	0,0157	2.0	1.00	25
MD5-041R	0.41	0,0161	2.0	1.00	25
MD5-042R	0.42	0,0165	2.0	1.00	25
MD5-043R	0.43	0,0169	2.0	1.00	25
MD5-044R	0.44	0,0173	2.0	1.00	25

MD5-045R	0.45	0,0177	2.0	1.00	25
MD5-046R	0.46	0,0181	2.0	1.00	25
MD5-047R	0.47	0,0185	2.0	1.00	25
MD5-048R	0.48	0,0189	2.0	1.00	25
MD5-049R	0.49	0,0193	2.0	1.00	25
MD5-050R	0.50	0,0197	2.4	1.00	25
MD5-051R	0.51	0,0201	2.4	1.00	25
MD5-052R	0.52	0,0205	2.4	1.00	25
MD5-053R	0.53	0,0209	2.4	1.00	25
MD5-054R	0.54	0,0213	2.8	1.00	25
MD5-055R	0.55	0,0217	2.8	1.00	25
MD5-056R	0.56	0,022	2.8	1.00	25
MD5-057R	0.57	0,0224	2.8	1.00	25
MD5-058R	0.58	0,0228	2.8	1.00	25
MD5-059R	0.59	0,0232	2.8	1.00	25
MD5-060R	0.60	0,0236	2.8	1.50	30
MD5-061R	0.61	0,024	3.3	1.50	30
MD5-062R	0.62	0,0244	3.3	1.50	30
MD5-063R	0.63	0,0248	3.3	1.50	30
MD5-064R	0.64	0,0252	3.3	1.50	30
MD5-065R	0.65	0,0256	3.3	1.50	30
MD5-066R	0.66	0,026	3.3	1.50	30
MD5-067R	0.67	0,0264	3.3	1.50	30
MD5-068R	0.68	0,0268	3.8	1.50	30
MD5-069R	0.69	0,0272	3.8	1.50	30
MD5-070R	0.70	0,0276	3.8	1.50	30
MD5-071R	0.71	0,028	3.8	1.50	30
MD5-072R	0.72	0,0283	3.8	1.50	30
MD5-073R	0.73	0,0287	3.8	1.50	30
MD5-074R	0.74	0,0291	3.8	1.50	30
MD5-075R	0.75	0,0295	3.8	1.50	30
MD5-076R	0.76	0,0299	4.2	1.50	30
MD5-077R	0.77	0,0303	4.2	1.50	30
MD5-078R	0.78	0,0307	4.2	1.50	30
MD5-079R	0.79	0,0311	4.2	1.50	30
MD5-080R	0.80	0,0315	4.4	1.50	30
MD5-081R	0.81	0,0319	4.4	1.50	30
MD5-082R	0.82	0,0323	4.4	1.50	30
MD5-083R	0.83	0,0327	4.4	1.50	30
MD5-084R	0.84	0,0331	4.4	1.50	30
MD5-085R	0.85	0,0335	4.4	1.50	30
MD5-086R	0.86	0,0339	4.8	1.50	30
MD5-087R	0.87	0,0343	4.8	1.50	30
MD5-088R	0.88	0,0346	4.8	1.50	30
MD5-089R	0.89	0,035	4.8	1.50	30
MD5-090R	0.90	0,0354	4.8	1.50	30
MD5-091R	0.91	0,0358	4.8	1.50	30
MD5-092R	0.92	0,0362	4.8	1.50	30
MD5-093R	0.93	0,0366	4.8	1.50	30
MD5-094R	0.94	0,037	4.8	1.50	30

MD5-095R	0.95	0,0374	4.8	1.50	30
MD5-096R	0.96	0,0378	4.8	1.50	30
MD5-097R	0.97	0,0382	4.8	1.50	30
MD5-098R	0.98	0,0386	4.8	1.50	30
MD5-099R	0.99	0,039	4.8	1.50	30
MD5-100R	1.00	0,0394	4.8	1.50	30
MD5-101R	1.01	0,0398	4.8	1.50	30
MD5-102R	1.02	0,0402	4.8	1.50	30
MD5-103R	1.03	0,0406	4.8	1.50	30
MD5-104R	1.04	0,0409	4.8	1.50	30
MD5-105R	1.05	0,0413	4.8	1.50	30
MD5-106R	1.06	0,0417	4.8	1.50	30
MD5-107R	1.07	0,0421	4.8	1.50	30
MD5-108R	1.08	0,0425	4.8	1.50	30
MD5-109R	1.09	0,0429	4.8	1.50	30
MD5-110R	1.10	0,0433	5.4	1.50	30
MD5-111R	1.11	0,0437	5.4	1.50	30
MD5-112R	1.12	0,0441	5.4	1.50	30
MD5-113R	1.13	0,0445	5.4	1.50	30
MD5-114R	1.14	0,0449	5.4	1.50	30
MD5-115R	1.15	0,0453	5.4	1.50	30
MD5-116R	1.16	0,0457	5.4	1.50	30
MD5-117R	1.17	0,0461	5.4	1.50	30
MD5-118R	1.18	0,0465	5.4	1.50	30
MD5-119R	1.19	0,0469	5.4	1.50	30
MD5-120R	1.20	0,0472	6.0	1.50	30
MD5-121R	1.21	0,0476	6.0	1.50	30
MD5-122R	1.22	0,048	6.0	1.50	30
MD5-123R	1.23	0,0484	6.0	1.50	30
MD5-124R	1.24	0,0488	6.0	1.50	30
MD5-125R	1.25	0,0492	6.0	1.50	30
MD5-126R	1.26	0,0496	6.0	1.50	30
MD5-127R	1.27	0,05	6.0	1.50	30
MD5-128R	1.28	0,0504	6.0	1.50	30
MD5-129R	1.29	0,0508	6.0	1.50	30
MD5-130R	1.30	0,0512	6.7	1.50	30
MD5-131R	1.31	0,0516	6.7	1.50	30
MD5-132R	1.32	0,052	6.7	1.50	30
MD5-133R	1.33	0,0524	6.7	1.50	30
MD5-134R	1.34	0,0528	6.7	1.50	30
MD5-135R	1.35	0,0531	6.7	1.50	30
MD5-136R	1.36	0,0535	6.7	1.50	30
MD5-137R	1.37	0,0539	6.7	1.50	30
MD5-138R	1.38	0,0543	6.7	1.50	30
MD5-139R	1.39	0,0547	6.7	1.50	30
MD5-140R	1.40	0,0551	6.7	1.50	30
MD5-141R	1.41	0,0555	6.7	1.50	30
MD5-142R	1.42	0,0559	6.7	1.50	30
MD5-143R	1.43	0,0563	6.7	1.50	30
MD5-144R	1.44	0,0567	6.7	1.50	30

MD5-145R	1.45	0,0571	6.7	1.50	30
MD5-146R	1.46	0,0575	6.7	1.50	30
MD5-147R	1.47	0,0579	6.7	1.50	30
MD5-148R	1.48	0,0583	6.7	1.50	30
MD5-149R	1.49	0,0587	6.7	1.50	30
MD5-150R	1.50	0,0591	7.2	2.00	38
MD5-151R	1.51	0,0594	7.2	2.00	38
MD5-152R	1.52	0,0598	7.2	2.00	38
MD5-153R	1.53	0,0602	7.2	2.00	38
MD5-154R	1.54	0,0606	7.2	2.00	38
MD5-155R	1.55	0,061	7.2	2.00	38
MD5-156R	1.56	0,0614	7.2	2.00	38
MD5-157R	1.57	0,0618	7.2	2.00	38
MD5-158R	1.58	0,0622	7.2	2.00	38
MD5-159R	1.59	0,0626	7.2	2.00	38
MD5-160R	1.60	0,063	7.2	2.00	38
MD5-161R	1.61	0,0634	7.2	2.00	38
MD5-162R	1.62	0,0638	7.2	2.00	38
MD5-163R	1.63	0,0642	7.2	2.00	38
MD5-164R	1.64	0,0646	7.2	2.00	38
MD5-165R	1.65	0,065	7.2	2.00	38
MD5-166R	1.66	0,0654	7.2	2.00	38
MD5-167R	1.67	0,0657	7.2	2.00	38
MD5-168R	1.68	0,0661	7.2	2.00	38
MD5-169R	1.69	0,0665	7.2	2.00	38
MD5-170R	1.70	0,0669	7.2	2.00	38
MD5-171R	1.71	0,0673	7.2	2.00	38
MD5-172R	1.72	0,0677	7.2	2.00	38
MD5-173R	1.73	0,0681	7.2	2.00	38
MD5-174R	1.74	0,0685	7.2	2.00	38
MD5-175R	1.75	0,0689	7.2	2.00	38
MD5-176R	1.76	0,0693	7.2	2.00	38
MD5-177R	1.77	0,0697	7.2	2.00	38
MD5-178R	1.78	0,0701	7.2	2.00	38
MD5-179R	1.79	0,0705	7.2	2.00	38
MD5-180R	1.80	0,0709	8.4	2.00	38
MD5-181R	1.81	0,0713	8.4	2.00	38
MD5-182R	1.82	0,0717	8.4	2.00	38
MD5-183R	1.83	0,072	8.4	2.00	38
MD5-184R	1.84	0,0724	8.4	2.00	38
MD5-185R	1.85	0,0728	8.4	2.00	38
MD5-186R	1.86	0,0732	8.4	2.00	38
MD5-187R	1.87	0,0736	8.4	2.00	38
MD5-188R	1.88	0,074	8.4	2.00	38
MD5-189R	1.89	0,0744	8.4	2.00	38
MD5-190R	1.90	0,0748	8.4	2.00	38
MD5-191R	1.91	0,0752	8.4	2.00	38
MD5-192R	1.92	0,0756	8.4	2.00	38
MD5-193R	1.93	0,076	8.4	2.00	38
MD5-194R	1.94	0,0764	8.4	2.00	38

MD5-195R	1.95	0,0768	8.4	2.00	38
MD5-196R	1.96	0,0772	8.4	2.00	38
MD5-197R	1.97	0,0776	8.4	2.00	38
MD5-198R	1.98	0,078	8.4	2.00	38
MD5-199R	1.99	0,0783	8.4	2.00	38
MD5-200R	2.00	0,0787	12.0	3.00	38
MD5-201R	2.01	0,0791	12.0	3.00	38
MD5-202R	2.02	0,0795	12.0	3.00	38
MD5-203R	2.03	0,0799	12.0	3.00	38
MD5-204R	2.04	0,0803	12.0	3.00	38
MD5-205R	2.05	0,0807	12.0	3.00	38
MD5-206R	2.06	0,0811	12.0	3.00	38
MD5-207R	2.07	0,0815	12.0	3.00	38
MD5-208R	2.08	0,0819	12.0	3.00	38
MD5-209R	2.09	0,0823	12.0	3.00	38
MD5-210R	2.10	0,0827	12.0	3.00	38
MD5-211R	2.11	0,0831	12.0	3.00	38
MD5-212R	2.12	0,0835	12.0	3.00	38
MD5-213R	2.13	0,0839	12.0	3.00	38
MD5-214R	2.14	0,0843	12.0	3.00	38
MD5-215R	2.15	0,0846	12.0	3.00	38
MD5-216R	2.16	0,085	12.0	3.00	38
MD5-217R	2.17	0,0854	12.0	3.00	38
MD5-218R	2.18	0,0858	12.0	3.00	38
MD5-219R	2.19	0,0862	12.0	3.00	38
MD5-220R	2.20	0,0866	12.0	3.00	38
MD5-221R	2.21	0,087	12.0	3.00	38
MD5-222R	2.22	0,0874	12.0	3.00	38
MD5-223R	2.23	0,0878	12.0	3.00	38
MD5-224R	2.24	0,0882	12.0	3.00	38
MD5-225R	2.25	0,0886	12.0	3.00	38
MD5-226R	2.26	0,089	12.0	3.00	38
MD5-227R	2.27	0,0894	12.0	3.00	38
MD5-228R	2.28	0,0898	12.0	3.00	38
MD5-229R	2.29	0,0902	12.0	3.00	38
MD5-230R	2.30	0,0906	12.0	3.00	38
MD5-231R	2.31	0,0909	12.0	3.00	38
MD5-232R	2.32	0,0913	12.0	3.00	38
MD5-233R	2.33	0,0917	12.0	3.00	38
MD5-234R	2.34	0,0921	12.0	3.00	38
MD5-235R	2.35	0,0925	12.0	3.00	38
MD5-236R	2.36	0,0929	12.0	3.00	38
MD5-237R	2.37	0,0933	12.0	3.00	38
MD5-238R	2.38	0,0937	12.0	3.00	38
MD5-239R	2.39	0,0941	12.0	3.00	38
MD5-240R	2.40	0,0945	12.0	3.00	38
MD5-241R	2.41	0,0949	12.0	3.00	38
MD5-242R	2.42	0,0953	12.0	3.00	38
MD5-243R	2.43	0,0957	12.0	3.00	38
MD5-244R	2.44	0,0961	12.0	3.00	38

MD5-245R	2.45	0,0965	12.0	3.00	38
MD5-246R	2.46	0,0969	12.0	3.00	38
MD5-247R	2.47	0,0972	12.0	3.00	38
MD5-248R	2.48	0,0976	12.0	3.00	38
MD5-249R	2.49	0,098	12.0	3.00	38
MD5-250R	2.50	0,0984	14.0	3.00	38
MD5-251R	2.51	0,0988	14.0	3.00	38
MD5-252R	2.52	0,0992	14.0	3.00	38
MD5-253R	2.53	0,0996	14.0	3.00	38
MD5-254R	2.54	0,1	14.0	3.00	38
MD5-255R	2.55	0,1004	14.0	3.00	38
MD5-256R	2.56	0,1008	14.0	3.00	38
MD5-257R	2.57	0,1012	14.0	3.00	38
MD5-258R	2.58	0,1016	14.0	3.00	38
MD5-259R	2.59	0,102	14.0	3.00	38
MD5-260R	2.60	0,1024	14.0	3.00	38
MD5-261R	2.61	0,1028	14.0	3.00	38
MD5-262R	2.62	0,1031	14.0	3.00	38
MD5-263R	2.63	0,1035	14.0	3.00	38
MD5-264R	2.64	0,1039	14.0	3.00	38
MD5-265R	2.65	0,1043	14.0	3.00	38
MD5-266R	2.66	0,1047	14.0	3.00	38
MD5-267R	2.67	0,1051	14.0	3.00	38
MD5-268R	2.68	0,1055	14.0	3.00	38
MD5-269R	2.69	0,1059	14.0	3.00	38
MD5-270R	2.70	0,1063	14.0	3.00	38
MD5-271R	2.71	0,1067	14.0	3.00	38
MD5-272R	2.72	0,1071	14.0	3.00	38
MD5-273R	2.73	0,1075	14.0	3.00	38
MD5-274R	2.74	0,1079	14.0	3.00	38
MD5-275R	2.75	0,1083	14.0	3.00	38
MD5-276R	2.76	0,1087	14.0	3.00	38
MD5-277R	2.77	0,1091	14.0	3.00	38
MD5-278R	2.78	0,1094	14.0	3.00	38
MD5-279R	2.79	0,1098	14.0	3.00	38
MD5-280R	2.80	0,1102	14.0	3.00	38
MD5-281R	2.81	0,1106	14.0	3.00	38
MD5-282R	2.82	0,111	14.0	3.00	38
MD5-283R	2.83	0,1114	14.0	3.00	38
MD5-284R	2.84	0,1118	14.0	3.00	38
MD5-285R	2.85	0,1122	14.0	3.00	38
MD5-286R	2.86	0,1126	14.0	3.00	38
MD5-287R	2.87	0,113	14.0	3.00	38
MD5-288R	2.88	0,1134	14.0	3.00	38
MD5-289R	2.89	0,1138	14.0	3.00	38
MD5-290R	2.90	0,1142	14.0	3.00	38
MD5-291R	2.91	0,1146	14.0	3.00	38
MD5-292R	2.92	0,115	14.0	3.00	38
MD5-293R	2.93	0,1154	14.0	3.00	38
MD5-294R	2.94	0,1157	14.0	3.00	38

MD5-295R	2.95	0,1161	14.0	3.00	38
MD5-296R	2.96	0,1165	14.0	3.00	38
MD5-297R	2.97	0,1169	14.0	3.00	38
MD5-298R	2.98	0,1173	14.0	3.00	38
MD5-299R	2.99	0,1177	14.0	3.00	38
MD5-300R	3.00	0,1181	14.0	3.00	38

MD5.1 - Micro Drill (Shank - 3,00 mm)

Z2

4-5xD

120°

H35°

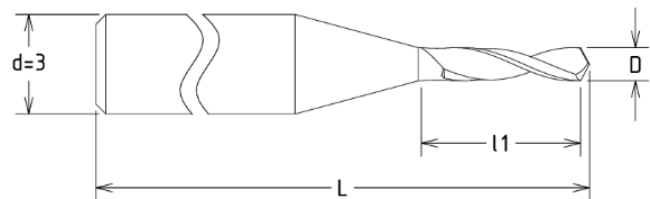
R

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: brass, aluminium, soft steel, medium steel, stainless steel, titanium, cast iron, others

Key features:

- Range from 0.20 mm to 3.00 mm - increments of 0.01 mm
- Special characteristics on request H15°, H24°, H30° - POINT 90°, 130°
- Packaging - 10 units per box



Benefits:

- Perfect surface finish for chip evacuation in high conditions of cutting

Main characteristics:

- Tolerance h6 on D
- Right cut

Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
MD5.1-020R	0.20	0.0079	1.1	3.00	38
MD5.1-021R	0.21	0,0083	1.1	3.00	38
MD5.1-022R	0.22	0,0087	1.1	3.00	38
MD5.1-023R	0.23	0,0091	1.1	3.00	38
MD5.1-024R	0.24	0,0094	1.1	3.00	38
MD5.1-025R	0.25	0,0098	1.3	3.00	38
MD5.1-026R	0.26	0,0102	1.3	3.00	38
MD5.1-027R	0.27	0,0106	1.3	3.00	38
MD5.1-028R	0.28	0,011	1.3	3.00	38
MD5.1-029R	0.29	0,0114	1.3	3.00	38
MD5.1-030R	0.30	0,0118	1.6	3.00	38
MD5.1-031R	0.31	0,0122	1.6	3.00	38
MD5.1-032R	0.32	0,0126	1.6	3.00	38
MD5.1-033R	0.33	0,013	1.6	3.00	38
MD5.1-034R	0.34	0,0134	1.6	3.00	38
MD5.1-035R	0.35	0,0138	1.6	3.00	38
MD5.1-036R	0.36	0,0142	1.6	3.00	38
MD5.1-037R	0.37	0,0146	1.6	3.00	38
MD5.1-038R	0.38	0,015	1.6	3.00	38
MD5.1-039R	0.39	0,0154	2.0	3.00	38
MD5.1-040R	0.40	0,0157	2.0	3.00	38
MD5.1-041R	0.41	0,0161	2.0	3.00	38
MD5.1-042R	0.42	0,0165	2.0	3.00	38
MD5.1-043R	0.43	0,0169	2.0	3.00	38

MD5.1-044R	0.44	0,0173	2.0	3.00	38
MD5.1-045R	0.45	0,0177	2.0	3.00	38
MD5.1-046R	0.46	0,0181	2.0	3.00	38
MD5.1-047R	0.47	0,0185	2.0	3.00	38
MD5.1-048R	0.48	0,0189	2.0	3.00	38
MD5.1-049R	0.49	0,0193	2.0	3.00	38
MD5.1-050R	0.50	0,0197	2.4	3.00	38
MD5.1-051R	0.51	0,0201	2.4	3.00	38
MD5.1-052R	0.52	0,0205	2.4	3.00	38
MD5.1-053R	0.53	0,0209	2.4	3.00	38
MD5.1-054R	0.54	0,0213	2.8	3.00	38
MD5.1-055R	0.55	0,0217	2.8	3.00	38
MD5.1-056R	0.56	0,022	2.8	3.00	38
MD5.1-057R	0.57	0,0224	2.8	3.00	38
MD5.1-058R	0.58	0,0228	2.8	3.00	38
MD5.1-059R	0.59	0,0232	2.8	3.00	38
MD5.1-060R	0.60	0,0236	2.8	3.00	38
MD5.1-061R	0.61	0,024	3.3	3.00	38
MD5.1-062R	0.62	0,0244	3.3	3.00	38
MD5.1-063R	0.63	0,0248	3.3	3.00	38
MD5.1-064R	0.64	0,0252	3.3	3.00	38
MD5.1-065R	0.65	0,0256	3.3	3.00	38
MD5.1-066R	0.66	0,026	3.3	3.00	38
MD5.1-067R	0.67	0,0264	3.3	3.00	38
MD5.1-068R	0.68	0,0268	3.8	3.00	38
MD5.1-069R	0.69	0,0272	3.8	3.00	38
MD5.1-070R	0.70	0,0276	3.8	3.00	38
MD5.1-071R	0.71	0,028	3.8	3.00	38
MD5.1-072R	0.72	0,0283	3.8	3.00	38
MD5.1-073R	0.73	0,0287	3.8	3.00	38
MD5.1-074R	0.74	0,0291	3.8	3.00	38
MD5.1-075R	0.75	0,0295	3.8	3.00	38
MD5.1-076R	0.76	0,0299	4.2	3.00	38
MD5.1-077R	0.77	0,0303	4.2	3.00	38
MD5.1-078R	0.78	0,0307	4.2	3.00	38
MD5.1-079R	0.79	0,0311	4.2	3.00	38
MD5.1-080R	0.80	0,0315	4.4	3.00	38
MD5.1-081R	0.81	0,0319	4.4	3.00	38
MD5.1-082R	0.82	0,0323	4.4	3.00	38
MD5.1-083R	0.83	0,0327	4.4	3.00	38
MD5.1-084R	0.84	0,0331	4.4	3.00	38
MD5.1-085R	0.85	0,0335	4.4	3.00	38
MD5.1-086R	0.86	0,0339	4.8	3.00	38
MD5.1-087R	0.87	0,0343	4.8	3.00	38
MD5.1-088R	0.88	0,0346	4.8	3.00	38
MD5.1-089R	0.89	0,035	4.8	3.00	38
MD5.1-090R	0.90	0,0354	4.8	3.00	38
MD5.1-091R	0.91	0,0358	4.8	3.00	38
MD5.1-092R	0.92	0,0362	4.8	3.00	38
MD5.1-093R	0.93	0,0366	4.8	3.00	38

MD5.1-094R	0.94	0,037	4.8	3.00	38
MD5.1-095R	0.95	0,0374	4.8	3.00	38
MD5.1-096R	0.96	0,0378	4.8	3.00	38
MD5.1-097R	0.97	0,0382	4.8	3.00	38
MD5.1-098R	0.98	0,0386	4.8	3.00	38
MD5.1-099R	0.99	0,039	4.8	3.00	38
MD5.1-100R	1.00	0,0394	4.8	3.00	38
MD5.1-101R	1.01	0,0398	4.8	3.00	38
MD5.1-102R	1.02	0,0402	4.8	3.00	38
MD5.1-103R	1.03	0,0406	4.8	3.00	38
MD5.1-104R	1.04	0,0409	4.8	3.00	38
MD5.1-105R	1.05	0,0413	4.8	3.00	38
MD5.1-106R	1.06	0,0417	4.8	3.00	38
MD5.1-107R	1.07	0,0421	4.8	3.00	38
MD5.1-108R	1.08	0,0425	4.8	3.00	38
MD5.1-109R	1.09	0,0429	4.8	3.00	38
MD5.1-110R	1.10	0,0433	5.4	3.00	38
MD5.1-111R	1.11	0,0437	5.4	3.00	38
MD5.1-112R	1.12	0,0441	5.4	3.00	38
MD5.1-113R	1.13	0,0445	5.4	3.00	38
MD5.1-114R	1.14	0,0449	5.4	3.00	38
MD5.1-115R	1.15	0,0453	5.4	3.00	38
MD5.1-116R	1.16	0,0457	5.4	3.00	38
MD5.1-117R	1.17	0,0461	5.4	3.00	38
MD5.1-118R	1.18	0,0465	5.4	3.00	38
MD5.1-119R	1.19	0,0469	5.4	3.00	38
MD5.1-120R	1.20	0,0472	6.0	3.00	38
MD5.1-121R	1.21	0,0476	6.0	3.00	38
MD5.1-122R	1.22	0,048	6.0	3.00	38
MD5.1-123R	1.23	0,0484	6.0	3.00	38
MD5.1-124R	1.24	0,0488	6.0	3.00	38
MD5.1-125R	1.25	0,0492	6.0	3.00	38
MD5.1-126R	1.26	0,0496	6.0	3.00	38
MD5.1-127R	1.27	0,05	6.0	3.00	38
MD5.1-128R	1.28	0,0504	6.0	3.00	38
MD5.1-129R	1.29	0,0508	6.0	3.00	38
MD5.1-130R	1.30	0,0512	6.7	3.00	38
MD5.1-131R	1.31	0,0516	6.7	3.00	38
MD5.1-132R	1.32	0,052	6.7	3.00	38
MD5.1-133R	1.33	0,0524	6.7	3.00	38
MD5.1-134R	1.34	0,0528	6.7	3.00	38
MD5.1-135R	1.35	0,0531	6.7	3.00	38
MD5.1-136R	1.36	0,0535	6.7	3.00	38
MD5.1-137R	1.37	0,0539	6.7	3.00	38
MD5.1-138R	1.38	0,0543	6.7	3.00	38
MD5.1-139R	1.39	0,0547	6.7	3.00	38
MD5.1-140R	1.40	0,0551	6.7	3.00	38
MD5.1-141R	1.41	0,0555	6.7	3.00	38
MD5.1-142R	1.42	0,0559	6.7	3.00	38
MD5.1-143R	1.43	0,0563	6.7	3.00	38

MD5.1-144R	1.44	0,0567	6.7	3.00	38
MD5.1-145R	1.45	0,0571	6.7	3.00	38
MD5.1-146R	1.46	0,0575	6.7	3.00	38
MD5.1-147R	1.47	0,0579	6.7	3.00	38
MD5.1-148R	1.48	0,0583	6.7	3.00	38
MD5.1-149R	1.49	0,0587	6.7	3.00	38
MD5.1-150R	1.50	0,0591	7.2	3.00	38
MD5.1-151R	1.51	0,0594	7.2	3.00	38
MD5.1-152R	1.52	0,0598	7.2	3.00	38
MD5.1-153R	1.53	0,0602	7.2	3.00	38
MD5.1-154R	1.54	0,0606	7.2	3.00	38
MD5.1-155R	1.55	0,061	7.2	3.00	38
MD5.1-156R	1.56	0,0614	7.2	3.00	38
MD5.1-157R	1.57	0,0618	7.2	3.00	38
MD5.1-158R	1.58	0,0622	7.2	3.00	38
MD5.1-159R	1.59	0,0626	7.2	3.00	38
MD5.1-160R	1.60	0,063	7.2	3.00	38
MD5.1-161R	1.61	0,0634	7.2	3.00	38
MD5.1-162R	1.62	0,0638	7.2	3.00	38
MD5.1-163R	1.63	0,0642	7.2	3.00	38
MD5.1-164R	1.64	0,0646	7.2	3.00	38
MD5.1-165R	1.65	0,065	7.2	3.00	38
MD5.1-166R	1.66	0,0654	7.2	3.00	38
MD5.1-167R	1.67	0,0657	7.2	3.00	38
MD5.1-168R	1.68	0,0661	7.2	3.00	38
MD5.1-169R	1.69	0,0665	7.2	3.00	38
MD5.1-170R	1.70	0,0669	7.2	3.00	38
MD5.1-171R	1.71	0,0673	7.2	3.00	38
MD5.1-172R	1.72	0,0677	7.2	3.00	38
MD5.1-173R	1.73	0,0681	7.2	3.00	38
MD5.1-174R	1.74	0,0685	7.2	3.00	38
MD5.1-175R	1.75	0,0689	7.2	3.00	38
MD5.1-176R	1.76	0,0693	7.2	3.00	38
MD5.1-177R	1.77	0,0697	7.2	3.00	38
MD5.1-178R	1.78	0,0701	7.2	3.00	38
MD5.1-179R	1.79	0,0705	7.2	3.00	38
MD5.1-180R	1.80	0,0709	8.4	3.00	38
MD5.1-181R	1.81	0,0713	8.4	3.00	38
MD5.1-182R	1.82	0,0717	8.4	3.00	38
MD5.1-183R	1.83	0,072	8.4	3.00	38
MD5.1-184R	1.84	0,0724	8.4	3.00	38
MD5.1-185R	1.85	0,0728	8.4	3.00	38
MD5.1-186R	1.86	0,0732	8.4	3.00	38
MD5.1-187R	1.87	0,0736	8.4	3.00	38
MD5.1-188R	1.88	0,074	8.4	3.00	38
MD5.1-189R	1.89	0,0744	8.4	3.00	38
MD5.1-190R	1.90	0,0748	8.4	3.00	38
MD5.1-191R	1.91	0,0752	8.4	3.00	38
MD5.1-192R	1.92	0,0756	8.4	3.00	38
MD5.1-193R	1.93	0,076	8.4	3.00	38

MD5.1-194R	1.94	0,0764	8.4	3.00	38
MD5.1-195R	1.95	0,0768	8.4	3.00	38
MD5.1-196R	1.96	0,0772	8.4	3.00	38
MD5.1-197R	1.97	0,0776	8.4	3.00	38
MD5.1-198R	1.98	0,078	8.4	3.00	38
MD5.1-199R	1.99	0,0783	8.4	3.00	38
MD5.1-200R	2.00	0,0787	12.0	3.00	38

MD7 - Micro Drill

Z2

5-7xD

120°

H35°

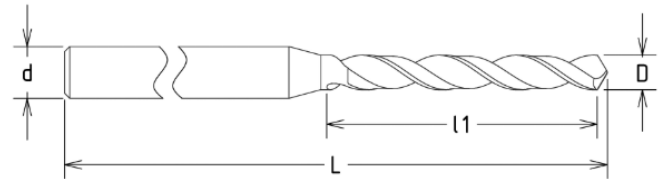
R

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: brass, aluminium, soft steel, medium steel, stainless steel, titanium, cast iron, others

Key features:

- Range from 0.10 mm to 2.00 mm - increments of 0.01 mm
- Special characteristics on request H15°, H24°, H30° - POINT 90°, 130°
- Packaging - 10 units per box



Benefits:

- Perfect surface finish for chip evacuation in high conditions of cutting

Main characteristics:

- Tolerance h6 on D
- Right cut

Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
MD7-010R	0.10	0,0039	0.5	1.00	25
MD7-011R	0.11	0,0043	0.5	1.00	25
MD7-012R	0.12	0,0047	0.5	1.00	25
MD7-013R	0.13	0,0051	0,6	1.00	25
MD7-014R	0.14	0,0055	0.7	1.00	25
MD7-015R	0.15	0,0059	1.0	1.00	25
MD7-016R	0.16	0,0063	1.0	1.00	25
MD7-017R	0.17	0,0067	1.0	1.00	25
MD7-018R	0.18	0,0071	1.0	1.00	25
MD7-019R	0.19	0,0075	1.0	1.00	25
MD7-020R	0.20	0,0079	1.8	1.00	25
MD7-021R	0.21	0,0083	1.8	1.00	25
MD7-022R	0.22	0,0087	1.8	1.00	25
MD7-023R	0.23	0,0091	1.8	1.00	25
MD7-024R	0.24	0,0094	1.8	1.00	25
MD7-025R	0.25	0,0098	2.2	1.00	25
MD7-026R	0.26	0,0102	2.2	1.00	25
MD7-027R	0.27	0,0106	2.2	1.00	25
MD7-028R	0.28	0,011	2.2	1.00	25
MD7-029R	0.29	0,0114	2.2	1.00	25
MD7-030R	0.30	0,0118	2.2	1.00	25
MD7-031R	0.31	0,0122	2.8	1.00	25
MD7-032R	0.32	0,0126	2.8	1.00	25
MD7-033R	0.33	0,013	2.8	1.00	25
MD7-034R	0.34	0,0134	2.8	1.00	25

MD7-035R	0.35	0,0138	2.8	1.00	25
MD7-036R	0.36	0,0142	2.8	1.00	25
MD7-037R	0.37	0,0146	2.8	1.00	25
MD7-038R	0.38	0,015	2.8	1.00	25
MD7-039R	0.39	0,0154	3.6	1.00	25
MD7-040R	0.40	0,0157	3.6	1.00	25
MD7-041R	0.41	0,0161	3.6	1.00	25
MD7-042R	0.42	0,0165	3.6	1.00	25
MD7-043R	0.43	0,0169	3.6	1.00	25
MD7-044R	0.44	0,0173	3.6	1.00	25
MD7-045R	0.45	0,0177	3.6	1.00	25
MD7-046R	0.46	0,0181	3.6	1.00	25
MD7-047R	0.47	0,0185	3.6	1.00	25
MD7-048R	0.48	0,0189	3.6	1.00	25
MD7-049R	0.49	0,0193	4.0	1.00	25
MD7-050R	0.50	0,0197	4.0	1.00	25
MD7-051R	0.51	0,0201	4.0	1.00	25
MD7-052R	0.52	0,0205	4.0	1.00	25
MD7-053R	0.53	0,0209	4.0	1.00	25
MD7-054R	0.54	0,0213	4.0	1.00	25
MD7-055R	0.55	0,0217	4.5	1.00	25
MD7-056R	0.56	0,022	4.5	1.00	25
MD7-057R	0.57	0,0224	4.5	1.00	25
MD7-058R	0.58	0,0228	4.5	1.00	25
MD7-059R	0.59	0,0232	4.5	1.00	25
MD7-060R	0.60	0,0236	4.5	1.50	30
MD7-061R	0.61	0,024	5.0	1.50	30
MD7-062R	0.62	0,0244	5.0	1.50	30
MD7-063R	0.63	0,0248	5.0	1.50	30
MD7-064R	0.64	0,0252	5.0	1.50	30
MD7-065R	0.65	0,0256	5.0	1.50	30
MD7-066R	0.66	0,026	5.0	1.50	30
MD7-067R	0.67	0,0264	5.0	1.50	30
MD7-068R	0.68	0,0268	5.0	1.50	30
MD7-069R	0.69	0,0272	5.6	1.50	30
MD7-070R	0.70	0,0276	5.6	1.50	30
MD7-071R	0.71	0,028	5.6	1.50	30
MD7-072R	0.72	0,0283	5.6	1.50	30
MD7-073R	0.73	0,0287	5.6	1.50	30
MD7-074R	0.74	0,0291	5.6	1.50	30
MD7-075R	0.75	0,0295	5.6	1.50	30
MD7-076R	0.76	0,0299	6.3	1.50	30
MD7-077R	0.77	0,0303	6.3	1.50	30
MD7-078R	0.78	0,0307	6.3	1.50	30
MD7-079R	0.79	0,0311	6.3	1.50	30
MD7-080R	0.80	0,0315	6.3	1.50	30
MD7-081R	0.81	0,0319	6.3	1.50	30
MD7-082R	0.82	0,0323	6.3	1.50	30
MD7-083R	0.83	0,0327	6.3	1.50	30
MD7-084R	0.84	0,0331	6.3	1.50	30

MD7-085R	0.85	0,0335	6.3	1.50	30
MD7-086R	0.86	0,0339	7.1	1.50	30
MD7-087R	0.87	0,0343	7.1	1.50	30
MD7-088R	0.88	0,0346	7.1	1.50	30
MD7-089R	0.89	0,035	7.1	1.50	30
MD7-090R	0.90	0,0354	7.1	1.50	30
MD7-091R	0.91	0,0358	7.1	1.50	30
MD7-092R	0.92	0,0362	7.1	1.50	30
MD7-093R	0.93	0,0366	7.1	1.50	30
MD7-094R	0.94	0,037	7.1	1.50	30
MD7-095R	0.95	0,0374	7.1	1.50	30
MD7-096R	0.96	0,0378	8.0	1.50	30
MD7-097R	0.97	0,0382	8.0	1.50	30
MD7-098R	0.98	0,0386	8.0	1.50	30
MD7-099R	0.99	0,039	8.0	1.50	30
MD7-100R	1.00	0,0394	8.0	1.50	30
MD7-101R	1.01	0,0398	8.0	1.50	30
MD7-102R	1.02	0,0402	8.0	1.50	30
MD7-103R	1.03	0,0406	8.0	1.50	30
MD7-104R	1.04	0,0409	8.0	1.50	30
MD7-105R	1.05	0,0413	8.0	1.50	30
MD7-106R	1.06	0,0417	9.0	1.50	30
MD7-107R	1.07	0,0421	9.0	1.50	30
MD7-108R	1.08	0,0425	9.0	1.50	30
MD7-109R	1.09	0,0429	9.0	1.50	30
MD7-110R	1.10	0,0433	9.0	1.50	30
MD7-111R	1.11	0,0437	9.0	1.50	30
MD7-112R	1.12	0,0441	9.0	1.50	30
MD7-113R	1.13	0,0445	9.0	1.50	30
MD7-114R	1.14	0,0449	9.0	1.50	30
MD7-115R	1.15	0,0453	9.0	1.50	30
MD7-116R	1.16	0,0457	10	1.50	30
MD7-117R	1.17	0,0461	10	1.50	30
MD7-118R	1.18	0,0465	10	1.50	30
MD7-119R	1.19	0,0469	10	1.50	30
MD7-120R	1.20	0,0472	10	1.50	30
MD7-121R	1.21	0,0476	10	1.50	30
MD7-122R	1.22	0,048	10	1.50	30
MD7-123R	1.23	0,0484	10	1.50	30
MD7-124R	1.24	0,0488	10	1.50	30
MD7-125R	1.25	0,0492	10	1.50	30
MD7-126R	1.26	0,0496	10	1.50	30
MD7-127R	1.27	0,05	10	1.50	30
MD7-128R	1.28	0,0504	10	1.50	30
MD7-129R	1.29	0,0508	10	1.50	30
MD7-130R	1.30	0,0512	10	1.50	30
MD7-131R	1.31	0,0516	11.2	1.50	30
MD7-132R	1.32	0,052	11.2	1.50	30
MD7-133R	1.33	0,0524	11.2	1.50	30
MD7-134R	1.34	0,0528	11.2	1.50	30

MD7-135R	1.35	0,0531	11.2	1.50	30
MD7-136R	1.36	0,0535	11.2	1.50	30
MD7-137R	1.37	0,0539	11.2	1.50	30
MD7-138R	1.38	0,0543	11.2	1.50	30
MD7-139R	1.39	0,0547	11.2	1.50	30
MD7-140R	1.40	0,0551	11.2	1.50	30
MD7-141R	1.41	0,0555	11.2	1.50	30
MD7-142R	1.42	0,0559	11.2	1.50	30
MD7-143R	1.43	0,0563	11.2	1.50	30
MD7-144R	1.44	0,0567	11.2	1.50	30
MD7-145R	1.45	0,0571	11.2	1.50	30
MD7-146R	1.46	0,0575	11.2	1.50	30
MD7-147R	1.47	0,0579	11.2	1.50	30
MD7-148R	1.48	0,0583	11.2	1.50	30
MD7-149R	1.49	0,0587	11.2	1.50	30
MD7-150R	1.50	0,0591	12	2.00	38
MD7-151R	1.51	0,0594	12	2.00	38
MD7-152R	1.52	0,0598	12	2.00	38
MD7-153R	1.53	0,0602	12	2.00	38
MD7-154R	1.54	0,0606	12	2.00	38
MD7-155R	1.55	0,061	12	2.00	38
MD7-156R	1.56	0,0614	12	2.00	38
MD7-157R	1.57	0,0618	12	2.00	38
MD7-158R	1.58	0,0622	12	2.00	38
MD7-159R	1.59	0,0626	12	2.00	38
MD7-160R	1.60	0,063	12	2.00	38
MD7-161R	1.61	0,0634	12	2.00	38
MD7-162R	1.62	0,0638	12	2.00	38
MD7-163R	1.63	0,0642	12	2.00	38
MD7-164R	1.64	0,0646	12	2.00	38
MD7-165R	1.65	0,065	12	2.00	38
MD7-166R	1.66	0,0654	12	2.00	38
MD7-167R	1.67	0,0657	12	2.00	38
MD7-168R	1.68	0,0661	12	2.00	38
MD7-169R	1.69	0,0665	12	2.00	38
MD7-170R	1.70	0,0669	12	2.00	38
MD7-171R	1.71	0,0673	12	2.00	38
MD7-172R	1.72	0,0677	12	2.00	38
MD7-173R	1.73	0,0681	12	2.00	38
MD7-174R	1.74	0,0685	12	2.00	38
MD7-175R	1.75	0,0689	12	2.00	38
MD7-176R	1.76	0,0693	12	2.00	38
MD7-177R	1.77	0,0697	12	2.00	38
MD7-178R	1.78	0,0701	12	2.00	38
MD7-179R	1.79	0,0705	12	2.00	38
MD7-180R	1.80	0,0709	12	2.00	38
MD7-181R	1.81	0,0713	12	2.00	38
MD7-182R	1.82	0,0717	12	2.00	38
MD7-183R	1.83	0,072	12	2.00	38
MD7-184R	1.84	0,0724	12	2.00	38

MD7-185R	1.85	0,0728	12	2.00	38
MD7-186R	1.86	0,0732	12	2.00	38
MD7-187R	1.87	0,0736	12	2.00	38
MD7-188R	1.88	0,074	12	2.00	38
MD7-189R	1.89	0,0744	12	2.00	38
MD7-190R	1.90	0,0748	12	2.00	38
MD7-191R	1.91	0,0752	12	2.00	38
MD7-192R	1.92	0,0756	12	2.00	38
MD7-193R	1.93	0,076	12	2.00	38
MD7-194R	1.94	0,0764	12	2.00	38
MD7-195R	1.95	0,0768	12	2.00	38
MD7-196R	1.96	0,0772	12	2.00	38
MD7-197R	1.97	0,0776	12	2.00	38
MD7-198R	1.98	0,078	12	2.00	38
MD7-199R	1.99	0,0783	12	2.00	38

MDH15 - Micro Drill (Low Helix, Left)

Z2

5-7xD

120°

H15°

L

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: brass, aluminium, soft steel, stainless steel, others

Key features:

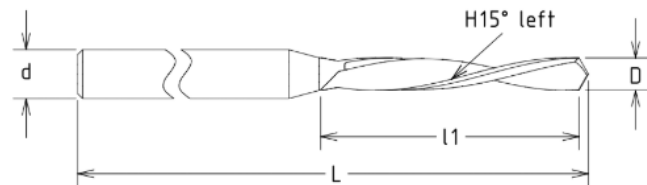
- Range from 0.50 mm to 2.00 mm - increments of 0.01 mm /0.05 mm
- Other sizes on request
- Packaging - 10 units per box

Benefits:

- Low helix for high feed rates with better chip evacuation

Main characteristics:

- Tolerance h6 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
MD7.H15-050L	0.50	0,0197	4.0	1.50	30
MD7.H15-051L	0.51	0,0201	4.0	1.50	30
MD7.H15-052L	0.52	0,0205	4.0	1.50	30
MD7.H15-053L	0.53	0,0209	4.0	1.50	30
MD7.H15-054L	0.54	0,0213	4.0	1.50	30
MD7.H15-055L	0.55	0,0217	4.5	1.50	30
MD7.H15-056L	0.56	0,022	4.5	1.50	30
MD7.H15-057L	0.57	0,0224	4.5	1.50	30
MD7.H15-058L	0.58	0,0228	4.5	1.50	30
MD7.H15-059L	0.59	0,0232	4.5	1.50	30
MD7.H15-060L	0.60	0,0236	4.5	1.50	30
MD7.H15-061L	0.61	0,024	5.0	1.50	30
MD7.H15-062L	0.62	0,0244	5.0	1.50	30
MD7.H15-063L	0.63	0,0248	5.0	1.50	30
MD7.H15-064L	0.64	0,0252	5.0	1.50	30
MD7.H15-065L	0.65	0,0256	5.0	1.50	30
MD7.H15-066L	0.66	0,026	5.0	1.50	30
MD7.H15-067L	0.67	0,0264	5.0	1.50	30
MD7.H15-068L	0.68	0,0268	5.0	1.50	30
MD7.H15-069L	0.69	0,0272	5.6	1.50	30
MD7.H15-070L	0.70	0,0276	5.6	1.50	30
MD7.H15-071L	0.71	0,028	5.6	1.50	30
MD7.H15-072L	0.72	0,0283	5.6	1.50	30
MD7.H15-073L	0.73	0,0287	5.6	1.50	30
MD7.H15-074L	0.74	0,0291	5.6	1.50	30

MD7.H15-075L	0.75	0,0295	5.6	1.50	30
MD7.H15-076L	0.76	0,0299	6.3	1.50	30
MD7.H15-077L	0.77	0,0303	6.3	1.50	30
MD7.H15-078L	0.78	0,0307	6.3	1.50	30
MD7.H15-079L	0.79	0,0311	6.3	1.50	30
MD7.H15-080L	0.80	0,0315	6.3	1.50	30
MD7.H15-081L	0.81	0,0319	6.3	1.50	30
MD7.H15-082L	0.82	0,0323	6.3	1.50	30
MD7.H15-083L	0.83	0,0327	6.3	1.50	30
MD7.H15-084L	0.84	0,0331	6.3	1.50	30
MD7.H15-085L	0.85	0,0335	6.3	1.50	30
MD7.H15-086L	0.86	0,0339	7.1	1.50	30
MD7.H15-087L	0.87	0,0343	7.1	1.50	30
MD7.H15-088L	0.88	0,0346	7.1	1.50	30
MD7.H15-089L	0.89	0,035	7.1	1.50	30
MD7.H15-090L	0.90	0,0354	7.1	1.50	30
MD7.H15-091L	0.91	0,0358	7.1	1.50	30
MD7.H15-092L	0.92	0,0362	7.1	1.50	30
MD7.H15-093L	0.93	0,0366	7.1	1.50	30
MD7.H15-094L	0.94	0,037	7.1	1.50	30
MD7.H15-095L	0.95	0,0374	7.1	1.50	30
MD7.H15-096L	0.96	0,0378	8.0	1.50	30
MD7.H15-097L	0.97	0,0382	8.0	1.50	30
MD7.H15-098L	0.98	0,0386	8.0	1.50	30
MD7.H15-099L	0.99	0,039	8.0	1.50	30
MD7.H15-100L	1.00	0,0394	8.0	1.50	30
MD7.H15-101L	1.01	0,0398	8.0	1.50	30
MD7.H15-102L	1.02	0,0402	8.0	1.50	30
MD7.H15-103L	1.03	0,0406	8.0	1.50	30
MD7.H15-104L	1.04	0,0409	8.0	1.50	30
MD7.H15-105L	1.05	0,0413	8.0	1.50	30
MD7.H15-106L	1.06	0,0417	9.0	1.50	30
MD7.H15-107L	1.07	0,0421	9.0	1.50	30
MD7.H15-108L	1.08	0,0425	9.0	1.50	30
MD7.H15-109L	1.09	0,0429	9.0	1.50	30
MD7.H15-110L	1.10	0,0433	9.0	1.50	30
MD7.H15-111L	1.11	0,0437	9.0	1.50	30
MD7.H15-112L	1.12	0,0441	9.0	1.50	30
MD7.H15-113L	1.13	0,0445	9.0	1.50	30
MD7.H15-114L	1.14	0,0449	9.0	1.50	30
MD7.H15-115L	1.15	0,0453	9.0	1.50	30
MD7.H15-116L	1.16	0,0457	10	1.50	30
MD7.H15-117L	1.17	0,0461	10	1.50	30
MD7.H15-118L	1.18	0,0465	10	1.50	30
MD7.H15-119L	1.19	0,0469	10	1.50	30
MD7.H15-120L	1.20	0,0472	10	1.50	30
MD7.H15-121L	1.21	0,0476	10	1.50	30
MD7.H15-122L	1.22	0,048	10	1.50	30
MD7.H15-123L	1.23	0,0484	10	1.50	30
MD7.H15-124L	1.24	0,0488	10	1.50	30

MD7.H15-125L	1.25	0,0492	10	1.50	30
MD7.H15-126L	1.26	0,0496	10	1.50	30
MD7.H15-127L	1.27	0,05	10	1.50	30
MD7.H15-128L	1.28	0,0504	10	1.50	30
MD7.H15-129L	1.29	0,0508	10	1.50	30
MD7.H15-130L	1.30	0,0512	10	1.50	30
MD7.H15-131L	1.31	0,0516	11.2	1.50	30
MD7.H15-132L	1.32	0,052	11.2	1.50	30
MD7.H15-133L	1.33	0,0524	11.2	1.50	30
MD7.H15-134L	1.34	0,0528	11.2	1.50	30
MD7.H15-135L	1.35	0,0531	11.2	1.50	30
MD7.H15-136L	1.36	0,0535	11.2	1.50	30
MD7.H15-137L	1.37	0,0539	11.2	1.50	30
MD7.H15-138L	1.38	0,0543	11.2	1.50	30
MD7.H15-139L	1.39	0,0547	11.2	1.50	30
MD7.H15-140L	1.40	0,0551	11.2	1.50	30
MD7.H15-141L	1.41	0,0555	11.2	1.50	30
MD7.H15-142L	1.42	0,0559	11.2	1.50	30
MD7.H15-143L	1.43	0,0563	11.2	1.50	30
MD7.H15-144L	1.44	0,0567	11.2	1.50	30
MD7.H15-145L	1.45	0,0571	11.2	1.50	30
MD7.H15-146L	1.46	0,0575	11.2	1.50	30
MD7.H15-147L	1.47	0,0579	11.2	1.50	30
MD7.H15-148L	1.48	0,0583	11.2	1.50	30
MD7.H15-149L	1.49	0,0587	11.2	1.50	30
MD7.H15-150L	1.50	0,0591	12	2.00	38
MD7.H15-155L	1.55	0,061	12	2.00	38
MD7.H15-160L	1.60	0,063	12	2.00	38
MD7.H15-165L	1.65	0,065	12	2.00	38
MD7.H15-170L	1.70	0,0669	12	2.00	38
MD7.H15-175L	1.75	0,0689	12	2.00	38
MD7.H15-180L	1.80	0,0709	12	2.00	38
MD7.H15-185L	1.85	0,0728	12	2.00	38
MD7.H15-190L	1.90	0,0748	12	2.00	38
MD7.H15-195L	1.95	0,0768	12	2.00	38
MD7.H15-200L	2.00	0,0787	12	2.00	38

TD10.S - Twist Drill (Straight Shank)

Z2

10xD

120°

H24°

R

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: brass, aluminium, soft steel, medium steel, stainless steel, titanium, cast iron, others

Key features:

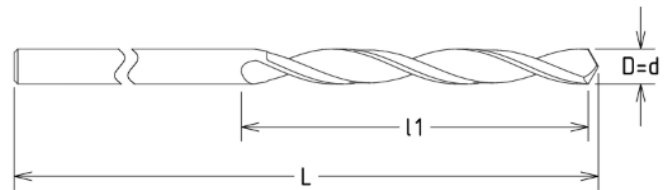
- Range from 0.50 mm to 1.50 mm - increments of 0.05 mm
- Other sizes on request
- Packaging - 10 units per box

Benefits:

- Good for drilling with guide ring to avoid deviation

Main characteristics:

- Tolerance h5 on D
- Right cut



Article	D=d (mm)	D=d (inch)	l1 (mm)	L (mm)
TD10.S-050R	0.50	0,0197	5.00	25
TD10.S-055R	0.55	0,0217	5.50	25
TD10.S-060R	0.60	0,0236	6.00	25
TD10.S-065R	0.65	0,0256	6.50	25
TD10.S-070R	0.70	0,0276	7.00	30
TD10.S-075R	0.75	0,0295	7.50	30
TD10.S-080R	0.80	0,0315	8.00	30
TD10.S-085R	0.85	0,0335	8.50	30
TD10.S-090R	0.90	0,0354	9.00	30
TD10.S-095R	0.95	0,0374	9.50	30
TD10.S-100R	1.00	0,0394	10.00	30
TD10.S-105R	1.05	0,0413	10.50	35
TD10.S-110R	1.10	0,0433	11.00	35
TD10.S-115R	1.15	0,0453	11.50	35
TD10.S-120R	1.20	0,0472	12.00	35
TD10.S-125R	1.25	0,0492	12.50	35
TD10.S-130R	1.30	0,0512	13.00	35
TD10.S-135R	1.35	0,0531	13.50	35
TD10.S-140R	1.40	0,0551	14.00	35
TD10.S-145R	1.45	0,0571	14.50	35
TD10.S-150R	1.50	0,0591	15.00	35

MD7.1HP - Micro Drill (High perf.)	Z2	6-7xD	140°	H30°	R
Carbide (Sub-Micro Grain - Cobalt 10%)					

Materials: aluminium, medium steel, stainless steel, titanium, cast iron, others

Key features:

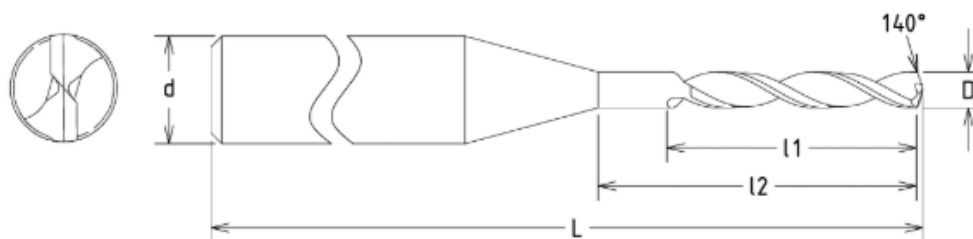
- Range from 0.50 mm to 3.00 mm - increments of 0.05 mm
- Other diameters & characteristics on request H15°, H24°, H30° - POINT 90°, 130°
- Packaging: 10 units per box

Benefits:

- Strong core, no deviation, direct drilling, no centering

Main characteristics:

- Tolerance h5 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	l2 (mm)	d shank (mm)	L (mm)
MD7.1HP-050R	0.50	0.0197	3.5	4,4	3.00	50
MD7.1HP-055R	0.55	0.0217	4.0	5	3.00	50
MD7.1HP-060R	0.60	0.0236	4.5	5,6	3.00	50
MD7.1HP-065R	0.65	0.0256	5.0	6,25	3.00	50
MD7.1HP-070R	0.70	0.0276	5.0	6,3	3.00	50
MD7.1HP-075R	0.75	0.0295	5.5	6,875	3.00	50
MD7.1HP-080R	0.80	0.0315	5,6	7,2	3.00	50
MD7.1HP-085R	0.85	0.0335	6.0	7,6	3.00	50
MD7.1HP-090R	0.90	0.0354	6.5	8,1	3.00	50
MD7.1HP-095R	0.95	0.0374	6,7	8,5	3.00	50
MD7.1HP-100R	1.00	0.0394	7.0	8,8	3.00	50
MD7.1HP-105R	1.05	0.0413	7.5	9,4	3.00	50
MD7.1HP-110R	1.10	0.0433	8.0	10,1	3.00	50
MD7.1HP-115R	1.15	0.0453	8,1	10,4	3.00	50
MD7.1HP-120R	1.20	0.0472	8.5	11,0	3.00	50
MD7.1HP-125R	1.25	0.0492	8,9	11,3	3.00	50
MD7.1HP-130R	1.30	0.0512	9,2	11,7	3.00	50
MD7.1HP-135R	1.35	0.0531	9,6	12,2	3.00	50
MD7.1HP-140R	1.40	0.0551	10.0	12,5	3.00	50
MD7.1HP-145R	1.45	0.0571	10.5	13	3.00	50
MD7.1HP-150R	1.50	0.0591	10.5	13,0	3.00	50
MD7.1HP-155R	1.55	0.0610	11.0	13,5	3.00	50
MD7.1HP-160R	1.60	0.0630	11.5	14,0	3.00	50
MD7.1HP-165R	1.65	0.0650	12.0	15	3.00	50

MD7.1HP-170R	1.70	0.0669	12.0	15,0	3.00	50
MD7.1HP-175R	1.75	0.0689	12.5	15,5	3.00	50
MD7.1HP-180R	1.80	0.0709	13.0	16,0	3.00	50
MD7.1HP-185R	1.85	0.0728	13.0	16	3.00	50
MD7.1HP-190R	1.90	0.0748	13.5	17,5	3.00	50
MD7.1HP-195R	1.95	0.0768	14.0	18	3.00	50
MD7.1HP-200R	2.00	0.0787	14.0	18,0	3.00	50
MD7.1HP-205R	2.05	0.0807	14.5	18,5	3.00	50
MD7.1HP-210R	2.10	0.0827	15.0	19,0	3.00	50
MD7.1HP-215R	2.15	0.0846	15	19	3.00	50
MD7.1HP-220R	2.20	0.0866	16	20,0	3.00	50
MD7.1HP-225R	2.25	0.0886	16	20	3.00	50
MD7.1HP-230R	2.30	0.0906	16.5	21,0	3.00	50
MD7.1HP-235R	2.35	0.0925	16,5	21	3.00	50
MD7.1HP-240R	2.40	0.0945	17.0	22,0	3.00	50
MD7.1HP-245R	2.45	0.0965	17.5	22,5	3.00	50
MD7.1HP-250R	2.50	0.0984	18	23,0	3.00	50
MD7.1HP-255R	2.55	0.1004	18	23	3.00	50
MD7.1HP-260R	2.60	0.1024	18.5	23,5	3.00	50
MD7.1HP-265R	2.65	0.1043	18,5	23,5	3.00	50
MD7.1HP-270R	2.70	0.1063	19.0	24,0	3.00	50
MD7.1HP-275R	2.75	0.1083	19	24	3.00	50
MD7.1HP-280R	2.80	0.1102	20.0	25,0	3.00	50
MD7.1HP-285R	2.85	0.1122	20	25	3.00	50
MD7.1HP-290R	2.90	0.1142	21	26,0	3.00	50
MD7.1HP-295R	2.95	0.1161	21.0	26	3.00	50
MD7.1HP-300R	3.00	0.1181	21.0	26,0	3.00	50
MD7.1HP-305R	3.05	0,1201	21,5	26,0	4,00	60
MD7.1HP-310R	3.10	0,1220	21,5	26,0	4,00	60
MD7.1HP-315R	3.15	0,1240	22,0	26,5	4,00	60
MD7.1HP-320R	3.20	0,1260	22,5	27,0	4,00	60
MD7.1HP-325R	3.25	0,1280	23,0	27,5	4,00	60
MD7.1HP-330R	3.30	0,1299	23,0	27,5	4,00	60
MD7.1HP-335R	3.35	0,1319	23,5	28,0	4,00	60
MD7.1HP-340R	3.40	0,1339	23,8	28,5	4,00	60
MD7.1HP-345R	3.45	0,1358	24,0	29,0	4,00	60
MD7.1HP-350R	3.50	0,1378	24,5	29,5	4,00	60
MD7.1HP-355R	3.55	0,1398	24,8	30,0	4,00	60
MD7.1HP-360R	3.60	0,1417	25,2	30,0	4,00	60
MD7.1HP-365R	3.65	0,1437	25,5	30,5	4,00	60
MD7.1HP-370R	3.70	0,1457	26,0	31,0	4,00	60
MD7.1HP-375R	3.75	0,1476	26,2	31,5	4,00	60
MD7.1HP-380R	3.80	0,1496	26,5	32,0	4,00	60
MD7.1HP-385R	3.85	0,1516	27,0	32,0	4,00	60
MD7.1HP-390R	3.90	0,1535	27,3	33,0	4,00	60
MD7.1HP-395R	3.95	0,1555	27,6	33,0	4,00	60
MD7.1HP-400R	4.00	0,1575	28,0	33,5	4,00	60

MD12.1HP - Micro Drill (High perf.)

Z2

12xD

140°

H30°

R

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: aluminium, medium steel, stainless steel, titanium, cast iron, others

Benefits:

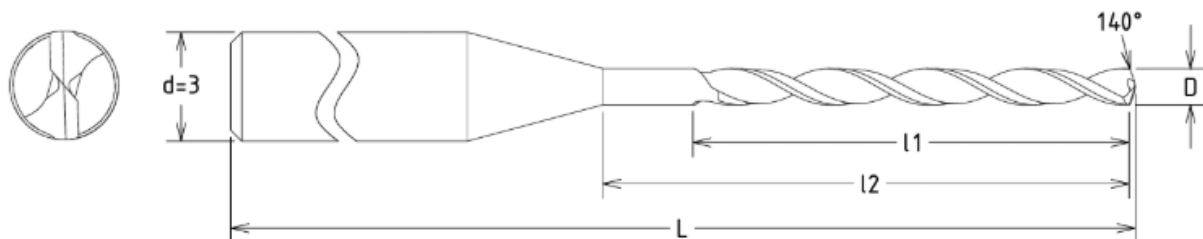
- Strong core, no deviation, direct drilling, no centering

Key features:

- Range from 0.50 mm to 3.00 mm - increments of 0.05 mm
- Other diameters & characteristics on request H15°, H24°, H30° - POINT 90°, 130°
- Packaging: 10 units per box

Main characteristics:

- Tolerance h5 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	l2 (mm)	d shank (mm)	L (mm)
MD12.1HP-050R	0.50	0.0197	6	7,2	3.00	50
MD12.1HP-055R	0.55	0.0217	6,6	7,9	3.00	50
MD12.1HP-060R	0.60	0.0236	7,2	8,6	3.00	50
MD12.1HP-065R	0.65	0.0256	7,8	9,4	3.00	50
MD12.1HP-070R	0.70	0.0276	8,4	10,1	3.00	50
MD12.1HP-075R	0.75	0.0295	9	10,8	3.00	50
MD12.1HP-080R	0.80	0.0315	9,6	11,5	3.00	50
MD12.1HP-085R	0.85	0.0335	10,2	12,2	3.00	50
MD12.1HP-090R	0.90	0.0354	10,8	13,0	3.00	50
MD12.1HP-095R	0.95	0.0374	11,4	13,7	3.00	50
MD12.1HP-100R	1.00	0.0394	12	14,4	3.00	50
MD12.1HP-105R	1.05	0.0413	12,6	15,1	3.00	50
MD12.1HP-110R	1.10	0.0433	13,2	15,8	3.00	50
MD12.1HP-115R	1.15	0.0453	13,8	16,6	3.00	50
MD12.1HP-120R	1.20	0.0472	14,4	17,3	3.00	50
MD12.1HP-125R	1.25	0.0492	15	18,0	3.00	50
MD12.1HP-130R	1.30	0.0512	15,6	18,7	3.00	50
MD12.1HP-135R	1.35	0.0531	16,2	19,4	3.00	50
MD12.1HP-140R	1.40	0.0551	16,8	20,2	3.00	50
MD12.1HP-145R	1.45	0.0571	17,4	20,9	3.00	50
MD12.1HP-150R	1.50	0.0591	18	21,6	3.00	50
MD12.1HP-155R	1.55	0.0610	18,6	22,3	3.00	60
MD12.1HP-160R	1.60	0.0630	19,2	23,0	3.00	60

MD12.1HP-165R	1.65	0.0650	19,8	23,8	3.00	60
MD12.1HP-170R	1.70	0.0669	20,4	24,5	3.00	60
MD12.1HP-175R	1.75	0.0689	21	25,2	3.00	60
MD12.1HP-180R	1.80	0.0709	21,6	25,9	3.00	60
MD12.1HP-185R	1.85	0.0728	22,2	26,6	3.00	60
MD12.1HP-190R	1.90	0.0748	22,8	27,4	3.00	60
MD12.1HP-195R	1.95	0.0768	23,4	28,1	3.00	60
MD12.1HP-200R	2.00	0.0787	24	28,8	3.00	60
MD12.1HP-205R	2.05	0.0807	24,6	29,5	3.00	60
MD12.1HP-210R	2.10	0.0827	25,2	30,2	3.00	60
MD12.1HP-215R	2.15	0.0846	25,8	31,0	3.00	60
MD12.1HP-220R	2.20	0.0866	26,4	31,7	3.00	60
MD12.1HP-225R	2.25	0.0886	27	32,4	3.00	60
MD12.1HP-230R	2.30	0.0906	27,6	33,1	3.00	60
MD12.1HP-235R	2.35	0.0925	28,2	33,8	3.00	90
MD12.1HP-240R	2.40	0.0945	28,8	34,6	3.00	90
MD12.1HP-245R	2.45	0.0965	29,4	35,3	3.00	90
MD12.1HP-250R	2.50	0.0984	30	36,0	3.00	90
MD12.1HP-255R	2.55	0.1004	30,6	36,7	3.00	90
MD12.1HP-260R	2.60	0.1024	31,2	37,4	3.00	90
MD12.1HP-265R	2.65	0.1043	31,8	38,2	3.00	90
MD12.1HP-170R	2.70	0.1063	32,4	38,9	3.00	90
MD12.1HP-275R	2.75	0.1083	33	39,6	3.00	90
MD12.1HP-280R	2.80	0.1102	33,6	40,3	3.00	90
MD12.1HP-285R	2.85	0.1122	34,2	41,0	3.00	90
MD12.1HP-290R	2.90	0.1142	34,8	41,8	3.00	90
MD12.1HP-295R	2.95	0.1161	35,4	42,5	3.00	90
MD12.1HP-300R	3.00	0.1181	36	43,2	3.00	90

PD40.1 - Flex Type Z2 Drill for Pecking

Z2

30-40xD

135°

H24°

R

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: aluminium, medium steel, stainless steel, titanium, cast iron, others

Key features:

- Range from 0.30 mm to 1.00 mm - increments of 0.05 mm
- Other diameters & characteristics on request
- Packaging: 10 units per box

Benefits:

- Short flute length with long back Diam to reach 30-40xD depth hole with pecking cycle process

Main characteristics:

- Tolerance h5 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	l2 (mm)	d shank (mm)	L (mm)
PD40.1-030R	0.30	0,0118	3	12,0	3	50
PD40.1-035R	0.35	0,0138	3.5	14,0	3	50
PD40.1-040R	0.40	0,0157	4	16,0	3	50
PD40.1-045R	0.45	0,0177	4.5	18,0	3	50
PD40.1-050R	0.50	0.0197	5	20,0	3	50
PD40.1-055R	0.55	0.0217	5.5	22,0	3	50
PD40.1-060R	0.60	0.0236	6	24,0	3	50
PD40.1-065R	0.65	0.0256	6.5	26,0	3	50
PD40.1-070R	0.70	0.0276	7	28,0	3	77
PD40.1-075R	0.75	0.0295	7.5	30,0	3	77
PD40.1-080R	0.80	0.0315	8	32,0	3	77
PD40.1-085R	0.85	0.0335	8.5	34,0	3	77
PD40.1-090R	0.90	0.0354	9	36,0	3	77
PD40.1-095R	0.95	0.0374	9.5	38,0	3	77
PD40.1-100R	1.00	0.0394	10	40,0	3	77

MD5.1-IC - Coolant-Thru Drill

Z2

5xD

140°

H30°

R

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: aluminium, medium steel, stainless steel, titanium, cast iron, others

Benefits:

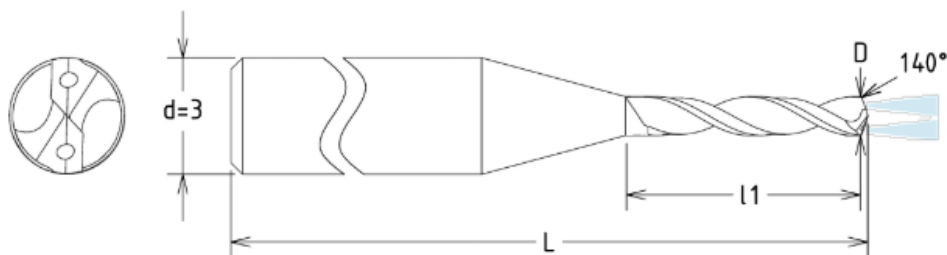
- Strong core, no deviation, direct drilling

Key features:

- Range from 1.00 mm to 3.00 mm - increments of 0.10 mm
- Other diameters on request
- Packaging: single unit – min. order 5 units

Main characteristics:

- Tolerance h5 on D
- Right cut
- 2 helicoidal holes for coolant



Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
MD5.1-100R-IC	1.00	0,0394	6.00	3.00	50
MD5.1-110R-IC	1.10	0,0433	6;60	3.00	50
MD5.1-120R-IC	1.20	0,0472	7.20	3.00	50
MD5.1-130R-IC	1.30	0,0512	7.80	3.00	50
MD5.1-140R-IC	1.40	0,0551	8.40	3.00	50
MD5.1-150R-IC	1.50	0,0591	9.00	3.00	50
MD5.1-160R-IC	1.60	0,0630	9.60	3.00	50
MD5.1-170R-IC	1.70	0,0669	10.20	3.00	50
MD5.1-180R-IC	1.80	0,0709	10.80	3.00	50
MD5.1-190R-IC	1.90	0,0748	11.40	3.00	50
MD5.1-200R-IC	2.00	0,0787	12.00	3.00	50
MD5.1-210R-IC	2.10	0,0827	12.60	3.00	50
MD5.1-220R-IC	2.20	0,0866	13.20	3.00	50
MD5.1-230R-IC	2.30	0,0906	13.80	3.00	50
MD5.1-240R-IC	2.40	0,0945	14.40	3.00	50
MD5.1-250R-IC	2.50	0,0984	15.00	3.00	50
MD5.1-260R-IC	2.60	0,1024	15.60	3.00	50
MD5.1-270R-IC	2.70	0,1063	16.20	3.00	50
MD5.1-280R-IC	2.80	0,1102	16.80	3.00	50
MD5.1-290R-IC	2.90	0,1142	17.40	3.00	50
MD5.1-300R-IC	3.00	0,1181	18.00	3.00	50

MD15.1-IC - Coolant-Thru Drill

Z2

15xD

140°

H30°

R

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: aluminium, medium steel, stainless steel, titanium, cast iron, others

Benefits:

- Strong core, no deviation, direct drilling

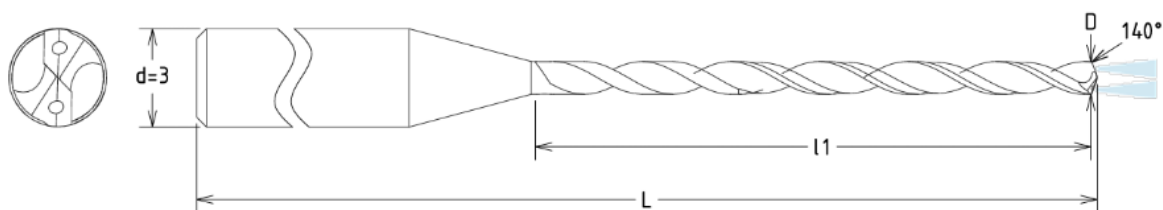
Key features:

- Range from 1.00 mm to 3.00 mm - increments of 0.10 mm
- Other diameters on request
- Packaging: single unit – min. order 5 units

Main characteristics:

- Tolerance h5 on D
- Right cut

2 helicoidal holes for coolant



Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
MD15.1-100R-IC	1.00	0,0394	17	3.00	70
MD15.1-105R-IC	1.05	0,0413	17	3.00	70
MD15.1-110R-IC	1.10	0,0433	18	3.00	70
MD15.1-115R-IC	1.15	0,0453	18	3.00	70
MD15.1-120R-IC	1.20	0,0472	20	3.00	70
MD15.1-125R-IC	1.25	0,0492	20	3.00	70
MD15.1-130R-IC	1.30	0,0512	21	3.00	70
MD15.1-135R-IC	1.35	0,0531	21	3.00	70
MD15.1-140R-IC	1.40	0,0551	23	3.00	70
MD15.1-145R-IC	1.45	0,0571	23	3.00	70
MD15.1-150R-IC	1.50	0,0591	25	3.00	70
MD15.1-155R-IC	1.55	0,0610	25	3.00	70
MD15.1-160R-IC	1.60	0,0630	26	3.00	70
MD15.1-165R-IC	1.65	0,0650	26	3.00	70
MD15.1-170R-IC	1.70	0,0669	28	3.00	70
MD15.1-175R-IC	1.75	0,0689	28	3.00	70
MD15.1-180R-IC	1.80	0,0709	30	3.00	70
MD15.1-185R-IC	1.85	0,0728	30	3.00	70
MD15.1-190R-IC	1.90	0,0748	31	3.00	70
MD15.1-195R-IC	1.95	0,0768	31	3.00	70
MD15.1-200R-IC	2.00	0,0787	32	3.00	70
MD15.1-205R-IC	2.05	0,0807	34	3.00	70
MD15.1-210R-IC	2.10	0,0827	34	3.00	70
MD15.1-215R-IC	2.15	0,0846	36	3.00	70
MD15.1-220R-IC	2.20	0,0866	36	3.00	70

MD15.1-225R-IC	2.25	0,0886	38	3.00	70
MD15.1-230R-IC	2.30	0,0906	38	3.00	70
MD15.1-235R-IC	2.35	0,0925	40	3.00	70
MD15.1-240R-IC	2.40	0,0945	40	3.00	70
MD15.1-245R-IC	2.45	0,0965	42	3.00	70
MD15.1-250R-IC	2.50	0,0984	42	3.00	70
MD15.1-255R-IC	2.55	0,1004	44	3.00	90
MD15.1-260R-IC	2.60	0,1024	44	3.00	90
MD15.1-265R-IC	2.65	0,1043	46	3.00	90
MD15.1-270R-IC	2.70	0,1063	46	3.00	90
MD15.1-275R-IC	2.75	0,1083	48	3.00	90
MD15.1-280R-IC	2.80	0,1102	48	3.00	90
MD15.1-285R-IC	2.85	0,1122	50	3.00	90
MD15.1-290R-IC	2.90	0,1142	50	3.00	90
MD15.1-295R-IC	2.95	0,1161	50	3.00	90
MD15.1-300R-IC	3.00	0,1181	50	3.00	90

3FD4.1 - 3-Flutes Cross Drill

Z3

3-4xD

140°

H30°

R

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: brass, aluminium, soft steel, stainless steel, others

Benefits:

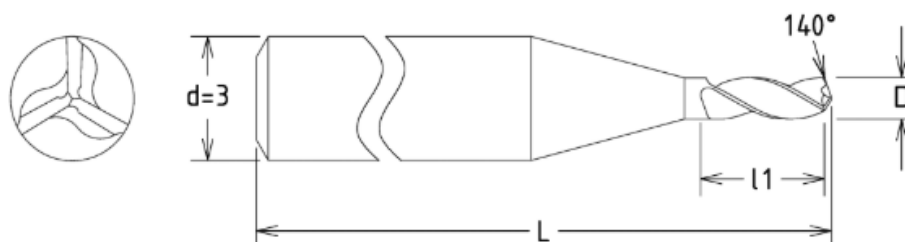
- Good for transversal drilling, no burrs inside

Key features:

- Range from 0.50 mm to 1.50 mm - increments of 0.05 mm
- Intermediate sizes on request
- Packaging: 10 units per box

Main characteristics:

- Tolerance h5 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
3FD4.1-050R	0.50	0,0197	3.00	3.00	30
3FD4.1-055R	0.55	0,0217	3.00	3.00	30
3FD4.1-060R	0.60	0,0236	3.00	3.00	30
3FD4.1-065R	0.65	0,0256	3.00	3.00	30
3FD4.1-070R	0.70	0,0276	3.00	3.00	30
3FD4.1-075R	0.75	0,0295	3.50	3.00	30
3FD4.1-080R	0.80	0,0315	3.50	3.00	30
3FD4.1-085R	0.85	0,0335	3.50	3.00	30
3FD4.1-090R	0.90	0,0354	3.50	3.00	30
3FD4.1-095R	0.95	0,0374	3.50	3.00	30
3FD4.1-100R	1.00	0,0394	3.50	3.00	30
3FD4.1-105R	1.05	0,0413	4.00	3.00	30
3FD4.1-110R	1.10	0,0433	4.00	3.00	30
3FD4.1-115R	1.15	0,0453	4.00	3.00	30
3FD4.1-120R	1.20	0,0472	4.00	3.00	30
3FD4.1-125R	1.25	0,0492	4.00	3.00	30
3FD4.1-130R	1.30	0,0512	5.00	3.00	30
3FD4.1-135R	1.35	0,0531	5.00	3.00	30
3FD4.1-140R	1.40	0,0551	5.00	3.00	30
3FD4.1-145R	1.45	0,0571	5.00	3.00	30
3FD4.1-150R	1.50	0,0591	5.00	3.00	30

3FD10.1 - 3-Flutes Reamer Drill

Z3

6-10xD

140°

H30°

R

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: brass, aluminium, soft steel, stainless steel, others

Key features:

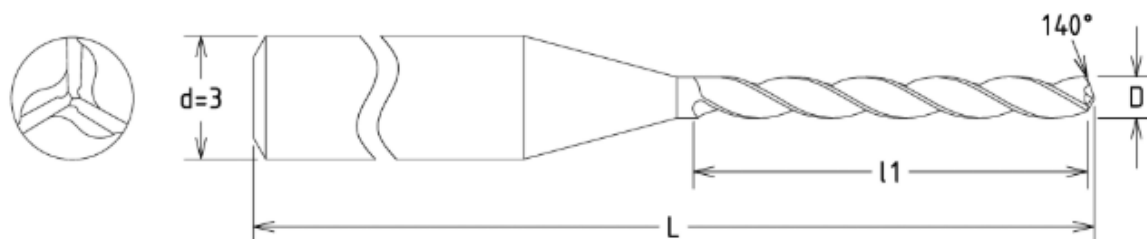
- Range from 0.50 mm to 3.00 mm - increments of 0.05 mm and 0.10 mm
- Intermediate sizes on request
- Packaging: 10 units per box

Benefits:

- Good for drilling directly with no spot or no pilot
- Perfect geometry of hole, no final reaming required

Main characteristics:

- Tolerance h5 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
3FD10.1-050R	0.50	0,0197	6.00	3.00	38
3FD10.1-055R	0.55	0,0217	7.00	3.00	38
3FD10.1-060R	0.60	0,0236	7.00	3.00	38
3FD10.1-065R	0.65	0,0256	7.00	3.00	38
3FD10.1-070R	0.70	0,0276	9.50	3.00	38
3FD10.1-075R	0.75	0,0295	9.50	3.00	38
3FD10.1-080R	0.80	0,0315	9.50	3.00	38
3FD10.1-085R	0.85	0,0335	9.50	3.00	38
3FD10.1-090R	0.90	0,0354	9.50	3.00	38
3FD10.1-095R	0.95	0,0374	9.50	3.00	38
3FD10.1-100R	1.00	0,0394	9.50	3.00	38
3FD10.1-105R	1.05	0,0413	10.50	3.00	38
3FD10.1-110R	1.10	0,0433	10.50	3.00	38
3FD10.1-115R	1.15	0,0453	10.50	3.00	38
3FD10.1-120R	1.20	0,0472	10.50	3.00	38
3FD10.1-125R	1.25	0,0492	10.50	3.00	38
3FD10.1-130R	1.30	0,0512	10.50	3.00	38
3FD10.1-135R	1.35	0,0531	10.50	3.00	38
3FD10.1-140R	1.40	0,0551	10.50	3.00	38
3FD10.1-145R	1.45	0,0571	10.50	3.00	38
3FD10.1-150R	1.50	0,0591	10.50	3.00	38
3FD10.1-160R	1.60	0,063	12.00	3.00	38
3FD10.1-170R	1.70	0,0669	12.00	3.00	38
3FD10.1-180R	1.80	0,0709	12.00	3.00	38

3FD10.1-190R	1.90	0,0748	12.00	3.00	38
3FD10.1-200R	2.00	0,0787	12.00	3.00	38
3FD10.1-210R	2.10	0,0827	14.00	3.00	38
3FD10.1-220R	2.20	0,0866	14.00	3.00	38
3FD10.1-230R	2.30	0,0906	14.00	3.00	38
3FD10.1-240R	2.40	0,0945	14.00	3.00	38
3FD10.1-250R	2.50	0,0984	14.00	3.00	38
3FD10.1-260R	2.60	0,1024	16.00	3.00	38
3FD10.1-270R	2.70	0,1063	16.00	3.00	38
3FD10.1-280R	2.80	0,1102	16.00	3.00	38
3FD10.1-290R	2.90	0,1142	16.00	3.00	38
3FD10.1-300R	3.00	0,1181	16.00	3.00	16.00

GD8 - Gun Drill (Half-Round)

Z1

8xD

120°

H0°

R+L

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: brass, aluminium, soft steel, stainless steel, others

Key features:

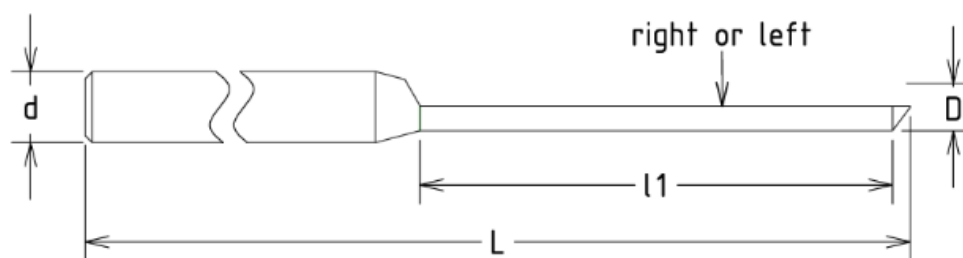
- Range from 0.20 mm to 3.00 mm - increments of 0.05 mm and 0.10mm
- Intermediate sizes on request
- Packaging: 10 units per box

Benefits:

- Direct drilling, no centering required. Single lip works close to the hole center, so chips cutting is easier

Main characteristics:

- Tolerance h5 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
GD8-020R/L	0.20	0,0079	2.00	1.50	30
GD8-025R/L	0.25	0,0098	2.50	1.50	30
GD8-030R/L	0.30	0,0118	3.00	1.50	30
GD8-035R/L	0.35	0,0138	3.50	1.50	30
GD8-040R/L	0.40	0,0157	4.00	1.50	30
GD8-045R/L	0.45	0,0177	4.50	1.50	30
GD8-050R/L	0.50	0,0197	5.00	1.50	30
GD8-055R/L	0.55	0,0217	5.50	1.50	30
GD8-060R/L	0.60	0,0236	6.00	1.50	30
GD8-065R/L	0.65	0,0256	6.50	1.50	30
GD8-070R/L	0.70	0,0276	7.00	1.50	30
GD8-075R/L	0.75	0,0295	7.50	1.50	30
GD8-080R/L	0.80	0,0315	8.00	1.50	30
GD8-085R/L	0.85	0,0335	8.50	1.50	30
GD8-090R/L	0.90	0,0354	9.00	1.50	30
GD8-095R/L	0.95	0,0374	9.50	1.50	30
GD8-100R/L	1.00	0,0394	10.00	1.50	30
GD8-105R/L	1.05	0,0413	10.50	1.50	30
GD8-110R/L	1.10	0,0433	11.00	1.50	30
GD8-115R/L	1.15	0,0453	11.50	1.50	30
GD8-120R/L	1.20	0,0472	12.00	1.50	30
GD8-125R/L	1.25	0,0492	12.50	1.50	30
GD8-130R/L	1.30	0,0512	13.00	1.50	30
GD8-135R/L	1.35	0,0531	13.50	1.50	30
GD8-140R/L	1.40	0,0551	14.00	1.50	30

GD8-145R/L	1.45	0,0571	14.50	1.50	30
GD8-150R/L	1.50	0,0591	15.00	2.00	38
GD8-155R/L	1.55	0,061	15.5	2.00	38
GD8-160R/L	1.60	0,063	16.00	2.00	38
GD8-165R/L	1.65	0,065	16.50	2.00	38
GD8-170R/L	1.70	0,0669	17.00	2.00	38
GD8-175R/L	1.75	0,0689	17.50	2.00	38
GD8-180R/L	1.80	0,0709	18.00	2.00	38
GD8-185R/L	1.85	0,0728	18.50	2.00	38
GD8-190R/L	1.90	0,0748	19.00	2.00	38
GD8-195R/L	1.95	0,0787	19.50	2.00	38
GD8-200R/L	2.00	0,0807	20.00	3.00	50
GD8-210R/L	2.10	0,0827	21.00	3.00	50
GD8-220R/L	2.20	0,0866	22.00	3.00	50
GD8-230R/L	2.30	0,0906	23.00	3.00	50
GD8-240R/L	2.40	0,0925	24.00	3.00	50
GD8-250R/L	2.50	0,0984	25.00	3.00	50
GD8-260R/L	2.60	0,1024	26.00	3.00	50
GD8-270R/L	2.70	0,1063	27.00	3.00	50
GD8-280R/L	2.80	0,1102	28.00	3.00	50
GD8-290R/L	2.90	0,1142	29.00	3.00	50
GD8-300R/L	3.00	0,1181	30.00	3.00	50

GD8.H10 - Gun Drill (Z1 Helical)

Z1

8xD

120°

H10°

R+L

Carbide (Sub-Micro Grain - Cobalt 10%)

Materials: brass, aluminium, soft steel, stainless steel, others

Key features:

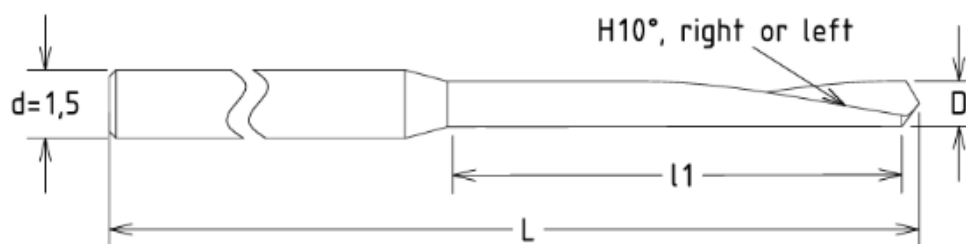
- Range from 0.50 mm to 1.50 mm - increments of 0.05 mm
- Intermediate sizes on request
- Packaging: 10 units per box

Benefits:

- Direct drilling, no centering required. Single lip works close to the hole center, so chips cutting is easier

Main characteristics:

- Tolerance h5 on D
- Right cut



Article	D (mm)	D (inch)	l1 (mm)	d shank (mm)	L (mm)
GD8.H10-050R/L	0.50	0,0197	5.00	1.50	30
GD8.H10-055R/L	0.55	0,0217	5.50	1.50	30
GD8.H10-060R/L	0.60	0,0236	6.00	1.50	30
GD8.H10-065R/L	0.65	0,0256	6.50	1.50	30
GD8.H10-070R/L	0.70	0,0276	7.00	1.50	30
GD8.H10-075R/L	0.75	0,0295	7.50	1.50	30
GD8.H10-080R/L	0.80	0,0315	8.00	1.50	30
GD8.H10-085R/L	0.85	0,0335	8.50	1.50	30
GD8.H10-090R/L	0.90	0,0354	9.00	1.50	30
GD8.H10-095R/L	0.95	0,0374	9.50	1.50	30
GD8.H10-100R/L	1.00	0,0394	10.00	1.50	30
GD8.H10-105R/L	1.05	0,0413	10.50	1.50	30
GD8.H10-110R/L	1.10	0,0433	11.00	1.50	30
GD8.H10-115R/L	1.15	0,0453	11.50	1.50	30
GD8.H10-120R/L	1.20	0,0472	12.00	1.50	30
GD8.H10-125R/L	1.25	0,0492	12.50	1.50	30
GD8.H10-130R/L	1.30	0,0512	13.00	1.50	30
GD8.H10-135R/L	1.35	0,0531	13.50	1.50	30
GD8.H10-140R/L	1.40	0,0551	14.00	1.50	30
GD8.H10-145R/L	1.45	0,0571	14.50	1.50	30
GD8.H10-150R/L	1.50	0,0591	15.00	1.50	30



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