

**X-Ratio Straight Shank Jobber Drills**  
For general purpose drilling.

**Forets Extra-Courts à axe droit X-Ratio**  
À usage général en perçage.

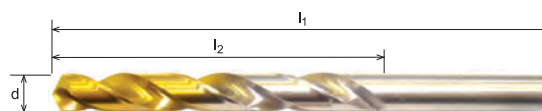
**X-Ratio Spiralbohrer, gerade**  
Für allgemeines Bohren.

**Brocas de vástago recto X-Ratio**  
Para taladrado general.

**Сверла средней серии с цилиндрическим хвостовиком серии X-Ratio**  
Для сверления отверстий общего применения.



OSG GROUP COMPANY



Codes  
Códigos  
Коды

**1X3, 1X6**

Properties  
Propriétés  
Eigenschaften  
Propiedades  
Свойства

mm inch	DIN 338	HSS
	TYPE N	
	BRIGHT FINISH WITH TIN TIP	

d		l <sub>2</sub>	l <sub>1</sub>	Code Código   Код	
mm	inch			Standard Point Pointe Standard Standardspitze Punta estándar Стандартная вершина	Split Point Pointe en croix Kreuzanschiff Punta afilada en cruz Вершина Split Point
1		12	34	1X30100	-
1.1		14	36	1X30110	-
1.191	3/64	16	38	1X30119	-
1.2		16	38	1X30120	-
1.3		16	38	1X30130	-
1.4		18	40	1X30140	-
1.5		18	40	1X30150	-
1.587	1/16	20	43	1X30159	-
1.6		20	43	1X30160	-
1.7		20	43	1X30170	-
1.8		22	46	1X30180	-
1.9		22	46	1X30190	-
1.984	5/64	24	49	1X30198	-
2		24	49	1X30200	-
2.1		24	49	1X30210	-
2.2		27	53	1X30220	-
2.3		27	53	1X30230	-
2.381	3/32	30	57	1X30238	-
2.4		30	57	1X30240	-
2.5		30	57	1X30250	-
2.6		30	57	1X30260	-
2.7		33	61	1X30270	-
2.778	7/64	33	61	1X30278	-
2.8		33	61	1X30280	-
2.9		33	61	1X30290	-
3		33	61	1X30300	1X60300
3.1		36	65	1X30310	1X60310
3.175	1/8	36	65	1X30318	1X60318
3.2		36	65	1X30320	1X60320
3.3		36	65	1X30330	1X60330
3.4		39	70	1X30340	1X60340
3.5		39	70	1X30350	1X60350
3.572	9/64	39	70	1X30357	1X60357
3.6		39	70	1X30360	1X60360
3.7		39	70	1X30370	1X60370
3.8		43	75	1X30380	1X60380
3.9		43	75	1X30390	1X60390
3.969	5/32	43	75	1X30397	1X60397
4		43	75	1X30400	1X60400
4.1		43	75	1X30410	1X60410
4.2		43	75	1X30420	1X60420
4.3		47	80	1X30430	1X60430
4.366	11/64	47	80	1X30437	1X60437
4.4		47	80	1X30440	1X60440
4.5		47	80	1X30450	1X60450
4.6		47	80	1X30460	1X60460
4.7		47	80	1X30470	1X60470
4.762	3/16	52	86	1X30476	1X60476
4.8		52	86	1X30480	1X60480
4.9		52	86	1X30490	1X60490
5		52	86	1X30500	1X60500
5.1		52	86	1X30510	1X60510
5.159	13/64	52	86	1X30516	1X60516
5.2		52	86	1X30520	1X60520
5.3		52	86	1X30530	1X60530
5.4		57	93	1X30540	1X60540
5.5		57	93	1X30550	1X60550
5.556	7/32	57	93	1X30556	1X60556
5.6		57	93	1X30560	1X60560
5.7		57	93	1X30570	1X60570
5.8		57	93	1X30580	1X60580
5.9		57	93	1X30590	1X60590

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mm	inch			Standard Point Pointe Standard Standardspitze Punta estándar Стандартная вершина	Split Point Pointe en croix Kreuzanschiff Punta afilada en cruz Вершина Split Point
5.953	15/64	57	93	1X30595	1X60595
6		57	93	1X30600	1X60600
6.1		63	101	1X30610	1X60610
6.2		63	101	1X30620	1X60620
6.3		63	101	1X30630	1X60630
6.350	1/4	63	101	1X30635	1X60635
6.4		63	101	1X30640	1X60640
6.5		63	101	1X30650	1X60650
6.6		63	101	1X30660	1X60660
6.7		63	101	1X30670	1X60670
6.747	17/64	69	109	1X30675	1X60675
6.8		69	109	1X30680	1X60680
6.9		69	109	1X30690	1X60690
7		69	109	1X30700	1X60700
7.1		69	109	1X30710	1X60710
7.144	9/32	69	109	1X30714	1X60714
7.2		69	109	1X30720	1X60720
7.3		69	109	1X30730	1X60730
7.4		69	109	1X30740	1X60740
7.5		69	109	1X30750	1X60750
7.541	19/64	75	117	1X30754	1X60754
7.6		75	117	1X30760	1X60760
7.7		75	117	1X30770	1X60770
7.8		75	117	1X30780	1X60780
7.9		75	117	1X30790	1X60790
7.937	5/16	75	117	1X30794	1X60794
8		75	117	1X30800	1X60800
8.1		75	117	1X30810	1X60810
8.2		75	117	1X30820	1X60820
8.3		75	117	1X30830	1X60830
8.334	21/64	75	117	1X30833	1X60833
8.4		75	117	1X30840	1X60840
8.5		75	117	1X30850	1X60850
8.6		81	125	1X30860	1X60860
8.7		81	125	1X30870	1X60870
8.731	11/32	81	125	1X30873	1X60873
8.8		81	125	1X30880	1X60880
8.9		81	125	1X30890	1X60890
9		81	125	1X30900	1X60900
9.1		81	125	1X30910	1X60910
9.128	23/64	81	125	1X30913	1X60913
9.2		81	125	1X30920	1X60920
9.3		81	125	1X30930	1X60930
9.4		81	125	1X30940	1X60940
9.5		81	125	1X30950	1X60950
9.525	3/8	87	133	1X30953	1X60953
9.6		87	133	1X30960	1X60960
9.7		87	133	1X30970	1X60970
9.8		87	133	1X30980	1X60980
9.9		87	133	1X30990	1X60990
9.922	25/64	87	133	1X30992	1X60992
10		87	133	1X31000	1X61000
10.1		87	133	1X31010	1X61010
10.2		87	133	1X31020	1X61020
10.3		87	133	1X31030	1X61030
10.319	13/32	87	133	1X31032	1X61032
10.4		87	133	1X31040	1X61040
10.5		87	133	1X31050	1X61050
10.6		87	133	1X31060	1X61060
10.7		94	142	1X31070	1X61070
10.716	27/64	94	142	1X31072	1X61072

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**Straight  
Shank Drills**

Forets à queue droite

Bohrer mit  
Zylinderschaft

Brocas de mango recto

Сверла с  
цилиндрическим  
хвостовиком





OSG GROUP COMPANY

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Коды

**1X3, 1X6**

**Properties**  
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pgs 70, 74-75

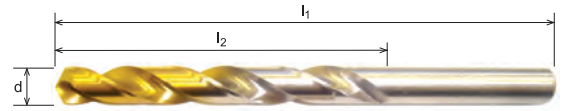
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**Brocas de vástago recto X-Ratio**  
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10.8		94	142	1X31080	1X61080
10.9		94	142	1X31090	1X61090
11		94	142	1X31100	1X61100
11.1		94	142	1X31110	1X61110
11.112	7/16	94	142	1X31111	1X61111
11.2		94	142	1X31120	1X61120
11.3		94	142	1X31130	1X61130
11.4		94	142	1X31140	1X61140
11.5		94	142	1X31150	1X61150
11.509	29/64	94	142	1X31151	1X61151
11.6		94	142	1X31160	1X61160
11.7		94	142	1X31170	1X61170
11.8		94	142	1X31180	1X61180
11.9		101	151	1X31190	1X61190
11.906	15/32	101	151	1X31191	1X61191
12		101	151	1X31200	1X61200
12.1		101	151	1X31210	1X61210
12.3		101	151	1X31230	1X61230
12.303	31/64	101	151	1X31229	1X61229
12.4		101	151	1X31240	1X61240
12.5		101	151	1X31250	1X61250
12.6		101	151	1X31260	1X61260
12.7		101	151	1X31270	1X61270
12.700	1/2	101	151	1X31269	1X61269
12.8		101	151	1X31280	1X61280
12.9		101	151	1X31290	1X61290
13		101	151	1X31300	1X61300
13.097	33/64	101	151	1X31309	1X61309
13.1		101	151	1X31310	1X61310

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mm	inch			Standard Point Pointe Standard Standardspitze Punta estándar Стандартная вершина	Split Point Pointe en croix Kreuzanschliff Punta afilada en cruz Вершина Split Point
13.2		101	151	1X31320	1X61320
13.25		108	160	1X31325	1X61325
13.3		108	160	1X31330	1X61330
13.4		108	160	1X31340	1X61340
13.494	17/32	108	160	1X31349	1X61349
13.5		108	160	1X31350	1X61350
13.6		108	160	1X31360	1X61360
13.7		108	160	1X31370	1X61370
13.8		108	160	1X31380	1X61380
13.891	35/64	108	160	1X31389	1X61389
14		108	160	1X31400	1X61400
14.25		114	169	1X31425	1X61425
14.287	9/16	114	169	1X31429	1X61429
14.5		114	169	1X31450	1X61450
14.684	37/64	114	169	1X31468	1X61468
14.75		114	169	1X31475	1X61475
15		114	169	1X31500	1X61500
15.25		120	178	1X31525	1X61525
15.5		120	178	1X31550	1X61550
15.75		120	178	1X31575	1X61575
15.875	5/8	120	178	1X31588	1X61588
16		120	178	1X31600	1X61600
16.5		125	184	1X31650	1X61650
17		125	184	1X31700	1X61700
17.5		130	191	1X31750	1X61750
18		130	191	1X31800	1X61800
18.5		135	198	1X31850	1X61850
19		135	198	1X31900	1X61900
19.5		140	205	1X31950	1X61950
20		140	205	1X32000	1X62000

Available on request  
Disponible sur demande  
Lieferbar auf Anfrage  
Disponibile bajo pedido  
Доступен по запросу

Application Anwendung Aplicación Применение	GENERAL ALLGEMEINE ОБЩЕЕ
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**Straight  
Shank Drills**  
Forets à queue droite  
Bohrer mit  
Zylinderschaft  
Brocas de mango recto  
Сверла с  
цилиндрическим  
хвостовиком



shaping your dreams