



HSS Series – HSS Serileri

# SOMTA

Fiyat Listesi  
2022 - 2023





OSG GROUP COMPANY

Kodlar Codes
<b>1X2</b>

Özellikler Properties		
mm	DIN 338	HSS
	Tip N Type N	
	MAVİ FİNİŞ BLUE FINISH	

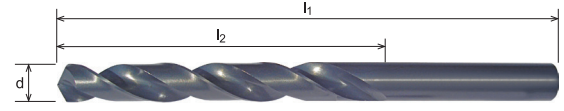
Uygulama Application
GENEL GENERAL



Düz Şaftlı  
Matkaplar  
Straight  
Shank Drills

Ç X-Ratio , düz şaftlı matkap  
TU Buhar menevişli matkap uçları.

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



d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
1	12	34	1X20100	<b>0,89</b>
1.1	14	36	1X20110	<b>0,89</b>
1.2	16	38	1X20120	<b>1,44</b>
1.3	16	38	1X20130	<b>1,44</b>
1.4	18	40	1X20140	<b>1,44</b>
1.5	18	40	1X20150	<b>1,44</b>
1.6	20	43	1X20160	<b>1,44</b>
1.7	20	43	1X20170	<b>1,44</b>
1.8	22	46	1X20180	<b>1,44</b>
1.9	22	46	1X20190	<b>1,44</b>
2	24	49	1X20200	<b>0,69</b>
2.1	24	49	1X20210	<b>0,79</b>
2.2	27	53	1X20220	<b>0,79</b>
2.3	27	53	1X20230	<b>0,79</b>
2.4	30	57	1X20240	<b>0,79</b>
2.5	30	57	1X20250	<b>0,72</b>
2.6	30	57	1X20260	<b>0,88</b>
2.7	33	61	1X20270	<b>0,88</b>
2.8	33	61	1X20280	<b>0,88</b>
2.9	33	61	1X20290	<b>0,88</b>
3	33	61	1X20300	<b>0,75</b>
3.1	36	65	1X20310	<b>0,75</b>
3.2	36	65	1X20320	<b>0,75</b>
3.3	36	65	1X20330	<b>0,75</b>
3.4	39	70	1X20340	<b>0,75</b>
3.5	39	70	1X20350	<b>1,07</b>
3.6	39	70	1X20360	<b>1,07</b>
3.7	39	70	1X20370	<b>1,07</b>
3.8	43	75	1X20380	<b>1,07</b>
3.9	43	75	1X20390	<b>1,07</b>
4	43	75	1X20400	<b>1,64</b>
4.1	43	75	1X20410	<b>1,64</b>
4.2	43	75	1X20420	<b>1,64</b>
4.3	47	80	1X20430	<b>1,64</b>
4.4	47	80	1X20440	<b>1,64</b>
4.5	47	80	1X20450	<b>2,02</b>
4.6	47	80	1X20460	<b>2,02</b>
4.7	47	80	1X20470	<b>2,02</b>
4.8	52	86	1X20480	<b>2,02</b>
4.9	52	86	1X20490	<b>2,02</b>
5	52	86	1X20500	<b>2,45</b>
5.1	52	86	1X20510	<b>2,45</b>
5.2	52	86	1X20520	<b>2,45</b>
5.3	52	86	1X20530	<b>2,45</b>
5.4	57	93	1X20540	<b>2,45</b>
5.5	57	93	1X20550	<b>2,75</b>
5.6	57	93	1X20560	<b>2,75</b>
5.7	57	93	1X20570	<b>2,75</b>
5.8	57	93	1X20580	<b>2,75</b>
5.9	57	93	1X20590	<b>2,75</b>
6	57	93	1X20600	<b>3,15</b>
6.1	63	101	1X20610	<b>3,15</b>
6.2	63	101	1X20620	<b>3,15</b>
6.3	63	101	1X20630	<b>3,15</b>
6.4	63	101	1X20640	<b>3,15</b>
6.5	63	101	1X20650	<b>3,31</b>
6.6	63	101	1X20660	<b>3,31</b>
6.7	63	101	1X20670	<b>3,31</b>
6.8	69	109	1X20680	<b>3,31</b>
6.9	69	109	1X20690	<b>3,31</b>
7	69	109	1X20700	<b>4,18</b>
7.1	69	109	1X20710	<b>4,18</b>
7.2	69	109	1X20720	<b>4,18</b>
7.3	69	109	1X20730	<b>4,18</b>
7.4	69	109	1X20740	<b>4,18</b>
7.5	69	109	1X20750	<b>4,67</b>
7.6	75	117	1X20760	<b>4,67</b>
7.7	75	117	1X20770	<b>4,67</b>
7.8	75	117	1X20780	<b>4,67</b>
7.9	75	117	1X20790	<b>4,67</b>
8	75	117	1X20800	<b>5,31</b>
8.1	75	117	1X20810	<b>5,31</b>
8.2	75	117	1X20820	<b>5,31</b>

d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
8.3	75	117	1X20830	<b>5,31</b>
8.4	75	117	1X20840	<b>5,31</b>
8.5	75	117	1X20850	<b>6,02</b>
8.6	81	125	1X20860	<b>6,02</b>
8.7	81	125	1X20870	<b>6,02</b>
8.8	81	125	1X20880	<b>6,02</b>
8.9	81	125	1X20890	<b>6,02</b>
9	81	125	1X20900	<b>7,30</b>
9.1	81	125	1X20910	<b>7,30</b>
9.2	81	125	1X20920	<b>7,30</b>
9.3	81	125	1X20930	<b>7,30</b>
9.4	81	125	1X20940	<b>7,30</b>
9.5	81	125	1X20950	<b>7,85</b>
9.6	87	133	1X20960	<b>7,85</b>
9.7	87	133	1X20970	<b>7,85</b>
9.8	87	133	1X20980	<b>7,85</b>
9.9	87	133	1X20990	<b>7,85</b>
10	87	133	1X21000	<b>8,55</b>
10.1	87	133	1X21010	<b>8,55</b>
10.2	87	133	1X21020	<b>8,55</b>
10.3	87	133	1X21030	<b>8,55</b>
10.4	87	133	1X21040	<b>8,55</b>
10.5	87	133	1X21050	<b>9,55</b>
10.6	87	133	1X21060	<b>9,55</b>
10.7	94	142	1X21070	<b>9,55</b>
10.8	94	142	1X21080	<b>9,55</b>
10.9	94	142	1X21090	<b>9,55</b>
11	94	142	1X21100	<b>11,06</b>
11.1	94	142	1X21110	<b>11,06</b>
11.2	94	142	1X21120	<b>11,06</b>
11.3	94	142	1X21130	<b>11,06</b>
11.4	94	142	1X21140	<b>11,06</b>
11.5	94	142	1X21150	<b>11,92</b>
11.6	94	142	1X21160	<b>11,92</b>
11.7	94	142	1X21170	<b>11,92</b>
11.8	94	142	1X21180	<b>11,92</b>
11.9	101	151	1X21190	<b>11,92</b>
12	101	151	1X21200	<b>12,80</b>
12.1	101	151	1X21210	<b>12,80</b>
12.3	101	151	1X21230	<b>12,80</b>
12.4	101	151	1X21240	<b>12,80</b>
12.5	101	151	1X21250	<b>13,74</b>
12.6	101	151	1X21260	<b>13,74</b>
12.7	101	151	1X21270	<b>13,74</b>
12.8	101	151	1X21280	<b>13,74</b>
12.9	101	151	1X21290	<b>13,74</b>
13	101	151	1X21300	<b>15,51</b>
13.1	101	151	1X21310	<b>16,14</b>
13.2	101	151	1X21320	<b>16,14</b>
13.25	108	160	1X21325	<b>19,90</b>
13.3	108	160	1X21330	<b>19,90</b>
13.4	108	160	1X21340	<b>19,90</b>
13.5	108	160	1X21350	<b>20,22</b>
13.6	108	160	1X21360	<b>20,22</b>
13.7	108	160	1X21370	<b>20,22</b>
13.8	108	160	1X21380	<b>20,22</b>
14	108	160	1X21400	<b>20,68</b>
14.25	114	169	1X21425	<b>20,68</b>
14.5	114	169	1X21450	<b>23,79</b>
14.75	114	169	1X21475	<b>23,79</b>
15	114	169	1X21500	<b>24,93</b>
15.25	120	178	1X21525	<b>25,34</b>
15.5	120	178	1X21550	<b>29,19</b>
15.75	120	178	1X21575	<b>29,19</b>
16	120	178	1X21600	<b>29,38</b>
16.5	125	184	1X21650	<b>29,53</b>
17	125	184	1X21700	<b>31,38</b>
17.5	130	191	1X21750	<b>32,47</b>
18	130	191	1X21800	<b>35,94</b>
18.5	135	198	1X21850	<b>37,47</b>
19	135	198	1X21900	<b>41,07</b>
19.5	140	205	1X21950	<b>42,62</b>
20	140	205	1X22000	<b>42,62</b>



shaping your dreams



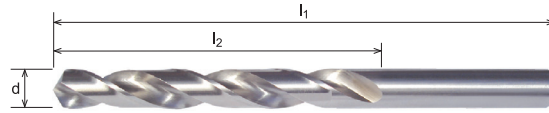
## X-Ratio , düz shaftlı matkap

Taşlanmış matkap uçları.



## X-Ratio Straight Shank Jobber Drills

For general purpose drilling.



d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
1	12	34	1X10100	<b>0,36</b>
1.1	14	36	1X10110	<b>0,36</b>
1.2	16	38	1X10120	<b>0,46</b>
1.3	16	38	1X10130	<b>0,46</b>
1.4	18	40	1X10140	<b>0,46</b>
1.5	18	40	1X10150	<b>0,46</b>
1.6	20	43	1X10160	<b>0,46</b>
1.7	20	43	1X10170	<b>0,46</b>
1.8	22	46	1X10180	<b>0,46</b>
1.9	22	46	1X10190	<b>0,46</b>
2	24	49	1X10200	<b>0,50</b>
2.1	24	49	1X10210	<b>0,50</b>
2.2	27	53	1X10220	<b>0,50</b>
2.3	27	53	1X10230	<b>0,50</b>
2.4	30	57	1X10240	<b>0,50</b>
2.5	30	57	1X10250	<b>0,59</b>
2.6	30	57	1X10260	<b>0,59</b>
2.7	33	61	1X10270	<b>0,59</b>
2.8	33	61	1X10280	<b>0,59</b>
2.9	33	61	1X10290	<b>0,59</b>
3	33	61	1X10300	<b>0,73</b>
3.1	36	65	1X10310	<b>0,73</b>
3.2	36	65	1X10320	<b>0,73</b>
3.3	36	65	1X10330	<b>0,73</b>
3.4	39	70	1X10340	<b>0,73</b>
3.5	39	70	1X10350	<b>1,07</b>
3.6	39	70	1X10360	<b>1,07</b>
3.7	39	70	1X10370	<b>1,07</b>
3.8	43	75	1X10380	<b>1,07</b>
3.9	43	75	1X10390	<b>1,07</b>
4	43	75	1X10400	<b>1,76</b>
4.1	43	75	1X10410	<b>1,76</b>
4.2	43	75	1X10420	<b>1,76</b>
4.3	47	80	1X10430	<b>1,76</b>
4.4	47	80	1X10440	<b>1,76</b>
4.5	47	80	1X10450	<b>2,45</b>
4.6	47	80	1X10460	<b>2,45</b>
4.7	47	80	1X10470	<b>2,45</b>
4.8	52	86	1X10480	<b>2,45</b>
4.9	52	86	1X10490	<b>2,45</b>
5	52	86	1X10500	<b>2,45</b>
5.1	52	86	1X10510	<b>2,45</b>
5.2	52	86	1X10520	<b>2,45</b>
5.3	52	86	1X10530	<b>2,45</b>
5.4	57	93	1X10540	<b>2,45</b>
5.5	57	93	1X10550	<b>2,75</b>
5.6	57	93	1X10560	<b>2,75</b>
5.7	57	93	1X10570	<b>2,75</b>
5.8	57	93	1X10580	<b>2,75</b>
5.9	57	93	1X10590	<b>2,75</b>
6	57	93	1X10600	<b>3,01</b>
6.1	63	101	1X10610	<b>3,01</b>
6.2	63	101	1X10620	<b>3,01</b>
6.3	63	101	1X10630	<b>3,01</b>
6.4	63	101	1X10640	<b>3,01</b>
6.5	63	101	1X10650	<b>3,31</b>
6.6	63	101	1X10660	<b>3,31</b>
6.7	63	101	1X10670	<b>3,31</b>
6.8	69	109	1X10680	<b>3,31</b>
6.9	69	109	1X10690	<b>3,31</b>
7	69	109	1X10700	<b>4,18</b>
7.1	69	109	1X10710	<b>4,18</b>
7.2	69	109	1X10720	<b>4,18</b>
7.3	69	109	1X10730	<b>4,18</b>
7.4	69	109	1X10740	<b>4,18</b>
7.5	69	109	1X10750	<b>4,67</b>
7.6	75	117	1X10760	<b>4,67</b>
7.7	75	117	1X10770	<b>4,67</b>
7.8	75	117	1X10780	<b>4,67</b>
7.9	75	117	1X10790	<b>4,67</b>
8	75	117	1X10800	<b>5,31</b>
8.1	75	117	1X10810	<b>5,31</b>
8.2	75	117	1X10820	<b>5,31</b>

d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
8.3	75	117	1X10830	<b>5,31</b>
8.4	75	117	1X10840	<b>5,31</b>
8.5	75	117	1X10850	<b>6,02</b>
8.6	81	125	1X10860	<b>6,02</b>
8.7	81	125	1X10870	<b>6,02</b>
8.8	81	125	1X10880	<b>6,02</b>
8.9	81	125	1X10890	<b>6,02</b>
9	81	125	1X10900	<b>7,30</b>
9.1	81	125	1X10910	<b>7,30</b>
9.2	81	125	1X10920	<b>7,30</b>
9.3	81	125	1X10930	<b>7,30</b>
9.4	81	125	1X10940	<b>7,30</b>
9.5	81	125	1X10950	<b>7,85</b>
9.6	87	133	1X10960	<b>7,85</b>
9.7	87	133	1X10970	<b>7,85</b>
9.8	87	133	1X10980	<b>7,85</b>
9.9	87	133	1X10990	<b>7,85</b>
10	87	133	1X11000	<b>8,55</b>
10.1	87	133	1X11010	<b>8,55</b>
10.2	87	133	1X11020	<b>8,55</b>
10.3	87	133	1X11030	<b>8,55</b>
10.4	87	133	1X11040	<b>8,55</b>
10.5	87	133	1X11050	<b>9,55</b>
10.6	87	133	1X11060	<b>9,55</b>
10.7	94	142	1X11070	<b>9,55</b>
10.8	94	142	1X11080	<b>9,55</b>
10.9	94	142	1X11090	<b>9,55</b>
11	94	142	1X11100	<b>11,06</b>
11.1	94	142	1X11110	<b>11,06</b>
11.2	94	142	1X11120	<b>11,06</b>
11.3	94	142	1X11130	<b>11,06</b>
11.4	94	142	1X11140	<b>11,06</b>
11.5	94	142	1X11150	<b>11,92</b>
11.6	94	142	1X11160	<b>11,92</b>
11.7	94	142	1X11170	<b>11,92</b>
11.8	94	142	1X11180	<b>11,92</b>
11.9	101	151	1X11190	<b>11,92</b>
12	101	151	1X11200	<b>12,80</b>
12.1	101	151	1X11210	<b>12,80</b>
12.2	101	151	1X11220	<b>12,80</b>
12.3	101	151	1X11230	<b>12,80</b>
12.4	101	151	1X11240	<b>12,80</b>
12.5	101	151	1X11250	<b>13,74</b>
12.6	101	151	1X11260	<b>13,74</b>
12.7	101	151	1X11270	<b>13,74</b>
12.8	101	151	1X11280	<b>13,74</b>
12.9	101	151	1X11290	<b>13,74</b>
13	101	151	1X11300	<b>13,55</b>
13.1	101	151	1X11310	<b>15,51</b>
13.2	101	151	1X11320	<b>15,51</b>
13.25	108	160	1X11325	<b>15,51</b>
13.3	108	160	1X11330	<b>15,51</b>
13.4	108	160	1X11340	<b>15,51</b>
13.5	108	160	1X11350	<b>19,84</b>
13.6	108	160	1X11360	<b>19,84</b>
13.7	108	160	1X11370	<b>19,84</b>
13.8	108	160	1X11380	<b>19,84</b>
14	108	160	1X11400	<b>19,84</b>
14.25	114	169	1X11425	<b>19,84</b>
14.5	114	169	1X11450	<b>19,84</b>
14.75	114	169	1X11475	<b>19,94</b>
15	114	169	1X11500	<b>19,97</b>
15.25	120	178	1X11525	<b>19,97</b>
15.5	120	178	1X11550	<b>19,97</b>
15.75	120	178	1X11575	<b>19,97</b>
16	120	178	1X11600	<b>19,97</b>
16.5	125	184	1X11650	<b>23,86</b>
17	125	184	1X11700	<b>26,84</b>
17.5	130	191	1X11750	<b>29,84</b>
18	130	191	1X11800	<b>32,80</b>
18.5	135	198	1X11850	<b>34,30</b>
19	135	198	1X11900	<b>35,78</b>
19.5	140	205	1X11950	<b>37,28</b>
20	140	205	1X12000	<b>40,26</b>



OSG GROUP COMPANY

Kod Code		
<b>1X1</b>		
Özellikler Properties		
mm	DIN 338	HSS
	Tip N Type N	
		30°
PARLAK FİNİŞ BRIGHT FINISH		
Uygulama Application		
GENEL GENERAL		



Düz Shaftlı Matkaplar  
Straight Shank Drills

## HSS SERİLERİ - HSS SERIES

VOLUME 2

3



shaping your dreams



OSG GROUP COMPANY

Kod Code
<b>1X3</b>

Özellikler Properties		
mm	DIN 338	HSS
	Tip N Type N	
	h8	
TIN KAPLAMALI TAŞLANMIŞ MATKAP BRIGHT FINISH WITH TIN TIP		

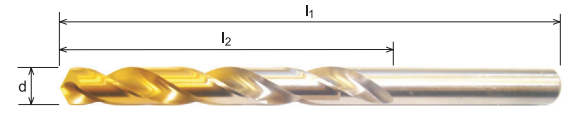
Uygulama Application
GENEL GENERAL



Düz Şaftlı Matkaplar  
Straight Shank Drills

Ç X-Ratio , düz şaftlı matkap  
TU Tin kaplı matkap uçları.

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



d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
1	12	34	1X30100	<b>0,96</b>
1.1	14	36	1X30110	<b>0,96</b>
1.2	16	38	1X30120	<b>0,96</b>
1.3	16	38	1X30130	<b>0,96</b>
1.4	18	40	1X30140	<b>0,96</b>
1.5	18	40	1X30150	<b>1,04</b>
1.6	20	43	1X30160	<b>1,04</b>
1.7	20	43	1X30170	<b>1,04</b>
1.8	22	46	1X30180	<b>1,04</b>
1.9	22	46	1X30190	<b>1,04</b>
2	24	49	1X30200	<b>1,12</b>
2.1	24	49	1X30210	<b>1,12</b>
2.2	27	53	1X30220	<b>1,12</b>
2.3	27	53	1X30230	<b>1,12</b>
2.4	30	57	1X30240	<b>1,12</b>
2.5	30	57	1X30250	<b>1,12</b>
2.6	30	57	1X30260	<b>1,14</b>
2.7	33	61	1X30270	<b>1,14</b>
2.8	33	61	1X30280	<b>1,14</b>
2.9	33	61	1X30290	<b>1,14</b>
3	33	61	1X30300	<b>1,56</b>
3.1	36	65	1X30310	<b>1,56</b>
3.2	36	65	1X30320	<b>1,56</b>
3.3	36	65	1X30330	<b>1,56</b>
3.4	39	70	1X30340	<b>1,56</b>
3.5	39	70	1X30350	<b>1,87</b>
3.6	39	70	1X30360	<b>1,87</b>
3.7	39	70	1X30370	<b>1,87</b>
3.8	43	75	1X30380	<b>1,87</b>
3.9	43	75	1X30390	<b>1,87</b>
4	43	75	1X30400	<b>2,55</b>
4.1	43	75	1X30410	<b>2,55</b>
4.2	43	75	1X30420	<b>2,55</b>
4.3	47	80	1X30430	<b>2,55</b>
4.4	47	80	1X30440	<b>2,55</b>
4.5	47	80	1X30450	<b>3,24</b>
4.6	47	80	1X30460	<b>3,24</b>
4.7	47	80	1X30470	<b>3,24</b>
4.8	52	86	1X30480	<b>3,24</b>
4.9	52	86	1X30490	<b>3,24</b>
5	52	86	1X30500	<b>3,44</b>
5.1	52	86	1X30510	<b>3,44</b>
5.2	52	86	1X30520	<b>3,44</b>
5.3	52	86	1X30530	<b>3,44</b>
5.4	57	93	1X30540	<b>3,44</b>
5.5	57	93	1X30550	<b>3,76</b>
5.6	57	93	1X30560	<b>3,76</b>
5.7	57	93	1X30570	<b>3,76</b>
5.8	57	93	1X30580	<b>3,76</b>
5.9	57	93	1X30590	<b>3,76</b>
6	57	93	1X30600	<b>3,99</b>
6.1	63	101	1X30610	<b>3,99</b>
6.2	63	101	1X30620	<b>3,99</b>
6.3	63	101	1X30630	<b>3,99</b>
6.4	63	101	1X30640	<b>3,99</b>
6.5	63	101	1X30650	<b>5,96</b>
6.6	63	101	1X30660	<b>5,96</b>
6.7	63	101	1X30670	<b>5,96</b>
6.8	69	109	1X30680	<b>5,96</b>
6.9	69	109	1X30690	<b>5,96</b>
7	69	109	1X30700	<b>6,84</b>
7.1	69	109	1X30710	<b>6,84</b>
7.2	69	109	1X30720	<b>6,84</b>
7.3	69	109	1X30730	<b>6,84</b>
7.4	69	109	1X30740	<b>6,84</b>
7.5	69	109	1X30750	<b>7,33</b>
7.6	75	117	1X30760	<b>7,33</b>
7.7	75	117	1X30770	<b>7,33</b>
7.8	75	117	1X30780	<b>7,33</b>
7.9	75	117	1X30790	<b>7,33</b>
8	75	117	1X30800	<b>7,93</b>
8.1	75	117	1X30810	<b>7,93</b>
8.2	75	117	1X30820	<b>7,93</b>

d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
8.3	75	117	1X30830	<b>7,93</b>
8.4	75	117	1X30840	<b>7,93</b>
8.5	75	117	1X30850	<b>9,37</b>
8.6	81	125	1X30860	<b>9,37</b>
8.7	81	125	1X30870	<b>9,37</b>
8.8	81	125	1X30880	<b>9,37</b>
8.9	81	125	1X30890	<b>9,37</b>
9	81	125	1X30900	<b>10,63</b>
9.1	81	125	1X30910	<b>10,63</b>
9.2	81	125	1X30920	<b>10,63</b>
9.3	81	125	1X30930	<b>10,63</b>
9.4	81	125	1X30940	<b>10,63</b>
9.5	81	125	1X30950	<b>11,17</b>
9.6	87	133	1X30960	<b>11,17</b>
9.7	87	133	1X30970	<b>11,17</b>
9.8	87	133	1X30980	<b>11,17</b>
9.9	87	133	1X30990	<b>11,17</b>
10	87	133	1X31000	<b>12,54</b>
10.1	87	133	1X31010	<b>12,54</b>
10.2	87	133	1X31020	<b>12,54</b>
10.3	87	133	1X31030	<b>12,54</b>
10.4	87	133	1X31040	<b>12,54</b>
10.5	87	133	1X31050	<b>13,65</b>
10.6	87	133	1X31060	<b>13,65</b>
10.7	94	142	1X31070	<b>13,65</b>
10.8	94	142	1X31080	<b>13,65</b>
10.9	94	142	1X31090	<b>13,65</b>
11	94	142	1X31100	<b>15,15</b>
11.1	94	142	1X31110	<b>15,15</b>
11.2	94	142	1X31120	<b>15,15</b>
11.3	94	142	1X31130	<b>15,15</b>
11.4	94	142	1X31140	<b>15,15</b>
11.5	94	142	1X31150	<b>16,03</b>
11.6	94	142	1X31160	<b>16,03</b>
11.7	94	142	1X31170	<b>16,03</b>
11.8	94	142	1X31180	<b>16,03</b>
11.9	101	151	1X31190	<b>16,03</b>
12	101	151	1X31200	<b>16,89</b>
12.1	101	151	1X31210	<b>16,89</b>
12.3	101	151	1X31230	<b>16,89</b>
12.4	101	151	1X31240	<b>16,89</b>
12.5	101	151	1X31250	<b>17,84</b>
12.6	101	151	1X31260	<b>17,84</b>
12.7	101	151	1X31270	<b>17,84</b>
12.8	101	151	1X31280	<b>17,84</b>
12.9	101	151	1X31290	<b>17,84</b>
13	101	151	1X31300	<b>18,81</b>
13.1	101	151	1X31310	<b>19,38</b>
13.2	101	151	1X31320	<b>19,38</b>
13.25	108	160	1X31325	<b>19,38</b>
13.3	108	160	1X31330	<b>19,38</b>
13.4	108	160	1X31340	<b>19,38</b>
13.5	108	160	1X31350	<b>20,33</b>
13.6	108	160	1X31360	<b>20,33</b>
13.7	108	160	1X31370	<b>20,33</b>
13.8	108	160	1X31380	<b>20,33</b>
14	108	160	1X31400	<b>20,52</b>
14.25	114	169	1X31425	<b>20,52</b>
14.5	114	169	1X31450	<b>22,36</b>
14.75	114	169	1X31475	<b>22,36</b>
15	114	169	1X31500	<b>23,26</b>
15.25	120	178	1X31525	<b>23,26</b>
15.5	120	178	1X31550	<b>26,09</b>
15.75	120	178	1X31575	<b>26,09</b>
16	120	178	1X31600	<b>27,30</b>
16.5	125	184	1X31650	<b>31,31</b>
17.0	125	184	1X31700	<b>34,30</b>
17.5	130	191	1X31750	<b>35,78</b>
18	130	191	1X31800	<b>37,28</b>
18.5	135	198	1X31850	<b>38,78</b>
19	135	198	1X31900	<b>40,26</b>
19.5	140	205	1X31950	<b>41,75</b>
20	140	205	1X32000	<b>43,24</b>



shaping your dreams



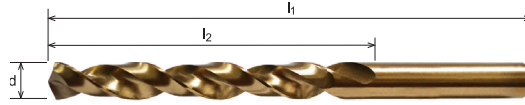
### NDX Jobber Drills - Ağır İşler İçin

Alaşımli çelikler , uzun talaş veren malzemeler ve diğer zor malzemelerin işlenmesi içindir.



### NDX Jobber Drills - Heavy Duty

For drilling high tensile steels and other difficult materials.



OSG GROUP COMPANY

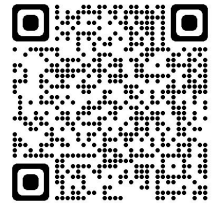
d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
1	12	34	1770100	1,57
1.1	14	36	1770110	1,57
1.2	16	38	1770120	1,57
1.3	16	38	1770130	1,57
1.4	18	40	1770140	1,57
1.5	18	40	1770150	1,51
1.6	20	43	1770160	1,51
1.7	20	43	1770170	1,51
1.8	22	46	1770180	1,51
1.85	22	46	1770185	1,51
1.9	22	46	1770190	1,51
2	24	49	1770200	1,74
2.1	24	49	1770210	1,74
2.2	27	53	1770220	1,74
2.3	27	53	1770230	1,74
2.4	30	57	1770240	1,74
2.5	30	57	1770250	1,74
2.6	30	57	1770260	1,74
2.7	33	61	1770270	1,74
2.8	33	61	1770280	1,74
2.9	33	61	1770290	1,74
2.95	33	61	1770295	1,74
3	33	61	1770300	2,03
3.1	36	65	1770310	2,03
3.2	36	65	1770320	2,03
3.25	36	65	1770325	2,03
3.3	36	65	1770330	2,03
3.4	39	70	1770340	2,03
3.5	39	70	1770350	2,12
3.6	39	70	1770360	2,22
3.7	39	70	1770370	2,29
3.8	43	75	1770380	2,33
3.9	43	75	1770390	2,38
4	43	75	1770400	2,28
4.1	43	75	1770410	2,46
4.2	43	75	1770420	2,39
4.25	43	75	1770425	2,43
4.3	47	80	1770430	2,61
4.4	47	80	1770440	2,68
4.5	47	80	1770450	3,54
4.6	47	80	1770460	3,54
4.7	47	80	1770470	3,54
4.8	52	86	1770480	3,54
4.9	52	86	1770490	3,54
5	52	86	1770500	3,92
5.1	52	86	1770510	3,92
5.2	52	86	1770520	3,92
5.3	52	86	1770530	3,92
5.4	57	93	1770540	3,92
5.5	57	93	1770550	4,55
5.6	57	93	1770560	4,55
5.7	57	93	1770570	4,55
5.8	57	93	1770580	4,55
5.9	57	93	1770590	4,55
6	57	93	1770600	5,17
6.1	63	101	1770610	5,17
6.2	63	101	1770620	5,17
6.25	63	101	1770625	5,17
6.3	63	101	1770630	5,17
6.4	63	101	1770640	5,17
6.5	63	101	1770650	5,75
6.6	63	101	1770660	5,75
6.7	63	101	1770670	5,80
6.75	69	101	1770675	5,82

d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
6.8	69	109	1770680	5,83
6.9	69	109	1770690	6,12
7	69	109	1770700	6,72
7.1	69	109	1770710	7,19
7.2	69	109	1770720	7,34
7.3	69	109	1770730	7,23
7.4	69	109	1770740	7,16
7.5	69	109	1770750	7,62
7.6	75	117	1770760	7,62
7.7	75	117	1770770	7,62
7.8	75	117	1770780	7,62
7.9	75	117	1770790	7,62
8	75	117	1770800	8,65
8.1	75	117	1770810	8,65
8.2	75	117	1770820	8,65
8.25	75	117	1770825	8,65
8.3	75	117	1770830	8,65
8.4	75	117	1770840	8,65
8.5	75	117	1770850	9,49
8.6	81	125	1770860	9,49
8.7	81	125	1770870	9,49
8.8	81	125	1770880	9,49
8.9	81	125	1770890	9,68
9	81	125	1770900	10,66
9.1	81	125	1770910	10,66
9.2	81	125	1770920	10,66
9.3	81	125	1770930	11,28
9.4	81	125	1770940	11,28
9.5	81	125	1770950	11,74
9.6	87	133	1770960	11,85
9.7	87	133	1770970	12,46
9.8	87	133	1770980	12,46
9.9	87	133	1770990	12,46
10	87	133	1771000	13,15
10.1	87	133	1771010	13,15
10.2	87	133	1771020	13,22
10.3	87	133	1771030	14,00
10.4	87	133	1771040	14,76
10.5	87	133	1771050	15,54
10.6	87	133	1771060	15,72
10.7	94	142	1771070	15,83
10.8	94	142	1771080	15,90
10.9	94	142	1771090	16,00
11	94	142	1771100	16,10
11.1	94	142	1771110	16,20
11.2	94	142	1771120	16,50
11.3	94	142	1771130	16,59
11.4	94	142	1771140	16,75
11.5	94	142	1771150	17,78
11.6	94	142	1771160	17,78
11.7	94	142	1771170	17,78
11.8	94	142	1771180	17,78
11.9	101	151	1771190	17,78
12	101	151	1771200	19,20
12.1	101	151	1771210	19,20
12.2	101	151	1771220	19,20
12.3	101	151	1771230	19,20
12.4	101	151	1771240	19,97
12.5	101	151	1771250	21,34
12.6	101	151	1771260	21,34
12.7	101	151	1771270	21,34
12.8	101	151	1771280	21,34
12.9	101	151	1771290	21,40
13	101	151	1771300	22,44

Kod Code
<b>177</b>

Özellikler Properties		
mm	DIN 338	HSS Co5
	Tip N Type N	
	< 2.5mm	≥ 2.5mm
	33°	
	ALTIN OKSİT FİNİŞ GOLD OXIDE FINISH	

Uygulama Application
UZUN TALAŞ VEREN ÇELİKLER HIGH TENSILE STEELS
GENEL GENERAL



Düz Şaftlı Matkaplar  
Straight Shank Drills

## HSS SERİLERİ - HSS SERIES

VOLUME 2

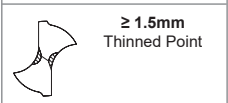




OSG GROUP COMPANY

?cX  
Code  
**1AQ**

x nY`L`Yf  
Properties

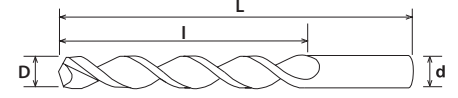


mm	DIN 338	HSS
5xD	CBA	TYPE W
130°	h8	40°
QS	BRIGHT FINISH	

Uygulama  
Application  
Düşük Alaşımli Çelikler  
Alüminyum



- Düşük alaşımli çelikler ve alüminyum malzemeler için sarı bantlı matkap
- Yellow band quick spiral jobber drills
- For drilling materials of low tensile strength



EDP	D	L	l	d	Fiyat Price €	
1AQ0090	0,9	32	11	0,9	<b>1,67</b>	5
1AQ0100	1	34	12	1	<b>2,20</b>	5
1AQ0110	1,1	36	14	1,1	<b>2,36</b>	5
1AQ0120	1,2	38	16	1,2	<b>2,38</b>	5
1AQ0130	1,3	38	16	1,3	<b>1,74</b>	5
1AQ0140	1,4	40	18	1,4	<b>1,74</b>	5
1AQ0150	1,5	40	18	1,5	<b>1,67</b>	5
1AQ0160	1,6	43	20	1,6	<b>1,70</b>	5
1AQ0170	1,7	43	20	1,7	<b>1,97</b>	5
1AQ0180	1,8	46	22	1,8	<b>1,77</b>	5
1AQ0190	1,9	46	22	1,9	<b>2,06</b>	5
1AQ0200	2	49	24	2	<b>2,35</b>	5
1AQ0210	2,1	49	24	2,1	<b>2,36</b>	5
1AQ0220	2,2	53	27	2,2	<b>2,35</b>	5
1AQ0230	2,3	53	27	2,3	<b>2,35</b>	5
1AQ0240	2,4	57	30	2,4	<b>2,49</b>	5
1AQ0250	2,5	57	30	2,5	<b>2,49</b>	5
1AQ0260	2,6	57	30	2,6	<b>2,51</b>	5
1AQ0270	2,7	61	33	2,7	<b>2,26</b>	5
1AQ0280	2,8	61	33	2,8	<b>2,26</b>	5
1AQ0290	2,9	61	33	2,9	<b>2,22</b>	5
1AQ0300	3	61	33	3	<b>2,45</b>	5
1AQ0310	3,1	65	36	3,1	<b>2,51</b>	5
1AQ0320	3,2	65	36	3,2	<b>2,55</b>	5
1AQ0330	3,3	65	36	3,3	<b>2,72</b>	5
1AQ0340	3,4	70	39	3,4	<b>2,87</b>	5
1AQ0350	3,5	70	39	3,5	<b>2,81</b>	5
1AQ0360	3,6	70	39	3,6	<b>3,02</b>	5
1AQ0370	3,7	70	39	3,7	<b>2,89</b>	5
1AQ0380	3,8	75	43	3,8	<b>3,14</b>	5
1AQ0390	3,9	75	43	3,9	<b>3,21</b>	5
1AQ0400	4	75	43	4	<b>3,24</b>	5
1AQ0410	4,1	75	43	4,1	<b>3,34</b>	5
1AQ0420	4,2	75	43	4,2	<b>3,38</b>	5
1AQ0430	4,3	80	47	4,3	<b>3,51</b>	5
1AQ0440	4,4	80	47	4,4	<b>3,56</b>	5
1AQ0450	4,5	80	47	4,5	<b>3,60</b>	5
1AQ0460	4,6	80	47	4,6	<b>3,66</b>	5
1AQ0470	4,7	80	47	4,7	<b>3,73</b>	5
1AQ0480	4,8	86	52	4,8	<b>3,96</b>	5
1AQ0490	4,9	86	52	4,9	<b>4,10</b>	5
1AQ0500	5	86	52	5	<b>4,15</b>	5
1AQ0510	5,1	86	52	5,1	<b>4,42</b>	5
1AQ0520	5,2	86	52	5,2	<b>4,48</b>	5
1AQ0530	5,3	86	52	5,3	<b>4,38</b>	5
1AQ0540	5,4	93	57	5,4	<b>4,82</b>	5
1AQ0550	5,5	93	57	5,5	<b>4,90</b>	5
1AQ0560	5,6	93	57	5,6	<b>4,94</b>	5
1AQ0570	5,7	93	57	5,7	<b>5,18</b>	5
1AQ0580	5,8	93	57	5,8	<b>5,27</b>	5

EDP	D	L	l	d	Fiyat Price €	
1AQ0590	5,9	93	57	5,9	<b>5,33</b>	5
1AQ0600	6	93	57	6	<b>5,40</b>	5
1AQ0610	6,1	101	63	6,1	<b>5,44</b>	5
1AQ0620	6,2	101	63	6,2	<b>5,53</b>	5
1AQ0630	6,3	101	63	6,3	<b>5,60</b>	5
1AQ0640	6,4	101	63	6,4	<b>5,63</b>	5
1AQ0650	6,5	101	63	6,5	<b>5,76</b>	5
1AQ0660	6,6	101	63	6,6	<b>6,26</b>	5
1AQ0670	6,7	101	63	6,7	<b>6,32</b>	5
1AQ0680	6,8	109	69	6,8	<b>6,74</b>	5
1AQ0690	6,9	109	69	6,9	<b>6,81</b>	5
1AQ0700	7	109	69	7	<b>6,90</b>	5
1AQ0710	7,1	109	69	7,1	<b>7,06</b>	5
1AQ0720	7,2	109	69	7,2	<b>7,20</b>	5
1AQ0730	7,3	109	69	7,3	<b>7,30</b>	5
1AQ0740	7,4	109	69	7,4	<b>7,57</b>	5
1AQ0750	7,5	109	69	7,5	<b>7,47</b>	5
1AQ0760	7,6	117	75	7,6	<b>7,68</b>	1
1AQ0770	7,7	117	75	7,7	<b>7,99</b>	1
1AQ0780	7,8	117	75	7,8	<b>7,89</b>	1
1AQ0790	7,9	117	75	7,9	<b>8,19</b>	1
1AQ0800	8	117	75	8	<b>8,09</b>	1
1AQ0810	8,1	117	75	8,1	<b>8,19</b>	1
1AQ0820	8,2	117	75	8,2	<b>8,32</b>	1
1AQ0830	8,3	117	75	8,3	<b>8,41</b>	1
1AQ0840	8,4	117	75	8,4	<b>8,74</b>	1
1AQ0850	8,5	117	75	8,5	<b>8,64</b>	1
1AQ0860	8,6	125	81	8,6	<b>9,62</b>	1
1AQ0870	8,7	125	81	8,7	<b>9,73</b>	1
1AQ0880	8,8	125	81	8,8	<b>9,92</b>	1
1AQ0890	8,9	125	81	8,9	<b>10,45</b>	1
1AQ0900	9	125	81	9	<b>10,35</b>	1
1AQ0910	9,1	125	81	9,1	<b>11,25</b>	1
1AQ0920	9,2	125	81	9,2	<b>11,25</b>	1
1AQ0930	9,3	125	81	9,3	<b>11,25</b>	1
1AQ0940	9,4	125	81	9,4	<b>11,12</b>	1
1AQ0950	9,5	125	81	9,5	<b>10,99</b>	1
1AQ0960	9,6	133	87	9,6	<b>12,11</b>	1
1AQ0970	9,7	133	87	9,7	<b>11,97</b>	1
1AQ0980	9,8	133	87	9,8	<b>12,11</b>	1
1AQ0990	9,9	133	87	9,9	<b>12,25</b>	1
1AQ1000	10	133	87	10	<b>12,38</b>	1
1AQ1020	10,2	133	87	10,2	<b>12,79</b>	1
1AQ1050	10,5	133	87	10,5	<b>13,32</b>	1
1AQ1100	11	142	94	11	<b>14,69</b>	1
1AQ1150	11,5	142	94	11,5	<b>15,85</b>	1
1AQ1200	12	151	101	12	<b>17,44</b>	1
1AQ1250	12,5	151	101	12,5	<b>18,27</b>	1
1AQ1270	12,7	151	101	12,7	<b>18,30</b>	1
1AQ1300	13	151	101	13	<b>19,11</b>	1



Düz Şaftlı  
Matkaplar  
Straight  
Shank Drills



shaping your dreams

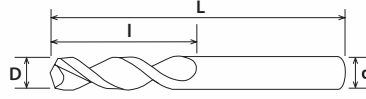


**UDL Kısa Seri Matkaplar**  
Hassas delikler ve verimlilik istenen CNC makine uygulamaları içindir.

**UDL Short Series Drills**  
Ideal for use on CNC machines where high productivity and accurate holes are required.



OSG GROUP COMPANY



Kod Code
<b>163</b>

**Özellikler Properties**

< 1.5mm  
Standard Point

≥ 1.5mm  
Split Point

mm  
inch  
wire  
letter

DIN  
1897

HSS  
Co5

3xD  
TYPE  
FS

40°  
PARLAK  
FINİŞ  
BRIGHT  
FINISH

**Uygulama**

Hassas delikler ve verimlilik istenen CNC makine uygulamaları içindir.



EDP	D	L	l	d	Fiyat Price €	
1630100	1,0	26	6	1,0	<b>2,35</b>	10
1630110	1,1	28	7	1,1	<b>2,35</b>	10
1630120	1,2	30	8	1,2	<b>2,35</b>	10
1630130	1,3	30	8	1,3	<b>2,35</b>	10
1630140	1,4	32	9	1,4	<b>2,22</b>	10
1630150	1,5	32	9	1,5	<b>2,19</b>	10
1630160	1,6	34	10	1,6	<b>1,99</b>	10
1630170	1,7	34	10	1,7	<b>1,99</b>	10
1630180	1,8	36	11	1,8	<b>2,09</b>	10
1630190	1,9	36	11	1,9	<b>2,09</b>	10
1630200	2,0	38	12	2,0	<b>2,09</b>	10
1630210	2,1	38	12	2,1	<b>2,17</b>	10
1630220	2,2	40	13	2,2	<b>2,17</b>	10
1630230	2,3	40	13	2,3	<b>2,22</b>	10
1630240	2,4	43	14	2,4	<b>2,26</b>	10
1630250	2,5	43	14	2,5	<b>2,26</b>	10
1630260	2,6	43	14	2,6	<b>2,33</b>	10
1630270	2,7	46	16	2,7	<b>2,38</b>	10
1630280	2,8	46	16	2,8	<b>2,38</b>	10
1630290	2,9	46	16	2,9	<b>2,39</b>	10
1630300	3,0	46	16	3,0	<b>2,45</b>	10
1630310	3,1	49	18	3,1	<b>2,45</b>	10
1630320	3,2	49	18	3,2	<b>2,53</b>	10
1630330	3,3	49	18	3,3	<b>2,59</b>	10
1630340	3,4	52	20	3,4	<b>2,59</b>	10
1630350	3,5	52	20	3,5	<b>2,91</b>	10
1630360	3,6	52	20	3,6	<b>2,98</b>	10
1630370	3,7	52	20	3,7	<b>2,98</b>	10
1630380	3,8	55	22	3,8	<b>2,98</b>	10
1630390	3,9	55	22	3,9	<b>2,98</b>	10
1630400	4,0	55	22	4,0	<b>3,12</b>	10
1630410	4,1	55	22	4,1	<b>3,10</b>	10
1630420	4,2	55	22	4,2	<b>3,36</b>	10
1630430	4,3	58	24	4,3	<b>3,41</b>	10
1630440	4,4	58	24	4,4	<b>3,41</b>	10
1630450	4,5	58	24	4,5	<b>3,53</b>	10
1630460	4,6	58	24	4,6	<b>3,53</b>	10
1630480	4,8	62	26	4,8	<b>3,64</b>	10
1630490	4,9	62	26	4,9	<b>3,74</b>	10
1630500	5,0	62	26	5,0	<b>4,05</b>	10
1630510	5,1	62	26	5,1	<b>4,05</b>	10
1630520	5,2	62	26	5,2	<b>4,06</b>	10
1630530	5,3	62	26	5,3	<b>4,33</b>	10
1630540	5,4	66	28	5,4	<b>4,33</b>	10
1630550	5,5	66	28	5,5	<b>4,39</b>	10
1630560	5,6	66	28	5,6	<b>4,55</b>	10
1630570	5,7	66	28	5,7	<b>2,09</b>	10
1630580	5,8	66	28	5,8	<b>4,61</b>	10
1630590	5,9	66	28	5,9	<b>4,77</b>	10
1630600	6,0	66	28	6,0	<b>5,33</b>	10

EDP	D	L	l	d	Fiyat Price €	
1630610	6,1	70	31	6,1	<b>5,36</b>	10
1630620	6,2	70	31	6,2	<b>5,36</b>	10
1630630	6,3	70	31	6,3	<b>5,36</b>	10
1630640	6,4	70	31	6,4	<b>5,36</b>	10
1630650	6,5	70	31	6,5	<b>5,62</b>	10
1630660	6,6	70	31	6,6	<b>5,72</b>	10
1630670	6,7	70	31	6,7	<b>6,15</b>	10
1630680	6,8	74	34	6,8	<b>6,35</b>	10
1630690	6,9	74	34	6,9	<b>6,35</b>	10
1630700	7,0	74	34	7,0	<b>6,42</b>	10
1630710	7,1	74	34	7,1	<b>6,54</b>	10
1630720	7,2	74	34	7,2	<b>6,77</b>	10
1630730	7,3	74	34	7,3	<b>6,77</b>	10
1630740	7,4	74	34	7,4	<b>6,77</b>	10
1630750	7,5	74	34	7,5	<b>7,86</b>	10
1630760	7,6	79	37	7,6	<b>7,86</b>	10
1630770	7,7	79	37	7,7	<b>7,86</b>	10
1630780	7,8	79	37	7,8	<b>7,86</b>	10
1630790	7,9	79	37	7,9	<b>7,86</b>	10
1630800	8,0	79	37	8,0	<b>7,96</b>	10
1630810	8,1	79	37	8,1	<b>8,32</b>	10
1630820	8,2	79	37	8,2	<b>8,32</b>	10
1630830	8,3	79	37	8,3	<b>8,32</b>	10
1630840	8,4	79	37	8,4	<b>8,32</b>	10
1630850	8,5	79	37	8,5	<b>9,39</b>	10
1630860	8,6	84	40	8,6	<b>9,56</b>	10
1630870	8,7	84	40	8,7	<b>9,56</b>	10
1630880	8,8	84	40	8,8	<b>9,76</b>	10
1630890	8,9	84	40	8,9	<b>9,76</b>	10
1630900	9,0	84	40	9,0	<b>9,94</b>	10
1630910	9,1	84	40	9,1	<b>10,07</b>	10
1630920	9,2	84	40	9,2	<b>10,57</b>	10
1630930	9,3	84	40	9,3	<b>10,58</b>	10
1630940	9,4	84	40	9,4	<b>10,64</b>	10
1630950	9,5	84	40	9,5	<b>11,00</b>	10
1630960	9,6	89	43	9,6	<b>11,65</b>	10
1630970	9,7	89	43	9,7	<b>11,65</b>	10
1630980	9,8	89	43	9,8	<b>11,65</b>	5
1630990	9,9	89	43	9,9	<b>11,78</b>	5
1631000	10,0	89	43	10,0	<b>12,41</b>	5
1631020	10,2	89	43	10,2	<b>12,48</b>	1
1631050	10,5	89	43	10,5	<b>12,86</b>	1
1631080	10,8	95	47	10,8	<b>13,87</b>	1
1631100	11,0	95	47	11,0	<b>14,59</b>	1
1631120	11,2	95	47	11,2	<b>15,28</b>	1
1631150	11,5	95	47	11,5	<b>15,28</b>	1
1631200	12,0	102	51	12,0	<b>17,16</b>	1
1631250	12,5	102	51	12,5	<b>20,02</b>	1
1631300	13,0	102	51	13,0	<b>16,50</b>	1

## HSS SERİLERİ - HSS SERIES

VOLUME 2



haping your dreams

7



**Düz Şaftlı Matkaplar**

**Straight Shank Drills**



OSG GROUP COMPANY

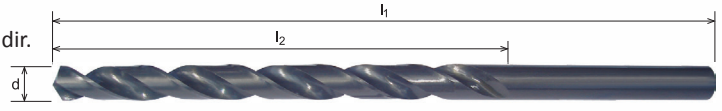
Kod Code
<b>116</b>

Özellikler Properties		
mm	DIN 340	HSS
	Tip N Type N	
	MAVI FINIŞ BLUE FINISH	

Uygulama Application
GENEL GENERAL



**Ç** **Düz Şaftlı Uzun seri Matkaplar**  
Genel amaçlı derin delik delme işlemleri içindir.  
**TU**  
**EN** **Straight Shank Long Series Drills**  
For general purpose long reach drilling.



d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
1	33	56	1160100	<b>3,96</b>
1.1	37	60	1160110	<b>3,87</b>
1.2	41	65	1160120	<b>3,87</b>
1.3	41	65	1160130	<b>3,87</b>
1.4	45	70	1160140	<b>3,87</b>
1.5	45	70	1160150	<b>3,87</b>
1.6	50	76	1160160	<b>4,16</b>
1.7	50	76	1160170	<b>4,16</b>
1.8	53	80	1160180	<b>4,25</b>
1.9	53	80	1160190	<b>4,25</b>
2	56	85	1160200	<b>4,25</b>
2.1	56	85	1160210	<b>4,25</b>
2.2	59	90	1160220	<b>4,25</b>
2.3	59	90	1160230	<b>4,25</b>
2.4	62	95	1160240	<b>4,25</b>
2.5	62	95	1160250	<b>4,25</b>
2.6	62	95	1160260	<b>4,48</b>
2.7	66	100	1160270	<b>4,48</b>
2.8	66	100	1160280	<b>4,48</b>
2.9	66	100	1160290	<b>4,46</b>
3	66	100	1160300	<b>4,46</b>
3.1	69	106	1160310	<b>5,44</b>
3.2	69	106	1160320	<b>5,44</b>
3.3	69	106	1160330	<b>5,36</b>
3.4	73	112	1160340	<b>5,44</b>
3.5	73	112	1160350	<b>5,36</b>
3.6	73	112	1160360	<b>2,79</b>
3.7	73	112	1160370	<b>2,79</b>
3.8	78	119	1160380	<b>2,79</b>
3.9	78	119	1160390	<b>2,79</b>
4	78	119	1160400	<b>2,79</b>
4.1	78	119	1160410	<b>3,47</b>
4.2	78	119	1160420	<b>3,47</b>
4.3	82	126	1160430	<b>3,63</b>
4.4	82	126	1160440	<b>3,63</b>
4.5	82	126	1160450	<b>3,54</b>
4.6	82	126	1160460	<b>5,16</b>
4.7	82	126	1160470	<b>4,22</b>
4.8	87	132	1160480	<b>4,10</b>
4.9	87	132	1160490	<b>4,22</b>
5	87	132	1160500	<b>4,10</b>
5.1	87	132	1160510	<b>5,66</b>
5.2	87	132	1160520	<b>5,53</b>
5.3	87	132	1160530	<b>5,66</b>
5.4	91	139	1160540	<b>5,66</b>
5.5	91	139	1160550	<b>5,66</b>
5.6	91	139	1160560	<b>6,18</b>

d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
5.7	91	139	1160570	<b>6,35</b>
5.8	91	139	1160580	<b>6,18</b>
5.9	91	139	1160590	<b>6,35</b>
6	91	139	1160600	<b>6,18</b>
6.1	97	148	1160610	<b>7,03</b>
6.2	97	148	1160620	<b>7,03</b>
6.3	97	148	1160630	<b>7,03</b>
6.4	97	148	1160640	<b>7,03</b>
6.5	97	148	1160650	<b>7,03</b>
6.6	97	148	1160660	<b>8,38</b>
6.7	97	148	1160670	<b>8,38</b>
6.8	102	156	1160680	<b>8,22</b>
6.9	102	156	1160690	<b>9,10</b>
7	102	156	1160700	<b>8,38</b>
7.1	102	156	1160710	<b>9,85</b>
7.2	102	156	1160720	<b>9,60</b>
7.3	102	156	1160730	<b>9,85</b>
7.4	102	156	1160740	<b>9,85</b>
7.5	102	156	1160750	<b>9,60</b>
7.6	109	165	1160760	<b>12,59</b>
7.7	109	165	1160770	<b>14,13</b>
7.8	109	165	1160780	<b>12,59</b>
7.9	109	165	1160790	<b>12,59</b>
8	109	165	1160800	<b>12,28</b>
8.2	109	165	1160820	<b>14,21</b>
8.5	109	165	1160850	<b>13,46</b>
8.8	115	175	1160880	<b>16,24</b>
9	115	175	1160900	<b>16,24</b>
9.2	115	175	1160920	<b>17,78</b>
9.5	115	175	1160950	<b>17,37</b>
9.8	121	184	1160980	<b>20,91</b>
10	121	184	1161000	<b>20,81</b>
10.2	121	184	1161020	<b>22,15</b>
10.5	121	184	1161050	<b>22,51</b>
10.8	128	195	1161080	<b>26,08</b>
11	128	195	1161100	<b>26,08</b>
11.2	128	195	1161120	<b>28,44</b>
11.5	128	195	1161150	<b>28,44</b>
11.8	128	195	1161180	<b>32,54</b>
12	134	205	1161200	<b>32,17</b>
12.2	134	205	1161220	<b>37,09</b>
12.5	134	205	1161250	<b>35,52</b>
12.8	134	205	1161280	<b>38,25</b>
13	134	205	1161300	<b>37,61</b>
14	140	214	1161400	<b>27,45</b>
15	144	220	1161500	<b>54,89</b>
16	149	227	1161600	<b>58,41</b>



Düz Şaftlı  
Matkaplar  
Straight  
Shank Drills



shaping your dreams





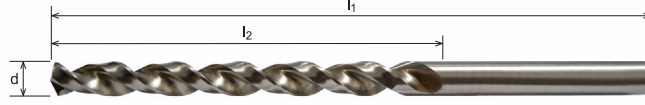
### UDL Uzun Seri Matkaplar

Hassas delikler ve verimlilik istenen CNC makine uygulamaları içindir. Derin delik delme işlemlerinde iyi performans.



### UDL Long Series Drills

Ideal for use on CNC machines where high productivity and accurate holes are required. High performance deep hole drilling.



d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
1	33	56	1100100	<b>2,53</b>
1.1	37	60	1100110	<b>2,49</b>
1.2	41	65	1100120	<b>2,71</b>
1.3	41	65	1100130	<b>2,76</b>
1.4	45	70	1100140	<b>4,12</b>
1.5	45	70	1100150	<b>4,75</b>
1.6	50	76	1100160	<b>5,30</b>
1.7	50	76	1100170	<b>5,26</b>
1.8	53	80	1100180	<b>5,17</b>
1.9	53	80	1100190	<b>5,17</b>
2	56	85	1100200	<b>5,14</b>
2.1	56	85	1100210	<b>5,14</b>
2.2	59	90	1100220	<b>5,33</b>
2.3	59	90	1100230	<b>5,33</b>
2.4	62	95	1100240	<b>5,57</b>
2.5	62	95	1100250	<b>4,74</b>
2.6	62	95	1100260	<b>4,68</b>
2.7	66	100	1100270	<b>4,88</b>
2.8	66	100	1100280	<b>4,88</b>
2.9	66	100	1100290	<b>4,84</b>
3	66	100	1100300	<b>4,72</b>
3.1	69	106	1100310	<b>5,00</b>
3.2	69	106	1100320	<b>4,92</b>
3.3	69	106	1100330	<b>4,92</b>
3.4	73	112	1100340	<b>5,57</b>
3.5	73	112	1100350	<b>5,53</b>
3.6	73	112	1100360	<b>5,49</b>
3.7	73	112	1100370	<b>5,49</b>
3.8	78	119	1100380	<b>5,67</b>
3.9	78	119	1100390	<b>5,66</b>
4	78	119	1100400	<b>5,67</b>
4.1	78	119	1100410	<b>6,25</b>
4.2	78	119	1100420	<b>6,25</b>
4.3	82	126	1100430	<b>6,84</b>
4.4	82	126	1100440	<b>6,80</b>
4.5	82	126	1100450	<b>6,80</b>
4.6	82	126	1100460	<b>7,40</b>
4.7	82	126	1100470	<b>7,16</b>
4.8	87	132	1100480	<b>7,98</b>
4.9	87	132	1100490	<b>7,89</b>
5	87	132	1100500	<b>7,36</b>
5.1	87	132	1100510	<b>7,98</b>
5.2	87	132	1100520	<b>7,89</b>
5.3	87	132	1100530	<b>7,33</b>
5.4	91	139	1100540	<b>9,68</b>
5.5	91	139	1100550	<b>9,68</b>

d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
5.6	91	139	1100560	<b>9,60</b>
5.7	91	139	1100570	<b>9,60</b>
5.8	91	139	1100580	<b>9,50</b>
5.9	91	139	1100590	<b>9,40</b>
6	91	139	1100600	<b>8,81</b>
6.1	97	148	1100610	<b>11,64</b>
6.2	97	148	1100620	<b>10,67</b>
6.3	97	148	1100630	<b>10,07</b>
6.4	97	148	1100640	<b>11,46</b>
6.5	97	148	1100650	<b>12,30</b>
6.6	97	148	1100660	<b>11,29</b>
6.7	97	148	1100670	<b>10,61</b>
6.8	102	156	1100680	<b>13,32</b>
6.9	102	156	1100690	<b>13,18</b>
7	102	156	1100700	<b>13,02</b>
7.1	102	156	1100710	<b>12,41</b>
7.2	102	156	1100720	<b>13,48</b>
7.3	102	156	1100730	<b>13,32</b>
7.4	102	156	1100740	<b>13,18</b>
7.5	102	156	1100750	<b>12,44</b>
7.6	109	165	1100760	<b>14,26</b>
7.7	109	165	1100770	<b>14,26</b>
7.8	109	165	1100780	<b>14,14</b>
7.9	109	165	1100790	<b>13,97</b>
8	109	165	1100800	<b>13,22</b>
8.1	109	165	1100810	<b>15,19</b>
8.2	109	165	1100820	<b>15,19</b>
8.3	109	165	1100830	<b>15,19</b>
8.4	109	165	1100840	<b>15,05</b>
8.5	109	165	1100850	<b>14,26</b>
8.6	115	175	1100860	<b>16,69</b>
8.7	115	175	1100870	<b>16,73</b>
8.8	115	175	1100880	<b>16,56</b>
8.9	115	175	1100890	<b>16,40</b>
9	115	175	1100900	<b>15,58</b>
9.1	115	175	1100910	<b>17,87</b>
9.2	115	175	1100920	<b>17,87</b>
9.3	115	175	1100930	<b>17,73</b>
9.4	115	175	1100940	<b>17,54</b>
9.5	115	175	1100950	<b>16,72</b>
9.6	121	184	1100960	<b>19,73</b>
9.7	121	184	1100970	<b>19,73</b>
9.8	121	184	1100980	<b>19,56</b>
9.9	121	184	1100990	<b>19,37</b>
10	121	184	1101000	<b>18,75</b>



OSG GROUP COMPANY

Kod Code
<b>110</b>

Özellikler Properties		
mm	DIN 340	HSS Co5
	Tip FS Type FS	
	PARLAK FINİŞ BRIGHT FINISH	

Uygulama Application
KARBON ÇELİKLERİ CARBON STEEL
ALASIMLI ÇELİKLER ALLOY STEEL
ALUMİNYUM ALUMINIUM
GENEL GENERAL



Düz Şaftlı Matkaplar  
Straight Shank Drills





OSG GROUP COMPANY

Kodlar Codes
<b>118</b>
<b>119</b>
<b>120</b>

Özellikler Properties		
mm	DIN 1869	HSS Co5
	Tip FS Type FS	
	PARLAK FINIŞ BRIGHT FINISH	

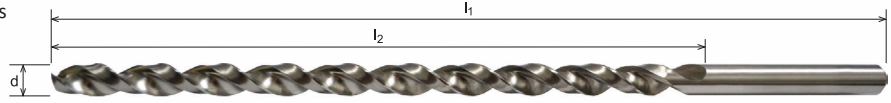
Uygulama Application
KARBON ÇELİKLERİ CARBON STEEL
ALAŞIMLI ÇELİKLER ALLOY STEEL
ALUMİNYUM ALUMINIUM
GENEL GENERAL



## UDL Ekstra Uzun Matkaplar

Hassas delikler ve verimlilik istenen CNC makine uygulamaları içindir. Derin delik delme işlemlerinde iyi performans.

**UDL Extra Length Drills**  
Ideal for use on CNC machines where high productivity and accurate holes are required. High performance extra deep hole drilling.



d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €	d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
Seri 1   Series 1									
2	85	125	1180200	<b>7,30</b>	8.5	165	240	1180850	<b>28,32</b>
2	90	135	1180201	<b>7,30</b>	9	175	250	1180900	<b>32,20</b>
2.5	95	140	1180250	<b>7,63</b>	9.5	175	250	1180950	<b>35,17</b>
3	100	150	1180300	<b>8,57</b>	10	185	265	1181000	<b>40,32</b>
3	105	155	1180301	<b>8,57</b>	*11	195	280	1181100	<b>56,00</b>
3.5	115	165	1180350	<b>8,57</b>	*11.5	195	280	1181150	<b>61,46</b>
4	120	175	1180400	<b>9,17</b>	*12	205	295	1181200	<b>61,46</b>
4.5	125	185	1180450	<b>10,51</b>	*12.5	205	295	1181250	<b>62,60</b>
5	135	195	1180500	<b>11,25</b>	*13	205	295	1181300	<b>67,03</b>
5.5	140	205	1180550	<b>13,57</b>	*13.5	220	310	1181350	<b>81,46</b>
6	140	205	1180600	<b>14,85</b>	*14	220	310	1181400	<b>82,31</b>
6.5	150	215	1180650	<b>17,20</b>	*14.5	220	310	1181450	<b>86,66</b>
7	155	225	1180700	<b>19,84</b>	*15	220	310	1181500	<b>91,67</b>
7.5	155	225	1180750	<b>21,94</b>	*15.5	230	320	1181550	<b>105,09</b>
8	165	240	1180800	<b>34,00</b>	*16	230	320	1181600	<b>106,50</b>
Seri 2   Series 2									
3	130	190	1190300	<b>10,21</b>	9.5	220	320	1190950	<b>43,24</b>
3	135	200	1190301	<b>10,21</b>	10	235	340	1191000	<b>49,87</b>
3.5	145	210	1190350	<b>10,21</b>	*10.5	235	340	1191050	<b>55,08</b>
4	150	220	1190400	<b>10,89</b>	*11	250	365	1191100	<b>66,51</b>
4.5	160	235	1190450	<b>12,51</b>	*12	260	375	1191200	<b>73,66</b>
5	170	245	1190500	<b>13,83</b>	*12.5	260	375	1191250	<b>77,24</b>
5.5	180	260	1190550	<b>16,51</b>	*13	260	375	1191300	<b>82,82</b>
6	180	260	1190600	<b>18,16</b>	*13.5	275	380	1191350	<b>90,06</b>
6.5	190	275	1190650	<b>21,37</b>	*14	275	380	1191400	<b>94,77</b>
7	200	290	1190700	<b>24,07</b>	*14.5	275	380	1191450	<b>105,68</b>
7.5	200	290	1190750	<b>26,78</b>	*15	275	380	1191500	<b>106,70</b>
8	210	305	1190800	<b>31,10</b>	*15.5	290	400	1191550	<b>126,99</b>
8.5	210	305	1190850	<b>34,41</b>	*16	290	400	1191600	<b>127,27</b>
9	220	320	1190900	<b>39,45</b>					
Seri 3   Series 3									
4	190	280	1200400	<b>13,91</b>	9	280	410	1200900	<b>47,17</b>
4.5	200	295	1200450	<b>15,93</b>	9.5	280	410	1200950	<b>51,76</b>
5	210	315	1200500	<b>16,17</b>	10	295	430	1201000	<b>62,60</b>
5.5	225	330	1200550	<b>18,65</b>	*10.5	295	430	1201050	<b>70,21</b>
6	225	330	1200600	<b>21,01</b>	*11	300	455	1201100	<b>85,08</b>
6.5	235	350	1200650	<b>25,18</b>	*11.5	300	455	1201150	<b>93,14</b>
7	250	370	1200700	<b>28,55</b>	*12	300	480	1201200	<b>93,86</b>
7.5	250	370	1200750	<b>31,68</b>	*12.5	300	480	1201250	<b>98,01</b>
8	265	390	1200800	<b>39,22</b>	*13	300	480	1201300	<b>103,69</b>
8.5	265	390	1200850	<b>41,03</b>					

\* Çalışma Standardı  
Works Standard



Düz Şaftlı  
Matkaplar  
Straight  
Shank Drills



shaping your dreams

10

HSS SERİLERİ - HSS SERIES

VOLUME 2

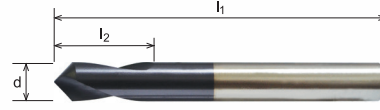


### NC Matkap

Delik merkezlemeleri için. CNC makinelere uygun ,NC matkap alternatifi.

### NC Spotting Drills

For accurate positioning of holes. Ideal for CNC lathes. Alternative to using Centre drills.



OSG GROUP COMPANY

d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
<b>90° Tepe Açısı   90° Point Angle</b>				
3	10	46	1840300	<b>6,35</b>
4	12	55	1840400	<b>8,08</b>
5	14	62	1840500	<b>9,50</b>
6	16	66	1840600	<b>12,48</b>
8	21	79	1840800	<b>15,13</b>
10	25	89	1841000	<b>19,11</b>
12	30	102	1841200	<b>29,25</b>
16	38	115	1841600	<b>45,79</b>
20	45	131	1842000	<b>76,49</b>

d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
<b>120° Tepe Açısı   120° Point Angle</b>				
3	10	46	1850300	<b>6,35</b>
4	12	55	1850400	<b>8,08</b>
5	14	62	1850500	<b>9,50</b>
6	16	66	1850600	<b>12,48</b>
8	21	79	1850800	<b>15,13</b>
10	25	89	1851000	<b>19,11</b>
12	30	102	1851200	<b>29,25</b>
16	38	115	1851600	<b>45,79</b>
20	45	131	1852000	<b>76,49</b>

Kodlar Codes
<b>184, 185</b>

Özellikler Properties		
mm	DIN 1897	HSS Co5
TiAIN		

Uygulama Application
GENEL GENERAL

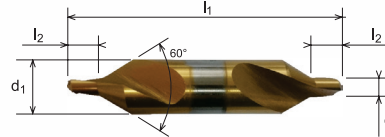


### Punta Matkapları-Form A

Tin Kaplı punta matkapları Form A.

### Centre Drills - Form A

For general centering operations on workpieces requiring additional machining between centres.



d	d <sub>1</sub>	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
0.8	3.15	1.1	25	1140080T	<b>6,78</b>
1	3.15	1.3	31.5	1140100T	<b>6,36</b>
(1.25)	3.15	1.6	31.5	1140125T	<b>6,45</b>
1.6	4	2	35.5	1140160T	<b>6,90</b>
2	5	2.5	40	1140200T	<b>8,05</b>
2.5	6.3	3.1	45	1140250T	<b>9,96</b>
3.15	8	3.9	50	1140315T	<b>13,67</b>
4	10	5	56	1140400T	<b>17,09</b>
(5)	12.5	6.3	63	1140500T	<b>21,43</b>
6.3	16	8	71	1140630T	<b>25,07</b>
(8)	20	10.1	80	1140800T	<b>46,04</b>
10	25	12.8	100	1141000T	<b>60,13</b>

Kod Code
<b>114</b>

Özellikler Properties		
mm	DIN 333	HSS
	TIN	

Uygulama Application
GENEL GENERAL

(j) Önerilmeyen Çaplar , Mümkün olduğunca kaçınılmalıdır. Non-recommended sizes, and should be avoided whenever possible.



Düz Şaftlı Matkaplar  
Straight Shank Drills





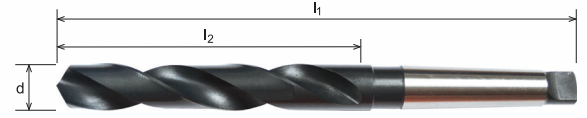
OSG GROUP COMPANY

Kodlar Codes
<b>2X1 - 2X4</b>

Özellikler Properties		
mm	DIN 345	HSS
Type N Tip N		
	30°	1-4
PARLAK FİNİŞ ŞANK VE TEPE BRIGHT FINISH SHANK AND POINT		

Uygulama Application
GENEL GENERAL

**X-Ratio Morse Konik Matkaplar**  
Genel Delme İşlemleri İçin.  
**X-Ratio Morse Taper Shank Drills**  
For general purpose drilling.



d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €	d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
<b>No1 Mors Konik Matkaplar   No. 1 Morse Taper Shank</b>									
6	57	138	2X10600	<b>14,26</b>	10.5	87	168	2X11050	<b>14,26</b>
6.5	63	144	2X10650	<b>14,26</b>	11	94	175	2X11100	<b>14,88</b>
7	69	150	2X10700	<b>14,26</b>	11.5	94	175	2X11150	<b>15,21</b>
7.5	69	150	2X10750	<b>14,26</b>	12	101	182	2X11200	<b>15,52</b>
8	75	156	2X10800	<b>14,26</b>	12.5	101	182	2X11250	<b>15,85</b>
8.5	75	156	2X10850	<b>13,81</b>	13	101	182	2X11300	<b>16,26</b>
9	81	162	2X10900	<b>12,57</b>	13.5	108	189	2X11350	<b>18,50</b>
9.5	81	162	2X10950	<b>16,98</b>	14	108	189	2X11400	<b>20,78</b>
10	87	168	2X11000	<b>14,24</b>					
<b>No2 Mors Konik Matkaplar   No. 2 Morse Taper Shank</b>									
(14)	114	212	2X21400	<b>20,78</b>	19	135	233	2X21900	<b>35,41</b>
14.5	114	212	2X21450	<b>23,89</b>	19.5	140	238	2X21950	<b>25,27</b>
15	114	212	2X21500	<b>24,22</b>	20	140	238	2X22000	<b>37,86</b>
15.5	120	218	2X21550	<b>26,31</b>	20.5	145	243	2X22050	<b>41,62</b>
16	120	218	2X21600	<b>27,20</b>	21	145	243	2X22100	<b>42,19</b>
16.5	125	223	2X21650	<b>27,98</b>	21.5	150	248	2X22150	<b>46,79</b>
17	125	223	2X21700	<b>28,77</b>	22	150	248	2X22200	<b>47,74</b>
17.5	130	228	2X21750	<b>29,53</b>	22.5	155	253	2X22250	<b>52,33</b>
18	130	228	2X21800	<b>30,97</b>	23	155	253	2X22300	<b>52,88</b>
18.5	135	233	2X21850	<b>32,96</b>					
<b>No3 Mors Konik Matkaplar   No. 3 Morse Taper Shank</b>									
23.5	155	276	2X32350	<b>53,48</b>	28.5	175	296	2X32850	<b>92,81</b>
24	160	281	2X32400	<b>58,61</b>	29	175	296	2X32900	<b>96,21</b>
24.5	160	281	2X32450	<b>62,45</b>	29.5	175	296	2X32950	<b>100,07</b>
25	160	281	2X32500	<b>64,93</b>	30	175	296	2X33000	<b>103,52</b>
25.5	165	286	2X32550	<b>73,15</b>	30.5	180	301	2X33050	<b>106,57</b>
26	165	286	2X32600	<b>76,39</b>	31	180	301	2X33100	<b>111,33</b>
26.5	165	286	2X32650	<b>79,24</b>	31.5	180	301	2X33150	<b>114,78</b>
27	170	291	2X32700	<b>83,84</b>	(32)	185	306	2X33200	<b>119,15</b>
27.5	170	291	2X32750	<b>86,70</b>					
28	170	291	2X32800	<b>89,38</b>					
<b>No4 Mors Konik Matkaplar   No. 4 Morse Taper Shank</b>									
32	185	334	2X43200	<b>119,15</b>					



Mors Konik  
Şaftlı Matkaplar  
Morse Taper  
Shank Drills



shaping your dreams



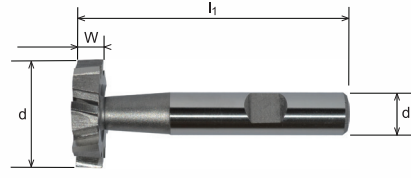
### T Frezeler

T Freze anahtarlarına uyum sağlamak üzere yatak oluşturmak için.



### Woodruff Cutters

To produce a seat to suit woodruff keys.



OSG GROUP COMPANY

d	W	l <sub>1</sub>	d <sub>1</sub>	Z (Diş Sayısı) Z Teeth	Kod Code	Fiyat Price €
10.5	2	50	6	8	3741050	<b>43,20</b>
10.5	2.5	50	6	8	3741051	<b>43,20</b>
10.5	3	50	6	8	3741052	<b>43,20</b>
13.5	3	56	10	8	3741350	<b>42,45</b>
13.5	4	56	10	8	3741351	<b>42,45</b>
16.5	3	56	10	8	3741650	<b>46,58</b>
16.5	4	56	10	8	3741651	<b>46,58</b>
16.5	5	56	10	8	3741652	<b>46,58</b>
19.5	4	63	10	8	3741950	<b>52,95</b>
19.5	5	63	10	8	3741951	<b>53,61</b>
19.5	6	63	10	8	3741952	<b>54,55</b>

d	W	l <sub>1</sub>	d <sub>1</sub>	Z (Diş Sayısı) Z Teeth	Kod Code	Fiyat Price €
22.5	5	63	10	8	3742250	<b>57,69</b>
22.5	6	63	10	8	3742251	<b>57,69</b>
22.5	8	63	10	8	3742252	<b>58,95</b>
25.5	6	63	12	8	3742550	<b>73,44</b>
28.5	6	63	12	8	3742850	<b>81,88</b>
28.5	8	63	12	8	3742851	<b>84,63</b>
28.5	10	71	12	8	3742852	<b>86,95</b>
32.5	8	71	12	8	3743250	<b>108,66</b>
32.5	10	71	12	8	3743251	<b>108,01</b>
45.5	10	71	12	12	3744550	<b>184,10</b>

Kod Code
<b>374</b>

Özellikler Properties
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mm	DIN 850	HSS Co5
	Z 8 - 12	



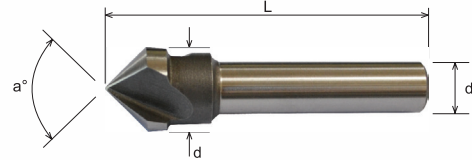
### Paralel Şaftlı Havşa Frezeleri

Havşabaşlı vidalara havşa açmak için , ayrıca çapak almada kullanılır.



### Parallel Shank Countersinks

To produce a countersink suitable for countersunk head screws, also used as a deburring tool.



d	d <sub>1</sub>	a° = 60°			a° = 90°		
		L	Kod Code	Fiyat Price €	L	Kod Code	Fiyat Price €
6.3	5	45	7610630	<b>21,99</b>	45	7630630	<b>23,30</b>
8	6	50	7610800	<b>23,23</b>	50	7630800	<b>25,37</b>
10	6	50	7611000	<b>27,99</b>	50	7631000	<b>25,82</b>
12.5	8	56	7611250	<b>32,57</b>	56	7631250	<b>31,06</b>
16	10	63	7611600	<b>49,92</b>	60	7631600	<b>48,67</b>
20	10	67	7612000	<b>60,49</b>	63	7632000	<b>61,21</b>
25	10	71	7612500	<b>84,48</b>	67	7632500	<b>83,79</b>

Kodlar Codes
<b>761, 763</b>

Özellikler Properties
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mm	DIN 334C 761	DIN 335C 763
HSS Co5		

Uygulama Application
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GENEL GENERAL
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Şank Takımlar  
Shank Cutters





Raybalar , Havşa Frezeleri ve  
Kontür baralama Takımları  
Reamers,  
Countersinks  
& Counterbores








OSG GROUP COMPANY

Kod Code
<b>701</b>


Özellikler Properties		
mm	BS 328 ISO 236/1 DIN 206	HSS
H7		

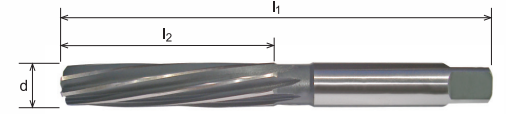
Uygulama Application
GENEL GENERAL

Kod Code
<b>741</b>

Özellikler Properties		
mm	DIN 208	HSS Co5
	H7	
		



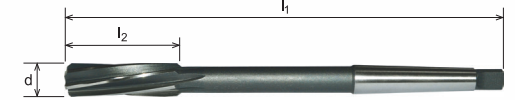
 **Silindirik Saplı El Raybası**  
Genel el raybası  
 **Parallel Hand Reamers**  
General hand reaming.



d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
1.5	20	41	7010150	<b>9,41</b>
2	25	50	7010200	<b>9,75</b>
2.5	29	58	7010250	<b>9,87</b>
3	31	62	7010300	<b>10,80</b>
3.5	35	71	7010350	<b>10,25</b>
4	38	76	7010400	<b>10,67</b>
4.5	41	81	7010450	<b>14,01</b>
5	44	87	7010500	<b>16,40</b>
5.5	47	93	7010550	<b>17,33</b>
6	47	93	7010600	<b>18,06</b>
6.5	50	100	7010650	<b>19,42</b>
7	54	107	7010700	<b>23,12</b>
7.5	54	107	7010750	<b>24,01</b>
8	58	115	7010800	<b>24,87</b>
8.5	58	115	7010850	<b>25,55</b>
9	62	124	7010900	<b>26,54</b>
9.5	62	124	7010950	<b>28,50</b>
10	66	133	7011000	<b>28,59</b>
10.5	66	133	7011050	<b>29,27</b>
11	71	142	7011100	<b>41,15</b>
11.5	71	142	7011150	<b>50,87</b>
12	76	152	7011200	<b>31,71</b>
12.5	76	152	7011250	<b>44,44</b>
13	76	152	7011300	<b>34,21</b>
13.5	81	163	7011350	<b>51,89</b>
14	81	163	7011400	<b>40,78</b>

d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
14.5	81	163	7011450	<b>53,84</b>
15	81	163	7011500	<b>43,10</b>
15.5	87	175	7011550	<b>59,69</b>
16	87	175	7011600	<b>48,39</b>
17	87	175	7011700	<b>49,48</b>
18	93	188	7011800	<b>52,56</b>
19	93	188	7011900	<b>56,08</b>
20	100	201	7012000	<b>60,31</b>
21	100	201	7012100	<b>63,90</b>
22	107	215	7012200	<b>72,98</b>
23	107	215	7012300	<b>76,46</b>
24	115	231	7012400	<b>107,37</b>
25	115	231	7012500	<b>89,47</b>
26	115	231	7012600	<b>126,89</b>
27	124	247	7012700	<b>108,67</b>
28	124	247	7012800	<b>113,35</b>
29	124	247	7012900	<b>147,17</b>
30	124	247	7013000	<b>125,75</b>
31	133	265	7013100	<b>163,50</b>
32	133	265	7013200	<b>141,41</b>
33	133	265	7013300	<b>188,12</b>
34	133	265	7013400	<b>165,05</b>
35	133	284	7013500	<b>171,66</b>
36	142	284	7013600	<b>218,48</b>
37	142	284	7013700	<b>193,94</b>
38	142	284	7013800	<b>232,42</b>

 **Mors Konik Saplı Makine Raybası**  
Genel makine Raybası.  
 **MTS Machine Chucking Reamers**  
General machine reaming.



d	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
No1 Mors Konik Matkaplar   No. 1 Morse Taper Shank				
6	26	138	7410600	<b>40,34</b>
8	33	156	7410800	<b>44,05</b>
10	38	168	7411000	<b>36,58</b>
12	44	182	7411200	<b>41,00</b>
14	47	189	7411400	<b>44,77</b>
No2 Mors Konik Matkaplar   No. 2 Morse Taper Shank				
15	50	204	7411500	<b>43,65</b>
16	52	210	7411600	<b>52,46</b>
18	56	219	7411800	<b>58,03</b>
20	60	228	7412000	<b>66,18</b>
21	62	232	7412100	<b>73,37</b>
22	64	237	7412200	<b>87,80</b>
No3 Mors Konik Matkaplar   No. 3 Morse Taper Shank				
24	68	268	7412400	<b>92,71</b>
25	68	268	7412500	<b>92,71</b>
26	70	273	7412600	<b>93,76</b>
28	71	277	7412800	<b>112,88</b>
30	73	281	7413000	<b>126,25</b>
No4 Mors Konik Matkaplar   No. 4 Morse Taper Shank				
32	77	317	7413200	<b>148,64</b>

## HSS SERİLERİ - HSS SERIES

VOLUME 2

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shaping your dreams



## Düz Şaftlı Makine Raybaları

Genel makine Raybası.

Parallel Shank Machine Chucking Reamers

General machine reaming.



d	d <sub>1</sub>	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
2	2	11	49	7510200	<b>17,64</b>
2.4	2.4	14	57	7510240	<b>21,68</b>
2.5	2.5	14	57	7510250	<b>17,64</b>
2.6	2.6	14	57	7510260	<b>20,70</b>
2.7	2.7	15	61	7510270	<b>20,70</b>
2.8	2.8	15	61	7510280	<b>20,70</b>
3	3	15	61	7510300	<b>16,86</b>
3.1	3.1	16	65	7510310	<b>20,79</b>
3.2	3.2	16	65	7510320	<b>17,63</b>
3.4	3.4	18	70	7510340	<b>20,92</b>
3.5	3.5	18	70	7510350	<b>17,41</b>
3.6	3.6	18	70	7510360	<b>25,07</b>
3.8	4	19	75	7510380	<b>24,96</b>
4	4	19	75	7510400	<b>19,56</b>
4.1	4	19	75	7510410	<b>24,23</b>
4.2	4	19	75	7510420	<b>22,17</b>
4.3	4.5	21	80	7510430	<b>26,68</b>
4.4	4.5	21	80	7510440	<b>26,68</b>
4.5	4.5	21	80	7510450	<b>20,92</b>
4.8	5	23	86	7510480	<b>27,30</b>
4.9	5	23	86	7510490	<b>27,30</b>
5	5	23	86	7510500	<b>21,92</b>
5.1	5	23	86	7510510	<b>26,96</b>
5.2	5	23	86	7510520	<b>26,96</b>
5.3	5	23	86	7510530	<b>21,92</b>
5.4	5.6	26	93	7510540	<b>27,57</b>
5.5	5.6	26	93	7510550	<b>22,84</b>
5.6	5.6	26	93	7510560	<b>28,22</b>
5.7	5.6	26	93	7510570	<b>28,22</b>
5.8	5.6	26	93	7510580	<b>28,58</b>
6	5.6	26	93	7510600	<b>23,18</b>
6.1	6.3	28	101	7510610	<b>28,58</b>
6.2	6.3	28	101	7510620	<b>28,58</b>
6.3	6.3	28	101	7510630	<b>28,58</b>
6.4	6.3	28	101	7510640	<b>28,84</b>
6.5	6.3	28	101	7510650	<b>29,20</b>
6.6	6.3	28	101	7510660	<b>29,20</b>
6.7	6.3	28	101	7510670	<b>23,82</b>
6.8	7.1	31	109	7510680	<b>30,65</b>
7	7.1	31	109	7510700	<b>25,26</b>
7.1	7.1	31	109	7510710	<b>29,94</b>
7.2	7.1	31	109	7510720	<b>29,94</b>
7.3	7.1	31	109	7510730	<b>30,39</b>
7.5	7.1	31	109	7510750	<b>25,08</b>
7.8	8	33	117	7510780	<b>30,65</b>
7.9	8	33	117	7510790	<b>30,65</b>
8	8	33	117	7510800	<b>25,16</b>
8.1	8	33	117	7510810	<b>31,71</b>
8.2	8	33	117	7510820	<b>31,36</b>

d	d <sub>1</sub>	l <sub>2</sub>	l <sub>1</sub>	Kod Code	Fiyat Price €
8.3	8	33	117	7510830	<b>31,36</b>
8.4	8	33	117	7510840	<b>31,00</b>
8.5	8	33	117	7510850	<b>25,86</b>
8.6	9	36	125	7510860	<b>33,32</b>
8.8	9	36	125	7510880	<b>32,96</b>
8.9	9	36	125	7510890	<b>32,59</b>
9	9	36	125	7510900	<b>27,11</b>
9.1	9	36	125	7510910	<b>37,55</b>
9.5	9	36	125	7510950	<b>29,98</b>
9.6	10	38	133	7510960	<b>38,13</b>
9.7	10	38	133	7510970	<b>37,75</b>
9.8	10	38	133	7510980	<b>37,75</b>
9.9	10	38	133	7510990	<b>37,39</b>
10	10	38	133	7511000	<b>30,98</b>
10.1	10	38	133	7511010	<b>38,17</b>
10.2	10	38	133	7511020	<b>37,80</b>
10.3	10	38	133	7511030	<b>37,80</b>
10.5	10	38	133	7511050	<b>32,42</b>
10.6	10	38	133	7511060	<b>41,61</b>
10.7	10	41	142	7511070	<b>42,70</b>
10.8	10	41	142	7511080	<b>42,70</b>
10.9	10	41	142	7511090	<b>42,70</b>
11	10	41	142	7511100	<b>38,25</b>
11.1	10	41	142	7511110	<b>43,23</b>
11.5	10	41	142	7511150	<b>42,88</b>
11.7	10	41	142	7511170	<b>42,57</b>
11.8	10	41	142	7511180	<b>36,72</b>
11.9	10	44	151	7511190	<b>45,05</b>
12	10	44	151	7511200	<b>43,34</b>
12.1	10	44	151	7511210	<b>45,61</b>
12.2	10	44	151	7511220	<b>45,21</b>
12.3	10	44	151	7511230	<b>45,21</b>
12.4	10	44	151	7511240	<b>45,21</b>
12.5	10	44	151	7511250	<b>46,47</b>
12.6	10	44	151	7511260	<b>47,22</b>
12.7	10	44	151	7511270	<b>47,22</b>
12.8	10	44	151	7511280	<b>46,80</b>
12.9	10	44	151	7511290	<b>47,25</b>
13	10	44	151	7511300	<b>50,31</b>
13.5	12.5	47	160	7511350	<b>48,48</b>
14	12.5	47	160	7511400	<b>52,65</b>
14.5	12.5	50	162	7511450	<b>54,27</b>
15	12.5	50	162	7511500	<b>53,79</b>
15.5	12.5	52	170	7511550	<b>56,86</b>
16	12.5	52	170	7511600	<b>56,14</b>
17	14	54	175	7511700	<b>62,40</b>
18	14	56	182	7511800	<b>68,64</b>
20	16	60	195	7512000	<b>76,44</b>



OSG GROUP COMPANY

Kod Code		
<b>751</b>		
Özellikler Properties		
mm	DIN 212	HSS Co5
H7	10°	RH
Uygulama Application		
GENEL GENERAL		



Raybalar ,  
Havşa Frezeleri  
ve Kontür baralama  
Takımları

Reamers,  
Countersinks  
& Counterbores

## HSS SERİLERİ - HSS SERIES

VOLUME 2

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shaping your dreams

# OSG

*shaping your dreams*

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OSG GROUP COMPANY

Türkiye Tek Yetkili Dağıtıcısı



## EUROTOOL

EUROTOOL

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