

**Morse Taper Shank Drills**  
For precision drilling.

**Forets à queue à cône Morse**  
Pour un perçage de précision.

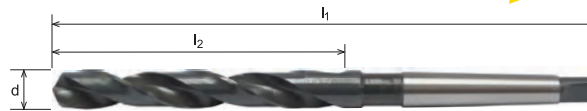
**Bohrer mit Morsekegelschaft**  
Für Präzisionsbohrung.

**Brocas de mango en cono Morse**  
Para taladrado de precisión.

**Сверла с коническим хвостовиком Морзе**  
Для сверления отверстий с высокой точностью.



OSG GROUP COMPANY



Codes

**201 - 205**  
**211 - 214**

Properties



mm	DIN	HSS
inch	345	
TYPE		
N	118°	
		BRIGHT FINISH SHANK AND POINT

Cutting Data

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P								M				K				Ti			Ni			Cu				N				Syn		
1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4	8.1	8.2	8.3

d		l <sub>2</sub>	l <sub>1</sub>	Code	d		l <sub>2</sub>	l <sub>1</sub>	Code
mm	inch				mm	inch			

**No. 1 Morse Taper Shank | No. 1 Forets à queue Cône Morse | Nr. 1 Morsekegelschaft | Mango en**

**Cono Morse N.º 1 | Хвостовик с конусом Морзе №. 1**

3		33	114	2010300	9.922	25/64	87	168	2110992
3.5		39	120	2010350	10		87	168	2011000
4		43	124	2010400	10.319	13/32	87	168	2111032
4.5		47	128	2010450	10.5		87	168	2011050
5		52	133	2010500	10.716	27/64	94	175	2111072
5.5		57	138	2010550	11		94	175	2011100
6		57	138	2010600	11.112	7/16	94	175	2111111
6.350	1/4	63	144	2110635	11.5		94	175	2011150
6.5		63	144	2010650	11.906	15/32	101	182	2111191
7		69	150	2010700	12		101	182	2011200
7.5		69	150	2010750	12.5		101	182	2011250
7.937	5/16	75	156	2110794	12.700	1/2	101	182	2111270
8		75	156	2010800	13		101	182	2011300
8.5		75	156	2010850	13.494	17/32	108	189	2111349
9		81	162	2010900	13.5		108	189	2011350
9.5		81	162	2010950	14		108	189	2011400
9.525	3/8	87	168	2110953					

**No. 2 Morse Taper Shank | No. 2 Forets à queue Cône Morse | Nr. 2 Morsekegelschaft | Mango en**

**Cono Morse N.º 2 | Хвостовик с конусом Морзе №. 2**

(14)		114	212	2021400	18.256	23/32	135	233	2121826
14.287	9/16	114	212	2121429	18.5		135	233	2021850
14.5		114	212	2021450	18.653	47/64	135	233	2121865
14.684	37/64	114	212	2121468	19		135	233	2021900
15		114	212	2021500	19.050	3/4	140	238	2121905
15.081	19/32	120	218	2121508	19.5		140	238	2021950
15.478	39/64	120	218	2121548	20		140	238	2022000
15.5		120	218	2021550	20.5		145	243	2022050
15.875	5/8	120	218	2121588	20.637	13/16	145	243	2122064
16		120	218	2021600	21		145	243	2022100
16.272	41/64	125	223	2121627	21.431	27/32	150	248	2122143
16.5		125	223	2021650	21.5		150	248	2022150
16.669	21/32	125	223	2121667	22		150	248	2022200
17		125	223	2021700	22.225	7/8	150	248	2122223
17.462	11/16	130	228	2121746	22.5		155	253	2022250
17.5		130	228	2021750	23		155	253	2022300
18		130	228	2021800					

**No. 3 Morse Taper Shank | No. 3 Forets à queue Cône Morse | Nr. 3 Morsekegelschaft | Mango en**

**Cono Morse N.º 3 | Хвостовик с конусом Морзе №. 3**

23.5		155	276	2032350	28		170	291	2032800
23.812	15/16	160	281	2132381	28.5		175	296	2032850
24		160	281	2032400	28.575	1.1/8	175	296	2132858
24.5		160	281	2032450	29		175	296	2032900
25		160	281	2032500	29.5		175	296	2032950
25.400	1"	165	286	2132540	30		175	296	2033000
25.5		165	286	2032550	30.162	1.3/16	180	301	2133016
26		165	286	2032600	30.5		180	301	2033050
26.5		165	286	2032650	31		180	301	2033100
26.987	1.1/16	170	291	2132699	31.5		180	301	2033150
27		170	291	2032700	31.750	1.1/4	185	306	2133175
27.5		170	291	2032750	(32)		185	306	2033200

**No. 4 Morse Taper Shank | No. 4 Forets à queue Cône Morse | Nr. 4 Morsekegelschaft | Mango en**

**Cono Morse N.º 4 | Хвостовик с конусом Морзе №. 4**

32		185	334	2043200	35		190	339	2043500
32.5		185	334	2043250	35.5		190	339	2043550
33		185	334	2043300	36		195	344	2043600
33.337	1.5/16	185	334	2143334	36.5		195	344	2043650
33.5		185	334	2043350	36.512	1.7/16	195	344	2143651
34		190	339	2043400	37		195	344	2043700
34.5		190	339	2043450	37.5		195	344	2043750
34.925	1.3/8	190	339	2143493					

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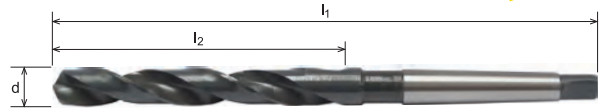




OSG GROUP COMPANY



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For precision drilling.  
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Pour un perçage de précision.  
**Bohrer mit Morsekegelschaft**  
Für Präzisionsbohrung.  
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Для сверления отверстий с высокой точностью.



P						M				K				Ti			Ni				Cu				N				Syn							
1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4	8.1	8.2	8.3				
●	●	●	●	○	○							●	●	○	○											○	○	○	○	○	○	○	○			

d		l2	l1	Code	d		l2	l1	Code
mm	inch				mm	inch			

**No. 4 Morse Taper Shank | No. 4 Forets à queue Cône Morse | Nr. 4 Morsekegelschaft | Mango en Cono Morse N.º 4 | Хвостовик с конусом Морзе №. 4**

... from previous page				44.450	1.3/4	210	359	2144445	
38		200	349	2043800	44.5		210	359	2044450
38.100	1.1/2	200	349	2143810	45		210	359	2044500
38.5		200	349	2043850	45.5		215	364	2044550
39		200	349	2043900	46		215	364	2044600
39.5		200	349	2043950	46.5		215	364	2044650
39.687	1.9/16	200	349	2143969	47		215	364	2044700
40		200	349	2044000	47.5		215	364	2044750
40.5		205	354	2044050	47.625	1.7/8	220	369	2144763
41		205	354	2044100	48		220	369	2044800
41.275	1.5/8	205	354	2144128	48.5		220	369	2044850
41.5		205	354	2044150	49		220	369	2044900
42		205	354	2044200	49.5		220	369	2044950
42.5		205	354	2044250	50		220	369	2045000
43		210	359	2044300	50.5		225	374	2045050
43.5		210	359	2044350	50.800	2"	225	374	2145080
44		210	359	2044400					

**No. 5 Morse Taper Shank | No. 5 Forets à queue Cône Morse | Nr. 5 Morsekegelschaft | Mango en Cono Morse N.º 5 | Хвостовик с конусом Морзе №. 5**

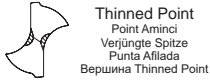
51		225	412	2055100	60		235	422	2056000
51.5		225	412	2055150	61		240	427	2056100
52		225	412	2055200	62		240	427	2056200
52.5		225	412	2055250	63		240	427	2056300
53		225	412	2055300	64		245	432	2056400
53.5		230	417	2055350	65		245	432	2056500
54		230	417	2055400	66		245	432	2056600
54.5		230	417	2055450	67		245	432	2056700
55		230	417	2055500	68		250	437	2056800
55.5		230	417	2055550	69		250	437	2056900
56		230	417	2055600	70		250	437	2057000
56.5		235	422	2055650	71		250	437	2057100
57		235	422	2055700	72		255	442	2057200
57.5		235	422	2055750	73		255	442	2057300
58		235	422	2055800	74		255	442	2057400
58.5		235	422	2055850	75		255	442	2057500
59		235	422	2055900	76		260	447	2057600
59.5		235	422	2055950					

( ) Not to DIN 345

Non conformes à DIN 345 | Nicht nach DIN 345 | No conforme a DIN 345 | Размер не по DIN 345

Codes
<b>201 - 205</b>
<b>211 - 214</b>

**Properties**



Thinned Point  
Point Aminci  
Verjüngte Spitze  
Punta Afilada  
Вершина Thinned Point

mm inch	DIN 345	HSS
TYPE N		
		BRIGHT FINISH SHANK AND POINT

**Cutting Data**

pg 61	
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MORSE TAPER  
SHANK DRILLS



shaping your dreams