



## Stub Length (3xD) Drills

Series	<b>6400</b>	<b>301</b>	<b>660</b>	<b>223</b>	<b>226</b>	<b>653</b>	<b>659</b>	<b>5520</b>	<b>515</b>	<b>730</b>	<b>2463</b>
Length	4xD	Micro	Micro	3xD	3xD (LH)	3xD	3xD	3xD	3xD	3xD	3xD
Shank											
Style	Micro	N	N	N	N	N	GV120	GU500DZ	GT500DZ	N	N
Point Angle	140°	118°	118°	118°	118°	118°	130°	118°	130°	118°	118°
Coolant Fed											
Substrate	Carbide	Cobalt	Cobalt	HSS	HSS	HSS	Cobalt	Cobalt	PM-Cobalt	Carbide	Carbide
Surface Finish	<b>A</b>		<b>S</b>			<b>S</b>	<b>S</b>	<b>S</b>	<b>F</b>		<b>F</b>
Cast iron	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spheroidal graphite and malleable cast	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Chilled cast iron							✓		✓		✓
Size range (mm)	0.50 - 3.00	0.05 - 1.92	0.128 - 1.80	0.40 - 31.75	0.50 - 44.45	0.50 - 28.50	0.50 - 15.50	1.00 - 14.29	1.00 - 14.29	0.50 - 16.00	1.00 - 16.00
Sizes page	298	111	187	90	98	176	185	267	136	197	222

### Free toolfinder software

Find the best-suited Gühring cutting tools for your application -- quickly and easily -- with Gühring Navigator. Go to [www.guhring-tools.ru](http://www.guhring-tools.ru) and click on the icon to test drive this software.

