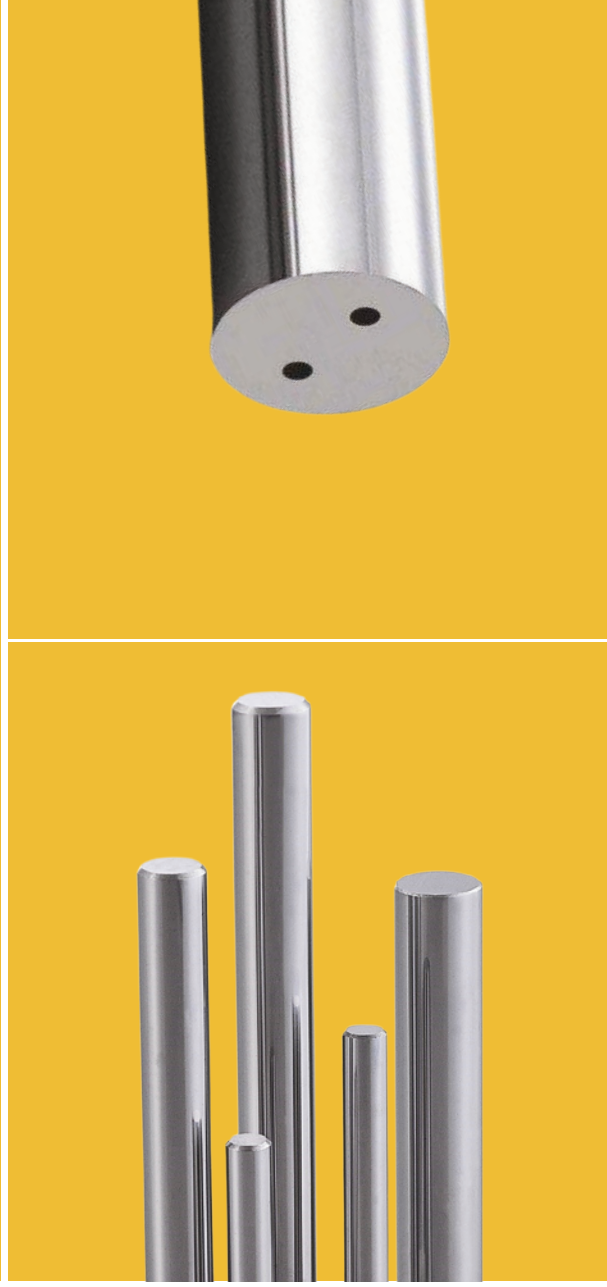
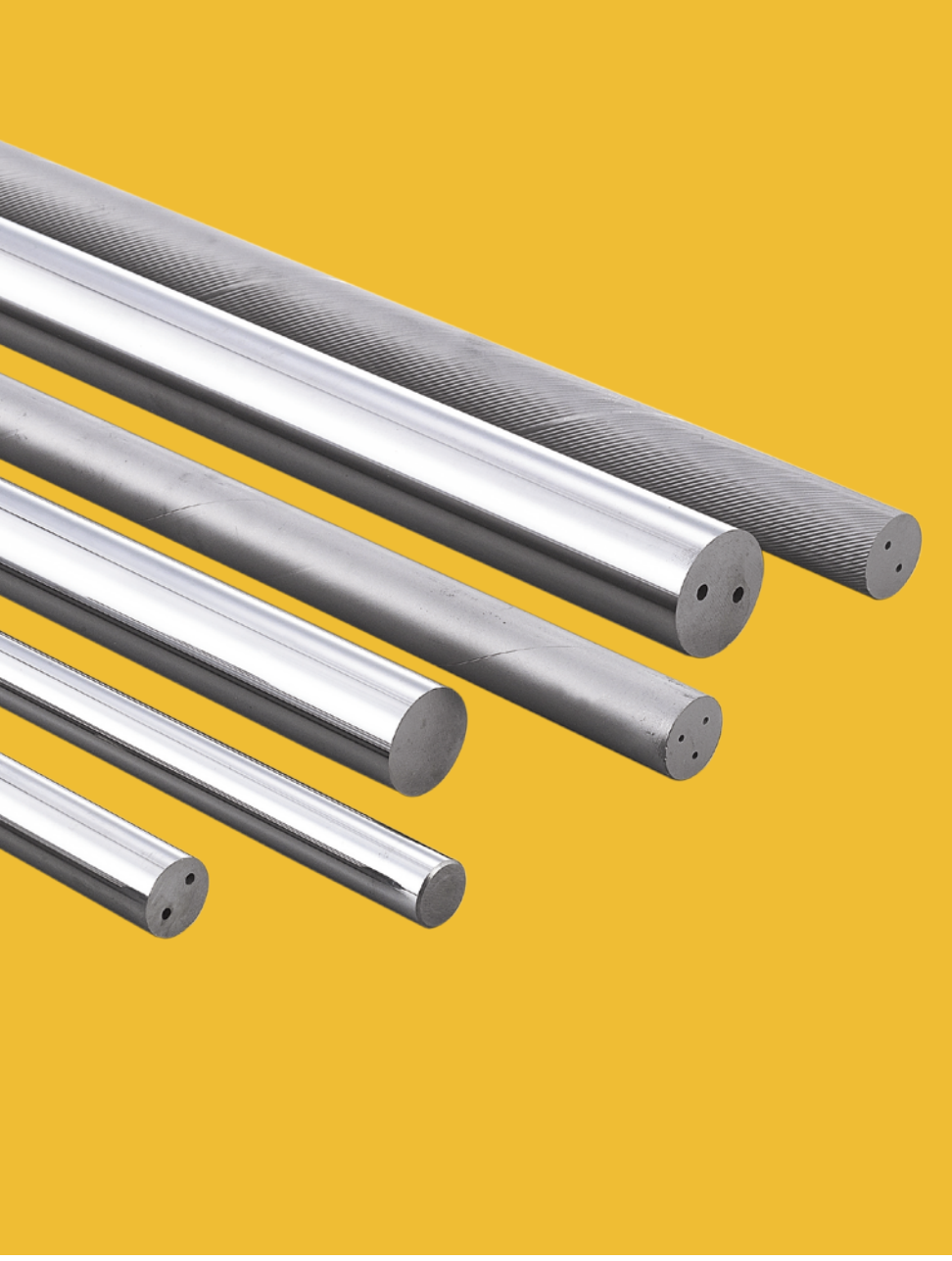




TUNGSTEN KARBÜR ÇUBUKLAR

TUNGSTEN
CARBIDE RODS

2026 | CATALOG

www.euroloy.com

 **EUROLOY**
CARBIDE TOOLS

ÜRÜN KAPASİTESİ / *PRODUCTION CAPACITY*



Euroloy, yüksek kaliteli tungsten karbür çubukların güvenilir tedarikçisidir. Taşlanmış ve taşlanmamış karbür çubuklar, freze ucu taslakları, kalıp malzemeleri ve aşınmaya dayanıklı parçalar dâhil olmak üzere tüm Euroloy ürünleri; standart ve özel ölçülerde, modern üretim tesislerinde ve deneyimli teknik ekibin gözetiminde üretilmektedir.

Yıllık 2.500 ton üretim kapasitesine sahip Euroloy, dünya genelindeki müşterilerine istikrarlı kalite, esnek üretim ve güvenilir tedarik çözümleri sunmaktadır.

Euroloy is a reliable supplier of high-quality tungsten carbide rods. All Euroloy products including ground and unground carbide rods, burr blanks, mold materials, and wear-resistant parts in both standard and customized dimensions are produced at modern production facilities under the supervision of an experienced technical team.

With an annual production capacity of 2,500 MT, Euroloy provides stable quality, flexible production, and reliable supply solutions for global customers.

Mevcut Kapasite / *Current Capacity*

Toplam Kapasite : 2,500Ton/Yıl
Total Capacity: 2,500MT/Year

Taşlanmış Karbür Çubuklar: 100 Ton/Ay
(Ground Rods: 100 MT/Month)

Karbür Çubuklar: 150 Ton/Ay
Rods: 150 MT/Month

Kalıp Malzemeleri: 10 Ton/Ay
Mold Materials: 10 MT/Month

Freze Ucu Taslakları: 50 Ton/Ay
Burr Blanks: 50MT/Month

Aşınmaya Dayanıklı Parçalar: 10 Ton/Ay
Wear - Resistant Parts: 10 MT/Month

Üretim Ekipmanları / *Production Equipment*

● Bilyalı Öğütme Makineleri: 50 adet (Makine başına 400-500 kg/parti)
Ball Milling Machines: 50 Sets (400-500kgs/batch per machine)

● Sprey Kurutma Kuleleri: 5 adet
Spay Tower: 5 Sets

● Ekstrüzyon Makineleri: 8 adet
Extrusion Machines: 8 Sets

● Pres Makineleri: 46 adet
Pressing Machines: 46 Sets

● Hassas İşleme Makineleri: 52 adet
Precision Machines: 52 Sets

● HIP Sinterleme Makineleri: 15 adet
HIP Sintering Machines: 15 Sets

Kalite ve İzlenebilirlik / *Quality & Traceability*

Euroloy, üretim süreçlerini ISO kalite yönetim standartlarına uygun olarak yürütmektedir. Hammaddeden nihai ürüne kadar tüm aşamalar, tutarlı ve izlenebilir kaliteyi güvence altına almak amacıyla titizlikle kontrol edilmektedir.

Euroloy, her sevkiyatla birlikte Malzeme Raporları ve Ölçüm Raporları sunarak ürün bileşimi, ölçüleri ve kalite standartlarına uygunluğu konusunda tam şeffaflık sağlamaktadır.

Euroloy carries out its production processes in accordance with ISO quality management standards. Every stage, from raw material to final product, is carefully controlled to ensure consistent and traceable quality.

Together with each shipment, Euroloy provides Material Reports and Size Reports, ensuring full transparency regarding product composition, dimensions, and quality compliance.



SÜRDÜRÜLEBİLİRLİK / *SUSTAINABILITY*

Euroloy, çevreye duyarlı ve sürdürülebilir üretim anlayışını benimsemektedir. Etkin kaynak yönetimi, enerji tasarrufu sağlayan uygulamalar ve sürekli iyileştirme çalışmaları sayesinde Euroloy, yüksek üretim standartlarını korurken çevresel etkisini azaltmayı hedeflemektedir.

Euroloy is committed to environmentally responsible and sustainable production. Through efficient resource management, energy-saving practices, and continuous improvement, Euroloy aims to reduce its environmental impact while maintaining high production standards.

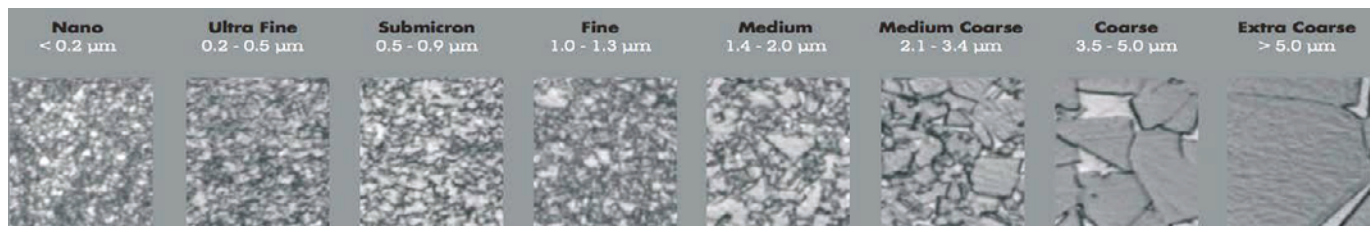


Yeşil Enerji
Green Energy

Çevre Koruma ve Arıtma Merkezi
Environmental Protection
Treatment Center

KARBÜR ÇUBUK KALİTELERİ / CARBIDE ROD GRADES

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.

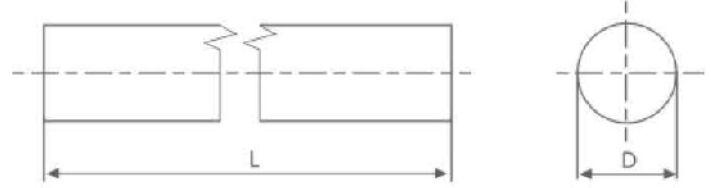




DOLU ÇUBUKLAR
SOLID RODS



DOLU ÇUBUKLAR / SOLID RODS



Metrik Tip / Metric Type

Taşlanmamış Unground	ØD (mm)		L (mm) (0,+5)
	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

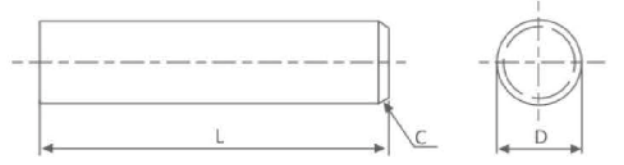
Metrik Tip / Metric Type

Taşlanmamış Unground	ØD (mm)		L (mm) (0,+5)
	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

Taşlanmamış Unground	ØD (mm) Tolerans Tolerance	Taşlanmış Ground h6/h5	C (mm) (±0.1;45°±3°)	L (mm) (0,+1)
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

Taşlanmamış Unground	ØD (mm) Tolerans Tolerance	Taşlanmış Ground h6/h5	C (mm) (±0.1;45°±3°)	L (mm) (0,+1)
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

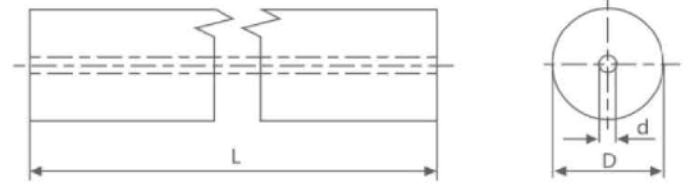
İnç Tip / Inch Type

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

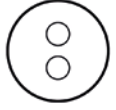


Metrik Tip / Metric Type

Taşlanmamış Unground	ØD (mm)		Çap Diameter	Tolerans Tolerance	Delik Sapması Hole Deviation	L (inch) (0,+5)
	Tolerans Tolerance	Taşlanmış Ground h6/h5				
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)		Delik Sapması Hole Deviation	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

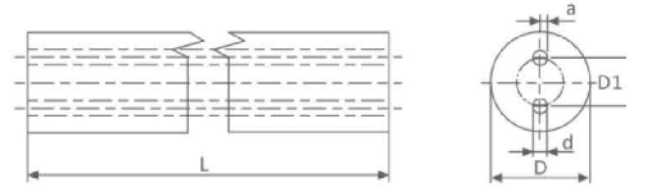


İKİ DÜZ SOĞUTMA DELİKLİ ÇUBUKLAR

RODS WITH TWO STRAIGHT COOLANT HOLES



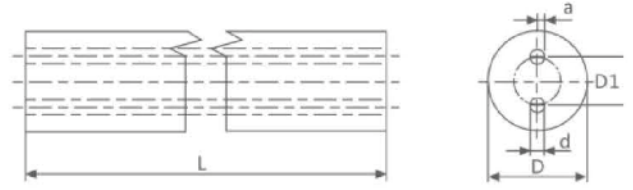
İKİ DÜZ SOĞUTMA DELİKLİ ÇUBUKLAR / RODS WITH TWO STRAIGHT COOLANT HOLES



Metrik Tip / Metric Type

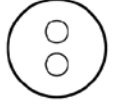
ØD(mm)			Ød(mm)		TkØ(mm)		Delik Sapması Hole Deviation	L(inch) (0,+5)
Taşlanmamış Unground	Tolerans Tolerance	Taşlanmış Ground h6/h5	Çap Diameter	Tolerans Tolerance	İki Delik Merkezinin Uzaklığı Bolt Core	Tolerans Tolerance		
6,3	+0/+0.2	6	0.8	±0,10	1.5	+0/-0.2	0.15	330
6,3	+0/+0.2	6	0.8	±0,10	3.0	+0/-0.2	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



İnç Tip / Inch Type

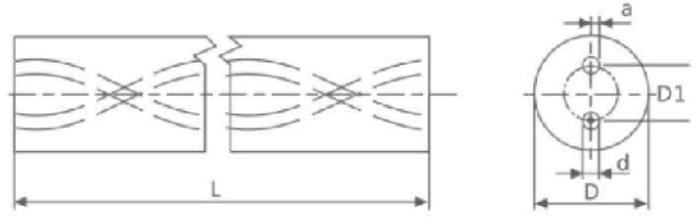
ØD(inch)	Taşlanmamış Tolerans <i>Unground Tol.</i>	Taşlanmış <i>Ground</i>	Ød(inch)		Delik Sapması Hole Deviation	L(inch) (0,+0.197)
			Çap Diameter	Tolerans Tolerance		
1/4	+0.0118/+0.0236	h6/h5	3/77	±0.0039	0.0027	13
9/32	+0.0118/+0.0236	h6/h5	3/77	±0.0039	0.0027	13
5/16	+0.0118/+0.0236	h6/h5	4/85	±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°)



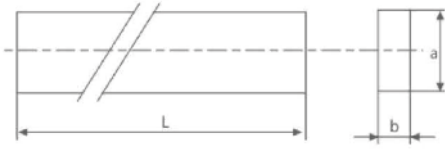
Metrik Tip / Metric Type

Taşlanmamış İş Unground	ØD (mm)		Ød (mm)		TkØ (mm)		Eğim Pitch (±0.5°)	Delik Sapması Hole Deviation	L (mm) (0,+5°)
	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	2,00	±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 STANDARTS

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/-0.011

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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