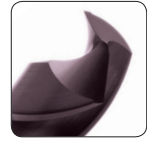
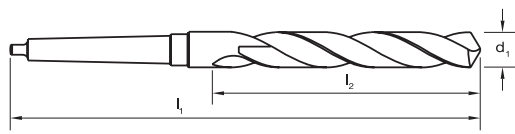


## ดอกสว่านเจาะเหล็กกล้าเทเปอร์ Drill Morse Taper Shank



- General purpose drill
- Suitable for materials up to 900N/mm<sup>2</sup>

Catalogue Code	<b>D115</b>
Discount Group	A0702
Material	<b>HSS</b>
Surface Finish	<b>Blu</b>
Sutton Designation	<b>N</b>
Geometry	R30
Point Type	118° Form A
Shank Tolerance	-

Size Ref.	d <sub>1</sub> (h8)		l <sub>1</sub>	l <sub>2</sub>	MT#	Order No.
0318	3.18	<b>1/8</b>	117	37	1	<b>D115 0318</b>
0357	3.57	<b>9/64</b>	121	39	1	<b>D115 0357</b>
0397	3.97	<b>5/32</b>	123	43	1	<b>D115 0397</b>
0437	4.37	<b>11/64</b>	128	47	1	<b>D115 0437</b>
0476	4.76	<b>3/16</b>	133	52	1	<b>D115 0476</b>
0516	5.16	<b>13/64</b>	133	52	1	<b>D115 0516</b>
0550	<b>5.50</b>		138	57	1	<b>D115 0550</b>
0556	5.56	<b>7/32</b>	138	57	1	<b>D115 0556</b>
0595	5.95	<b>15/64</b>	138	57	1	<b>D115 0595</b>
0600	<b>6.00</b>		138	57	1	<b>D115 0600</b>
0635	6.35	<b>1/4</b>	144	63	1	<b>D115 0635</b>
0650	<b>6.50</b>		144	63	1	<b>D115 0650</b>
0676	6.75	<b>17/64</b>	144	63	1	<b>D115 0676</b>
0700	<b>7.00</b>		150	69	1	<b>D115 0700</b>
0714	7.14	<b>9/32</b>	150	69	1	<b>D115 0714</b>
0750	<b>7.50</b>		150	69	1	<b>D115 0750</b>
0754	7.54	<b>19/64</b>	156	75	1	<b>D115 0754</b>
0794	7.94	<b>5/16</b>	156	75	1	<b>D115 0794</b>
0800	<b>8.00</b>		156	75	1	<b>D115 0800</b>
0833	8.33	<b>21/64</b>	156	75	1	<b>D115 0833</b>
0850	<b>8.50</b>		156	75	1	<b>D115 0850</b>
0873	8.73	<b>11/32</b>	162	81	1	<b>D115 0873</b>
0900	<b>9.00</b>		162	81	1	<b>D115 0900</b>
0913	9.13	<b>23/64</b>	162	81	1	<b>D115 0913</b>
0950	<b>9.50</b>		162	81	1	<b>D115 0950</b>
0953	9.52	<b>3/8</b>	168	87	1	<b>D115 0953</b>
0992	9.92	<b>25/64</b>	168	87	1	<b>D115 0992</b>
1000	<b>10.00</b>		168	87	1	<b>D115 1000</b>
1032	10.32	<b>13/32</b>	168	87	1	<b>D115 1032</b>
1050	<b>10.50</b>		168	87	1	<b>D115 1050</b>
1072	10.72	<b>27/64</b>	175	94	1	<b>D115 1072</b>
1100	<b>11.00</b>		175	94	1	<b>D115 1100</b>
1111	11.11	<b>7/16</b>	175	94	1	<b>D115 1111</b>
1150	<b>11.50</b>		175	94	1	<b>D115 1150</b>
1151	11.51	<b>29/64</b>	175	94	1	<b>D115 1151</b>
1191	11.91	<b>15/32</b>	182	101	1	<b>D115 1191</b>
1200	<b>12.00</b>		182	101	1	<b>D115 1200</b>
1231	12.30	<b>31/64</b>	182	101	1	<b>D115 1231</b>
1250	<b>12.50</b>		182	101	1	<b>D115 1250</b>
1269	12.70	<b>1/2</b>	182	101	1	<b>D115 1269</b>
1300	<b>13.00</b>		182	101	1	<b>D115 1300</b>
1310	13.10	<b>33/64</b>	182	101	1	<b>D115 1310</b>
1349	13.49	<b>17/32</b>	189	108	1	<b>D115 1349</b>

Size Ref.	d <sub>1</sub> (h8)		l <sub>1</sub>	l <sub>1</sub>	MT#	Order No.
1350	<b>13.50</b>		189	108	1	<b>D115 1350</b>
1389	13.89	<b>35/64</b>	189	108	1	<b>D115 1389</b>
1400	<b>14.00</b>		189	108	1	<b>D115 1400</b>
1429	14.29	<b>9/16</b>	212	114	2	<b>D115 1429</b>
1450	<b>14.50</b>		212	114	2	<b>D115 1450</b>
1468	14.68	<b>37/64</b>	212	114	2	<b>D115 1468</b>
1500	<b>15.00</b>		212	114	2	<b>D115 1500</b>
1508	15.08	<b>19/32</b>	218	120	2	<b>D115 1508</b>
1548	15.48	<b>39/64</b>	218	120	2	<b>D115 1548</b>
1550	<b>15.50</b>		218	120	2	<b>D115 1550</b>
1588	15.87	<b>5/8</b>	218	120	2	<b>D115 1588</b>
1600	<b>16.00</b>		218	120	2	<b>D115 1600</b>
1627	16.27	<b>41/64</b>	223	125	2	<b>D115 1627</b>
1650	<b>16.50</b>		223	125	2	<b>D115 1650</b>
1667	16.67	<b>21/32</b>	223	125	2	<b>D115 1667</b>
1700	<b>17.00</b>		223	125	2	<b>D115 1700</b>
1707	17.06	<b>43/64</b>	228	130	2	<b>D115 1707</b>
1746	17.46	<b>11/16</b>	228	130	2	<b>D115 1746</b>
1750	<b>17.50</b>		228	130	2	<b>D115 1750</b>
1789	17.86	<b>45/64</b>	228	130	2	<b>D115 1789</b>
1800	<b>18.00</b>		228	130	2	<b>D115 1800</b>
1826	18.26	<b>23/32</b>	233	135	2	<b>D115 1826</b>
1850	<b>18.50</b>		233	135	2	<b>D115 1850</b>
1865	18.65	<b>47/64</b>	233	135	2	<b>D115 1865</b>
1900	<b>19.00</b>		233	135	2	<b>D115 1900</b>
1905	19.05	<b>3/4</b>	238	140	2	<b>D115 1905</b>
1945	19.45	<b>49/64</b>	238	140	2	<b>D115 1945</b>
1950	<b>19.50</b>		238	140	2	<b>D115 1950</b>
1984	19.84	<b>25/32</b>	238	140	2	<b>D115 1984</b>
2000	<b>20.00</b>		238	140	2	<b>D115 2000</b>
2024	20.24	<b>51/64</b>	243	145	2	<b>D115 2024</b>
2050	<b>20.50</b>		243	145	2	<b>D115 2050</b>
2064	20.64	<b>13/16</b>	243	145	2	<b>D115 2064</b>
2100	<b>21.00</b>		243	145	2	<b>D115 2100</b>
2103	21.03	<b>53/64</b>	243	145	2	<b>D115 2103</b>
2143	21.43	<b>27/32</b>	248	150	2	<b>D115 2143</b>
2150	<b>21.50</b>		248	150	2	<b>D115 2150</b>
2183	21.83	<b>55/64</b>	248	150	2	<b>D115 2183</b>
2200	<b>22.00</b>		248	150	2	<b>D115 2200</b>
2223	22.22	<b>7/8</b>	248	150	2	<b>D115 2223</b>
2250	<b>22.50</b>		253	155	2	<b>D115 2250</b>
2262	22.50		253	155	2	<b>D115 2262</b>
2300	<b>23.00</b>		253	155	3	<b>D115 2300</b>

ISO	P										M					K					N										S										H									
VDI3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41	
<b>D115</b>	●	●	●	●	●	●	●	●	●	●	○			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

P Steel   
 M Stainless Steel   
 K Cast Iron   
 N Non-Ferrous Metals   
 S Titanium & Super Alloys   
 H Hard Materials   
 ● Optimal    ○ Effective

# DRILLS

ดอกสว่าน

## suttontools

Taper Shank  
ดอกสว่านทAPER

Catalogue Code	<b>D115</b>
Discount Group	A0702
Material	<b>HSS</b>
Surface Finish	<b>Blu</b>
Sutton Designation	<b>N</b>
Geometry	R30
Point Type	118° Form A
Shank Tolerance	-

- Carbide Drills  
ดอกสว่านคาร์ไบด์
- HSS Drills**  
ดอกสว่านไฮสปีด
- Stub / Standard  
ตัวสั้น / มาตรฐาน
- Long  
ตัวยาว
- Micro Drill  
ดอกสว่านไมโคร
- Z Plunging
- Step Borer

Size Ref.	d <sub>1</sub> (h8)		l <sub>1</sub>	l <sub>2</sub>	MT#	Order No.
2302	23.02	<b>29/32</b>	253	155	3	<b>D115 2302</b>
2342	23.41	<b>59/64</b>	276	155	3	<b>D115 2342</b>
2350	<b>23.50</b>		276	155	3	<b>D115 2350</b>
2381	23.81	<b>15/16</b>	281	160	3	<b>D115 2381</b>
2400	<b>24.00</b>		281	160	3	<b>D115 2400</b>
2421	24.21	<b>61/64</b>	281	160	3	<b>D115 2421</b>
2450	<b>24.50</b>		281	160	3	<b>D115 2450</b>
2461	24.61	<b>31/32</b>	281	160	3	<b>D115 2461</b>
2500	<b>25.00</b>		281	160	3	<b>D115 2500</b>
2501	25.00	<b>63/64</b>	286	165	3	<b>D115 2501</b>
2540	25.40	<b>1</b>	286	165	3	<b>D115 2540</b>
2550	<b>25.50</b>		286	165	3	<b>D115 2550</b>
2580	25.80	<b>1-1/64</b>	286	165	3	<b>D115 2580</b>
2600	<b>26.00</b>		286	165	3	<b>D115 2600</b>
2619	26.19	<b>1-1/32</b>	286	165	3	<b>D115 2619</b>
2650	<b>26.50</b>		286	165	3	<b>D115 2650</b>
2659	26.59	<b>1-3/64</b>	291	170	3	<b>D115 2659</b>
2699	26.99	<b>1-1/16</b>	291	170	3	<b>D115 2699</b>
2700	<b>27.00</b>		291	170	3	<b>D115 2700</b>
2738	27.38	<b>1-5/64</b>	291	170	3	<b>D115 2738</b>
2750	<b>27.50</b>		291	170	3	<b>D115 2750</b>
2778	27.78	<b>1-3/32</b>	291	170	3	<b>D115 2778</b>
2800	<b>28.00</b>		291	170	3	<b>D115 2800</b>
2818	28.18	<b>1-7/64</b>	296	175	3	<b>D115 2818</b>
2850	<b>28.50</b>		296	175	3	<b>D115 2850</b>
2858	28.57	<b>1-1/8</b>	296	175	3	<b>D115 2858</b>
2897	28.97	<b>1-9/64</b>	296	175	3	<b>D115 2897</b>
2900	<b>29.00</b>		296	175	3	<b>D115 2900</b>
2937	29.36	<b>1-5/32</b>	296	175	3	<b>D115 2937</b>
2950	<b>29.50</b>		296	175	3	<b>D115 2950</b>
2977	29.77	<b>1-11/64</b>	296	175	3	<b>D115 2977</b>
3000	<b>30.00</b>		296	175	3	<b>D115 3000</b>
3016	30.16	<b>1-3/16</b>	301	180	3	<b>D115 3016</b>
3050	<b>30.50</b>		301	180	3	<b>D115 3050</b>
3056	30.56	<b>1-13/64</b>	301	180	3	<b>D115 3056</b>
3096	30.96	<b>1-7/32</b>	301	180	3	<b>D115 3096</b>
3100	<b>31.00</b>		301	180	3	<b>D115 3100</b>
3135	31.35	<b>1-15/64</b>	301	180	3	<b>D115 3135</b>
3150	<b>31.50</b>		301	180	3	<b>D115 3150</b>
3175	31.75	<b>1-1/4</b>	306	185	3	<b>D115 3175</b>
3200	<b>32.00</b>		334	185	4	<b>D115 3200</b>
3215*	<b>32.15</b>	<b>1-1/4</b>	306	185	4	<b>D115 3215</b>
3250	<b>32.50</b>		334	185	4	<b>D115 3250</b>
3300	<b>33.00</b>		334	185	4	<b>D115 3300</b>
3334	33.40	<b>1-5/16</b>	334	185	4	<b>D115 3334</b>
3350	<b>33.50</b>		334	185	4	<b>D115 3350</b>
3400	<b>34.00</b>		339	190	4	<b>D115 3400</b>
3450	<b>34.50</b>		339	190	4	<b>D115 3450</b>
3493	34.92	<b>1-3/8</b>	339	190	4	<b>D115 3493</b>
3500	<b>35.00</b>		339	190	4	<b>D115 3500</b>
3550	<b>35.50</b>		339	190	4	<b>D115 3550</b>
3600	<b>36.00</b>		344	195	4	<b>D115 3600</b>
3650	<b>36.50</b>		344	195	4	<b>D115 3650</b>
3700	<b>37.00</b>		344	195	4	<b>D115 3700</b>
3750	<b>37.50</b>		344	195	4	<b>D115 3750</b>
3800	<b>38.00</b>		349	200	4	<b>D115 3800</b>
3810	38.10	<b>1-1/2</b>	349	200	4	<b>D115 3810</b>
3850	<b>38.50</b>		349	200	4	<b>D115 3850</b>
3900	<b>39.00</b>		349	200	4	<b>D115 3900</b>

\*Not available once current stock is depleted.

Size Ref.	d <sub>1</sub> (h8)		l <sub>1</sub>	l <sub>2</sub>	MT#	Order No.
3950	<b>39.50</b>		349	200	4	<b>D115 3950</b>
4000	<b>40.00</b>		349	200	4	<b>D115 4000</b>
4050	<b>40.50</b>		354	205	4	<b>D115 4050</b>
4100	<b>41.00</b>		354	205	4	<b>D115 4100</b>
4128	41.27	<b>1-5/8</b>	354	205	4	<b>D115 4128</b>
4150	<b>41.50</b>		354	205	4	<b>D115 4150</b>
4200	<b>42.00</b>		354	205	4	<b>D115 4200</b>
4250	<b>42.50</b>		354	205	4	<b>D115 4250</b>
4300	<b>43.00</b>		359	210	4	<b>D115 4300</b>
4350	<b>43.50</b>		359	210	4	<b>D115 4350</b>
4400	<b>44.00</b>		359	210	4	<b>D115 4400</b>
4405	44.05	<b>1-47/64</b>	359	210	4	.
4445	44.45	<b>1-3/4</b>	359	210	4	<b>D115 4445</b>
4450	<b>44.50</b>		359	210	4	<b>D115 4450</b>
4485	44.85	<b>1-49/64</b>	359	210	4	.
4500	<b>45.00</b>		359	210	4	<b>D115 4500</b>
4550	<b>45.50</b>		364	215	4	<b>D115 4550</b>
4564	45.64	<b>1-51/64</b>	359	210	4	.
4600	<b>46.00</b>		364	215	4	<b>D115 4600</b>
4643	46.43	<b>1-53/64</b>	359	210	4	.
4650	<b>46.50</b>		364	215	4	<b>D115 4650</b>
4700	<b>47.00</b>		364	215	4	<b>D115 4700</b>
4723	47.23	<b>1-55/64</b>	359	210	4	.
4750	<b>47.50</b>		364	215	4	<b>D115 4750</b>
4763	<b>47.63</b>	<b>1-7/8</b>	359	210	4	<b>D115 4763</b>
4800	<b>48.00</b>		369	220	4	<b>D115 4800</b>
4802	48.02	<b>1-57/64</b>	359	210	4	.
4850	<b>48.50</b>		369	220	4	<b>D115 4850</b>
4882	48.82	<b>1-59/64</b>	359	210	4	.
4900	<b>49.00</b>		369	220	4	<b>D115 4900</b>
4950	<b>49.50</b>		369	220	4	<b>D115 4950</b>
4961	49.61	<b>1-61/64</b>	359	210	4	.
5000	<b>50.00</b>		369	220	4	<b>D115 5000</b>
5004	50.04	<b>1-63/64</b>	359	210	4	.
5050	<b>50.50</b>		374	225	4	<b>D115 5050</b>
5080	50.80	<b>2</b>	374	225	4	<b>D115 5080</b>
5100	<b>51.00</b>		413	225	5	.
5159	51.59	<b>2-1/32</b>	413	225	5	<b>D115 5159</b>
5239	52.39	<b>2-1/16</b>	413	225	5	<b>D115 5239</b>
5398	53.98	<b>2-1/8</b>	413	225	5	<b>D115 5398</b>
5556	55.56	<b>2-3/16</b>	413	225	5	<b>D115 5556</b>
5715	57.15	<b>2-1/4</b>	413	225	5	<b>D115 5715</b>
5874	58.74	<b>2-5/16</b>	413	225	5	<b>D115 5874</b>
6033	60.32	<b>2-3/8</b>	429	241	5	<b>D115 6033</b>
6191	61.91	<b>2-7/16</b>	429	241	5	<b>D115 6191</b>
6350	63.50	<b>2-1/2</b>	432	244	5	<b>D115 6350</b>
6509	65.09	<b>2-9/16</b>	432	244	5	<b>D115 6509</b>
6668	66.67	<b>2-5/8</b>	432	244	5	<b>D115 6668</b>
6985	69.85	<b>2-3/4</b>	432	244	5	<b>D115 6985</b>
7620	76.20	<b>3</b>	432	244	5	<b>D115 7620</b>

ISO	P													M			K					N										S								H	
VDI3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
<b>D115</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

**P** Steel    **M** Stainless Steel    **K** Cast Iron    **N** Non-Ferrous Metals    **S** Titanium & Super Alloys    **H** Hard Materials    ● Optimal    ○ Effective