



PILDT

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PILLOT

GMauvaisUSA™



The Anatomy of a Superior Micro Drill

- Superior edge quality and flute surface finishes for high performance
- Extraordinary concentricity, circularity and straightness within 2 microns
- Consistent, accurate dimensions every time
- Amazing dimension control at h6, h4 and h3 μm tolerances
- Ultra-fine surface finish for smooth operation
- Superior HSS heat treating and 10% cobalt micro grain carbide for outstanding performance and long tool life



μm

What is a Micron?

1 micron = .001mm = .00003937"

One Hundreth (1/100) of a human hair

Superior Micro Drills...

Since 1928, GMauvaisUSA™ been delivering high precision micro drills in μm Micron tolerances to the Swiss Watch Industry. With innovative and unique manufacturing technologies in turning, bar cutting, grinding, milling, flute grinding, sharpening and heat-treating, the company produces products of the most consistent quality and reliable specifications, meeting their strict standards for superior quality. Their ability to control our high production operations with incredibly tight tolerances, makes us the right choice. Pilot Precision Products offers a complete range of products in solid carbide and cobalt high speed steel.

Operation	Series	
Centering	5140 6140 61CD	90° 120°
Pivot/Spot	5140 6140 61CD	
Drilling	5100 6120 6130	
	6100 6200 3200	
	6220 6230 CT	
Cross-Drilling	3100 3200	



approximately 10x actual size



**Superior Precision,
Quality, Consistency and
Performance**

5140 Series HSS-E Cobalt 8%**2-3 x D, Center Cut – Pilot – Spot Drills 120°**

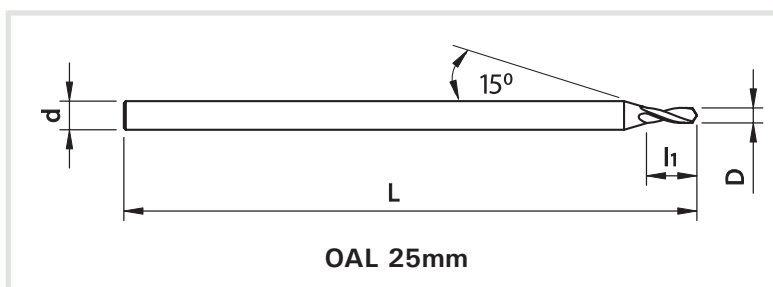
+ 0.000/- 0.006mm (h6)

For use prior to using 5100 series drills. Can also be used as a drill with 2-3 x D Depth.

All items can be ordered as left hand at same pricing. Special, custom specification items available.

Custom specifications such as:

- Helix angle of 15°, 24°, 30° or other
- Point angles of 90°, 110°, 130°, 140° or other
- Special diameters of 1.255mm or other
- Special tolerances as +/- 0.001mm or other
- Coatings available upon request
- Minimum custom order is 10 pieces
- **Lead-time on custom orders—4 weeks ARO**

**5140 Series HSS-E Cobalt 8% - Drill Sizes 0.20 – 3.00mm****NOTE: Sold in 10 piece packages only**

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.
0.20	0.0079	92	1.5	0.6	25.0	5140020R
0.25	0.0098			0.8		5140025R
0.30	0.0118			0.9		5140030R
0.35	0.0138			1.0		5140035R
0.40	0.0157			1.0		5140040R
0.45	0.0177			1.2		5140045R
0.50	0.0197			1.2		5140050R
0.55	0.0217			1.4		5140055R
0.60	0.0236			1.4		5140060R
0.65	0.0256			1.7		5140065R
0.70	0.0276			1.7		5140070R
0.75	0.0295			1.7		5140075R
0.80	0.0315			1.8		5140080R
0.85	0.0335			1.8		5140085R
0.90	0.0354			2.0		5140090R
0.95	0.0374			2.0		5140095R
1.00	0.0394			2.0		5140100R
1.05	0.0413			2.3		5140105R
1.10	0.0433			2.3		5140110R
1.15	0.0453			2.3		5140115R
1.20	0.0472			2.7		5140120R
1.25	0.0492			2.7		5140125R
1.30	0.0512			2.7		5140130R
1.35	0.0531			2.7		5140135R
1.40	0.0551	54		2.7		5140140R
1.45	0.0571			2.7		5140145R
1.50	0.0591			3.0		5140150R
1.60	0.0630	51	2.0	3.0		5140160R

5140 Series HSS-E Cobalt 8% - Drill Sizes 0.20 – 3.00mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.
1.70	0.0669		2.0	3.3	25.0	5140170R
1.80	0.0709			3.3		5140180R
1.90	0.0748			3.3		5140190R
2.00	0.0787			4.0		5140200R
2.10	0.0827		2.5	4.0		5140210R
2.20	0.0866			4.0		5140220R
2.30	0.0906			4.6		5140230R
2.40	0.0945			4.6		5140240R
2.50	0.0984			4.6		5140250R
2.60	0.1024		3.0	4.6		5140260R
2.70	0.1063			4.6		5140270R
2.80	0.1102			5.3		5140280R
2.90	0.1142			5.3		5140290R
3.00	0.1181			5.3		5140300R

Pilot Drills

- For use prior to using 5100 series drills
- Can be used as pilot drill with 2-3 x D Depth

5100 Series HSS-E Cobalt 8%**5 x D – Depth of Cut 120°**

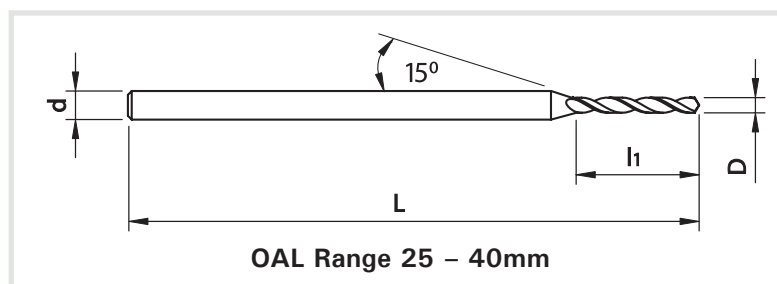
+ 0.000/- 0.006mm (h6)

For materials with long forming chips, steel up to 35 rhc, copper, stainless, titanium.

All items can be ordered as left hand at same pricing. Special, custom specification items available.

Custom specifications such as:

- Helix angle of 15°, 30°, 35° or other
- Point angles of 90°, 110°, 130°, 140° or other
- Special diameters of 1.255mm or other
- Special tolerances as +/- 0.001mm or other
- Coatings available upon request
- Minimum custom order is 10 Pieces
- **Lead-time on custom orders—4 weeks ARO**

**5100 Series HSS-E Cobalt 8% - Drill Sizes 0.10 – 0.65mm***NOTE: Sold in 10 piece packages only*

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.
0.10	0.0039		1.0	0.7	25	5100010R
0.11	0.0043					5100011R
0.12	0.0047					5100012R
0.13	0.0051					5100013R
0.14	0.0055					5100014R
0.15	0.0059	97		1.0		5100015R
0.16	0.0063	96				5100016R
0.17	0.0067	95				5100017R
0.18	0.0071	94				5100018R
0.19	0.0075	93				5100019R
0.20	0.0079	92		1.4		5100020R
0.21	0.0083	91				5100021R
0.22	0.0087	90				5100022R
0.23	0.0091	89				5100023R
0.24	0.0094	88				5100024R
0.25	0.0098			1.8		5100025R
0.26	0.0102					5100026R
0.27	0.0106	86				5100027R
0.28	0.0110	85				5100028R
0.29	0.0114	84				5100029R
0.30	0.0118			2.2		5100030R
0.31	0.0122					5100031R
0.32	0.0126	82				5100032R
0.33	0.0130	81				5100033R
0.34	0.0134	80				5100034R
0.35	0.0138					5100035R
0.36	0.0142					5100036R
0.37	0.0146	79		2.8		5100037R

5100 Series HSS-E Cobalt 8% - Drill Sizes 0.10 – 0.65mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.
0.38	0.0150		1	2.8	25	5100038R
0.39	0.0154			3.2		5100039R
0.40	0.0157					5100040R
0.41	0.0161	78				5100041R
0.42	0.0165					5100042R
0.43	0.0169					5100043R
0.44	0.0173					5100044R
0.45	0.0177					5100045R
0.46	0.0181	77				3.6
0.47	0.0185			5100047R		
0.48	0.0189		5100048R			
0.49	0.0193		5100049R			
0.50	0.0197		5100050R			
0.51	0.0201	76	4.0	5100051R		
0.52	0.0205			5100052R		
0.53	0.0209	75		5100053R		
0.54	0.0213			5100054R		
0.55	0.0217			5100055R		
0.56	0.0220			5100056R		
0.57	0.0224	74		4.5		5100057R
0.58	0.0228					5100058R
0.59	0.0232		5100059R			
0.60	0.0236		5100060R			
0.61	0.0240	73	4.7			5100061R
0.62	0.0244					5100062R
0.63	0.0248	72				5100063R
0.64	0.0252					5100064R
0.65	0.0256			5100065R		

Series 5100 Continued

5100 Series HSS-E Cobalt 8%

5 x D – Depth of Cut 120°, continued



5100 Series HSS-E Cobalt 8% - Drill Sizes 0.66 – 1.59mm

NOTE: Sold in 10 piece packages only

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.			
0.66	0.0260	71	1.5	4.7	25.0	5100066R			
0.67	0.0264			5.2		5100067R			
0.68	0.0268						5100068R		
0.69	0.0272						5100069R		
0.70	0.0276						5100070R		
0.71	0.0280	70					5100071R		
0.72	0.0283						5100072R		
0.73	0.0287						5100073R		
0.74	0.0291	69					5100074R		
0.75	0.0295						5100075R		
0.76	0.0299						5100076R		
0.77	0.0303			5100077R					
0.78	0.0307			5100078R					
0.79	0.0311	68-1/32		5.5		5100079R			
0.80	0.0315						5100080R		
0.81	0.0319	67					5100081R		
0.82	0.0323						5100082R		
0.83	0.0327						5100083R		
0.84	0.0331	66					5100084R		
0.85	0.0335						5100085R		
0.86	0.0339						5100086R		
0.87	0.0343						5100087R		
0.88	0.0346						5100088R		
0.89	0.0350	65		5100089R					
0.90	0.0354			5100090R					
0.91	0.0358	64		6.0		5100091R			
0.92	0.0362						5100092R		
0.93	0.0366						5100093R		
0.94	0.0370	63					5100094R		
0.95	0.0374						5100095R		
0.96	0.0378	62					6.5	5100096R	
0.97	0.0382								5100097R
0.98	0.0386								5100098R
0.99	0.0390	61							5100099R
1.00	0.0394								5100100R
1.01	0.0398	60		5100101R					
1.02	0.0402		5100102R						
1.03	0.0406		5100103R						
1.04	0.0409	59	5100104R						
1.05	0.0413		5100105R						
1.06	0.0417		7.0	5100106R					
1.07	0.0421	58			5100107R				
1.08	0.0425				5100108R				
1.09	0.0429	57			5100109R				
1.10	0.0433				5100110R				
1.11	0.0437				5100111R				
1.12	0.0441				5100112R				

5100 Series HSS-E Cobalt 8% - Drill Sizes 1.60 – 2.53mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.
1.13	0.0445		1.5	7.0	25.0	5100113R
1.14	0.0449					5100114R
1.15	0.0453					5100115R
1.16	0.0457					5100116R
1.17	0.0461					5100117R
1.18	0.0465	56				5100118R
1.19	0.0469	3/64		5100119R		
1.20	0.0472			5100120R		
1.21	0.0476			5100121R		
1.22	0.0480			5100122R		
1.23	0.0484			5100123R		
1.24	0.0488			5100124R		
1.25	0.0492			5100125R		
1.26	0.0496			5100126R		
1.27	0.0500			5100127R		
1.28	0.0504			5100128R		
1.29	0.0508			5100129R		
1.30	0.0512			5100130R		
1.31	0.0516			5100131R		
1.32	0.0520	55		5100132R		
1.33	0.0524			5100133R		
1.34	0.0528			5100134R		
1.35	0.0531			5100135R		
1.36	0.0535			5100136R		
1.37	0.0539			5100137R		
1.38	0.0543			5100138R		
1.39	0.0547			5100139R		
1.40	0.0551	54		5100140R		
1.41	0.0555			5100141R		
1.42	0.0559			5100142R		
1.43	0.0563		5100143R			
1.44	0.0567		5100144R			
1.45	0.0571		5100145R			
1.46	0.0575		5100146R			
1.47	0.0579		5100147R			
1.48	0.0583		5100148R			
1.49	0.0587		5100149R			
1.50	0.0591		2.0	10.0	35.0	5100150R
1.51	0.0594	53				5100151R
1.52	0.0598					5100152R
1.53	0.0602					5100153R
1.54	0.0606					5100154R
1.55	0.0610					5100155R
1.56	0.0614					5100156R
1.57	0.0618					5100157R
1.58	0.0622					5100158R
1.59	0.0626	1/16				5100159R

Series 5100 Continued

5100 Series HSS-E Cobalt 8%

5 x D – Depth of Cut 120°, continued



5100 Series HSS-E Cobalt 8% - Drill Sizes 1.60 – 2.53mm

NOTE: Sold in 10 piece packages only

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	I1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.
1.60	0.0630		2.0	10.0	35.0	5100160R
1.61	0.0634	52				5100161R
1.62	0.0638					5100162R
1.63	0.0642					5100163R
1.64	0.0646					5100164R
1.65	0.0650					5100165R
1.66	0.0654					5100166R
1.67	0.0657					5100167R
1.68	0.0661					5100168R
1.69	0.0665					5100169R
1.70	0.0669	51				5100170R
1.71	0.0673					5100171R
1.72	0.0677					5100172R
1.73	0.0681					5100173R
1.74	0.0685					5100174R
1.75	0.0689					5100175R
1.76	0.0693					5100176R
1.77	0.0697					5100177R
1.78	0.0701	50		5100178R		
1.79	0.0705			5100179R		
1.80	0.0709			5100180R		
1.81	0.0713			5100181R		
1.82	0.0717			5100182R		
1.83	0.0720			5100183R		
1.84	0.0724			5100184R		
1.85	0.0728	49		5100185R		
1.86	0.0732			5100186R		
1.87	0.0736			5100187R		
1.88	0.0740			5100188R		
1.89	0.0744			5100189R		
1.90	0.0748			5100190R		
1.91	0.0752			5100191R		
1.92	0.0756			5100192R		
1.93	0.0760	48		5100193R		
1.94	0.0764		5100194R			
1.95	0.0768		5100195R			
1.96	0.0772		5100196R			
1.97	0.0776		5100197R			
1.98	0.0780	5/64	5100198R			
1.99	0.0783	47	5100199R			
2.00	0.0787		5100200R			
2.01	0.0791		2.5	12.0	5100201R	
2.02	0.0795				5100202R	
2.03	0.0799				5100203R	
2.04	0.0803				5100204R	
2.05	0.0807				5100205R	
2.06	0.0811	46			5100206R	

5100 Series HSS-E Cobalt 8% - Drill Sizes 1.60 – 2.53mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	I1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.
2.07	0.0815		2.5	12.0	35.0	5100207R
2.08	0.0819	45				5100208R
2.09	0.0823					5100209R
2.10	0.0827					5100210R
2.11	0.0831					5100211R
2.12	0.0835					5100212R
2.13	0.0839					5100213R
2.14	0.0843					5100214R
2.15	0.0846					5100215R
2.16	0.0850					5100216R
2.17	0.0854					5100217R
2.18	0.0858	44				5100218R
2.19	0.0862					5100219R
2.20	0.0866					5100220R
2.21	0.0870					5100221R
2.22	0.0874			5100222R		
2.23	0.0878			5100223R		
2.24	0.0882			5100224R		
2.25	0.0886			5100225R		
2.26	0.0890	43		5100226R		
2.27	0.0894			5100227R		
2.28	0.0898			5100228R		
2.29	0.0902			5100229R		
2.30	0.0906			5100230R		
2.31	0.0909			5100231R		
2.32	0.0913			5100232R		
2.33	0.0917			5100233R		
2.34	0.0921			5100234R		
2.35	0.0925			5100235R		
2.36	0.0929			5100236R		
2.37	0.0933			5100237R		
2.38	0.0937	3/32		5100238R		
2.39	0.0941			5100239R		
2.40	0.0945			5100240R		
2.41	0.0949			5100241R		
2.42	0.0953			5100242R		
2.43	0.0957			5100243R		
2.44	0.0961	41		5100244R		
2.45	0.0965			5100245R		
2.46	0.0969			5100246R		
2.47	0.0972			5100247R		
2.48	0.0976			5100248R		
2.49	0.0980	40		5100249R		
2.50	0.0984			5100250R		
2.51	0.0988			3.0		16.0
2.52	0.0992		5100252R			
2.53	0.0996	39	5100253R			

Series 5100 Continued

5100 Series HSS-E Cobalt 8%

5 x D – Depth of Cut 120°, continued

5100 Series HSS-E Cobalt 8% - Drill Sizes 2.54 – 3.00mm

NOTE: Sold in 10 piece packages only

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	I1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.
2.54	0.1000		3.0	16.0	40.0	5100254R
2.55	0.1004					5100255R
2.56	0.1008					5100256R
2.57	0.1012					5100257R
2.58	0.1016	38				5100258R
2.59	0.1020					5100259R
2.60	0.1024					5100260R
2.61	0.1028					5100261R
2.62	0.1031					5100262R
2.63	0.1035					5100263R
2.64	0.1039	37				5100264R
2.65	0.1043					5100265R
2.66	0.1047					5100266R
2.67	0.1051					5100267R
2.68	0.1055					5100268R
2.69	0.1059					5100269R
2.70	0.1063	36				5100270R
2.71	0.1067					5100271R
2.72	0.1071					5100272R
2.73	0.1075					5100273R
2.74	0.1079					5100274R
2.75	0.1083					5100275R
2.76	0.1087					5100276R
2.77	0.1091			18.0		5100277R

5100 Series HSS-E Cobalt 8% - Drill Sizes 2.54 – 3.00mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	I1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.
2.78	0.1094	7/64	3.0	18.0	40.0	5100278R
2.79	0.1098	35				5100279R
2.80	0.1102					5100280R
2.81	0.1106					5100281R
2.82	0.1110	34				5100282R
2.83	0.1114					5100283R
2.84	0.1118					5100284R
2.85	0.1122					5100285R
2.86	0.1126					5100286R
2.87	0.1130	33				5100287R
2.88	0.1134					5100288R
2.89	0.1138					5100289R
2.90	0.1142					5100290R
2.91	0.1146					5100291R
2.92	0.1150					5100292R
2.93	0.1154					5100293R
2.94	0.1157					5100294R
2.95	0.1161	32				5100295R
2.96	0.1165					5100296R
2.97	0.1169					5100297R
2.98	0.1173					5100298R
2.99	0.1177					5100299R
3.00	0.1181					5100300R

5100 Series HSS-E Cobalt 8%



- For materials with long forming chips, steel up to 35 RHC, Copper, Stainless, Titanium
- Amazing dimension control at h6, h4 & h3 μ m tolerances
- Ultra-fine surface finish for smooth operation
- Superb heat treating for outstanding performance & long tool life
- Coatings available upon request

6140 Series Solid Carbide

2-3 x D, Center Cut – Pilot – Spot Drills 120°

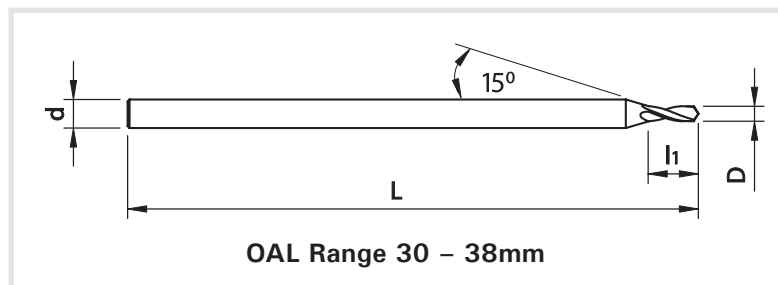


+ 0.000/- 0.006mm (h6) Uncoated Version
+ 0.002/-0.004mm Coated Version

For use prior to using 6120 and 6100 series drills. Can also be used as a drill with 2–3 x D depth.
All items can be ordered as left hand at same pricing. Special, custom specification items available.

Custom specifications such as:

- Helix angle of 15°, 30°, 35° or other
- Point angles of 90°, 110°, 130°, 140° or other
- Special diameters as 0.92mm or other
- Special tolerances as +/- 0.001mm or other
- Coolant thru drills at 3 and 4mm shanks and 1.25 to 3mm flute diameters
- Coatings available upon request
- Minimum custom order is 10 Pieces
- 4mm for specials
- Lead-time on custom orders—4 Weeks ARO**



Non-stock: allow 4 weeks for delivery

6140 Series Solid Carbide* - Drill Sizes 0.20 – 3.00mm							
NOTE: Sold in 10 piece packages only							
D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	L1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
0.20	0.0079	92	1.5	.9	30.0	6140020R	-
0.25	0.0098					6140025R	-
0.30	0.0118					6140030R	-
0.35	0.0138					6140035R	-
0.40	0.0157					6140040R	-
0.45	0.0177					6140045R	-
0.50	0.0197			1.9		6140050R	6140050RC
0.55	0.0217					6140055R	6140055RC
0.60	0.0236					6140060R	6140060RC
0.65	0.0256					6140065R	6140065RC
0.70	0.0276			2.4		6140070R	6140070RC
0.75	0.0295					6140075R	6140075RC
0.80	0.0315					6140080R	6140080RC
0.85	0.0335					6140085R	6140085RC
0.90	0.0354			3.0		6140090R	6140090RC
0.95	0.0374					6140095R	6140095RC
1.00	0.0394					6140100R	6140100RC
1.05	0.0413					6140105R	6140105RC
1.10	0.0433			3.8		6140110R	6140110RC
1.15	0.0453					6140115R	6140115RC
1.20	0.0472					6140120R	6140120RC

6140 Series Solid Carbide - Drill Sizes 0.20 – 3.00mm								
D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	L1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.	
1.25	0.0492		1.5	4.2	30.0	6140125R	6140125RC	
1.30	0.0512					6140130R	6140130RC	
1.35	0.0531					6140135R	6140135RC	
1.40	0.0551	54				6140140R	6140140RC	
1.45	0.0571					6140145R	6140145RC	
1.50	0.0591					6140150R	6140150RC	
1.60	0.0630	51	2.0	5.4	38.0	6140160R	6140160RC	
1.70	0.0669					6140170R	6140170RC	
1.80	0.0709					6140180R	6140180RC	
1.90	0.0748					6140190R	6140190RC	
2.00	0.0787	3.0				6.5	6140200R	6140200RC
2.10	0.0827						6140210R	6140210RC
2.20	0.0866		6140220R	6140220RC				
2.30	0.0906		6140230R	6140230RC				
2.40	0.0945		6140240R	6140240RC				
2.50	0.0984		6140250R	6140250RC				
2.60	0.1024		7.5	6140260R	6140260RC			
2.70	0.1063			6140270R	6140270RC			
2.80	0.1102			6140280R	6140280RC			
2.90	0.1142			6140290R	6140290RC			
3.00	0.1181	6140300R		6140300RC				

*SPECIAL ORDERS: Series 6140 flute diameters coated sizes smaller than 0.50mm are special order. Please contact Pilot Precision Products for details at 413-350-5200.

6130 Series Solid Carbide

4-5 x D – Depth of Cut 120°



h6 Tolerance Reinforced Shank d 3.0mm



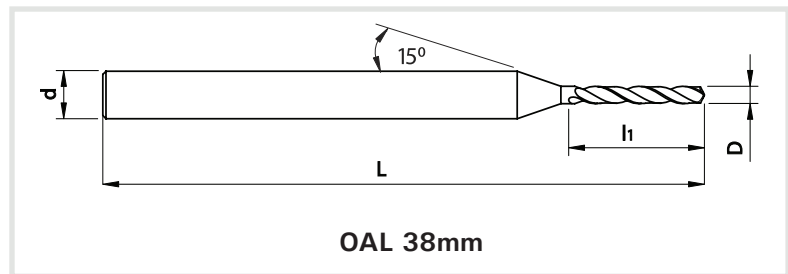
+ 0.000/- 0.006mm (h6) Uncoated Version
+ 0.002/-0.004mm Coated Version

For soft, medium to high tensile strength steel, stainless, titanium alloys and cast iron.

All items can be ordered as left hand at same pricing. Special, custom specification items available.

Custom specifications such as:

- Helix angle of 15°, 30°, 35° or other
- Point Angles of 90°, 110°, 130°, 140° or other
- Special Diameters as 1.255mm or other
- Special Tolerances as +/- 0.001mm or other
- Minimum custom order is 10 pieces
- 4mm for specials
- Lead-Time on custom orders—4 Weeks ARO



Non-stock: allow 4 weeks for delivery

6130 Series Solid Carbide - Drill Sizes 0.20 – 0.88mm

NOTE: Sold in 10 piece packages only

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	I1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
0.20	0.0079	92	3.0	1.1	38.0	6130020R	-
0.21	0.0083	91				6130021R	-
0.22	0.0087	90				6130022R	-
0.23	0.0091	89				6130023R	-
0.24	0.0094	88				6130024R	-
0.25	0.0098					6130025R	-
0.26	0.0102			1.3		6130026R	-
0.27	0.0106	86				6130027R	-
0.28	0.0110	85				6130028R	-
0.29	0.0114	84				6130029R	-
0.30	0.0118					6130030R	-
0.31	0.0122					6130031R	-
0.32	0.0126	82		1.6		6130032R	-
0.33	0.0130	81				6130033R	-
0.34	0.0134	80				6130034R	-
0.35	0.0138					6130035R	-
0.36	0.0142					6130036R	-
0.37	0.0146	79				6130037R	-
0.38	0.0150					6130038R	-
0.39	0.0154					6130039R	-
0.40	0.0157			2.0		6130040R	-
0.41	0.0161	78				6130041R	-
0.42	0.0165					6130042R	-
0.43	0.0169					6130043R	-
0.44	0.0173					6130044R	-
0.45	0.0177					6130045R	-
0.46	0.0181	77				6130046R	-
0.47	0.0185					6130047R	-
0.48	0.0189					6130048R	-
0.49	0.0193					6130049R	-
0.50	0.0197			2.4		6130050R	6130050RC
0.51	0.0201	76				6130051R	6130051RC
0.52	0.0205					6130052R	6130052RC
0.53	0.0209	75				6130053R	6130053RC
0.54	0.0213			2.8		6130054R	6130054RC

6130 Series Solid Carbide - Drill Sizes 0.20 – 0.88mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
0.55	0.0217		3.0	2.8	38.0	6130055R	6130055RC
0.56	0.0220					6130056R	6130056RC
0.57	0.0224	74				6130057R	6130057RC
0.58	0.0228					6130058R	6130058RC
0.59	0.0232					6130059R	6130059RC
0.60	0.0236			6130060R		6130060RC	
0.61	0.0240	73		6130061R		6130061RC	
0.62	0.0244			6130062R		6130062RC	
0.63	0.0248	72		6130063R		6130063RC	
0.64	0.0252			6130064R		6130064RC	
0.65	0.0256			6130065R		6130065RC	
0.66	0.0260	71		6130066R		6130066RC	
0.67	0.0264			6130067R		6130067RC	
0.68	0.0268			6130068R		6130068RC	
0.69	0.0272			6130069R		6130069RC	
0.70	0.0276			6130070R		6130070RC	
0.71	0.0280	70		6130071R		6130071RC	
0.72	0.0283			6130072R		6130072RC	
0.73	0.0287			6130073R		6130073RC	
0.74	0.0291	69		6130074R		6130074RC	
0.75	0.0295			6130075R		6130075RC	
0.76	0.0299			6130076R		6130076RC	
0.77	0.0303			6130077R		6130077RC	
0.78	0.0307			6130078R		6130078RC	
0.79	0.0311	68-1/32		6130079R		6130079RC	
0.80	0.0315			6130080R		6130080RC	
0.81	0.0319	67		6130081R		6130081RC	
0.82	0.0323			6130082R		6130082RC	
0.83	0.0327			6130083R		6130083RC	
0.84	0.0331	66		6130084R		6130084RC	
0.85	0.0335			6130085R		6130085RC	
0.86	0.0339			6130086R		6130086RC	
0.87	0.0343			6130087R		6130087RC	
0.88	0.0346			6130088R		6130088RC	

Series 6130 Continued

*SPECIAL ORDERS: Series 6130 flute diameters coated sizes smaller than 0.50mm are special order.
Please contact Pilot Precision Products for details.

6130 Series Solid Carbide

4-5 x D – Depth of Cut 120°, continued

Non-stock: allow 4 weeks for delivery

6130 Series Solid Carbide - Drill Sizes 0.89–1.99 mm x 3mm Shank Tools <i>NOTE: Sold in 10 piece packages only</i>							
D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
0.89	0.0350	65	3.0	4.8	38.0	6130089R	6130089RC
0.90	0.0354					6130090R	6130090RC
0.91	0.0358	64				6130091R	6130091RC
0.92	0.0362					6130092R	6130092RC
0.93	0.0366					6130093R	6130093RC
0.94	0.0370	63				6130094R	6130094RC
0.95	0.0374					6130095R	6130095RC
0.96	0.0378	62				6130096R	6130096RC
0.97	0.0382					6130097R	6130097RC
0.98	0.0386					6130098R	6130098RC
0.99	0.0390	61				6130099R	6130099RC
1.00	0.0394					6130100R	6130100RC
1.01	0.0398	60				6130101R	6130101RC
1.02	0.0402					6130102R	6130102RC
1.03	0.0406					6130103R	6130103RC
1.04	0.0409	59				6130104R	6130104RC
1.05	0.0413					6130105R	6130105RC
1.06	0.0417					6130106R	6130106RC
1.07	0.0421	58				6130107R	6130107RC
1.08	0.0425					6130108R	6130108RC
1.09	0.0429	57				6130109R	6130109RC
1.100	0.0433					6130110R	6130110RC
1.11	0.0437			6130111R		6130111RC	
1.12	0.0441			6130112R		6130112RC	
1.13	0.0445			6130113R		6130113RC	
1.14	0.0449			6130114R		6130114RC	
1.15	0.0453			6130115R		6130115RC	
1.16	0.0457			6130116R		6130116RC	
1.17	0.0461			6130117R		6130117RC	
1.18	0.0465	56		6130118R		6130118RC	
1.19	0.0469	3/64		6130119R		6130119RC	
1.20	0.0472			6130120R		6130120RC	
1.21	0.0476			6130121R		6130121RC	
1.22	0.0480			6130122R		6130122RC	
1.23	0.0484			6130123R		6130123RC	
1.24	0.0488			6130124R		6130124RC	
1.25	0.0492			6130125R		6130125RC	
1.26	0.0496			6130126R		6130126RC	
1.27	0.0500			6130127R		6130127RC	
1.28	0.0504			6130128R		6130128RC	
1.29	0.0508			6130129R		6130129RC	
1.30	0.0512			6130130R		6130130RC	
1.31	0.0516			6130131R		6130131RC	
1.32	0.0520	55		6130132R		6130132RC	
1.33	0.0524			6130133R		6130133RC	
1.34	0.0528			6130134R		6130134RC	
1.35	0.0531			6130135R		6130135RC	
1.36	0.0535			6130136R		6130136RC	
1.37	0.0539			6130137R		6130137RC	
1.38	0.0543			6130138R		6130138RC	
1.39	0.0547			6130139R		6130139RC	
1.40	0.0551	54		6130140R		6130140RC	
1.41	0.0555			6130141R		6130141RC	
1.42	0.0559			6130142R		6130142RC	
1.43	0.0563			6130143R		6130143RC	
1.44	0.0567			6130144R		6130144RC	

6130 Series Solid Carbide - Drill Sizes 0.89–1.99 mm x 3mm Shank Tools							
D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
1.45	0.0571		3.0	6.7	38.0	6130145R	6130145RC
1.46	0.0575					6130146R	6130146RC
1.47	0.0579					6130147R	6130147RC
1.48	0.0583					6130148R	6130148RC
1.49	0.0587					6130149R	6130149RC
1.50	0.0591			7.2		6130150R	6130150RC
1.51	0.0594	53				6130151R	6130151RC
1.52	0.0598					6130152R	6130152RC
1.53	0.0602					6130153R	6130153RC
1.54	0.0606					6130154R	6130154RC
1.55	0.0610					6130155R	6130155RC
1.56	0.0614					6130156R	6130156RC
1.57	0.0618					6130157R	6130157RC
1.58	0.0622					6130158R	6130158RC
1.59	0.0626	1/16				6130159R	6130159RC
1.60	0.0630					6130160R	6130160RC
1.61	0.0634	52				6130161R	6130161RC
1.62	0.0638					6130162R	6130162RC
1.63	0.0642					6130163R	6130163RC
1.64	0.0646					6130164R	6130164RC
1.65	0.0650					6130165R	6130165RC
1.66	0.0654					6130166R	6130166RC
1.67	0.0657					6130167R	6130167RC
1.68	0.0661					6130168R	6130168RC
1.69	0.0665					6130169R	6130169RC
1.70	0.0669	51				6130170R	6130170RC
1.71	0.0673			8.4		6130171R	6130171RC
1.72	0.0677					6130172R	6130172RC
1.73	0.0681					6130173R	6130173RC
1.74	0.0685					6130174R	6130174RC
1.75	0.0689					6130175R	6130175RC
1.76	0.0693					6130176R	6130176RC
1.77	0.0697					6130177R	6130177RC
1.78	0.0701	50				6130178R	6130178RC
1.79	0.0705					6130179R	6130179RC
1.80	0.0709					6130180R	6130180RC
1.81	0.0713					6130181R	6130181RC
1.82	0.0717					6130182R	6130182RC
1.83	0.0720					6130183R	6130183RC
1.84	0.0724					6130184R	6130184RC
1.85	0.0728	49				6130185R	6130185RC
1.86	0.0732					6130186R	6130186RC
1.87	0.0736					6130187R	6130187RC
1.88	0.0740					6130188R	6130188RC
1.89	0.0744					6130189R	6130189RC
1.90	0.0748					6130190R	6130190RC
1.91	0.0752					6130191R	6130191RC
1.92	0.0756					6130192R	6130192RC
1.93	0.0760	48				6130193R	6130193RC
1.94	0.0764					6130194R	6130194RC
1.95	0.0768					6130195R	6130195RC
1.96	0.0772					6130196R	6130196RC
1.97	0.0776					6130197R	6130197RC
1.98	0.0780	5/64				6130198R	6130198RC
1.99	0.0783	47				6130199R	6130199RC

NOTE: For 2.00 to 3.00mm x 3mm Shank go to 6120 Series

6120 Series Solid Carbide

4-5 x D – Depth of Cut 120°



+ 0.000/- 0.006mm (h6) Uncoated Version
+ 0.002/-0.004mm Coated Version

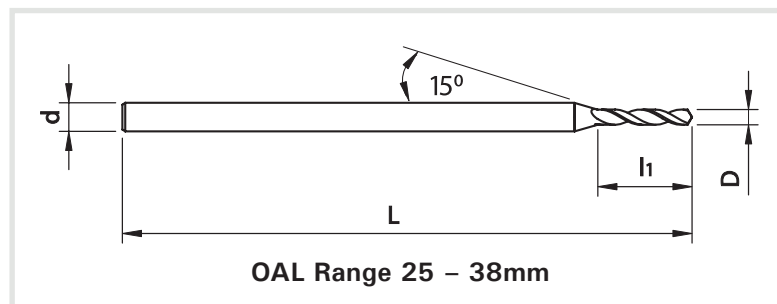
For medium to high tensile strength steel, stainless, titanium alloys and cast iron.

All items can be ordered as left hand at same pricing. Special, custom specification items available.

Custom specifications such as:

- Helix angle of 15°, 24°, 30° or other
- Point angles of 90°, 110°, 130°, 140° or other
- Special diameters as 1.255mm or other
- Special tolerances as +/- 0.001mm or other
- Coolant thru drills at 3 and 4mm shanks and 1.25 to 3mm flute diameters
- Coatings available upon request
- Minimum custom order is 10 Pieces / Spec.
- 4mm max for specials
- Lead-time on custom orders—4 Weeks ARO

Non-stock: allow 4 weeks for delivery



6120 Series Solid Carbide - Drill Sizes 0.20 – 0.71mm

NOTE: Sold in 10 piece packages only

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
0.20	0.0079	92	1.0	1.1	25.0	6120020R	-
0.21	0.0083	91				6120021R	-
0.22	0.0087	90				6120022R	-
0.23	0.0091	89				6120023R	-
0.24	0.0094	88				6120024R	-
0.25	0.0098			1.3		6120025R	-
0.26	0.0102					6120026R	-
0.27	0.0106	86				6120027R	-
0.28	0.0110	85				6120028R	-
0.29	0.0114	84				6120029R	-
0.30	0.0118			1.6		6120030R	-
0.31	0.0122					6120031R	-
0.32	0.0126	82				6120032R	-
0.33	0.0130	81				6120033R	-
0.34	0.0134	80				6120034R	-
0.35	0.0138			2.0		6120035R	-
0.36	0.0142					6120036R	-
0.37	0.0146	79				6120037R	-
0.38	0.0150					6120038R	-
0.39	0.0154					6120039R	-
0.40	0.0157					6120040R	-
0.41	0.0161	78				6120041R	-
0.42	0.0165					6120042R	-
0.43	0.0169					6120043R	-
0.44	0.0173					6120044R	-
0.45	0.0177					6120045R	-

6120 Series Solid Carbide - Drill Sizes 0.20 – 0.71mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
0.46	0.0181	77	1.0	2.0	25.0	6120046R	-
0.47	0.0185					6120047R	-
0.48	0.0189					6120048R	-
0.49	0.0193					6120049R	-
0.50	0.0197			2.4		6120050R	6120050RC
0.51	0.0201	76				6120051R	6120051RC
0.52	0.0205					6120052R	6120052RC
0.53	0.0209	75				6120053R	6120053RC
0.54	0.0213			2.8		6120054R	6120054RC
0.55	0.0217					6120055R	6120055RC
0.56	0.0220					6120056R	6120056RC
0.57	0.0224	74				6120057R	6120057RC
0.58	0.0228		1.5	2.8	6120058R	6120058RC	
0.59	0.0232				6120059R	6120059RC	
0.60	0.0236				3.0	6120060R	6120060RC
0.61	0.0240	73				6120061R	6120061RC
0.62	0.0244			6120062R		6120062RC	
0.63	0.0248	72		6120063R		6120063RC	
0.64	0.0252			3.3	6120064R	6120064RC	
0.65	0.0256				6120065R	6120065RC	
0.66	0.0260	71			6120066R	6120066RC	
0.67	0.0264				6120067R	6120067RC	
0.68	0.0268			3.8	6120068R	6120068RC	
0.69	0.0272				6120069R	6120069RC	
0.70	0.0276				6120070R	6120070RC	
0.71	0.0280	70			6120071R	6120071RC	

Series 6120 Continued

*SPECIAL ORDERS: Series 6120 flute diameters coated sizes smaller than 0.50mm are special order.
Please contact Pilot Precision Products for details.

6120 Series Solid Carbide

4-5 x D – Depth of Cut 120°, continued



Non-stock: allow 4 weeks for delivery

6120 Series Solid Carbide - Drill Sizes 0.72 – 1.65mm							
NOTE: Sold in 10 piece packages only							
D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
0.72	0.0283			3.8		6120072R	6120072RC
0.73	0.0287					6120073R	6120073RC
0.74	0.0291	69				6120074R	6120074RC
0.75	0.0295					6120075R	6120075RC
0.76	0.0299					6120076R	6120076RC
0.77	0.0303			4.2		6120077R	6120077RC
0.78	0.0307					6120078R	6120078RC
0.79	0.0311	68-1/32				6120079R	6120079RC
0.80	0.0315					6120080R	6120080RC
0.81	0.0319	67				6120081R	6120081RC
0.82	0.0323					6120082R	6120082RC
0.83	0.0327			4.4		6120083R	6120083RC
0.84	0.0331	66				6120084R	6120084RC
0.85	0.0335					6120085R	6120085RC
0.86	0.0339					6120086R	6120086RC
0.87	0.0343					6120087R	6120087RC
0.88	0.0346					6120088R	6120088RC
0.89	0.0350	65				6120089R	6120089RC
0.90	0.0354					6120090R	6120090RC
0.91	0.0358	64				6120091R	6120091RC
0.92	0.0362					6120092R	6120092RC
0.93	0.0366					6120093R	6120093RC
0.94	0.0370	63				6120094R	6120094RC
0.95	0.0374					6120095R	6120095RC
0.96	0.0378	62				6120096R	6120096RC
0.97	0.0382					6120097R	6120097RC
0.98	0.0386			4.8		6120098R	6120098RC
0.99	0.0390	61				6120099R	6120099RC
1.00	0.0394					6120100R	6120100RC
1.01	0.0398	60				6120101R	6120101RC
1.02	0.0402					6120102R	6120102RC
1.03	0.0406					6120103R	6120103RC
1.04	0.0409	59				6120104R	6120104RC
1.05	0.0413					6120105R	6120105RC
1.06	0.0417					6120106R	6120106RC
1.07	0.0421	58				6120107R	6120107RC
1.08	0.0425					6120108R	6120108RC
1.09	0.0429	57				6120109R	6120109RC
1.10	0.0433					6120110R	6120110RC
1.11	0.0437					6120111R	6120111RC
1.12	0.0441					6120112R	6120112RC
1.13	0.0445					6120113R	6120113RC
1.14	0.0449			5.4		6120114R	6120114RC
1.15	0.0453					6120115R	6120115RC
1.16	0.0457					6120116R	6120116RC
1.17	0.0461					6120117R	6120117RC
1.18	0.0465	56				6120118R	6120118RC

6120 Series Solid Carbide - Drill Sizes 0.72 – 1.65mm							
D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
1.19	0.0469	3/64		5.4		6120119R	6120119RC
1.20	0.0472					6120120R	6120120RC
1.21	0.0476					6120121R	6120121RC
1.22	0.0480					6120122R	6120122RC
1.23	0.0484					6120123R	6120123RC
1.24	0.0488			6.0		6120124R	6120124RC
1.25	0.0492					6120125R	6120125RC
1.26	0.0496					6120126R	6120126RC
1.27	0.0500					6120127R	6120127RC
1.28	0.0504					6120128R	6120128RC
1.29	0.0508					6120129R	6120129RC
1.30	0.0512					6120130R	6120130RC
1.31	0.0516					6120131R	6120131RC
1.32	0.0520	55				6120132R	6120132RC
1.33	0.0524					6120133R	6120133RC
1.34	0.0528		1.5		30.0	6120134R	6120134RC
1.35	0.0531					6120135R	6120135RC
1.36	0.0535					6120136R	6120136RC
1.37	0.0539					6120137R	6120137RC
1.38	0.0543					6120138R	6120138RC
1.39	0.0547			6.7		6120139R	6120139RC
1.40	0.0551	54				6120140R	6120140RC
1.41	0.0555					6120141R	6120141RC
1.42	0.0559					6120142R	6120142RC
1.43	0.0563					6120143R	6120143RC
1.44	0.0567					6120144R	6120144RC
1.45	0.0571					6120145R	6120145RC
1.46	0.0575					6120146R	6120146RC
1.47	0.0579					6120147R	6120147RC
1.48	0.0583					6120148R	6120148RC
1.49	0.0587					6120149R	6120149RC
1.50	0.0591					6120150R	6120150RC
1.51	0.0594	53				6120151R	6120151RC
1.52	0.0598					6120152R	6120152RC
1.53	0.0602					6120153R	6120153RC
1.54	0.0606					6120154R	6120154RC
1.55	0.0610					6120155R	6120155RC
1.56	0.0614					6120156R	6120156RC
1.57	0.0618		2.0	7.2	38.0	6120157R	6120157RC
1.58	0.0622					6120158R	6120158RC
1.59	0.0626	1/16				6120159R	6120159RC
1.60	0.0630					6120160R	6120160RC
1.61	0.0634	52				6120161R	6120161RC
1.62	0.0638					6120162R	6120162RC
1.63	0.0642					6120163R	6120163RC
1.64	0.0646					6120164R	6120164RC
1.65	0.0650					6120165R	6120165RC

Series 6120 Continued

6120 Series Solid Carbide

4-5 x D – Depth of Cut 120°, continued



Non-stock: allow 4 weeks for delivery

6120 Series Solid Carbide - Drill Sizes 1.66 – 2.59mm

NOTE: Sold in 10 piece packages only

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	I1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
1.66	0.0654					6120166R	6120166RC
1.67	0.0657					6120167R	6120167RC
1.68	0.0661					6120168R	6120168RC
1.69	0.0665					6120169R	6120169RC
1.70	0.0669	51				6120170R	6120170RC
1.71	0.0673					6120171R	6120171RC
1.72	0.0677					6120172R	6120172RC
1.73	0.0681					6120173R	6120173RC
1.74	0.0685					6120174R	6120174RC
1.75	0.0689					6120175R	6120175RC
1.76	0.0693					6120176R	6120176RC
1.77	0.0697					6120177R	6120177RC
1.78	0.0701	50				6120178R	6120178RC
1.79	0.0705					6120179R	6120179RC
1.80	0.0709					6120180R	6120180RC
1.81	0.0713					6120181R	6120181RC
1.82	0.0717					6120182R	6120182RC
1.83	0.0720					6120183R	6120183RC
1.84	0.0724					6120184R	6120184RC
1.85	0.0728	49				6120185R	6120185RC
1.86	0.0732					6120186R	6120186RC
1.87	0.0736					6120187R	6120187RC
1.88	0.0740					6120188R	6120188RC
1.89	0.0744					6120189R	6120189RC
1.90	0.0748					6120190R	6120190RC
1.91	0.0752					6120191R	6120191RC
1.92	0.0756					6120192R	6120192RC
1.93	0.0760	48				6120193R	6120193RC
1.94	0.0764					6120194R	6120194RC
1.95	0.0768					6120195R	6120195RC
1.96	0.0772					6120196R	6120196RC
1.97	0.0776					6120197R	6120197RC
1.98	0.0780	5/64				6120198R	6120198RC
1.99	0.0783	47				6120199R	6120199RC
2.00	0.0787					6120200R	6120200RC
2.01	0.0791					6120201R	6120201RC
2.02	0.0795					6120202R	6120202RC
2.03	0.0799					6120203R	6120203RC
2.04	0.0803					6120204R	6120204RC
2.05	0.0807					6120205R	6120205RC
2.06	0.0811	46				6120206R	6120206RC
2.07	0.0815					6120207R	6120207RC
2.08	0.0819	45				6120208R	6120208RC
2.09	0.0823					6120209R	6120209RC
2.10	0.0827					6120210R	6120210RC
2.11	0.0831					6120211R	6120211RC
2.12	0.0835					6120212R	6120212RC

6120 Series Solid Carbide - Drill Sizes 1.66 – 2.59mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	I1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
2.13	0.0839					6120213R	6120213RC
2.14	0.0843					6120214R	6120214RC
2.15	0.0846					6120215R	6120215RC
2.16	0.0850					6120216R	6120216RC
2.17	0.0854					6120217R	6120217RC
2.18	0.0858	44				6120218R	6120218RC
2.19	0.0862					6120219R	6120219RC
2.20	0.0866					6120220R	6120220RC
2.21	0.0870					6120221R	6120221RC
2.22	0.0874					6120222R	6120222RC
2.23	0.0878					6120223R	6120223RC
2.24	0.0882					6120224R	6120224RC
2.25	0.0886					6120225R	6120225RC
2.26	0.0890	43				6120226R	6120226RC
2.27	0.0894					6120227R	6120227RC
2.28	0.0898					6120228R	6120228RC
2.29	0.0902					6120229R	6120229RC
2.30	0.0906					6120230R	6120230RC
2.31	0.0909					6120231R	6120231RC
2.32	0.0913					6120232R	6120232RC
2.33	0.0917					6120233R	6120233RC
2.34	0.0921					6120234R	6120234RC
2.35	0.0925					6120235R	6120235RC
2.36	0.0929					6120236R	6120236RC
2.37	0.0933					6120237R	6120237RC
2.38	0.0937	3/32				6120238R	6120238RC
2.39	0.0941					6120239R	6120239RC
2.40	0.0945					6120240R	6120240RC
2.41	0.0949					6120241R	6120241RC
2.42	0.0953					6120242R	6120242RC
2.43	0.0957					6120243R	6120243RC
2.44	0.0961	41				6120244R	6120244RC
2.45	0.0965					6120245R	6120245RC
2.46	0.0969					6120246R	6120246RC
2.47	0.0972					6120247R	6120247RC
2.48	0.0976					6120248R	6120248RC
2.49	0.0980	40				6120249R	6120249RC
2.50	0.0984					6120250R	6120250RC
2.51	0.0988					6120251R	6120251RC
2.52	0.0992					6120252R	6120252RC
2.53	0.0996	39				6120253R	6120253RC
2.54	0.1000					6120254R	6120254RC
2.55	0.1004					6120255R	6120255RC
2.56	0.1008					6120256R	6120256RC
2.57	0.1012					6120257R	6120257RC
2.58	0.1016	38				6120258R	6120258RC
2.59	0.1020					6120259R	6120259RC

Series 6120 Continued



6120 Series Solid Carbide

4-5x D – Depth of Cut 120°, continued



Non-stock: allow 4 weeks for delivery

6120 Series Solid Carbide - Drill Sizes 2.60 – 3.00mm

NOTE: Sold in 10 piece packages only

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
2.60	0.1024		3.0	14.0	38.0	6120260R	6120260RC
2.61	0.1028					6120261R	6120261RC
2.62	0.1031					6120262R	6120262RC
2.63	0.1035					6120263R	6120263RC
2.64	0.1039	37				6120264R	6120264RC
2.65	0.1043					6120265R	6120265RC
2.66	0.1047					6120266R	6120266RC
2.67	0.1051					6120267R	6120267RC
2.68	0.1055					6120268R	6120268RC
2.69	0.1059					6120269R	6120269RC
2.70	0.1063	36				6120270R	6120270RC
2.71	0.1067					6120271R	6120271RC
2.72	0.1071					6120272R	6120272RC
2.73	0.1075					6120273R	6120273RC
2.74	0.1079					6120274R	6120274RC
2.75	0.1083					6120275R	6120275RC
2.76	0.1087					6120276R	6120276RC
2.77	0.1091					6120277R	6120277RC
2.78	0.1094	7/64				6120278R	6120278RC
2.79	0.1098	35				6120279R	6120279RC
2.80	0.1102					6120280R	6120280RC

6120 Series Solid Carbide - Drill Sizes 2.60 – 3.00mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
2.81	0.1106		3.0	14.0	38.0	6120281R	6120281RC
2.82	0.1110	34				6120282R	6120282RC
2.83	0.1114					6120283R	6120283RC
2.84	0.1118					6120284R	6120284RC
2.85	0.1122					6120285R	6120285RC
2.86	0.1126					6120286R	6120286RC
2.87	0.1130	33				6120287R	6120287RC
2.88	0.1134					6120288R	6120288RC
2.89	0.1138					6120289R	6120289RC
2.90	0.1142					6120290R	6120290RC
2.91	0.1146					6120291R	6120291RC
2.92	0.1150					6120292R	6120292RC
2.93	0.1154					6120293R	6120293RC
2.94	0.1157					6120294R	6120294RC
2.95	0.1161	32				6120295R	6120295RC
2.96	0.1165					6120296R	6120296RC
2.97	0.1169					6120297R	6120297RC
2.98	0.1173					6120298R	6120298RC
2.99	0.1177					6120299R	6120299RC
3.00	0.1181					6120300R	6120300RC

6100 Series Solid Carbide

5-7 x D – Depth of Cut 120°

10% COBALT
MICRO
GRAIN
CARBIDEHARDNESS
1570 =
HV30

h6

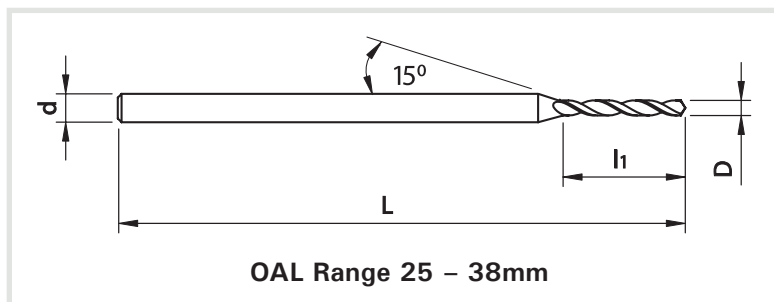
+ 0.000/- 0.006mm (h6) Uncoated Version
+ 0.002/-0.004mm Coated Version

For medium to high tensile strength steel, stainless, titanium alloys and cast iron.

All items can be ordered as left hand at same pricing. Special, custom specification items available.

Custom specifications such as:

- Helix angle of 15°, 24°, 30° or other
- Point angles of 90°, 110°, 130°, 140° or other
- Special diameters as 1.255mm or other
- Special tolerances as +/- 0.001mm or other
- Coolant thru drills at 3 and 4mm shanks
- **Special sizes up to 4mm**
- Minimum custom order is 10 Pieces / Spec.
- **Lead-time on custom orders—4 Weeks ARO**



Non-stock: allow 4 weeks for delivery

6100 Series Solid Carbide - Drill Sizes 0.10 – 0.61mm

NOTE: Sold in 10 piece packages only

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
0.10	0.0039					6100010R	-
0.11	0.0043			0.5		6100011R	-
0.12	0.0047					6100012R	-
0.13	0.0051			0.6		6100013R	-
0.14	0.0055			0.7		6100014R	-
0.15	0.0059	97				6100015R	-
0.16	0.0063	96				6100016R	-
0.17	0.0067	95				6100017R	-
0.18	0.0071	94				6100018R	-
0.19	0.0075	93				6100019R	-
0.20	0.0079	92				6100020R	-
0.21	0.0083	91				6100021R	-
0.22	0.0087	90				6100022R	-
0.23	0.0091	89				6100023R	-
0.24	0.0094	88				6100024R	-
0.25	0.0098					6100025R	-
0.26	0.0102					6100026R	-
0.27	0.0106	86				6100027R	-
0.28	0.0110	85				6100028R	-
0.29	0.0114	84				6100029R	-
0.30	0.0118					6100030R	-
0.31	0.0122					6100031R	-
0.32	0.0126	82				6100032R	-
0.33	0.0130	81				6100033R	-
0.34	0.0134	80				6100034R	-
0.35	0.0138					6100035R	-

6100 Series Solid Carbide - Drill Sizes 0.10 – 0.61mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
0.36	0.0142					6100036R	-
0.37	0.0146	79		2.8		6100037R	-
0.38	0.0150					6100038R	-
0.39	0.0154					6100039R	-
0.40	0.0157					6100040R	-
0.41	0.0161	78				6100041R	-
0.42	0.0165					6100042R	-
0.43	0.0169					6100043R	-
0.44	0.0173					6100044R	-
0.45	0.0177					6100045R	-
0.46	0.0181	77				6100046R	-
0.47	0.0185					6100047R	-
0.48	0.0189					6100048R	-
0.49	0.0193					6100049R	-
0.50	0.0197					6100050R	6100050RC
0.51	0.0201	76				6100051R	6100051RC
0.52	0.0205					6100052R	6100052RC
0.53	0.0209	75				6100053R	6100053RC
0.54	0.0213					6100054R	6100054RC
0.55	0.0217					6100055R	6100055RC
0.56	0.0220					6100056R	6100056RC
0.57	0.0224	74				6100057R	6100057RC
0.58	0.0228					6100058R	6100058RC
0.59	0.0232					6100059R	6100059RC
0.60	0.0236					6100060R	6100060RC
0.61	0.0240	73	1.5	5.0	30.0	6100061R	6100061RC

Series 6100 Continued

*SPECIAL ORDERS: Series 6100 flute diameters coated sizes smaller than 0.50mm are special order.
Please contact Pilot Precision Products for details.

6100 Series Solid Carbide

5-7 x D – Depth of Cut 120°, continued



Non-stock: allow 4 weeks for delivery

6100 Series Solid Carbide - Drill Sizes 0.62 – 1.53mm							
NOTE: Sold in 10 piece packages only							
D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	I1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
0.62	0.0244					6100062R	6100062RC
0.63	0.0248	72				6100063R	6100063RC
0.64	0.0252					6100064R	6100064RC
0.65	0.0256			5.0		6100065R	6100065RC
0.66	0.0260	71				6100066R	6100066RC
0.67	0.0264					6100067R	6100067RC
0.68	0.0268					6100068R	6100068RC
0.69	0.0272					6100069R	6100069RC
0.70	0.0276					6100070R	6100070RC
0.71	0.0280	70				6100071R	6100071RC
0.72	0.0283			5.6		6100072R	6100072RC
0.73	0.0287					6100073R	6100073RC
0.74	0.0291	69				6100074R	6100074RC
0.75	0.0295					6100075R	6100075RC
0.76	0.0299					6100076R	6100076RC
0.77	0.0303					6100077R	6100077RC
0.78	0.0307					6100078R	6100078RC
0.79	0.0311	68-1/32				6100079R	6100079RC
0.80	0.0315			6.3		6100080R	6100080RC
0.81	0.0319	67				6100081R	6100081RC
0.82	0.0323					6100082R	6100082RC
0.83	0.0327					6100083R	6100083RC
0.84	0.0331	66				6100084R	6100084RC
0.85	0.0335		1.5		30.0	6100085R	6100085RC
0.86	0.0339					6100086R	6100086RC
0.87	0.0343					6100087R	6100087RC
0.88	0.0346					6100088R	6100088RC
0.89	0.0350	65				6100089R	6100089RC
0.90	0.0354					6100090R	6100090RC
0.91	0.0358	64				6100091R	6100091RC
0.92	0.0362					6100092R	6100092RC
0.93	0.0366					6100093R	6100093RC
0.94	0.0370	63				6100094R	6100094RC
0.95	0.0374					6100095R	6100095RC
0.96	0.0378	62				6100096R	6100096RC
0.97	0.0382					6100097R	6100097RC
0.98	0.0386					6100098R	6100098RC
0.99	0.0390	61				6100099R	6100099RC
1.00	0.0394					6100100R	6100100RC
1.01	0.0398	60				6100101R	6100101RC
1.02	0.0402					6100102R	6100102RC
1.03	0.0406					6100103R	6100103RC
1.04	0.0409	59				6100104R	6100104RC
1.05	0.0413					6100105R	6100105RC
1.06	0.0417					6100106R	6100106RC
1.07	0.0421	58		9.0		6100107R	6100107RC

6100 Series Solid Carbide - Drill Sizes 0.62 – 1.53mm							
D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	I1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
1.08	0.0425					6100108R	6100108RC
1.09	0.0429	57				6100109R	6100109RC
1.10	0.0433					6100110R	6100110RC
1.11	0.0437			9.0		6100111R	6100111RC
1.12	0.0441					6100112R	6100112RC
1.13	0.0445					6100113R	6100113RC
1.14	0.0449					6100114R	6100114RC
1.15	0.0453					6100115R	6100115RC
1.16	0.0457					6100116R	6100116RC
1.17	0.0461					6100117R	6100117RC
1.18	0.0465	56				6100118R	6100118RC
1.19	0.0469	3/64				6100119R	6100119RC
1.20	0.0472					6100120R	6100120RC
1.21	0.0476					6100121R	6100121RC
1.22	0.0480					6100122R	6100122RC
1.23	0.0484			10.0		6100123R	6100123RC
1.24	0.0488					6100124R	6100124RC
1.25	0.0492					6100125R	6100125RC
1.26	0.0496					6100126R	6100126RC
1.27	0.0500					6100127R	6100127RC
1.28	0.0504		1.5		30.0	6100128R	6100128RC
1.29	0.0508					6100129R	6100129RC
1.30	0.0512					6100130R	6100130RC
1.31	0.0516					6100131R	6100131RC
1.32	0.0520	55				6100132R	6100132RC
1.33	0.0524					6100133R	6100133RC
1.34	0.0528					6100134R	6100134RC
1.35	0.0531					6100135R	6100135RC
1.36	0.0535					6100136R	6100136RC
1.37	0.0539					6100137R	6100137RC
1.38	0.0543					6100138R	6100138RC
1.39	0.0547					6100139R	6100139RC
1.40	0.0551	54		11.2		6100140R	6100140RC
1.41	0.0555					6100141R	6100141RC
1.42	0.0559					6100142R	6100142RC
1.43	0.0563					6100143R	6100143RC
1.44	0.0567					6100144R	6100144RC
1.45	0.0571					6100145R	6100145RC
1.46	0.0575					6100146R	6100146RC
1.47	0.0579					6100147R	6100147RC
1.48	0.0583					6100148R	6100148RC
1.49	0.0587					6100149R	6100149RC
1.50	0.0591					6100150R	6100150RC
1.51	0.0594	53	2.0	12.0	38.0	6100151R	6100151RC
1.52	0.0598					6100152R	6100152RC
1.53	0.0602					6100153R	6100153RC

Series 6100 Continued

6100 Series Solid Carbide

5-7 x D – Depth of Cut 120°, continued


 Non-stock: allow 4 weeks for delivery

6100 Series Solid Carbide - Drill Sizes 1.54 – 1.99mm

NOTE: Sold in 10 piece packages only

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
1.54	0.0606					6100154R	6100154RC
1.55	0.0610					6100155R	6100155RC
1.56	0.0614					6100156R	6100156RC
1.57	0.0618					6100157R	6100157RC
1.58	0.0622					6100158R	6100158RC
1.59	0.0626	1/16				6100159R	6100159RC
1.60	0.0630					6100160R	6100160RC
1.61	0.0634	52				6100161R	6100161RC
1.62	0.0638					6100162R	6100162RC
1.63	0.0642					6100163R	6100163RC
1.64	0.0646					6100164R	6100164RC
1.65	0.0650		2.0	12.0	38.0	6100165R	6100165RC
1.66	0.0654					6100166R	6100166RC
1.67	0.0657					6100167R	6100167RC
1.68	0.0661					6100168R	6100168RC
1.69	0.0665					6100169R	6100169RC
1.70	0.0669	51				6100170R	6100170RC
1.71	0.0673					6100171R	6100171RC
1.72	0.0677					6100172R	6100172RC
1.73	0.0681					6100173R	6100173RC
1.74	0.0685					6100174R	6100174RC
1.75	0.0689					6100175R	6100175RC
1.76	0.0693					6100176R	6100176RC

6100 Series Solid Carbide - Drill Sizes 1.54 – 1.99mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
1.77	0.0697					6100177R	6100177RC
1.78	0.0701	50				6100178R	6100178RC
1.79	0.0705					6100179R	6100179RC
1.80	0.0709					6100180R	6100180RC
1.81	0.0713					6100181R	6100181RC
1.82	0.0717					6100182R	6100182RC
1.83	0.0720					6100183R	6100183RC
1.84	0.0724					6100184R	6100184RC
1.85	0.0728	49				6100185R	6100185RC
1.86	0.0732					6100186R	6100186RC
1.87	0.0736					6100187R	6100187RC
1.88	0.0740		2.0	12.0	38.0	6100188R	6100188RC
1.89	0.0744					6100189R	6100189RC
1.90	0.0748					6100190R	6100190RC
1.91	0.0752					6100191R	6100191RC
1.92	0.0756					6100192R	6100192RC
1.93	0.0760	48				6100193R	6100193RC
1.94	0.0764					6100194R	6100194RC
1.95	0.0768					6100195R	6100195RC
1.96	0.0772					6100196R	6100196RC
1.97	0.0776					6100197R	6100197RC
1.98	0.0780	5/64				6100198R	6100198RC
1.99	0.0783	47				6100199R	6100199RC

NOTE: For drill sizes 2.00mm and larger See our 6120 and 6200 Series

6100 Series Solid Carbide



- For medium to high tensile strength Steel, Stainless, Titanium Alloys and Cast Iron
- Amazing dimension control at h6, h4 & h3 μm tolerances
- Ultra-fine surface finish for smooth operation
- Micro Grain Carbide with 10% Cobalt Content for outstanding performance & long tool life
- Coatings available upon request

1100 Series Solid Carbide Half Round Gun Drills | 10 x D – Depth of Cut 120°



Direct drilling, no centering required, good chip evacuation, high performance in brass connectors.

For soft materials, brass, copper, gold, silver and stainless, titanium alloys.

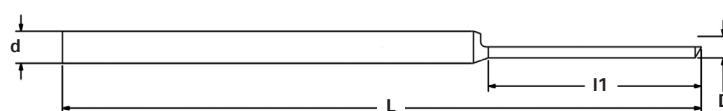
Single lip half round for outstanding coolant flow and fine surface finishes.

All items can be ordered as left hand cut at same pricing.

Special, custom specification items available.

Custom specifications such as:

- Size range from 0.5mm to 2.00mm in increments of 0.05mm
- Intermediate sizes upon request
- Special sizes, point angles and tolerances available
- Minimum custom order is 10 Pieces
- Lead-time on customs 4 weeks ARO**
- 6 weeks with coating**



OAL 30 – 38 – 50mm

1100 Series Solid Carbide Half Round Gun Drills- Drill Sizes 0.20 – 3.00mm *NOTE: Sold in 10 piece packages only*

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.
0.20	0.0079		1.50	2.00	30.0	1100020R
0.25	0.0098			2.50		1100025R
0.30	0.0118			3.00		1100030R
0.35	0.0138			3.50		1100035R
0.40	0.0157			4.00		1100040R
0.45	0.0177			4.50		1100045R
0.50	0.0197			5.00		1100050R
0.55	0.0217			5.50		1100055R
0.60	0.0236			6.00		1100060R
0.65	0.0256			6.50		1100065R
0.70	0.0276			7.00		1100070R
0.75	0.0295			7.50		1100075R
0.80	0.0315			8.00		1100080R
0.85	0.0335			8.50		1100085R
0.90	0.0354			9.00		1100090R
0.95	0.0374			9.50		1100095R
1.00	0.0394			10.00		1100100R
1.05	0.0413			11.50		1100105R
1.10	0.0433			11.00		1100110R
1.15	0.0453			11.50		1100115R
1.20	0.0472			12.00		1100120R
1.25	0.0492			12.50		1100125R
1.30	0.0512			13.00		1100130R
1.35	0.0531			13.50		1100135R

1100 Series Solid Carbide Half Round Gun Drills- Drill Sizes 0.20 – 3.00mm

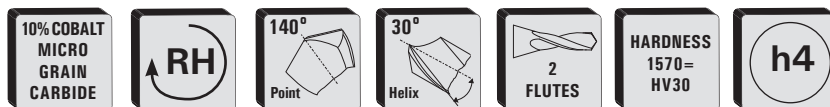
D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.
1.40	0.0551	54	1.5	14.00	30.0	1100140R
1.45	0.0571			14.50		1100145R
1.50	0.0591			15.00		1100150R
1.55	0.0610			15.50		1100155R
1.60	0.0630			16.00		1100160R
1.65	0.0650			16.50		1100165R
1.70	0.0669	51	2.0	17.00	38.0	1100170R
1.75	0.0689			17.50		1100175R
1.80	0.0709			18.00		1100180R
1.85	0.0728	49		18.50		1100185R
1.90	0.0748			19.00		1100190R
1.95	0.0768			19.50		1100195R
2.00	0.0787		3.0	20.00	50.0	1100200R
2.10	0.0827			21.00		1100210R
2.20	0.0866			22.00		1100220R
2.30	0.0906			23.00		1100230R
2.40	0.0945			24.00		1100240R
2.50	0.0984			25.00		1100250R
2.60	0.1024			26.00		1100260R
2.70	0.1063	36		27.00		1100270R
2.80	0.1102			28.00		1100280R
2.90	0.1142			29.00		1100290R
3.00	0.1181			30.00		1100300R

6200 HP Series Solid Carbide

6-7 x D – Depth of Cut 140°



h4 Tolerance Reinforced Shank d 3.0mm

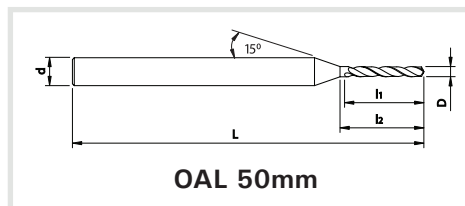


+ 0.000/- 0.004mm (h4) Uncoated Version
+ 0.002/-0.002mm Coated Version

High performance drill with a wide range of applications: steels, cast iron, and non-ferrous metals. Spot/center drill recommended for better hole straightness - with 6140 series. High performance with outstanding surface finishes with strong core - no deviation. All items can be quoted as left hand cut - contact us. Special, custom specification items available.

Custom specifications such as:

- Helix angle of 15°, 24°, 35° or other
- Point angles of 90°, 110°, 120°, 130° or other
- Special diameters as 0.92mm or other
- Special tolerances as +/- 0.001mm or other
- Minimum custom order is 10 Pieces
- Lead-time on custom orders—4 Weeks ARO



6200 HP Series Solid Carbide - Drill Sizes 0.50 – 4.00mm

NOTE: Sold in 5 piece packages only

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	I1 Flute Length (mm)	I2 D Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAIN Coated (RC) EDP No.
0.50	0.0197			3.5	4.4		6200050R	6200050RC
0.55	0.0217			4.0	5.0		6200055R	6200055RC
0.60	0.0236			4.5	5.6		6200060R	6200060RC
0.65	0.0256			5.0	6.3		6200065R	6200065RC
0.70	0.0276			5.5	6.9		6200070R	6200070RC
0.75	0.0295			5.6	7.2		6200075R	6200075RC
0.80	0.0315			6.0	7.6		6200080R	6200080RC
0.85	0.0335			6.5	8.1		6200085R	6200085RC
0.90	0.0354			6.7	8.5		6200090R	6200090RC
0.95	0.0374			7.0	8.8		6200095R	6200095RC
1.00	0.0394			7.5	9.4		6200100R	6200100RC
1.05	0.0413			8.0	1.1		6200105R	6200105RC
1.10	0.0433			8.1	1.4		6200110R	6200110RC
1.15	0.0453			8.5	11.0		6200115R	6200115RC
1.20	0.0472			8.9	11.3		6200120R	6200120RC
1.25	0.0492			9.2	11.7		6200125R	6200125RC
1.30	0.0512			9.6	12.2		6200130R	6200130RC
1.35	0.0531			10.0	12.5		6200135R	6200135RC
1.40	0.0551	54		11.5	13.0		6200140R	6200140RC
1.45	0.0571			11.0	13.5		6200145R	6200145RC
1.50	0.0591			11.5	14.0		6200150R	6200150RC
1.55	0.0610			12.0	15.0		6200155R	6200155RC
1.60	0.0630			12.0	15.0		6200160R	6200160RC
1.65	0.0650			12.0	15.0		6200165R	6200165RC
1.70	0.0669	51		12.0	15.0		6200170R	6200170RC
1.75	0.0689			12.5	15.5		6200175R	6200175RC

6200 HP Series Solid Carbide - Drill Sizes 0.50 – 4.00mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	I1 Flute Length (mm)	I2 D Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAIN Coated (RC) EDP No.
1.80	0.0709			13.0	16.0		6200180R	6200180RC
1.85	0.0728	49		13.5	17.5		6200185R	6200185RC
1.90	0.0748			14.0	18.0		6200190R	6200190RC
1.95	0.0768			14.5	18.5		6200195R	6200195RC
2.00	0.0787			15.0	19.0		6200200R	6200200RC
2.05	0.0807			15.0	19.0		6200205R	6200205RC
2.10	0.0827			16.0	20.0		6200210R	6200210RC
2.15	0.0846			16.5	21.0		6200215R	6200215RC
2.20	0.0866			17.0	22.0		6200220R	6200220RC
2.25	0.0886			17.5	22.5		6200225R	6200225RC
2.30	0.0906			18.0	23.0		6200230R	6200230RC
2.35	0.0925			18.5	23.5		6200235R	6200235RC
2.40	0.0945			19.0	24.0		6200240R	6200240RC
2.45	0.0965			19.0	24.0		6200245R	6200245RC
2.50	0.0984			20.0	25.0		6200250R	6200250RC
2.55	0.1004			20.0	25.0		6200255R	6200255RC
2.60	0.1024			21.0	26.0		6200260R	6200260RC
2.65	0.1043			21.5	26.0		6200265R	6200265RC
2.70	0.1063	36		22.0	27.0		6200270R	6200270RC
2.75	0.1083			23.0	27.5		6200275R	6200275RC
2.80	0.1102			23.8	28.5		6200280R	6200280RC
2.85	0.1122			24.5	29.5		6200285R	6200285RC
2.90	0.1142			25.2	30.0		6200290R	6200290RC
2.95	0.1161	32		26.0	31.0		6200295R	6200295RC
3.00	0.1181			26.5	32.0		6200300R	6200300RC
3.10	0.1220			27.3	33.0		6200310R	6200310RC
3.20	0.1260			28.0	33.5		6200320R	6200320RC
3.30	0.1299			28.0	33.5		6200330R	6200330RC
3.40	0.1339			28.0	33.5		6200340R	6200340RC
3.50	0.1378			28.0	33.5		6200350R	6200350RC
3.60	0.1417			28.0	33.5		6200360R	6200360RC
3.70	0.1457			28.0	33.5		6200370R	6200370RC
3.80	0.1496			28.0	33.5		6200380R	6200380RC
3.90	0.1535			28.0	33.5		6200390R	6200390RC
4.00	0.1575			28.0	33.5		6200400R	6200400RC

New for 2022

6220 HP Series Solid Carbide**12 x D – Depth of Cut 140°****h5 Tolerance Reinforced Shank d 3.0mm**

+ 0.000/- 0.005mm (h5) Uncoated Version
 + 0.002/-0.003mm Coated Version

High performance drill with reinforced shank at 3.00mm.

Spot/center drill recommended for better hole straightness - with 6140 series.

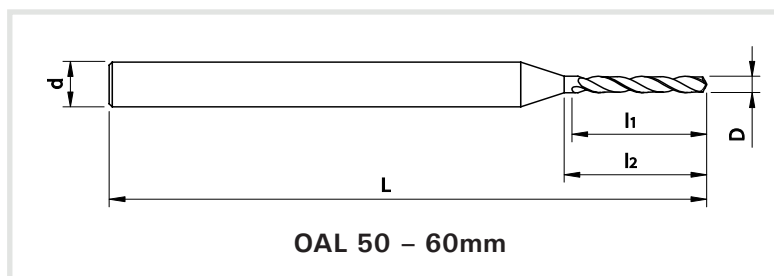
For soft, medium and tensile strength steels, stainless, titanium, alloys and cast iron.

High performance with outstanding surface finishes with strong core - no deviation.

All items can be quoted as left hand cut - contact us.

Custom specifications such as:

- Size range from 0.20mm to 3.00mm in increments of 0.05mm
- Intermediate sizes upon request
- Special sizes and tolerances available
- Special sizes up to 4mm**
- Minimum custom order is 10 Pieces
- Lead-time on custom orders—4 Weeks ARO**

**6220 HP Series Solid Carbide - Drill Sizes 0.50 – 3.00mm****NOTE: Sold in 5 piece packages only**

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	l2 D Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
0.50	0.0197		3.0	6.0	7.2	50.0	6220050R	6220050RC
0.55	0.0217			6.6	7.9		6220055R	6220055RC
0.60	0.0236			7.2	8.6		6220060R	6220060RC
0.65	0.0256			7.8	9.4		6220065R	6220065RC
0.70	0.0276			8.4	1.1		6220070R	6220070RC
0.75	0.0295			9.0	1.8		6220075R	6220075RC
0.80	0.0315			9.6	11.5		6220080R	6220080RC
0.85	0.0335			1.2	12.2		6220085R	6220085RC
0.90	0.0354			1.8	13.0		6220090R	6220090RC
0.95	0.0374			11.4	13.7		6220095R	6220095RC
1.00	0.0394			12.0	14.4		6220100R	6220100RC
1.05	0.0413			12.6	15.1		6220105R	6220105RC
1.10	0.0433			13.2	15.8		6220110R	6220110RC
1.15	0.0453			13.8	16.6		6220115R	6220115RC
1.20	0.0472			14.4	17.3		6220120R	6220120RC
1.25	0.0492			15.0	18.0		6220125R	6220125RC

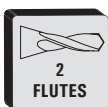
New for 2022

6220 HP Series Solid Carbide - Drill Sizes 0.50 – 3.00mm

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	l2 D Length (mm)	L Overall Length OAL (mm)	Uncoated (R) EDP No.	TiAlN Coated (RC) EDP No.
1.30	0.0512		3.0	15.6	18.7	50.0	6220130R	6220130RC
1.35	0.0531			16.2	19.4		6220135R	6220135RC
1.40	0.0551	54		16.8	20.2		6220140R	6220140RC
1.45	0.0571			17.4	20.9		6220145R	6220145RC
1.50	0.0591			18.0	21.6	60.0	6220150R	6220150RC
1.55	0.0610			18.6	22.3		6220155R	6220155RC
1.60	0.0630			19.2	23.0		6220160R	6220160RC
1.65	0.0650			19.8	23.8		6220165R	6220165RC
1.70	0.0669	51		24.0	24.5		6220170R	6220170RC
1.75	0.0689			21.0	25.2		6220175R	6220175RC
1.80	0.0709			21.6	25.9		6220180R	6220180RC
1.85	0.0728	49		22.2	26.6		6220185R	6220185RC
1.90	0.0748			22.8	27.4		6220190R	6220190RC
1.95	0.0768			23.4	28.1		6220195R	6220195RC
2.00	0.0787			24.0	28.8		6220200R	6220200RC
2.10	0.0827			25.2	30.2		6220210R	6220210RC
2.20	0.0866			26.4	31.7		6220220R	6220220RC
2.30	0.0906			27.6	33.1		6220230R	6220230RC
2.40	0.0945			28.8	34.6	90.0	6220240R	6220240RC
2.50	0.0984			30	36.0		6220250R	6220250RC
2.60	0.1024			31.2	37.4		6220260R	6220260RC
2.70	0.1063			32.4	38.9		6220270R	6220270RC
2.80	0.1102			33.6	40.3		6220280R	6220280RC
2.90	0.1142			34.8	41.8		6220290R	6220290RC
3.00	0.1181			36.0	43.2		6220300R	6220300RC

6230 CT Series Coolant-Thru

15 x D – Depth of Cut 140°



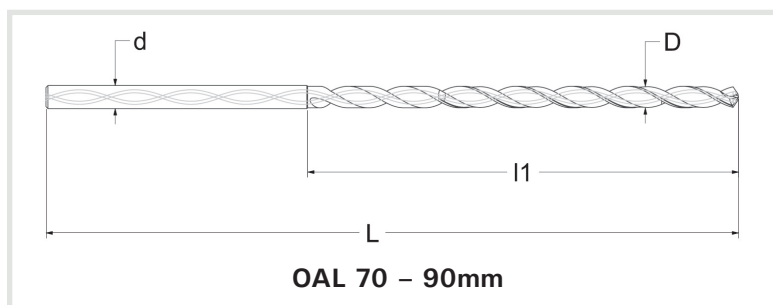
h5 Tolerance
2-Flutes Drill with
2 Helicoidal Internal Holes

+ 0.000/- 0.005mm (h5) Uncoated Version
 + 0.002/-0.0003mm Coated Version

High performance-coolant-thru micro drills with a strong web for maximum alignment and accuracy.
 Coolant-thru to optimize lubrication, chip removal and cooling. Ideal for a wide range of applications,
 medium and high tensile strength steels, stainless steel, titanium-alloys, cast iron.
 Standard sizes in 0.05mm increments, but intermediate sizes upon request.

Custom specifications such as:

- Point angles of 90°, 110°, 120°, 130° or other
- Special diameters as 2.03 mm or other
- Special tolerances as +/- 0.001 mm or other
- Minimum special order is 10 Pieces
- **Lead-time on customs 4 weeks ARO**
6 weeks with coating
- **Specials available up to 6mm diameter**



6230 CT Series Coolant-Thru - Drill Sizes 2.05 – 3.00mm

NOTE: Sold in single unit packages

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	TiAlN Coated (RC) EDP No.
2.05	0.0807		3.0	34	70.0	6230205RC
2.10	0.0827					6230210RC
2.15	0.0846			36		6230215RC
2.20	0.0866					6230220RC
2.25	0.0886			38		6230225RC
2.30	0.0906					6230230RC
2.35	0.0925			40		6230235RC
2.40	0.0945				90.0	6230240RC
2.45	0.0965			42		6230245RC
2.50	0.0984					6230250RC
2.55	0.1004			44		6230255RC
2.60	0.1024					6230260RC
2.65	0.1043			46		6230265RC
2.70	0.1063					6230270RC
2.75	0.1083	36		48		6230275RC
2.80	0.1102		50			6230280RC
2.85	0.1122					6230285RC
2.90	0.1142					6230290RC
2.95	0.1161	32				6230295RC
3.00	0.1181					6230300RC

Features:

- For holes with depth 15x diameter
- Solid Tungsten Carbide Sub-micro grain with 2 helicoidal holes
- Right-cut, point geometry for self-centering
- Standard sizes in increments of 0.05mm
- Other diameters and lengths on request
- Available uncoated or TiAlN coated

Benefits:

- Higher drilling speed and longer tool life
- Suitable for specific materials
- High precision with h5 tolerances
- Strong, no deviation, maximum alignment accuracy
- Optimum cooling, lubrication and chip removal

All 6230 Series Drills sold in single unit packages

62FLX Series Solid Carbide**30-40xD – Depth of Cut 135°****h5 Tolerance Reinforced Shank d 3.0mm**

+ 0.000/- 0.005mm (h5) Uncoated Version

+ 0.002/-0.0003mm Coated Version

High performance drill with reinforced shank at 3.00mm.**For use on small, deep holes and medium and tensile strength steels, stainless, titanium, alloys and cast iron.****High performance with outstanding surface finishes with strong core - no deviation.****All items can be quoted as left hand cut - contact us. Ideal for Medical applications.****Custom specifications such as:**

- Size range from 0.30mm to 1.00mm in increments of 0.05mm
- Intermediate sizes upon request
- For Drilling 30-40xD with Pecking Cycle Process
- H24° / 135°
- Shank Diameter 3.00 or 1/8" x OAL 50mm
- Special sizes and tolerances available
- Minimum custom order is 10 Pieces
- Other diameters and lengths on request
- Available in uncoated or TiAlN coated
- **Lead-time on custom orders—4 Weeks ARO**

NEW for 2022**62FLX Series Solid Carbide - Drill Sizes 0.30 – 1.00mm****NOTE: Sold in single unit packages**

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	d Shank Dia. (mm)	I1 Flute Length (mm)	I2 D Length (mm)	L Overall Length OAL (mm)	TiAlN Coated (RC) EDP No.
0.30	0.0118	3.0	3	12.0	50.0	62FLX030RC
0.35	0.0138		3.5	14.0		62FLX035RC
0.40	0.0157		4	16.0		62FLX040RC
0.45	0.0177		4.5	18.0		62FLX045RC
0.50	0.0197		5	20.0		62FLX050RC
0.55	0.0217		5.5	22.0		62FLX055RC
0.60	0.0236		6	24.0		62FLX060RC
0.65	0.0256		6.5	26.0		62FLX065RC
0.70	0.0276		7	28.0		62FLX070RC
0.75	0.0295		7.5	30.0		62FLX075RC
0.80	0.0315	3.0	8	32.0	77.0	62FLX080RC
0.85	0.0335		8.5	34.0		62FLX085RC
0.90	0.0354		9	36.0		62FLX090RC
0.95	0.0374		9.5	38.0		62FLX095RC
1.00	0.0394		10	40.0		62FLX100RC

Currently Non-Stock. Inventory Coming Soon.

3100 Series Short Solid Carbide 3 Flute Short Cross Drills | 140°

h5 Tolerance Reinforced Shank d 3.0mm



+ 0.000/- 0.005mm (h5)

High performance drill, 3-flutes for drilling and reaming in one operation.

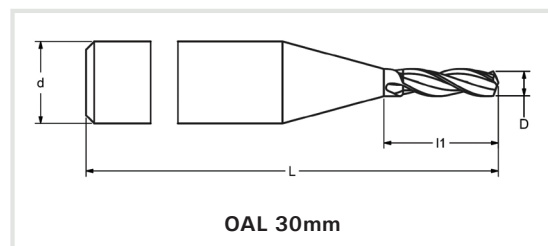
For soft, medium and tensile strength steels, stainless, titanium, alloys and cast iron.

Good for transversal drilling with no burrs inside cut and strong web with no deviation.

Special, custom specification items available.

Custom specifications such as:

- Only available in right hand cut
- Size range from 0.5mm to 3.00mm in increments of 0.05 or 0.10mm
- Intermediate sizes upon request
- Special sizes and tolerances available
- Minimum Special Order is 10 Pieces
- Lead-time on customs 4 weeks ARO**
6 weeks with coating



3100 Series Short Solid Carbide 3 Flute Short Cross Drills - Drill Sizes

0.50 – 1.50mm

NOTE: Sold in single unit packages

D Flute Dia. (mm)	D Dec. Equiv. Flute Dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	TiAlN Coated (RC) EDP No.
0.50	0.0197		3.0	3.0	30.0	3100050RC
0.55	0.0217					3100055RC
0.60	0.0236					3100060RC
0.65	0.0256					3100065RC
0.70	0.0276					3100070RC
0.75	0.0295					3100075RC
0.80	0.0315			3.5		3100080RC
0.85	0.0335					3100085RC
0.90	0.0354					3100090RC
0.95	0.0374					3100095RC
1.00	0.0394					3100100RC
1.05	0.0413					3100105RC
1.10	0.0433			4.0		3100110RC
1.15	0.0453					3100115RC
1.20	0.0472					3100120RC
1.25	0.0492					3100125RC
1.30	0.0512					3100130RC
1.35	0.0531					3100135RC
1.40	0.0551	54		5.0		3100140RC
1.45	0.0571					3100145RC
1.50	0.0591					3100150RC

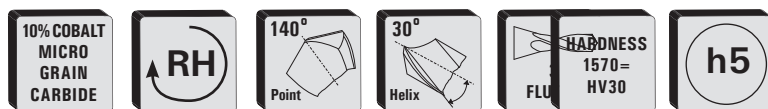
Feed & Speed indications for Titanium, Stainless, and Aluminum

*Feeds & Speeds are indications only and may vary depending on the process

		Cutting Speed Vc (m/min) / (SFM)	Feed per Revolution (mm) / (inch)			
			Diam 0,50-1,00	Diam 1,00-1,50	Diam 1,50-2,00	Diam 2,00-3,00
Titanium	Uncoated	20-30 / 65-98	0,01-0,02 / 0.0004-0.0008	0,02-0,04 / 0.0008-0.0016	0,04-0,08 / 0.0016-0.0031	0,08-0,12 / 0.0031-0.0047
	Coated	30-40 / 98-131				
Stainless	Uncoated	30-40 / 98-131	0,02-0,04 / 0.0008-0.0016	0,04-0,06 / 0.0016-0.0024	0,06-0,10 / 0.0024-0.0039	0,10-0,15 / 0.0039-0.0059
	Coated	40-60 / 131-197				
Aluminum	Uncoated	100-150 / 328-492	0,03-0,05 / 0.0011-0.002	0,05-0,10 / 0.002-0.0039	0,10-0,20 / 0.0039-0.0079	0,20-0,30 / 0.0079-0.0118
	Coated	150-200 / 492-656				

3200 Series Long Solid Carbide 3 Flute Long Reamer Drills | 140°

h5 Tolerance Reinforced Shank d 3.0mm



+ 0.000/- 0.005mm (h5)

High performance drill, 3-flutes for drilling and reaming in one operation.

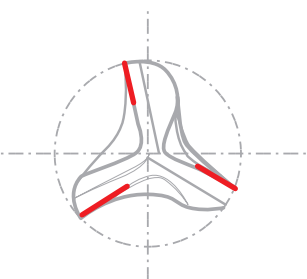
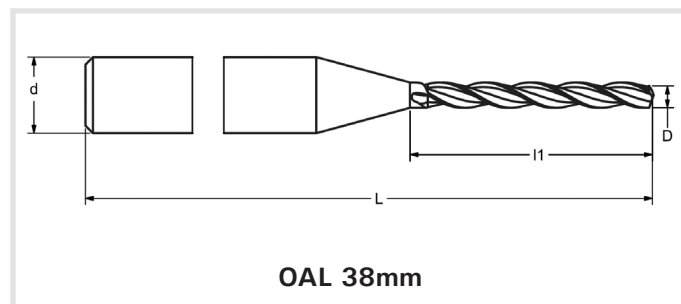
For soft, medium and tensile strength steels, stainless, titanium, alloys and cast iron.

Good for transversal drilling with no burrs inside cut and strong web with no deviation.

Special, custom specification items available.

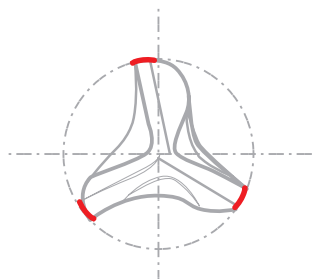
Custom specifications such as:

- Only available in right hand cut
- Size range from 0.5mm to 3.00mm in increments of 0.05 or 0.10mm
- Intermediate sizes upon request
- Special sizes and tolerances available
- Minimum special order is 10 Pieces
- Lead-time on customs 4 weeks ARO**
6 weeks with coating



3 SHORT LIPS

Heat of cutting is absorbed by 3 short lips so perfect for hightense materials. 3 lips make thinner chips. Good for less burrs outside hole.



3 MARGINS

Drill is guided by 3 margins which make the drilling through hole straight. Circularity of hole is perfect with no ovalization.

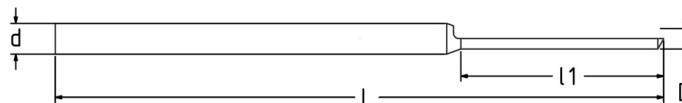
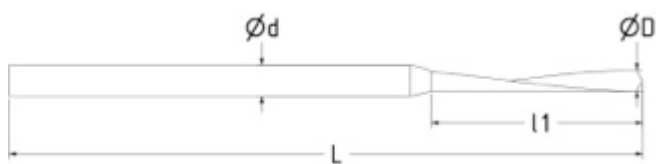
3200 Series Long Solid Carbide 3 Flute Long Reamer Drills - Drill Sizes 0.50 – 3.00mm

NOTE: Sold in single unit packages

Solid Carbide End Mill Packages						
D Flute Dia. (mm)	D dec. equiv. flute dia. (inch)	Wire # Frac	d Shank Dia. (mm)	l1 Flute Length (mm)	L Overall Length OAL (mm)	TiAlN Coated (RC) EDP No.
0.50	0.0197		3.0	6.0	38	3200050RC
0.55	0.0217			7.0		3200055RC
0.60	0.0236					3200060RC
0.65	0.0256					3200065RC
0.70	0.0276					3200070RC
0.75	0.0295			9.5		3200075RC
0.80	0.0315					3200080RC
0.85	0.0335					3200085RC
0.90	0.0354					3200090RC
0.95	0.0374					3200095RC
1.00	0.0394					3200100RC
1.05	0.0413			10.5		3200105RC
1.10	0.0433					3200110RC
1.15	0.0453					3200115RC
1.20	0.0472					3200120RC
1.25	0.0492					3200125RC
1.30	0.0512					3200130RC
1.35	0.0531					3200135RC
1.40	0.0551	54		12.0		3200140RC
1.45	0.0571					3200145RC
1.50	0.0591					3200150RC
1.60	0.0630					3200160RC
1.70	0.0669	51				3200170RC
1.80	0.0709					3200180RC
1.90	0.0748					3200190RC
2.00	0.0787			14.0		3200200RC
2.10	0.0827					3200210RC
2.20	0.0866					3200220RC
2.30	0.0906					3200230RC
2.40	0.0945					3200240RC
2.50	0.0984					3200250RC
2.60	0.1024			16.0		3200260RC
2.70	0.1063	36				3200270RC
2.80	0.1102					3200280RC
2.90	0.1142					3200290RC
3.00	0.1181					3200300RC

62H1 Gun Drill - Single Flute Helicoidal Drills

10 x D – Depth of Cut 120°



For polycarbonates, soft materials, brass & copper



For soft materials, brass, copper, stainless.

Direct drilling, no centering required.

Single lip works close to hole center so chip cutting is easier.

Good for reaming operation. Can be used as a reamer.

Custom specifications such as:

- Range from D0.50 to D1.50 - increments of 0.05 mm
- Intermediate sizes upon request
- Special sizes, point angles and tolerances available
- Minimum custom order is 10 Pieces



NEW for 2022

62H1 Gun Drill Z1 Helicoidal - Drill Sizes 0.50– 1.50mm

NOTE: Sold in 5 piece packages only

D (mm)	D(inch)	Flute Length (mm)	Shank Diameter (mm)	AOL L (mm)	EDP No.
0.50	0.0197	5.00	1.50	30	62H1050R
0.55	0.0217	5.50	1.50	30	62H1055R
0.60	0.0236	6.00	1.50	30	62H1060R
0.65	0.0256	6.50	1.50	30	62H1065R
0.70	0.0276	7.00	1.50	30	62H1070R
0.75	0.0295	7.50	1.50	30	62H1075R
0.80	0.0315	8.00	1.50	30	62H1080R
0.85	0.0335	8.50	1.50	30	62H1085R
0.90	0.0354	9.00	1.50	30	62H1090R
0.95	0.0374	9.50	1.50	30	62H1095R
1.00	0.0394	10.00	1.50	30	62H1100R
1.05	0.0413	10.50	1.50	30	62H1105R
1.10	0.0433	11.00	1.50	30	62H1110R
1.15	0.0453	11.50	1.50	30	62H1115R
1.20	0.0472	12.00	1.50	30	62H1120R
1.25	0.0492	12.50	1.50	30	62H1125R
1.30	0.0512	13.00	1.50	30	62H1130R
1.35	0.0531	13.50	1.50	30	62H1135R
1.40	0.0551	14.00	1.50	30	62H1140R
1.45	0.0571	14.50	1.50	30	62H1145R
1.50	0.0591	15.00	1.50	30	62H1150R

Currently Non-Stock Item. Inventory Coming Soon.

Speeds and Feeds Chart

Cutting Speed - RPM = $3.82 \times \text{SFM} / \text{Drill Dia.}$

Feed Rate - IPM = RPM X IPR

Guidelines - Not Guaranteed

Material	Diameter (mm)	Speed (sfm)	Feed Rate (lpr)
Mild and Low Carbon Steels	0.10 – 0.50	40 – 80	0.0002 – 0.0003
	0.51 – 0.70	80 – 140	0.0003 – 0.0004
	0.71 – 0.99	140 – 200	0.0004 – 0.0006
	1.00 – 2.00	140 – 200	0.0006 – 0.0016
	2.01 – 3.00	140 – 200	0.0016 – 0.0020
High Carbon, Alloy Steels	0.10 – 0.50	30 – 70	0.0002 – 0.0003
	0.51 – 0.70	70 – 100	0.0002 – 0.0004
	0.71 – 0.99	70 – 100	0.0004 – 0.0006
	1.00 – 2.00	100 – 170	0.0006 – 0.0016
	2.01 – 3.00	100 – 170	0.0014 – 0.0020
Stainless Steels – 300 Series, 17-4	0.10 – 0.50	20 – 40	0.0001 – 0.0002
	0.51 – 0.70	40 – 70	0.0002 – 0.0003
	0.71 – 0.99	70 – 120	0.0002 – 0.0003
	1.00 – 2.00	70 – 120	0.0003 – 0.0010
	2.01 – 3.00	70 – 120	0.0008 – 0.0014
Stainless Steels – 400 Series	0.10 – 0.50	30 – 60	0.0001 – 0.0002
	0.51 – 0.70	60 – 90	0.0002 – 0.0003
	0.71 – 0.99	90 – 140	0.0003 – 0.0004
	1.00 – 2.00	90 – 140	0.0004 – 0.0012
	2.01 – 3.00	90 – 140	0.0010 – 0.0018
Cast Iron	0.10 – 0.50	70 – 160	0.0002 – 0.0003
	0.51 – 0.70	160 – 200	0.0003 – 0.0004
	0.71 – 0.99	200 – 340	0.0004 – 0.0008
	1.00 – 2.00	200 – 340	0.0008 – 0.0020
	2.01 – 3.00	200 – 340	0.0016 – 0.0026
Ductile Iron	0.10 – 0.50	60 – 100	0.0001 – 0.0002
	0.51 – 0.70	100 – 140	0.0002 – 0.0003
	0.71 – 0.99	140 – 270	0.0003 – 0.0006
	1.00 – 2.00	140 – 270	0.0006 – 0.0016
	2.01 – 3.00	140 – 270	0.0014 – 0.0024
Aluminum	0.10 – 0.50	80 – 170	0.0002 – 0.0003
	0.51 – 0.70	170 – 270	0.0003 – 0.0005
	0.71 – 0.99	270 – 400	0.0005 – 0.0008
	1.00 – 2.00	270 – 400	0.0008 – 0.0024
	2.01 – 3.00	270 – 400	0.0020 – 0.0031
High Alloys – Inconel, Titanium	0.10 – 0.50	30 – 70	0.0001 – 0.0002
	0.51 – 0.70	70 – 100	0.0002 – 0.0003
	0.71 – 0.99	100 – 170	0.0003 – 0.0004
	1.00 – 2.00	100 – 170	0.0004 – 0.0012
	2.01 – 3.00	100 – 170	0.0010 – 0.0018

NOTE: Cutting parameters are good for series 5100 cobalt, 6000 & 3000 carbide drills

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