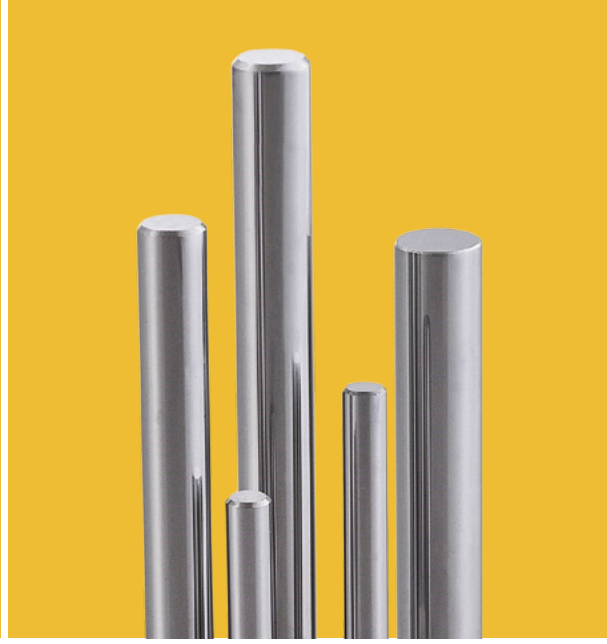
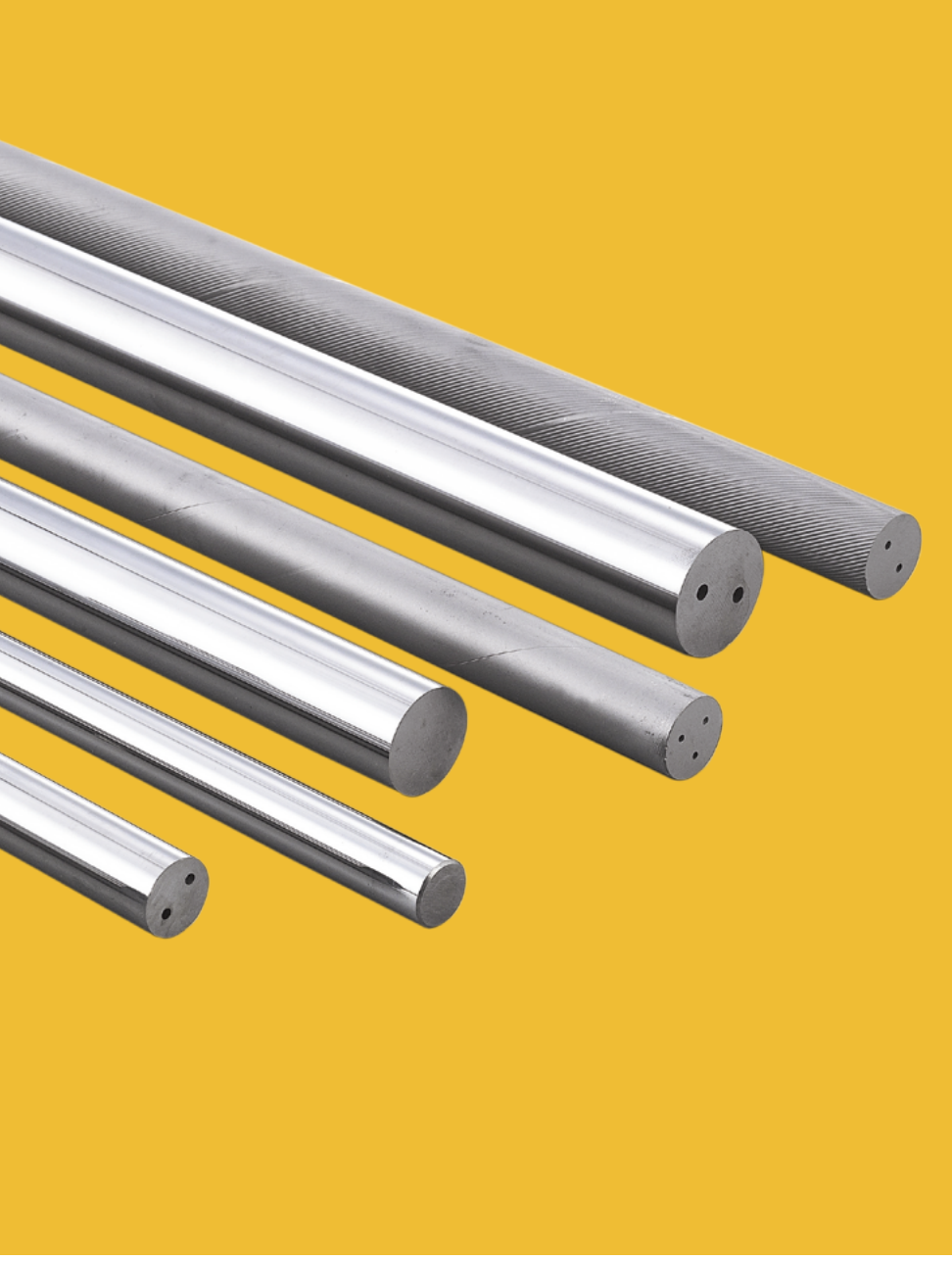




TUNGSTEN KARBÜR ÇUBUKLAR

TUNGSTEN
CARBIDE RODS

2025 | CATALOG

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 **EUROLOY**
CARBIDE TOOLS

KALİTE BİLGİSİ

GRADE INFORMATION

Grade	Co (%)	HRA	Intensity (g/cm ³)	TRS (N/mm ²)	Grain Size (μm)	Application Area
KH60U	6	93.8	14.8	3900	Superince Ultrafine	PCB matkapları, freze bıçakları ve gravür kamler dahil olmak üzere yüksek sertlikte malzeme işlemeye uygulanabilir. Applicable to the high hardness material processing, including PCB drills, milling cutters and gravers.
KH060S	6	92.5	14.85	3000	Submicron	Elyaf takviyeli malzeme(karbon elyafı ve cam elyafı), kompozit malzeme, yüksek silikonlu alüminyum alaşımı ve grafit ürünleri için uygun elmas kaplama için en iyi malzeme. The best material for diamond coating, suitable for fiber reinforced material (carbon fiber and glass fiber), composite material, high-silicon aluminum alloy and graphite products.
KH103S	10.3	92.2	14.43	3800	Superince Ultrafine	Alaşımlı çelik, paslanmaz çelik, dökme demir, demir dışı metal, süper alaşım vb. için geçerli olan yüksek hızlı frezeleme ve delmenin genel kullanımı için.. For general use of high-speed milling and drilling, applicable to alloy steel, stainless steel, cast iron non-ferrous metal, super alloy etc.
KH102S	10	91.8	14.45	3700	Submicron	Alaşımlı çelik, paslanmaz çelik, demir dışı metal, süper alaşım vb. için geçerli olan frezeleme ve delme işlemlerinin genel kullanımı için. For general use of milling and drilling, applicable to alloy steel, stainless steel, non-ferrous metal, super alloy etc.
KH100S	10	91.8	14.45	3700	Submicron	Alaşımlı çelik, paslanmaz çelik, demir dışı metal, süper alaşım vb. için geçerli ekonomik frezeleme ve delmenin genel kullanımı için.. For general use of economic milling and drilling, applicable to alloy steel, stainless steel, non-ferrous metal, super alloy etc.
KH120U	12.0	92.6	14.12	4200	Superince Ultrafine	Alaşımlı çelik(HRC50-60), paslanmaz çelik, demir dışı metal, titanyum alaşımı, süper alaşım vb. için geçerli olan yüksek hızlı frezelemenin özel karbür malzemesi.. Special carbide material of high-speed milling, applicable to alloy steel (HRC50-60), stainless steel, non-ferrous metal, titanium alloy, super alloy etc.
KH100SR	10.0	91.8	14.45	3700	Submicron	Alaşımlı çelik, demir dışı metal vb. için geçerli frezeleme için ekonomik kalite.. Economic grade for milling, applicable to alloy steel, non-ferrous metal etc.
KH090U	9.0	93.0	14.50	3900	Superince Ultrafine	Sertlik ve işlenmesi zor malzemelerin işlenmesi, paslanmaz işleme ve mikro kesici için geçerlidir. Applicable to processing the hardness and difficult-to-machine materials, stainless machining and micro cutter.

Nano < 0.2 μm	Ultra Fine 0.2 - 0.5 μm	Submicron 0.5 - 0.9 μm	Fine 1.0 - 1.3 μm	Medium 1.4 - 2.0 μm	Medium Coarse 2.1 - 3.4 μm	Coarse 3.5 - 5.0 μm	Extra Coarse > 5.0 μm

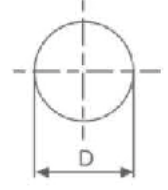
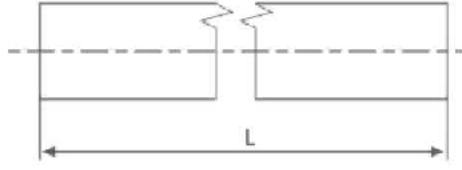


DOLU ÇUBUKLAR
SOLID RODS



DOLU ÇUBUKLAR

SOLID RODS



Metrik Tip
Metric Type

ØD(mm)			L(mm) (0,+5)
Taşlanmamış Unground	Tolerans Tolerance	Taşlanmış Ground h6/h5	
1,3	+0/+0.15	1. 0	310/330
2,3	+0/+0.15	2. 0	310/330
3,3	+0/+0.15	3. 0	310/330
3,8	+0/+0.20	3. 5	310/330
4,3	+0/+0.20	4. 0	310/330
4,8	+0/+0.20	4. 5	310/330
5,3	+0/+0.20	5. 0	310/330
5,8	+0/+0.20	5. 5	310/330
6,3	+0/+0.20	6. 0	310/330
6,8	+0/+0.30	6. 5	310/330
7,3	+0/+0.30	7. 0	310/330
7,8	+0/+0.30	7. 5	310/330
8,3	+0/+0.30	8. 0	310/330
8,8	+0/+0.30	8. 5	310/330
9,3	+0/+0.30	9. 0	310/330
9,8	+0/+0.30	9. 5	310/330
10,3	+0/+0.30	10. 0	310/330
10,8	+0/+0.30	10. 5	310/330
11,3	+0/+0.30	11. 0	310/330
11,8	+0/+0.30	11. 5	310/330
12,3	+0/+0.30	12. 0	310/330
12,8	+0/+0.40	12. 5	310/330
13,3	+0/+0.40	13. 0	310/330
13,8	+0/+0.40	13. 5	310/330
14,3	+0/+0.40	14. 0	310/330
14,8	+0/+0.40	14. 5	310/330
15,3	+0/+0.40	15. 0	310/330
15,8	+0/+0.40	15. 5	310/330
16,3	+0/+0.40	16. 0	310/330

Metrik Tip
Metric Type

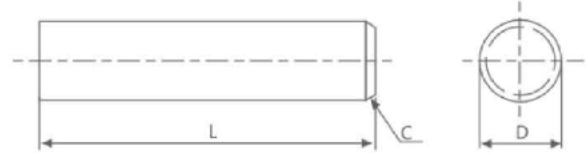
ØD(mm)			L(mm) (0,+5)
Taşlanmamış Unground	Tolerans Tolerance	Taşlanmış Ground h6/h5	
16,8	+0/+0.50	16. 5	310/330
17,3	+0/+0.50	17. 0	310/330
17,8	+0/+0.50	17. 5	310/330
18,3	+0/+0.50	18. 0	310/330
18,8	+0/+0.50	18. 5	310/330
19,3	+0/+0.50	19. 0	310/330
20,3	+0/+0.50	20. 0	310/330
21,3	+0/+0.50	21. 0	310/330
22,3	+0/+0.50	22. 0	310/330
23,3	+0/+0.50	23. 0	310/330
24,3	+0/+0.50	24. 0	310/330
25,3	+0/+0.50	25. 0	310/330
26,3	+0/+0.50	26. 0	310/330
27,3	+0/+0.50	27. 0	310/330
28,3	+0/+0.50	28. 0	310/330
29,3	+0/+0.50	29. 0	310/330
30,3	+0/+0.50	30,0	310/330
31,3	+0/+0.50	31,0	310/330
32,3	+0/+0.50	32,0	310/330
33,3	+0/+0.50	33,0	310/330
34,3	+0/+0.50	34,0	310/330
35,3	+0/+0.50	35,0	310/330
36,3	+0/+0.50	36,0	310/330
37,3	+0/+0.50	37,0	310/330
38,3	+0/+0.50	38,0	310/330
39,3	+0/+0.50	39,0	310/330
40,3	+0/+0.50	40. 0	310/330
45,3	+0.20/+0.70	45. 0	310/330
50,3	+0.20/+0.70	50. 0	310/330

İnç Tip
Inch Type

ØD(inch)	Taşlanmamış Tolerans Unground Tol.	Taşlanmış Tolerans Ground Tol.	L(inch) (0,+0.197)
1/8	+0.0118/+0.01	h6/h5	13
3/16	+0.0118/+0.01	h6/h5	13
1/4	+0.0118/+0.02	h6/h5	13
5/16	+0.0118/+0.02	h6/h5	13
3/8	+0.0118/+0.02	h6/h5	13
1/2	+0.0118/+0.02	h6/h5	13
5/8	+0.0118/+0.02	h6/h5	13
3/4	+0.0118/+0.03	h6/h5	13
1	+0.0118/+0.03	h6/h5	13
1-1/4	+0.0118/+0.03	h6/h5	13
1-1/2	+0.0118/+0.03	h6/h5	13

BOYU KESİLMİŞ DOLU ÇUBUKLAR

SOLID RODS CUT TO LENGTH



Metrik Tip
Metric Type

ØD(mm)	Taşlanmamış Unground	Tolerans Tolerance	Taşlanmış Ground	C(mm) (±0.1;45°±3°)	L(mm) (0,+1)
			h6/h5		
3,3		+0/+0.15	3	0,4	50
3,3		+0/+0.15	3	0,4	70
3,3		+0/+0.15	3	0,4	100
4,3		-0.10/+0.10	4	0,4	50
4,3		-0.10/+0.10	4	0,4	70
4,3		-0.10/+0.10	4	0,4	100
5,3		-0.10/+0.10	5	0,5	50
5,3		-0.10/+0.10	5	0,5	70
5,3		-0.10/+0.10	5	0,5	80
6,3		-0.10/+0.10	6	0,6	50
6,3		-0.10/+0.10	6	0,6	60
6,3		-0.10/+0.10	6	0,6	100
8,3		-0.05/+0.20	8	0,6	60
8,3		-0.05/+0.20	8	0,6	80
8,3		-0.05/+0.20	8	0,6	100
10,3		-0.05/+0.20	10	0,8	70
10,3		-0.05/+0.20	10	0,8	90

Metrik Tip
Metric Type

ØD(mm)	Taşlanmamış Unground	Tolerans Tolerance	Taşlanmış Ground	C(mm) (±0.1;45°±3°)	L(mm) (0,+1)
			h6/h5		
10,3		-0.05/+0.20	10	0,8	100
11,3		-0.05/+0.25	11	0,8	110
12,3		-0.05/+0.25	12	0,8	75
12,3		-0.05/+0.25	12	0,8	90
12,3		-0.05/+0.25	12	0,8	100
12,3		-0.05/+0.25	12	0,8	120
14,3		+0/+0.40	14	0,8	75
14,3		+0/+0.40	14	0,8	110
14,3		+0/+0.40	14	0,8	125
16,3		+0/+0.40	16	0,8	100
16,3		+0/+0.40	16	0,8	125
18,3		+0/+0.50	18	1,0	100
18,3		+0/+0.50	18	1,0	150
20,3		+0/+0.50	20	1,0	100
20,3		+0/+0.50	20	1,0	120
20,3		+0/+0.50	20	1,0	150
25,3		+0/+0.50	25	1,0	100
25,3		+0/+0.50	25	1,0	150

İnç Tip
Inch Type

ØD(inch)	Taşlanmamış Tolerans Unground tol.	Taşlanmış Tolerans Ground tol.	C(inch) ±0.004;45°±3°	L(inch) (0,+0.003)
1/8	+0.0118/+0.0177	h6/h5	0,012	2-1/4
1/8	+0.0118/+0.0177	h6/h5	0,012	2-1/2
1/8	+0.0118/+0.0177	h6/h5	0,012	2
1/8	+0.0118/+0.0177	h6/h5	0,012	1-1/2
1/8	+0.0118/+0.0177	h6/h5	0,012	3
1/8	+0.0118/+0.0177	h6/h5	0,012	4
3/16	+0.0078/+0.0157	h6/h5	0,016	1-1/2
3/16	+0.0078/+0.0157	h6/h5	0,016	2
3/16	+0.0078/+0.0157	h6/h5	0,016	2-1/2
3/16	+0.0078/+0.0157	h6/h5	0,016	3
3/16	+0.0078/+0.0157	h6/h5	0,016	4
3/16	+0.0078/+0.0157	h6/h5	0,016	6
1/4	+0.0098/+0.0196	h6/h5	0,024	2
1/4	+0.0098/+0.0196	h6/h5	0,024	2-1/2
1/4	+0.0098/+0.0196	h6/h5	0,024	3
1/4	+0.0098/+0.0196	h6/h5	0,024	3-1/4
1/4	+0.0098/+0.0196	h6/h5	0,024	4
1/4	+0.0098/+0.0196	h6/h5	0,024	6
5/16	+0.0098/+0.0196	h6/h5	0,024	2
5/16	+0.0098/+0.0196	h6/h5	0,024	2-1/2
5/16	+0.0098/+0.0196	h6/h5	0,024	3
5/16	+0.0098/+0.0196	h6/h5	0,024	3-1/2
5/16	+0.0098/+0.0196	h6/h5	0,024	4
5/16	+0.0098/+0.0196	h6/h5	0,024	6
3/8	+0.0098/+0.0196	h6/h5	0,024	2
3/8	+0.0098/+0.0196	h6/h5	0,024	2-1/2
3/8	+0.0098/+0.0196	h6/h5	0,024	3
3/8	+0.0098/+0.0196	h6/h5	0,024	3-1/2
3/8	+0.0098/+0.0196	h6/h5	0,024	4

İnç Tip
Inch Type

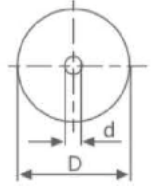
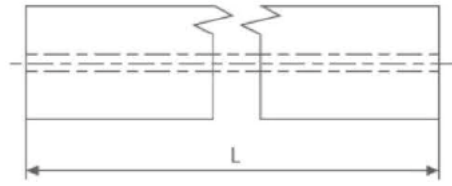
ØD(inch)	Taşlanmamış Tolerans Unground tol.	Taşlanmış Tolerans Ground tol.	C(inch) ±0.004;45°±3°	L(inch) (0,+0.003)
3/8	+0.0098/+0.0196	h6/h5	0,024	5
3/8	+0.0098/+0.0196	h6/h5	0,024	6
1/2	+0.0118/+0.0275	h6/h5	0,031	2-1/2
1/2	+0.0118/+0.0275	h6/h5	0,031	3
1/2	+0.0118/+0.0275	h6/h5	0,031	3-1/2
1/2	+0.0118/+0.0275	h6/h5	0,031	4
1/2	+0.0118/+0.0275	h6/h5	0,031	4-1/2
1/2	+0.0118/+0.0275	h6/h5	0,031	5
1/2	+0.0118/+0.0275	h6/h5	0,031	6
1/2	+0.0118/+0.0275	h6/h5	0,031	8
5/8	+0.0118/+0.0275	h6/h5	0,031	3
5/8	+0.0118/+0.0275	h6/h5	0,031	3-1/2
5/8	+0.0118/+0.0275	h6/h5	0,031	4
5/8	+0.0118/+0.0275	h6/h5	0,031	5
5/8	+0.0118/+0.0275	h6/h5	0,031	6
5/8	+0.0118/+0.0275	h6/h5	0,031	8
3/4	+0.0118/+0.0314	h6/h5	0,039	4
3/4	+0.0118/+0.0314	h6/h5	0,039	5
3/4	+0.0118/+0.0314	h6/h5	0,039	6
3/4	+0.0118/+0.0314	h6/h5	0,039	8
1	+0.0118/+0.0314	h6/h5	0,039	3
1	+0.0118/+0.0314	h6/h5	0,039	4
1	+0.0118/+0.0314	h6/h5	0,039	5
1	+0.0118/+0.0314	h6/h5	0,039	6

 MERKEZİ SOĞUTMA DELİKLİ ÇUBUKLAR
RODS WITH CENTRAL COOLANT HOLE



MERKEZİ SOĞUTMA DELİKLİ ÇUBUKLAR

RODS WITH CENTRAL COOLANT HOLE

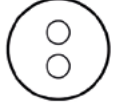


Metrik Tip
Metric Type

ØD(mm)			Ød(mm)		Delik Sapması Hole Deviation	L(inch) (0,+5)
Taşlanmamış Unground	Tolerans Tolerance	Taşlanmış Ground h6/h5	Çap Diameter	Tolerans Tolerance		
4.3	+0/+0.2	4	0.6	±0.1	0.07	330
5.3	+0/+0.2	5	1.0	±0.1	0.07	330
6.3	+0/+0.2	6	1.0	±0.1	0.07	330
8.3	+0/+0.3	8	1.2	±0.15	0.07	330
10.3	+0/+0.3	10	2.0	±0.2	0.10	330
12.3	+0/+0.3	12	2.0	±0.2	0.10	330
14.3	+0/+0.4	14	2.0	±0.2	0.12	330
16.3	+0/+0.4	16	2.0	±0.2	0.12	330
18.3	+0/+0.5	18	3.0	±0.25	0.15	330
20.3	+0/+0.5	20	3.0	±0.25	0.15	330
22.3	+0/+0.5	22	3.0	±0.25	0.15	330
24.3	+0/+0.5	24	4.0	±0.25	0.15	330
26.3	+0/+0.5	26	4.0	±0.25	0.15	330
28.3	+0/+0.5	28	4.0	±0.25	0.15	330
30.3	+0/+0.5	30	5.0	±0.25	0.15	330
32.3	+0/+0.5	32	5.0	±0.25	0.15	330

İnç Tip
Inch Type

ØD(inch)	Taşlanmamış Tolerans Unground Tol.	Taşlanmış Ground	Ød(inch)		Hole Deviation Delik Sapması	L(inch) (0,+0.197)
			Çap Diameter	Tolerans Tolerance		
1/4	+0.0118/+0.0236	h6/h5	3/77	±0.0039	0.0027	13
9/32	+0.0118/+0.0236	h6/h5	3/77	±0.0039	0.0027	13
5/16	+0.0118/+0.0236	h6/h5	4/85	±0.0059	0.0027	13
25/64	+0.0118/+0.0236	h6/h5	1/16	±0.0059	0.0039	13
13/32	+0.0118/+0.0236	h6/h5	1/16	±0.0059	0.0039	13
277/64	+0.0118/+0.0236	h6/h5	1/16	±0.0059	0.0039	13
31/64	+0.0118/+0.0275	h6/h5	3/38	±0.0098	0.0047	13
1/2	+0.0118/+0.0275	h6/h5	3/38	±0.0098	0.0047	13
9/16	+0.0118/+0.0275	h6/h5	5/51	±0.0098	0.0047	13
5/8	+0.0118/+0.0275	h6/h5	2/17	±0.0098	0.0047	13
3/4	+0.0118/+0.0314	h6/h5	2/17	±0.0098	0.0059	13
13/16	+0.0118/+0.0314	h6/h5	2/17	±0.0098	0.0059	13



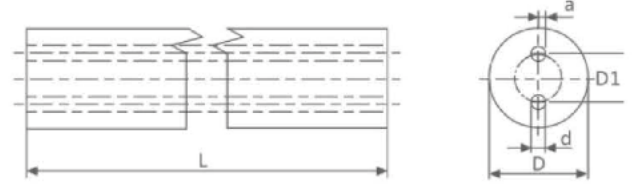
İKİ DÜZ SOĞUTMA DELİKLİ ÇUBUKLAR

RODS WITH TWO STRAIGHT COOLANT HOLES



İKİ DÜZ SOĞUTMA DELİKLİ ÇUBUKLAR

RODS WITH TWO STRAIGHT COOLANT HOLES

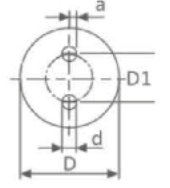
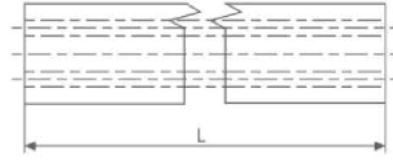


Metrik Tip
Metric Type

ØD(mm)			Ød(mm)		TkØ(mm)		Delik Sapması Hole Deviation	L(inch) (0,+5)
Taşlanmamış Unground	Tolerans Tolerance	Taşlanmış Ground h6/h5	Çap Diameter	Tolerans Tolerance	İki Delik Merkezinin Uzaklığı Bolt Core	Tolerans Tolerance		
6,3	+0/+0.2	6	0.8	±0,10	1.5	+0/-0.2	0.15	330
6,3	+0/+0.2	6	0.8	±0,10	3.0	+0/-0.2	0.15	330
7,3	+0/+0.3	7	1.0	±0,10	3,40	+0/-0.2	0.15	330
8,3	+0/+0.3	8	1.0	±0,10	2.60	+0/-0.2	0.15	330
9,3	+0/+0.3	9	1.0	±0,10	2,45	+0/-0.2	0.20	330
10,3	+0/+0.3	10	1.0	±0,15	2,60	+0/-0.3	0.20	330
10,3	+0/+0.3	10	1.4	±0,15	5,00	+0/-0.3	0.20	330
11,3	+0/+0.3	11	1.4	±0,15	4,85	+0/-0.3	0.30	330
12,3	+0/+0.3	12	1.2	±0,20	3,50	+0/-0.3	0.30	330
12,3	+0/+0.3	12	1.2	±0,20	3,60	+0/-0.3	0.30	330
12,3	+0/+0.3	12	1.2	±0,20	6,00	+0/-0.3	0.30	330
12,3	+0/+0.3	12	1,75	±0,20	3,50	+0/-0.3	0.30	330
13,3	+0/+0.4	13	1,8	±0,20	5,85	+0/-0.3	0.34	330
14,3	+0/+0.4	14	1.5	±0,20	5,00	+0/-0.3	0.37	330
14,3	+0/+0.4	14	1,75	±0,20	7,00	+0/-0.3	0.37	330
15,3	+0/+0.4	15	2.0	±0,20	6,85	+0/-0.3	0.40	330
16,3	+0/+0.4	16	1.5	±0,20	5,00	+0/-0.3	0.45	330
16,3	+0/+0.4	16	2.0	±0,20	8,00	+0/-0.3	0.45	330
17,3	+0/+0.5	17	2.0	±0,20	7,85	+0/-0.3	0.47	330
18,3	+0/+0.5	18	2.0	±0,20	6,20	+0/-0.3	0.50	330
18,3	+0/+0.5	18	2.0	±0,20	9,00	+0/-0.3	0.50	330
19,3	+0/+0.5	19	2.0	±0,20	8,85	+0/-0.3	0.50	330
20,3	+0/+0.5	20	2.0	±0,25	6,20	+0/-0.3	0.50	330
20,3	+0/+0.5	20	2.5	±0,25	10,00	+0/-0.3	0.50	330
20,3	+0/+0.5	20	2.5	±0,25	10,00	+0/-0.3	0.50	330
21,3	+0/+0.5	21	2.5	±0,25	9,80	+0/-0.3	0.50	330
22,3	+0/+0.5	22	2.5	±0,25	10,8	+0/-0.4	0.50	330
22,3	+0/+0.5	22	2.5	±0,25	11,00	+0/-0.4	0.50	330
23,3	+0/+0.5	23	2.5	±0,25	10,8	+0/-0.4	0.50	330
24,3	+0/+0.5	24	3.0	±0,25	11,75	+0/-0.4	0.50	330
25,3	+0/+0.5	25	3.0	±0,25	11,75	+0/-0.4	0.50	330
25,3	+0/+0.5	25	3.0	±0,25	11,70	+0/-0.4	0.50	330
25,3	+0/+0.5	25	3.0	±0,25	12,00	+0/-0.4	0.50	330
26,3	+0/+0.5	26	3.0	±0,25	13,00	+0/-0.5	0.50	330
28,3	+0/+0.5	28	2.5	±0,25	9,00	+0/-0.5	0.50	330
28,3	+0/+0.5	28	3.0	±0,25	14,00	+0/-0.5	0.50	330
28,3	+0/+0.5	28	3.0	±0,25	13,75	+0/-0.5	0.50	330
30,3	+0/+0.5	30	3.0	±0,25	14,00	+0/-0.5	0.50	330
30,3	+0/+0.5	30	3.0	±0,25	13,00	+0/-0.5	0.50	330
32,3	+0/+0.5	32	3.0	±0,25	14,00	+0/-0.5	0.50	330
32,3	+0/+0.5	32	3.0	±0,25	13,80	+0/-0.5	0.50	330
22.0	+0/+0.4	22	2.5	±0,25	11,00	+0/+0.4	0.50	330
25.0	+0/+0.5	25	3.0	±0,25	12,00	+0/+0.5	0.50	330
28.0	+0/+0.4	28	2.0	±0,20	6,40	+0/+0.4	0.50	330
30.0	+0/+0.5	30	3.0	±0,25	13,2	+0/+0.5	0.50	330
32.0	+0/+0.5	32	3.0	±0,25	14,00	+0/+0.5	0.50	330

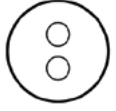
İKİ DÜZ SOĞUTMA DELİKLİ ÇUBUKLAR

RODS WITH TWO STRAIGHT COOLANT HOLES



Inç Tip
Inch Type

ØD(inch)	Taşlanmamış Tolerans Unground Tol.	Taşlanmış Ground	Ød(inch)		Hole Deviation Delik Sapması	L(inch) (0,+0.197)
			Çap Diameter	Tolerans Tolerance		
1/4	+0.0118/+0.0236	h6/h5	3/77	±0.0039	0.0027	13
9/32	+0.0118/+0.0236	h6/h5	3/77	±0.0039	0.0027	13
5/16	+0.0118/+0.0236	h6/h5	4/85	±0.0059	0.0027	13
25/64	+0.0118/+0.0236	h6/h5	1/16	±0.0059	0.0039	13
13/32	+0.0118/+0.0236	h6/h5	1/16	±0.0059	0.0039	13
277/64	+0.0118/+0.0236	h6/h5	1/16	±0.0059	0.0039	13
31/64	+0.0118/+0.0275	h6/h5	3/38	±0.0098	0.0047	13
1/2	+0.0118/+0.0275	h6/h5	3/38	±0.0098	0.0047	13
9/16	+0.0118/+0.0275	h6/h5	5/51	±0.0098	0.0047	13
5/8	+0.0118/+0.0275	h6/h5	2/17	±0.0098	0.0047	13
3/4	+0.0118/+0.0314	h6/h5	2/17	±0.0098	0.0059	13
13/16	+0.0118/+0.0314	h6/h5	2/17	±0.0098	0.0059	13

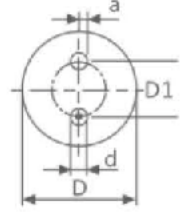
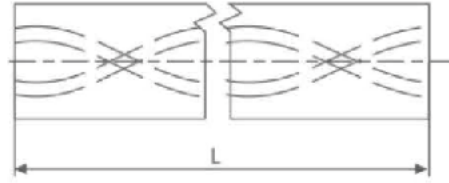


İKİ SPIRAL SOĞUTMA DELİKLİ ÇUBUKLAR 30°
RODS WITH 2 SPIRAL COOLANT HOLES 30°



İKİ SPIRAL SOĞUTMA DELİKLİ ÇUBUKLAR (30°)

RODS WITH TWO SPIRAL COOLANT HOLES(30°)



Metrik Tip
Metric Type

ØD(mm)			Ød(mm)		TkØ(mm)		Eğim Pitch (±0.5°)	Delik Sapması Hole Deviation	L(mm) (0,+5°)
Taşlanmamış Unground	Tolerans Tolerance	Taşlanmış Ground h6/h5	Çap Diameter	Tolerans Tolerance	İki Delik Merkezinin Uzaklığı Bolt Core	Tolerans Tolerance			
6,0	+0.7/+1.1	6,0	0,70	±0,10	2,40	+0/-0.4	32,65	0,15	330
6,0	+0.7/+1.1	6,0	0,70	±0,10	2,60	+0/-0.4	32,65	0,15	330
8,0	+0.8/+1.2	8,0	1,00	±0,15	3,80	+0/-0.4	43,53	0,15	330
8,0	+0.8/+1.2	8,0	1,00	±0,15	4,00	+0/-0.4	43,53	0,15	330
10,0	+0.8/+1.2	10,0	1,40	±0,15	4,50	+0/-0.6	54,41	0,20	330
10,0	+0.8/+1.2	10,0	1,40	±0,15	4,80	+0/-0.6	54,41	0,20	330
10,0	+0.8/+1.2	10,0	1,40	±0,15	4,00	+0/-0.6	54,41	0,20	330
12,0	+0.9/+1.3	12,0	1,40	±0,15	5,85	+0/-0.8	65,30	0,30	330
12,0	+0.9/+1.3	12,0	1,40	±0,15	6,25	+0/-0.8	65,30	0,30	330
14,0	+0.9/+1.3	14,0	1,75	±0,20	6,70	+0/-0.8	76,18	0,40	330
14,0	+0.9/+1.3	14,0	1,75	±0,20	7,10	+0/-0.8	76,18	0,40	330
15,0	+0.9/+1.3	15,0	1,75	±0,20	7,70	+0/-0.8	81,62	0,40	330
16,0	+1.0/+1.4	16,0	1,75	±0,20	8,30	+0/-0.8	87,06	0,40	330
18,0	+1.0/+1.4	18,0	2,00	±0,25	9,25	+0/-0.8	97,95	0,50	330
18,0	+1.0/+1.4	18,0	2,00	±0,25	9,55	+0/-0.8	97,95	0,50	330
18,0	+1.0/+1.4	18,0	2,0	±0,25	8,50	+0/-0.8	97,95	0,50	330
20,0	+1.0/+1.4	20,0	2,00	±0,25	10,40	+0/-1,0	108,83	0,50	330
22,0	+1.0/+1.5	22,0	2,00	±0,25	11,10	+0/-1,0	119,71	0,50	330
22,0	+1.0/+1.5	22,0	2,00	±0,25	11,60	+0/-1,0	119,71	0,50	330
25,0	+1.1/+1.6	25,0	2,00	±0,25	12,80	+0/-1,0	136,03	0,50	330
25,0	+1.1/+1.6	25,0	2,00	±0,25	13,30	+0/-1,0	136,03	0,50	330

DİKDÖRTGEN LAMALAR
CARBIDE STRIPS



DİKDÖRTGEN LAMALAR

RECTANGULAR STRIPS



a(mm)	b(mm) (+0.15,+0.35)	L(mm) (0,+5)
3 +0.2/+0.4	2	330
4 +0.2/+0.4	3	330
5 +0.2/+0.4	2	330
5 +0.2/+0.4	3.5	330
5.5 +0.2/+0.4	1	330
6 +0.2/+0.4	3	330
8 +0.2/+0.4	2	330
8 +0.2/+0.4	3	330
10 +0.3/+0.5	2	330
10 +0.3/+0.5	2.5	330
10 +0.3/+0.5	3	330
10 +0.3/+0.5	3.5	330
12 +0.3/+0.5	2	330
12 +0.3/+0.5	2.5	330
12 +0.3/+0.5	3	330
12 +0.3/+0.5	3.5	330
12 +0.3/+0.5	4.5	330
12 +0.3/+0.5	5	330
14 +0.3/+0.5	3	330

a(mm)	b(mm) (+0.15,+0.35)	L(mm) (0,+5)
15 +0.4/+0.6	2	330
15 +0.4/+0.6	3.5	330
15 +0.4/+0.6	4	330
16 +0.4/+0.6	3	330
17 +0.4/+0.6	3	330
17 +0.4/+0.6	5	330
18 +0.4/+0.6	2	330
18 +0.4/+0.6	3.5	330
20 +0.4/+0.6	2	330
20 +0.4/+0.6	3	330
20 +0.4/+0.6	3.5	330
20 +0.4/+0.6	5	330
22 +0.4/+0.6	3.5	330
22 +0.4/+0.6	4	330
25 +0.4/+0.6	3.5	330
25 +0.4/+0.6	4	330
30 +0.4/+0.6	5	330
32 +0.4/+0.6	3	330
34 +0.4/+0.6	3	330

DİĞER TEKNİK STANDARTLAR

OTHER TECHNICAL STANDARDS

Çap Toleransı h6/h5(mm) Diameter Tolerance h6/h5(mm)

Diameter Ø	h6	h5
0<Ø≤3	+0/-0.006	+0/-0.004
3<Ø≤6	+0/-0.008	+0/-0.005
6<Ø≤10	+0/-0.009	+0/-0.006
10<Ø≤18	+0/-0.011	+0/-0.008
18<Ø≤30	+0/-0.013	+0/-0.009
30<Ø≤40	+0/-0.016	+0/-0.0011

Taşlanmamış Çubukların Doğrusallık Toleransları (mm) Unground Rods Straightness Tolerances (mm)

Diameter Ø	Tolerans / Tolerance
Ø≤6	0.60
Ø<6	0.50

Taşlanmış Çubukların Doğrusallık Toleransları (mm) Ground Rods Straightness Tolerances (mm)

L Dia Ø	0<L≤60	60<L≤80	80<L≤100	100<L≤120	120<L≤150	150<L≤200	200<L≤330
2≤Ø<4	0.005	0.008	0.012	0.020			
4≤Ø<6	0.005		0.008	0.012	0.020		
6≤Ø<8	0.005			0.008	0.015	0.020	
8≤Ø<10	0.005				0.008	0.015	
10≤Ø<16	0.005				0.008		0.015
16≤Ø<20	0.005					0.008	0.015
20≤Ø<40	0.005						0.008

Taşlanmış Çubukların Doğrusallık Toleransları (mm) Ground Rods Straightness Tolerances (mm)

L Dia Ø	0<L≤60	60<L≤80	80<L≤100	100<L≤120	120<L≤150	150<L≤200	200<L≤330
2≤Ø<40	0.003						



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