

#perçin : hızlı, sağlam ve ekonomik birleştirme



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**Standart
Kör Perçin**
sayfa 1-4



- Güçlü ve Ekonomik Birleştirme
- Birçok Uygulama İçin Uygun
- Farklı Malzeme Seçenekleri
- **Bombe Kafa, Havşa Kafa, Geniş Kafa Seçenekleri**
- Farklı Renklerde Üretim İmkânı

Alüminyum / Çelik (NKS, LKS, HKS)
Alüminyum / Paslanmaz Çelik (APX)
Çelik / Çelik (ST)
Paslanmaz Çelik / Paslanmaz Çelik (PX)

**Multigrip
Perçin**
sayfa 5-6



- Optimum Birleştirme Kuvveti
- Geniş Sıkma Aralığı; Farklı Kalınlıklardaki Malzemeleri Sıkma
- Büyük ve Düzensiz Deliklerde Perçinleme İşlemine Uyumlu
- Titreşim ve Nem Direnci

Alüminyum / Çelik (ASMG, ASMG-LF)
Çelik / Çelik (SSMG)

**Sızdırmaz
Perçin**
sayfa 6



- Arkası Kapalı Tasarım
- Perçinleme İşleminde Sonra Buhar ve Sıvı Geçişini Engeller

Alüminyum / Çelik (SAS)

**Ahtapot
Perçin**
sayfa 7



- Perçinlenen Malzemenin Arka Yüzünde Geniş Bir Tutunma Alanı Sağlar; Yumuşak Malzemelerin Perçinlenmesini Kolaylaştırır

Alüminyum / Çelik (PR, LPR)

**Bulb
Perçin**
sayfa 8



- Plastik Gibi Yumuşak ve Kırılgan Malzemelerde Mükemmel Birleştirme Sağlar
- Büyük Delikler ve Geniş Sıkma Aralıklarında Perçinleme İmkânı Sağlar

Alüminyum / Çelik (BL)

**Macrolok
Perçin**
sayfa 8



- Yüksek Kuvvetli Birleştirme
- Geniş Malzeme Sıkma Aralığı
- Kilitlenen Çivi Kafası Sayesinde Titreşime Mukavemet

Çelik / Çelik (CLK)

**Microlok
Perçin**
sayfa 8



- Yüksek Kuvvetli Birleştirme
- Kilitlenen Çivi Kafası Sayesinde Titreşime Mukavemet
- Düzensiz Deliklerde Perçinlemeye Uyumlu

Çelik / Çelik (MLK)

**Somun
Perçinler**
sayfa 9-13



Çelik
Paslanmaz Çelik

30 Yıllık Deneyim

Yüksek Üretim ve Yüksek Stok Kapasitemizle **30 Yıldır** Perçin Siparişlerinizi En Kısa Sürede Karşılıyor ve Üretiminizin Aksamasını Engelliyoruz

Yüksek Kalite

Ürünlerimizi Hammadde Tedariğinden, Üretimin Son Aşamasına Kadar Test Ediyor, **ISO, DIN7337 ve RoHS** Standartlarına Uygun Olarak Üretiyoruz

Yüksek Stok

Geniş Ürün Yelpazesi ve **Yüksek Stok Kapasitemizle** Siparişlerinizi En Kısa Sürede Karşılıyoruz

DIN 7337 Normlarına uygun RoHS Direktiflerine uygun ISO 9001:2008 Kalite Yönetim Belgeli



Uzman Alüminyum Ltd.Şti. olarak 1986 yılından bu yana alüminyum imalat sektörünün çeşitli dallarında faaliyet göstermekteyiz.

Türkiye'de ithal perçin kullanıcılarının kaliteli perçin ihtiyaçlarını karşılamak amacıyla 1998 yılında gerekli alt yapı ve makina yatırımlarını yaparak perçin üretimi konusunda ilk adımı atan firmamız bugün 192 farklı cins ve ölçüde perçin çeşidiyle imalat sektörüne hizmet vermektedir.

Üretim programımızda bulunan ve kataloğumuzda incelemenize sunulan perçin çeşitlerimizi, özel alaşımlı içi dolu alüminyum tellerden ve özel haddelenmiş karbonlu ara tavlı çelik tellerden DIN 7337 normlarına uygun, tam otomatik ve çok hassas makinelerde üretmekteyiz.

İmalatta kullandığımız teknoloji, yüksek kaliteli metaller, imalatın her aşamasında laboratuvarımızda yaptığımız kalite kontrol testleri ve "ÖNCE KALİTE" anlayışımızla sizlere mükemmel ürünler sunuyoruz.

UZMAN ALUMINYUM Ltd.Co. has been working in aluminium goods manufacturing branch since 1986. Aiming to meet high quality rivet needs of the market, UZMAN has been manufacturing rivets according to **DIN7337** norms, by high technology methods and high quality raw materials, since 1998. Due to "**Best investment is quality**" understanding of the company, UZMAN aims to supply best quality rivets to her customers.


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PERÇİN NEDİR?

Birden fazla malzemeyi güçlü ve ekonomik şekilde birleştirmek için kullanılan perçinler, montaj işlemini malzemenin arkasını görmenize gerek kalmadan yapabildiğiniz için genellikle "kör perçin" olarak da adlandırılır. Doğrama imalatından, otomotiv endüstrisine kadar bir çok alanda kullanılan bu güçlü ve ekonomik bağlantı elemanları, kullanılacakları alana ve taşıyacakları yüke göre farklı boy, malzeme ve şekillerde üretilir.

SOMUN PERÇİN NEDİR?

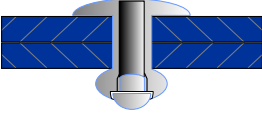
Diş açılmayacak incelikte malzemeleri civatayla birleştirmek için kullanılan bir bağlantı elemanıdır. Somun perçinin dişleri, uygulandığı malzemeye kaynaklanmış bir somun gibi çalışır. Somun Perçin kullanarak, arka tarafına ulaşamadığınız malzemeleri de somunlu hale getirebilirsiniz. Diş açmanın mümkün olmadığı ya da açılacak dişlerin yeterince sağlam olmayacağı düşünülen malzemelerde kullanılarak yüksek mukavemette bir birleştirme sağlanabilmektedir.

DIN7337, ISO ve RoHS Normlarında üretilen ürünlerimiz birçok farklı alanda kullanılabilir. Hizmet verdiğimiz bazı sektörler; endüstriyel mutfak sistemleri, soğutma sistemleri, beyaz eşya üretimi, elektronik ve savunma sanayidir. Sektörlere ve birleştirilecek malzemelere göre farklı perçin tipleri mevcuttur. Gıda sektöründe, paslanmadan kaçınmak için daha çok paslanmaz çelik ya da tamamen alüminyumdan oluşan perçinler tercih edilirken, otomotiv alanında tamamen çelikten oluşan ağır hizmet tipi ürünler tercih edilmektedir. Üretim sürecinize uygun doğru ürünü seçmenizde teknik ekibimiz size ücretsiz şekilde yardımcı olacak ve teknik destek sağlayacaktır.

BİRLEŞTİRİLECEK MALZEMEYE GÖRE PERÇİN SEÇİMİ

Malzeme

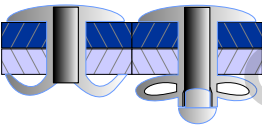
Sert Malzeme
Sert Malzeme



Uygun Perçin Türleri

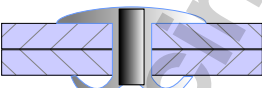
NKS, LKS, HKS, PR, LPR, ST,
ASMG, SSMG, ASMG-LF,
PX, APX, SAS, CLK, MLK

Sert Malzeme
Yumuşak Malzeme



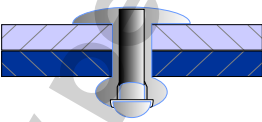
PR, LPR, BL

Yumuşak Malzeme
Yumuşak Malzeme



LPR

Yumuşak Malzeme
Sert Malzeme



LKS, LPR, ASMG-LF

Sert Malzeme
Sert Malzeme



SAS

Birleştirilecek Malzeme Tipine Uygun Perçin Seçiminden Sonra, İhtiyacınız Olan Malzeme (Paslanmaz, Çelik, Alüminyum) ve Sağlamlık Özelliklerine (Ürün Sayfalarındaki Çekme ve Kesme Değerleri) Göre Size En Uygun Perçin Tipini Bulabilirsiniz.

Farklı Uzunluklarda Perçin Kullanmaktaysanız, Üretimizi ve Stok Yönetiminizi Kolaylaştırmak İçin Geniş Sıkma Aralığına Sahip ASMG, ASMG-LF ya da MLK Serisi Perçinleri Kullanabilirsiniz.



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UYGUN BOYDA PERÇİN SEÇİMİ

İşinizde kullanacağınız ideal perçin boyu seçimi, sıkılacak olan malzemenin kalınlığı ile kullanacağınız perçin çapının toplamı ile elde edilir.

Örneğin;

Birleştirilecek Malzeme Kalınlığı = $a = 10$ mm

Perçin Çapı = $d = 4.8$ mm

Uygun Perçin Boyu (L) = $a + d = 10$ mm + 4.8 mm = 14.8 mm

∴ 14.8 mm uzunluğunda bir perçin seçmeniz gerekir.

Not: Perçin boyu ölçülürken perçinin baş kısmı ve perçin çivisi hesaba katılmaz.

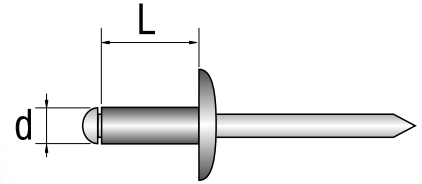
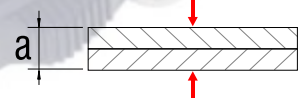
Ahtapot Perçinlerde ise hesaplama şu şekilde yapılır :

Birleştirilecek Malzeme Kalınlığı = $a = 10$ mm

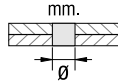
Perçin Çapı = $d = 4.8$ mm

Perçin Boyu (L) = $a + (2 \times d) = 10$ mm + 9.6 mm = 19.6 mm

∴ En az 19.6 mm uzunluğunda bir perçin seçmeniz gerekir.

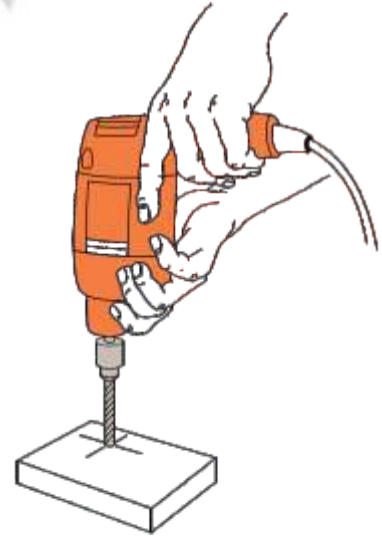


UYGUN PERÇİN DELİK ÇAPI



İdeal bir perçinleme işlemi için, kullandığınız perçinin kalitesi kadar, perçini yerleştirdiğiniz delik çapı da çok önemlidir. Açacağınız delik, kullanacağınız perçinin teknik sayfasında verilen uygun delik çapı ölçülerini aşarsa, kullanıma bağlı olarak zaman içinde perçinde kopma meydana gelebilir.

Perçinleme işleminin uzun ömürlü olması için açılan delik önerilen ölçülerde olmalı, delik açma sırasında matkap ya da delici alet yüzeye tam 90 derece açıyla uygulanmalı ve delme sırasında matkap sağa sola oynatılmamalıdır.



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TÜRKİYE'NİN PERÇİN ÜRETİCİSİ

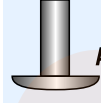
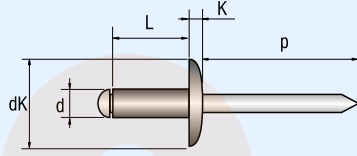
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Alüminyum Pop Perçinler
Aluminium Blind Rivets
Алюминий Заклёпка Вытяжная

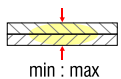
NKS



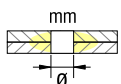
Alüminyum AlMg2.5
Aluminium AlMg2,5
Адюминий AlMg2,5

Kaplamalı Çelik Çivi
Zinc Plated Steel Mandrel
Цинк Покрытый Сталь

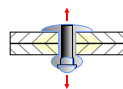
Kod Code Код	D x L mm.	d mm.	dK mm.	K mm.	P mm.	min : max (mm.)	mm. Ø	500 N (min.)	300 N (min.)	1000
NKS 2404	2,4 x 4,0	2,40	5,00	0,8	>30	0,5 : 2,0	2,5 ~ 2,6	500 N (min.)	300 N (min.)	1000
NKS 2406	2,4 x 6,0					2,0 : 3,5				
NKS 2408	2,4 x 8,0					3,5 : 5,5				
NKS 2410	2,4 x 10					5,5 : 8,0				
NKS 305	3,0 x 5	3,00	6,30	1,0	>30	0,5 : 2,0	3,1 ~ 3,2	550 N (min.)	400 N (min.)	1000
NKS 306	3,0 x 6					1,0 : 3,0				
NKS 308	3,0 x 8					3,0 : 5,0				
NKS 310	3,0 x 10					5,0 : 7,0				
NKS 312	3,0 x 12					7,0 : 9,0				
NKS 315	3,0 x 15					9,0 : 12				
NKS 3205	3,2 x 5	3,20	6,30	1,0	>30	0,5 : 2,0	3,3 ~ 3,4	700 N (min.)	500 N (min.)	1000
NKS 3206	3,2 x 6					1,0 : 3,0				
NKS 3208	3,2 x 8					3,0 : 5,0				
NKS 3210	3,2 x 10					5,0 : 7,0				
NKS 3212	3,2 x 12					7,0 : 9,0				
NKS 3215	3,2 x 15					9,0 : 12				
NKS 406	4,0 x 6	4,00	8,00	1,3	>30	0,5 : 3,0	4,1 ~ 4,2	1200 N (min.)	850 N (min.)	1000
NKS 408	4,0 x 8					3,0 : 5,0				
NKS 410	4,0 x 10					5,0 : 6,5				
NKS 412	4,0 x 12					6,5 : 8,5				
NKS 415	4,0 x 15					8,5 : 11,5				
NKS 420	4,0 x 20					11,5 : 16,5				
NKS 425	4,0 x 25					16,5 : 21,5				
NKS 506	4,8 x 6	4,80	9,50	1,4	>30	0,5 : 3,0	4,9 ~ 5,0	1700 N (min.)	1200 N (min.)	1000
NKS 508	4,8 x 8					3,0 : 5,0				
NKS 510	4,8 x 10					5,0 : 6,5				
NKS 512	4,8 x 12					6,5 : 8,5				
NKS 515	4,8 x 15					8,5 : 11,5				
NKS 520	4,8 x 20					11,5 : 16,5				
NKS 525	4,8 x 25					16,5 : 21,5				
NKS 530	4,8 x 30					21,0 : 26,0				
NKS 612	6,0 x 12	6,00	12,0	1,9	>30	2,5 : 7,0	6,1 ~ 6,2	3900 N (min.)	3000 N (min.)	500
NKS 616	6,0 x 16					7,0 : 11,0				
NKS 620	6,0 x 20					10,0 : 15,0				
NKS 625	6,0 x 25					15,0 : 20,0				
NKS 630	6,0 x 30					20,0 : 25,0				



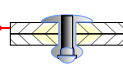
perçin sıkma aralığı
grip range of rivet
диапазон власти (захвата)



delik çapı
hole size
размер отверстия



çekme test değeri
tensile strength
стрижка силы



kesme test değeri
shearing strength
растяжимый силы



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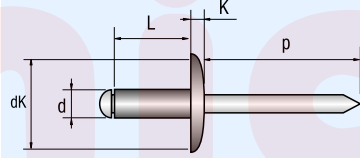


Geniş Kafalı Alüminyum Pop Perçinler

Large Head Aluminium Blind Rivets

Широкой Головкой Алюминий Заклёпка Вытяжная

LKS



Alüminyum AlMg2.5
Aluminium AlMg2,5
Алюминий AlMg2,5

Kaplamalı Çelik Çivi
Zinc Plated Steel Mandrel
Цинк Покрытый Сталь

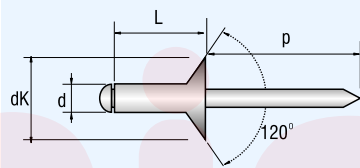
Kod Code Код	D x L mm.	d mm.	dK mm.	K mm.	P mm.	min : max	mm. Ø	1700 N (min.)	1200 N (min.)	500
LKS/14-510	4,8 x 10	4,8	13,7	1,6	>30	1,5 : 6,0	4,9 ~ 5,0	1700 N (min.)	1200 N (min.)	500
LKS/14-515	4,8 x 15					6,0 : 11,0				500
LKS/14-520	4,8 x 20					11,0 : 15,0				500
LKS/14-525	4,8 x 25					15,0 : 20,0				500
LKS/16-515	4,8 x 15	4,8	15,7	1,8	>30	3,0 : 11,0	4,9 ~ 5,0	1700 N (min.)	1200 N (min.)	500
LKS/16-520	4,8 x 20					11,0 : 15,0				500
LKS/16-525	4,8 x 25					15,0 : 20,0				500

Havşa Kafalı Alüminyum Pop Perçinler

Countersunk Head Aluminium Blind Rivets

Потайной Головкой Алюминий Заклёпка

HKS



Alüminyum AlMg2.5
Aluminium AlMg2,5
Алюминий AlMg2,5

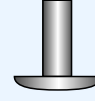
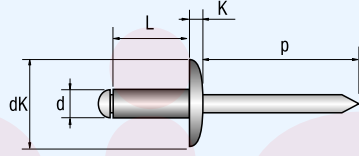
Kaplamalı Çelik Çivi
Zinc Plated Steel Mandrel
Цинк Покрытый Сталь

Kod Code Код	D x L mm.	d mm.	dK mm.	P mm.	min : max	mm. Ø	700 N (min.)	500 N (min.)	1000
HKS 3206	3,2 x 6	3,2	6,0	>30	0,5 : 3,0	3,3 ~ 3,4	700 N (min.)	500 N (min.)	1000
HKS 3210	3,2 x 10				3,0 : 7,0				1000
HKS 406	4,0 x 6	4,0	7,5	>30	0,5 : 3,0	4,1 ~ 4,2	1200 N (min.)	850 N (min.)	1000
HKS 408	4,0 x 8				3,0 : 5,0				1000
HKS 410	4,0 x 10				5,0 : 6,5				1000
HKS 412	4,0 x 12				6,5 : 8,5				500
HKS 415	4,0 x 15				8,5 : 11,5				500
HKS 510	4,8 x 10	4,8	9,0	>30	1,5 : 6,0	4,9 ~ 5,0	1700 N (min.)	1200 N (min.)	1000
HKS 515	4,8 x 15				6,0 : 11,0				1000
HKS 520	4,8 x 20				11,0 : 15,0				1000
HKS 525	4,8 x 25				15,0 : 20,0				1000

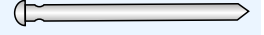


Çelik Pop Perçinler
Steel Blind Rivets
Стадь Заклёпка Вытяжная

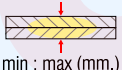
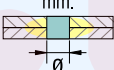
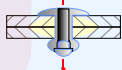
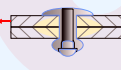

ST



Çelik
Steel
Стадь



Kaplamalı Çelik Çivi
Zinc Plated Steel Mandrel
Сталь, Покрытая Цинком

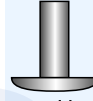
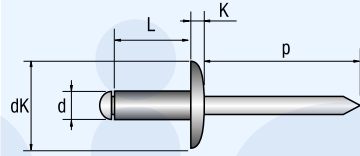
Kod Code Код	D x L mm.	d mm.	dK mm.	K mm.	P mm.	 min : max (mm.)	 mm. ø			
ST 3206	3,2 x 6					1,0 : 3,0				1000
ST 3208	3,2 x 8					3,0 : 5,0				1000
ST 3210	3,2 x 10	3,2	6,3	1,0	>30	5,0 : 6,5	3,3 ~ 3,4	1200 N (min.)	1100 N (min.)	1000
ST 3212	3,2 x 12					6,5 : 9,0				1000
ST 408	4,0 x 8					2,0 : 4,5				1000
ST 410	4,0 x 10					4,5 : 6,5				1000
ST 412	4,0 x 12	4,0	8,0	1,3	>30	6,5 : 8,5	4,1 ~ 4,2	2200 N (min.)	1700 N (min.)	500
ST 414	4,0 x 14					8,5 : 10,5				500
ST 416	4,0 x 16					10,5 : 12,5				500
ST 510	4,8 x 10					3,0 : 6,0				500
ST 512	4,8 x 12					6,0 : 8,0				500
ST 514	4,8 x 14	4,8	9,5	1,4	>30	8,0 : 10,0	4,9 ~ 5,0	3100 N (min.)	2900 N (min.)	500
ST 516	4,8 x 16					10,0 : 12,0				500
ST 520	4,8 x 20					12,0 : 15,0				500
ST 525	4,8 x 25					15,0 : 20,0				250
ST 612	6,0 x 12					3,5 : 6,0				250
ST 616	6,0 x 16					6,0 : 10,0				250
ST 620	6,0 x 20	6,0	12,0	1,9	>30	10,0 : 14,0	6,1 ~ 6,2	4800 N (min.)	4300 N (min.)	250
ST 625	6,0 x 25					14,0 : 19,0				250





Paslanmaz Çelik Pop Perçinler
Stainless Steel (Inox) Blind Rivets
Нержавеющая Сталь Заклёпка Вытяжная

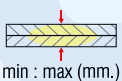
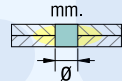
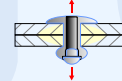
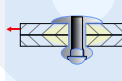

PX



Paslanmaz Çelik
Stainless Steel
Нержавеющая Сталь



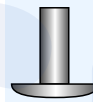
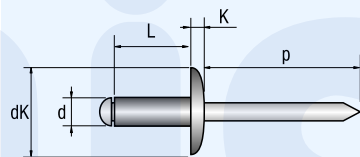
Paslanmaz Çelik
Stainless Steel
Нержавеющая Сталь

Kod Code Коде	D x L mm.	d mm.	dK mm.	K mm.	P mm.	 min : max (mm.)	 mm. ø	 Kg	 Kg	
PX 3206	3,2 x 6	3,2	6,3	1,0	>30	1,0 : 3,0	3,3 ~ 3,4	2500 N (min.)	1900 N (min.)	1000
PX 3208	3,2 x 8					3,0 : 5,0				1000
PX 3210	3,2 x 10					5,0 : 6,5				1000
PX 3212	3,2 x 12					6,5 : 9,0				1000
PX 406	4,0 x 6	4,0	8,0	1,3	>27	1,0 : 2,5	4,1 ~ 4,2	3500 N (min.)	2700 N (min.)	1000
PX 408	4,0 x 8					2,0 : 4,5				1000
PX 410	4,0 x 10					4,5 : 6,5				1000
PX 412	4,0 x 12					6,5 : 8,5				500
PX 416	4,0 x 16	8,5 : 12,0	500							
PX 508	4,8 x 8	4,8	9,5	1,4	>30	2,0 : 4,0	4,9 ~ 5,0	5000 N (min.)	4000 N (min.)	500
PX 510	4,8 x 10					4,0 : 6,0				500
PX 512	4,8 x 12					6,0 : 8,0				500
PX 516	4,8 x 16					8,0 : 11,0				500
PX 520	4,8 x 20	11,0 : 15,0	500							



Alüminyum Gövde / Paslanmaz Çelik Çivili Perçinler
Aluminium Body / Stainless Mandrel Blind Rivets
Нержавеющая Заклёпка Вытяжная

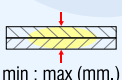
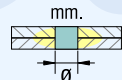
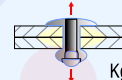
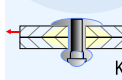

APX

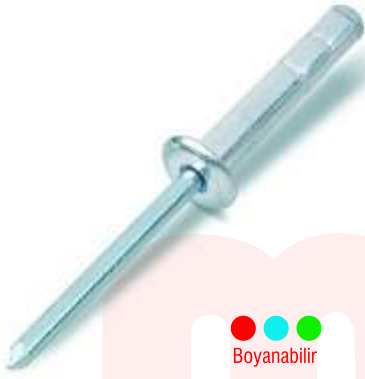


Alüminyum AlMg3.5
Aluminium AlMg3,5
Алюминий AlMg3,5



Paslanmaz Çelik
Stainless Steel
Нержавеющая Сталь

Kod Code Коде	D x L mm.	d mm.	dK mm.	K mm.	P mm.	 min : max (mm.)	 mm. ø	 Kg	 Kg	
APX 3208	3,2 x 8	3,20 +0.08 -0.15	6,0 ± 0.2	0,8 ± 0.2	26 .min	2,5 : 5,5	3,3 ~ 3,4	980 N (min.)	760 N (min.)	1000
APX 3210	3,2 x 10					5,0 : 7,0				1000
APX 3215	3,2 x 15					6,5 : 12,0				1000
APX 410	4,0 x 10	4,0 +0.08 -0.15	7,8 ± 0.2	1,2 ± 0.2	28 .min	5,0 : 7,0	4,1 ~ 4,2	1600 N (min.)	1200 N (min.)	500
APX 415	4,0 x 15					7,0 : 12				500
APX 420	4,0 x 20					12 : 17				500
APX 511	4,8 x 11	4,8 +0.08 -0.15	9,25 ± 0.25	1,2 ± 0.2	28 .min	4,5 : 6,5	4,9 ~ 5,0	2230 N (min.)	1690 N (min.)	500
APX 516	4,8 x 16					6,5 : 11,5				500
APX 520	4,8 x 20					11,5 : 16,5				500
APX 525	4,8 x 25					16,5 : 21,5				500

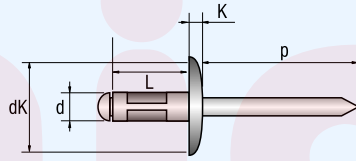


Multigrip Baskılı Perçinler

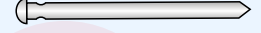
Multigrip Blind Rivets

Мультигрип Типа Алюминий Заклёпка Вытяжная

ASMG

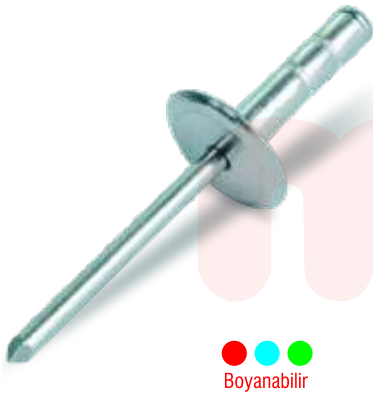
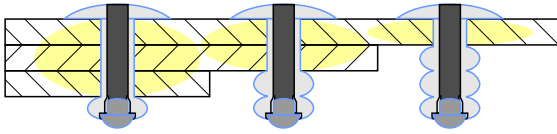


Alüminyum AIMg2.5
Aluminium AIMg2,5
Адюминий AIMg2,5



Kaplamalı Çelik Çivi
Zinc Plated Steel Mandrel
Сталь, Покрытая Цинком

Kod Code Код	D x L mm.	d mm.	dK mm.	K mm.	P mm.	 min : max	 mm. ø			
ASMG 3208	3,2 x 8					1,0 : 5,0				1000
ASMG 3210	3,2 x 10	3,2	6,3	1,0	>30	2,5 : 7,0	3,3 ~ 3,4	700 N (min.)	500 N (min.)	1000
ASMG 3212	3,2 x 12					4,5 : 9,0				1000
ASMG 410	4,0 x 10					1,0 : 6,5				1000
ASMG 415	4,0 x 15	4,0	8,0	1,3	>30	5,0 : 11,5	4,1 ~ 4,2	1200 N (min.)	850 N (min.)	500
ASMG 420	4,0 x 20					11,0 : 16,0				500
ASMG 425	4,0 x 25					14,0 : 20,5				500
ASMG 510	4,8 x 10					1,0 : 6,5				500
ASMG 515	4,8 x 15	4,8	9,6	1,5	>30	5,0 : 11,0	4,9 ~ 5,0	1700 N (min.)	1200 N (min.)	500
ASMG 520	4,8 x 20					10,0 : 16,0				1000
ASMG 525	4,8 x 25					14,0 : 20,0				250

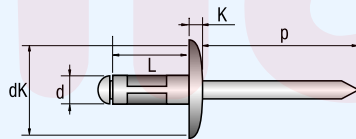


Geniş Kafalı Multigrip Baskılı Perçinler

Large Head Multigrip Blind Rivets

Широкой Головкой Multigrip Типа Заклёпка
Вытяжная

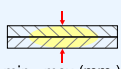
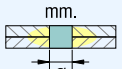
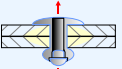
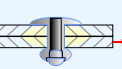

ASMG-LF



Alüminyum AIMg2.5
Aluminium AIMg2,5
Адюминий AIMg2,5



Kaplamalı Çelik Çivi
Zinc Plated Steel Mandrel
Сталь, Покрытая Цинком

Kod Code Код	D x L mm.	d mm.	dK mm.	K mm.	P mm.	 min : max (mm.)	 mm. ø			
ASMG-LF 510	4,8 x 10					1,0 : 6,5				250
ASMG-LF 515	4,8 x 15	4,8	15,7	1,8	>30	5,0 : 11,0	4,9 ~ 5,0	1700 N (min.)	1200 N (min.)	250
ASMG-LF 520	4,8 x 20					10,0 : 16,0				250
ASMG-LF 525	4,8 x 25					14,0 : 20,0				250

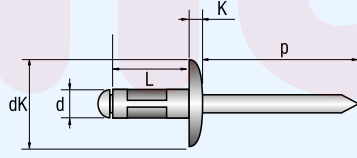


Çelik Multigrip Perçinler

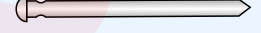
Steel Multigrip Blind Rivets

Мультигрип Типа Алюминий Заклёпка Вытяжная

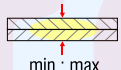
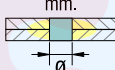
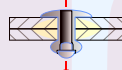
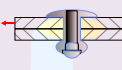

SSMG



Kaplamalı Çelik
Zinc Plated Steel
Стадь



Kaplamalı Çelik Çivi
Zinc Plated Steel Mandrel
Сталь, Покрытая Цинком

Kod Code Код	D x L mm.	d mm.	dK mm.	K mm.	P mm.	 min : max	 mm. ø			
SSMG 407	4,0 x 7,0	4,0	8,0	1,3	>30	1,0 : 3,5	4,1 ~ 4,2	2200 N (min.)	1700 N (min.)	500
SSMG 414	4,0 x 14,0	4,0	8,0	1,3	>30	3,5 : 10,5	4,1 ~ 4,2	2200 N (min.)	1700 N (min.)	500
SSMG 511	4,8 x 10,5	4,8	9,6	1,5	>30	1,0 : 6,0	4,9 ~ 5,0	3100 N (min.)	2900 N (min.)	500
SSMG 517	4,8 x 16,5	4,8	9,6	1,5	>30	5,5 : 12,0	4,9 ~ 5,0	3100 N (min.)	2900 N (min.)	500

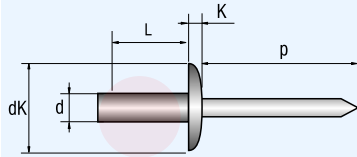


Arkası Kapalı Alüminyum Pop Perçinler

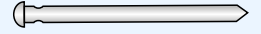
Sealed Aluminium Blind Rivets

Закрытого типа Заклёпка Вытяжная

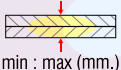

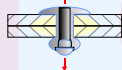
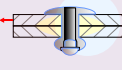

SAS



Alüminyum AlMg5
Aluminium AlMg5
Алюминий AlMg5



Kaplamalı Çelik Çivi
Zinc Plated Steel Mandrel
Сталь, Покрытая Цинком

Kod Code Код	D x L mm.	d mm.	dK mm.	K mm.	P mm.	 min : max (mm.)	 mm. ø			
SAS 3209	3,2 x 9,5					0,5 : 5,0				1000
SAS 3211	3,2 x 11,0	3,2	6,1	1,3	>30	3,0 : 6,5	3,3 ~ 3,4	1450 N (min.)	1100 N (min.)	1000
SAS 3212	3,2 x 12,5	3,2	6,1	1,3	>30	5,0 : 8,0	3,3 ~ 3,4	1450 N (min.)	1100 N (min.)	1000
SAS 408	4,0 x 8,0					1,0 : 3,5				1000
SAS 409	4,0 x 9,5	4,0	8,0	1,6	>30	2,5 : 5,0	4,1 ~ 4,2	2200 N (min.)	1600 N (min.)	1000
SAS 411	4,0 x 11	4,0	8,0	1,6	>30	4,0 : 7,5	4,1 ~ 4,2	2200 N (min.)	1600 N (min.)	1000
SAS 508	4,8 x 9,5					1,5 : 5,0				1000
SAS 511	4,8 x 11,0					3,5 : 6,5				500
SAS 513	4,8 x 12,5	4,8	9,6	2,0	>30	5,0 : 8,0	4,9 ~ 5,0	2100 N (min.)	2200 N (min.)	500
SAS 514	4,8 x 14,5	4,8	9,6	2,0	>30	7,0 : 9,5	4,9 ~ 5,0	2100 N (min.)	2200 N (min.)	500
SAS 516	4,8 x 16	4,8	9,6	2,0	>30	8,5 : 11,0	4,9 ~ 5,0	2100 N (min.)	2200 N (min.)	500
SAS 518	4,8 x 18	4,8	9,6	2,0	>30	10,0 : 13,0	4,9 ~ 5,0	2100 N (min.)	2200 N (min.)	500
SAS 6412	6,4 x 12,5	6,4	12,7	2,5	>30	1,5 : 6,5	6,5 ~ 6,6	4900 N (min.)	3600 N (min.)	250
SAS 6416	6,4 x 16,0	6,4	12,7	2,5	>30	5,5 : 10,0	6,5 ~ 6,6	4900 N (min.)	3600 N (min.)	250

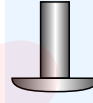
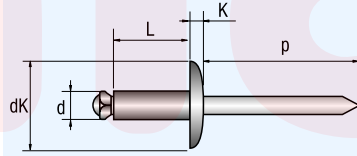


Ahtapot Perçinler

Peel Blind Rivets

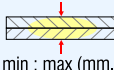
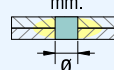
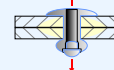
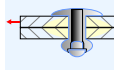

Осьминог Типа Заклёпка Вытяжная

PR



Alüminyum AIMg5
Aluminium AIMg5
Адюминий AIMg5

Kaplamalı Çelik Çivi
Zinc Plated Steel Mandrel
Сталь, Покрытая Цинком

Kod Code Код	D x L mm.	d mm.	dK mm.	K mm.	P mm.	 min : max (mm.)	 mm. Ø			
PR 410	4,0 x 10					1,5 : 5,0				1000
PR 415	4,0 x 15	4,0	8,0	1,3	>30	5,0 : 9,0	4,4 ~ 4,5	1150 N (min.)	1260 N (min.)	1000
PR 420	4,0 x 20					9,0 : 12,0				1000
PR 425	4,0 x 25					12,0 : 20,0				1000
PR 510	4,8 x 10					1,5 : 5,0				1000
PR 515	4,8 x 15	4,8	9,5	1,4	>30	5,0 : 9,0	5,2 ~ 5,3	1600 N (min.)	1690 N (min.)	1000
PR 520	4,8 x 20					9,0 : 12,0				1000
PR 525	4,8 x 25					12,0 : 20,0				500

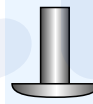
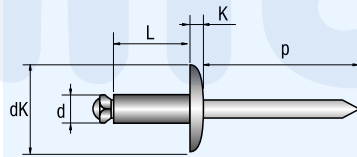


Geniş Kafa Ahtapot Perçinler

Large Flange Peel Blind Rivets

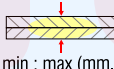
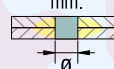
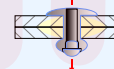
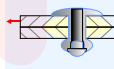

Осьминог Типа Заклёпка Вытяжная

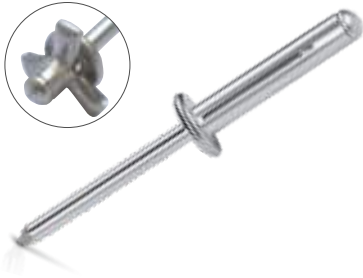
LPR



Alüminyum AIMg3,5
Aluminium AIMg3,5
Адюминий AIMg3,5

Kaplamalı Çelik Çivi
Zinc Plated Steel Mandrel
Сталь, Покрытая Цинком

Kod Code Код	D x L mm.	d mm.	dK mm.	K mm.	P mm.	 min : max (mm.)	 mm. Ø			
LPR 516	4,8 x 16					5,0 : 10,0				500
LPR 520	4,8 x 20	4,8	15,7	1,8	>30	9,0 : 14,0	5,2 ~ 5,3	1600 N (min.)	1690 N (min.)	500
LPR 525	4,8 x 25					14,0 : 20,0				500

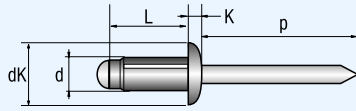


Bulb Tipi Yarıklı Perçinler

Tri-Bulb Type Blind Rivets

ВЫТЯЖНЫЕ ЗАКЛЕПКИ

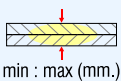
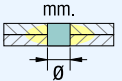
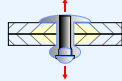
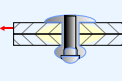

BL

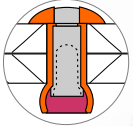


Alüminyum AIMg3,5
Aluminum AIMg3,5
Алюминий AIMg3,5



Alüminyum AIMg5
Aluminium AIMg5
Адюминий AIMg5

Kod Code Код	D x L mm.	d mm.	dK mm.	K mm.	P mm.	 min : max (mm.)	 mm. ø			
BL 414	4,0 x 13,6	4,1 (max.)	8,0	1,4	>30	1,0 : 3,0	4,2 ~ 4,4	750 N (min.)	550 N (min.)	500
BL 419	4,0 x 18,5					3,0 : 7,0				500
BL 424	4,0 x 24,0					4,0 : 12,0				500
BL 515	4,8 x 15,3	4,95 (max.)	9,9	1,8	>30	1,0 : 4,0	5,0 ~ 5,2	950 N (min.)	750 N (min.)	500
BL 520	4,8 x 20,3					1,0 : 9,0				500
BL 525	4,8 x 25,5					4,0 : 12,0				500

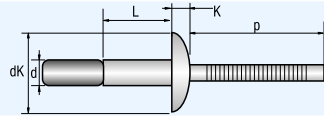


Kilitli Perçinler (Macro-lok)

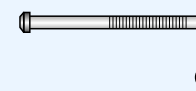
Macro-lok Type Blind Rivets

Макро-лок Типа Заклёпка Вытяжная

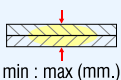
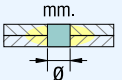
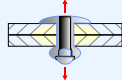
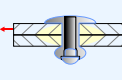

CLK



Çelik
Steel
Сталь



Çelik
Steel
Сталь

Kod Code Код	D x L mm.	d mm.	dK mm.	K mm.	P mm.	 min : max (mm.)	 mm. ø			
CLK 510	4,8 x 10	4,8	9,5	2,2	>27	1,6 : 6,9	4,9 ~ 5,1	4400 N (min.)	5700 N (min.)	250
CLK 514	4,8 x 14					1,6 : 11,0				250
CLK 6414	6,4 x 14	6,5	12,7	3,0	>28	2,0 : 9,5	6,6 ~ 6,9	8200 N (min.)	10600 N (min.)	250
CLK 6420	6,4 x 20					2,0 : 15,9				250

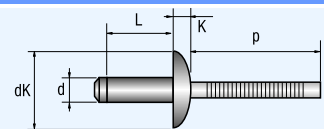


Kilitli Perçinler (Micro-Lok)

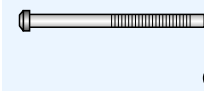
Micro-lok Type Blind Rivets

Микро-лок Типа Заклёпка Вытяжная

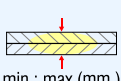
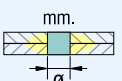
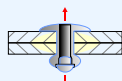
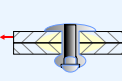

MLK



Çelik
Steel
Сталь



Çelik
Steel
Сталь

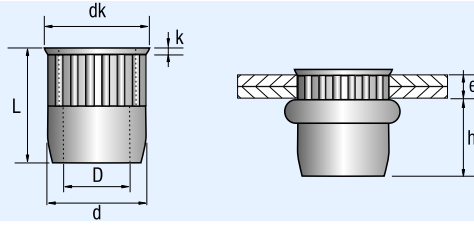
Kod Code Код	D x L mm.	d mm.	dK mm.	K mm.	P mm.	 min : max (mm.)	 mm. ø			
MLK 6409	6,4 x 9,0	6,4	12,8	2,9	>32	1,5 : 3,5	6,5 ~ 6,7	6500 N (min.)	9000 N (min.)	250
MLK 6410	6,4 x 10,5					2,8 : 4,8				250
MLK 6412	6,4 x 12,5					4,8 : 6,8				250
MLK 6415	6,4 x 14,5					6,8 : 8,8				250
MLK 6417	6,4 x 16,5					8,8 : 10,8				250
MLK 6419	6,4 x 18,5					10,8 : 12,8				250
MLK 6421	6,4 x 20,5					12,8 : 14,8				250

Somun Perçin Rivet Nut Заклёпка Гайка



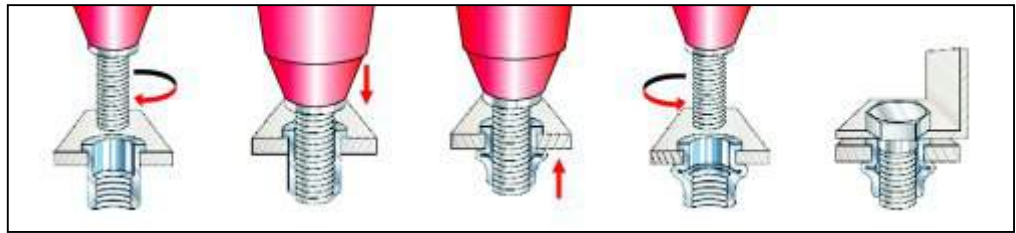
Silindir, Sıfır Kafa
Cylinder, Thin Head
Циліндр, Потайной Головкой

STS



Kaplamalı Çelik
Zinc Plated Steel
Сталь, Покрытая Цинком

Kod Code Коде	D	L	k	h	d	dk	mm		Kgm	Nm
							min : max	Ø		
STS 3	M3	8,5	0,35	5,0	5	5,5	0,5 : 1,5	5	0,1	1
STS 4	M4	10,0	0,50	5,5	6	7,0	0,5 : 1,5	6	0,4	4
STS 5	M5	12,0	0,60	6,0	7	8,0	0,5 : 2,0	7	0,8	8
STS 6	M6	14,5	0,60	9,0	9	10,0	0,5 : 3,0	9	1,5	15
STS 8	M8	16,5	0,60	10,0	11	12,3	0,5 : 3,5	11	2,6	26
STS 10	M10	19,0	0,85	12,0	13	14,5	0,5 : 3,5	13	4,5	45

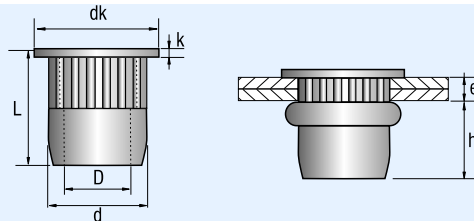


Somun Perçin Rivet Nut Заклёпка Гайка



Silindir, Şapkalı Kafa
Cylinder, Flat Head
Циліндр, Заклёпка Гайка

STF



Kaplamalı Çelik
Zinc Plated Steel
Сталь, Покрытая Цинком

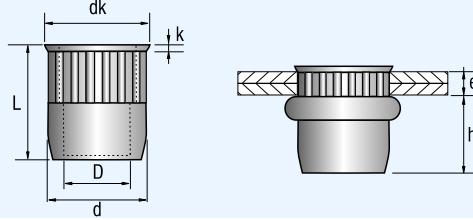
Kod Code Коде	D	L	k	h	d	dk	mm		Kgm	Nm
							min : max	Ø		
STF 3	M3	8,8	0,8	4,5	5	7	0,5 : 2,0	5	0,1	1
STF 4	M4	10,8	0,8	6,5	6	9	0,5 : 2,0	6	0,4	4
STF 5	M5	13,0	1,0	8,0	7	10	0,5 : 3,0	7	0,8	8
STF 6	M6	15,0	1,50	9,0	9	13	0,5 : 3,0	9	1,5	15
STF 8	M8	18,0	1,50	11,5	11	15	0,5 : 3,5	11	2,6	26
STF 10	M10	20,3	1,80	12,5	13	17	0,5 : 3,5	13	4,5	45

Arkası Kapalı Somun Perçin Closed End Rivet Nut Зарытого Типа Заклѣпка Гайка



Silindir, Sıfır Kafa
Cylinder, Thin Head
Циліндр, Потайной Головкой

KTS



Kaplamalı Çelik
Zinc Plated Steel
Сталь, Покрытая Цинком

Kod Code Коде	D	L	k	h	d	dk	min : max	mm Ø		Kgm	Nm
KTS 4	M4	16,5	0,50	12,5	6	7,0	0,5 : 2,0	6	500	0,4	4
KTS 5	M5	18,5	0,60	13,5	7	8,0	0,5 : 2,5	7	500	0,8	8
KTS 6	M6	23,0	0,60	17,0	9	10,0	0,5 : 3,0	9	500	1,5	15
KTS 8	M8	26,5	0,60	19,5	11	12,3	0,5 : 3,5	11	500	2,6	26
KTS 10	M10	33,0	0,85	25,5	13	14,5	0,5 : 3,5	13	500	4,5	45

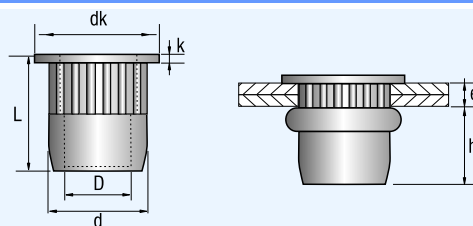


Arkası Kapalı Somun Perçin Closed End Rivet Nut Зарытого Типа Заклѣпка Гайка



Silindir, Şapkalı Kafa
Cylinder, Flat Head
Циліндр, Заклѣпка Гайка

KTF



Kaplamalı Çelik
Zinc Plated Steel
Сталь, Покрытая Цинком

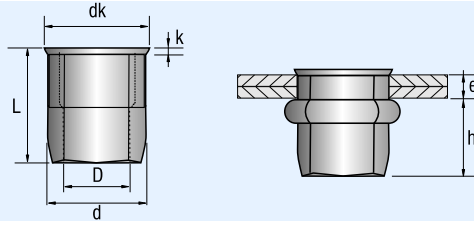
Kod Code Коде	D	L	k	h	d	dk	min : max	mm Ø		Kgm	Nm
KTF 4	M4	17,3	0,8	12,0	6	9	1,0 : 2,5	6	500	0,4	4
KTF 5	M5	19,5	1,0	13,0	7	10	2,5 : 4,0	7	500	0,8	8
KTF 6	M6	23,5	1,5	17,0	9	13	3,0 : 5,0	9	500	1,5	15
KTF 8	M8	28,0	1,5	21,5	11	15	3,5 : 6,0	11	500	2,6	26
KTF 10	M10	34,3	1,8	26,0	13	17	3,5 : 6,0	13	500	4,5	45

Somun Perçin Rivet Nut Заклѐпка Гайка

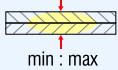





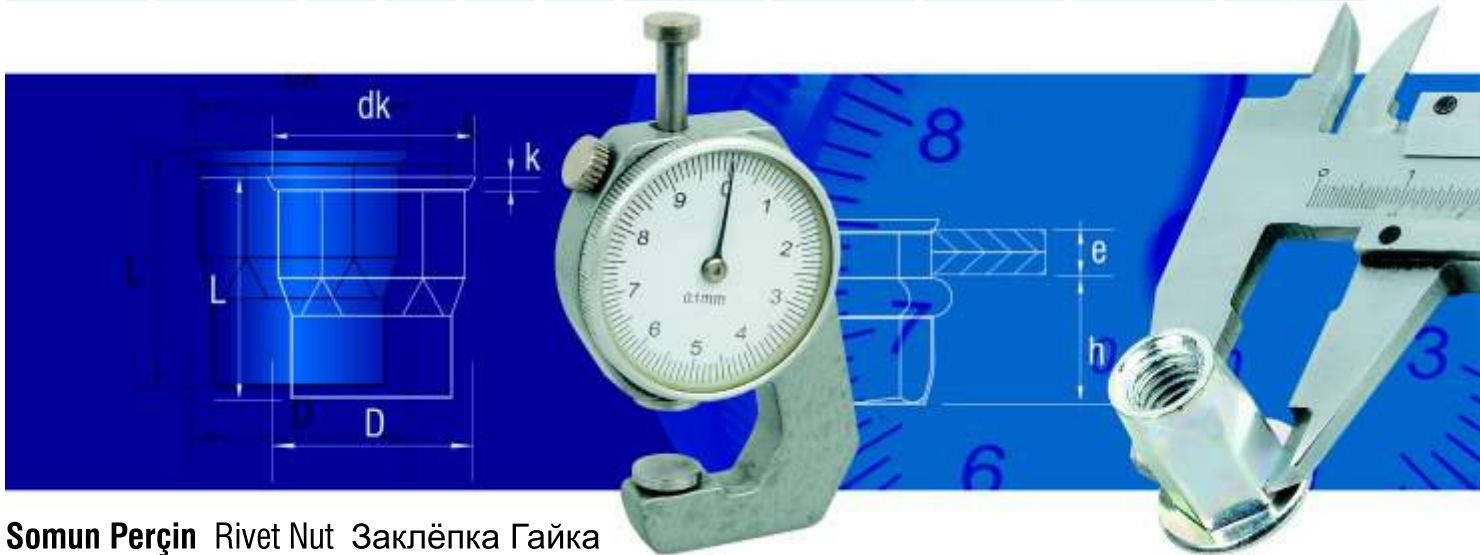
Altıköşe, Sıfır Kafa
Hexagonal, Thin Head
Шестиугольник, Потайной Головкой

AS



Kaplamalı Çelik
Zinc Plated Steel
Сталь, Покрытая Цинком

Kod Code Коде	D	L	k	h	d	dk	 min : max	 M		 Kgm Nm
AS 4	M4	10,0	0,8	6,00	6	7,6	0,5 : 2,0	6	500	0,4 4
AS 5	M5	12,0	0,8	6,50	7	8,9	0,5 : 2,5	7	500	0,8 8
AS 6	M6	14,3	1,1	8,00	9	10,9	0,5 : 3,0	9	500	1,5 15
AS 8	M8	16,5	1,1	10,00	11	12,5	0,5 : 3,5	11	500	2,6 26
AS 10	M10	19,0	1,1	11,00	12	14,5	0,5 : 3,5	12	500	4,5 45

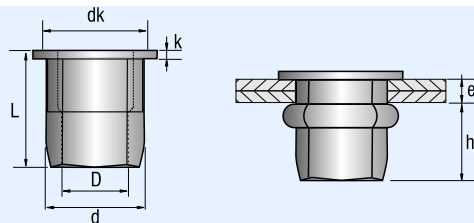


Somun Perçin Rivet Nut Заклѐпка Гайка

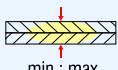





Altıköşe, Şapkalı Kafa
Hexagonal, Flat Head
Шестиугольник, Цилкндр, Заклѐпка Гайка

AF



Kaplamalı Çelik
Zinc Plated Steel
Сталь, Покрытая Цинком

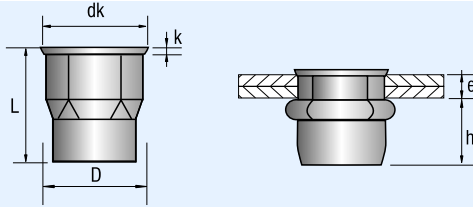
Kod Code Коде	D	L	k	h	d	dk	 min : max	 M		 Kgm Nm
AF 4	M4	10,8	0,80	6,5	6,0	9	0,5 : 2,5	6	500	0,4 4
AF 5	M5	13,0	1,00	8,0	8,0	10	0,5 : 3,0	7	500	0,8 8
AF 6	M6	15,8	1,50	8,5	9,0	13	0,5 : 3,0	9	500	1,5 15
AF 8	M8	18,0	1,50	10,5	11,0	15	0,5 : 3,5	11	500	2,6 26
AF 10	M10	20,3	1,80	12,0	12,5	17	0,5 : 3,5	12	500	4,5 45

Somun Perçin Rivet Nut Заклѐпка Гайка

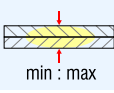


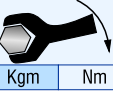


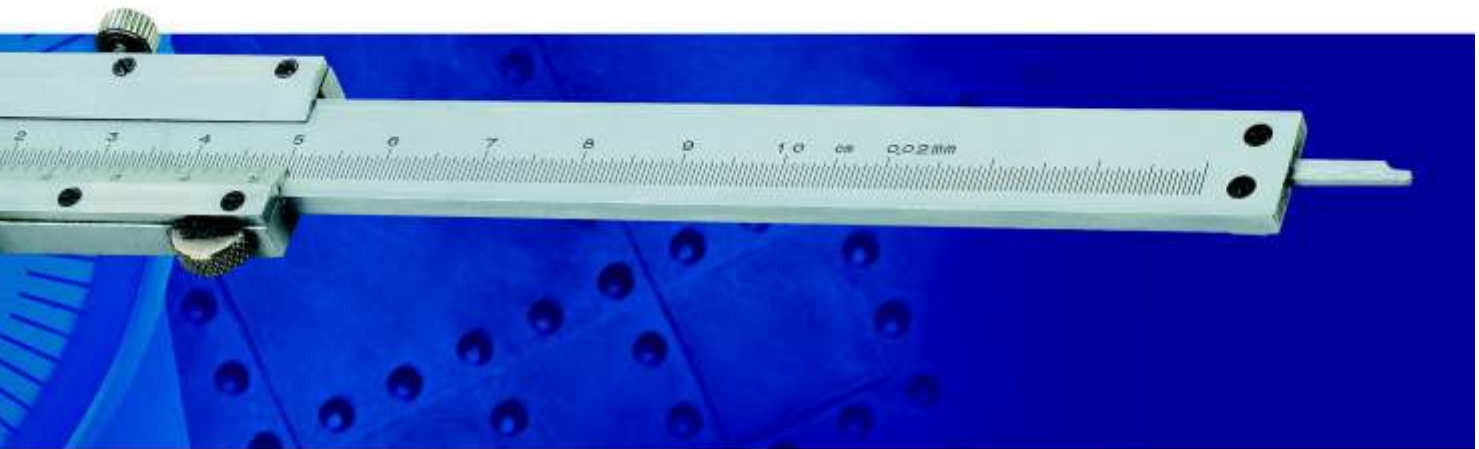
Yarım Altıköşe, Sıfır Kafa
Half-hexagonal, Thin Head
Половина шестиугольный

YAS



Kaplamalı Çelik
Zinc Plated Steel
Сталь, Покрытая Цинком

Kod Code Коде	D	L	k	h	dk					
									Kgm	Nm
YAS 4	M4	10,0	0,50	6,0	7,0	0,5 : 2,0	6	500	0,4	4
YAS 5	M5	12,0	0,60	7,0	8,0	0,5 : 2,5	7	500	0,8	8
YAS 6	M6	14,5	0,60	9,0	10,0	0,5 : 3,0	9	500	1,5	15
YAS 8	M8	16,5	0,60	10,0	12,5	0,5 : 3,5	11	500	2,6	26
YAS 10	M10	22,5	0,60	12,5	14,3	0,5 : 3,5	13	500	4,5	45

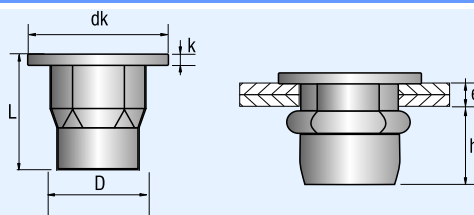


Somun Perçin Rivet Nut Заклѐпка Гайка

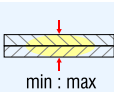





Yarım Altıköşe, Şapkalı Kafa
Half-hexagonal, Flat Head
Половина шестиугольный

YAF



Kaplamalı Çelik
Zinc Plated Steel
Сталь, Покрытая Цинком

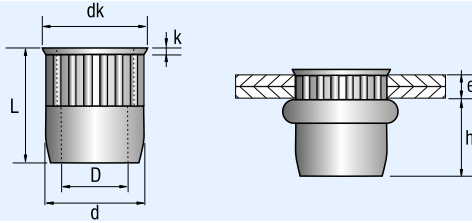
Kod Code Коде	D	L	k	h	dk					
									Kgm	Nm
YAF 4	M4	10,8	0,8	6,0	9	0,5 : 2,5	6	500	0,4	4
YAF 5	M5	13,0	1,0	8,0	10	0,5 : 3,0	7	500	0,8	8
YAF 6	M6	15,8	1,5	9,0	13	0,5 : 3,5	9	500	1,5	15
YAF 8	M8	18,0	1,5	11,0	15	0,5 : 3,5	11	500	2,6	26
YAF 10	M10	20,3	1,8	12,5	17	0,5 : 3,5	13	500	4,5	45

Somun Perçin Rivet Nut Заклёпка Гайка

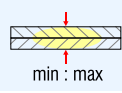
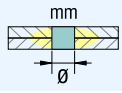

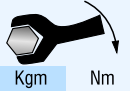


Silindir, Sıfır Kafa
Cylinder, Thin Head
Циліндр, Потайной Головкой

STS-A2



Paslanmaz Çelik
Stainless Steel
Нержавеющая Сталь

Kod Code Коде	D	L	k	h	d	dk				
							min : max	mm		Kgm Nm
STS6-A2	M6	14,5	0,60	9,0	9	10,0	0,5 : 3,0	9	500	1,5 15

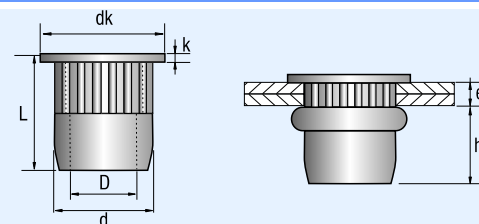
A2 PASLANMAZ ÇELİK SOMUN PERÇİNLER

Somun Perçin Rivet Nut Заклёпка Гайка

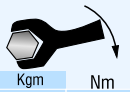


Silindir, Şapkalı Kafa
Cylinder, Flat Head
Циліндр, Заклёпка Гайка


STF-A2



Kaplamalı Çelik
Zinc Plated Steel
Сталь, Покрытая Цинком

Kod Code Коде	D	L	k	h	d	dk				
							min : max	mm		Kgm Nm
STF6-A2	M6	14,5	0,60	9,0	9	10,0	0,5 : 3,0	9	500	1,5 15

RAC 181




Ø	Al	St	Cu	Inx
2.4	●			
3.0	●	●	●	●
3.2	●	●	●	●
4.0	●	●	●	●
4.8	●	●	●	●
6.0	●			

gr
2050gr

NKS, LKS, PR, LPR, ST, HKS, ASMG, ASMG/LF, PX, APX, SAS, BL, CLK, MLK

RAC83AX




Ø	Al	St	Cu	Inx
2.4	●			
3.0	●	●	●	●
3.2	●	●	●	●
4.0	●	●	●	●
4.8	●			

gr
1750gr

NKS, LKS, PR, LPR, ST, HKS, ASMG, ASMG/LF, PX, APX, SAS, BL, CLK, MLK

K1




Ø	Al	St	Cu	Inx
2.4	●			
3.0	●	●	●	●
3.2	●	●	●	●
4.0	●	●	●	●
4.8	●			

gr
500gr

NKS, LKS, PR, LPR, ST, HKS, ASMG, ASMG/LF, PX, APX, SAS, BL

K39




Ø	Al	St	Cu	Inx
2.4	●			
3.0	●	●	●	●
3.2	●	●	●	●
4.0	●	●	●	●
4.8	●	●	●	●

gr
550gr

NKS - LKS - HKS - ASMG - ASMG/LF - PR - SAS - ST - PX - GR

K20-95



Ø	Al	St	Cu	Inx
2.4	●			
3.0	●	●	●	●
3.2	●	●	●	●
4.0	●	●	●	●
4.8	●	●	●	●
6.0	●	●		●
6.4	●	●		●

gr
1700gr

NKS - LKS - HKS - ASMG - ASMG/LF - PR - SAS - ST - PX - GR

RAC171		<table border="1"> <thead> <tr> <th>Ø</th> <th>Al</th> <th>St</th> <th>Cu</th> <th>Inx</th> </tr> </thead> <tbody> <tr> <td>4.8</td> <td></td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>6.0</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>6.4</td> <td>•</td> <td></td> <td>•</td> <td>•</td> </tr> </tbody> </table> <p>ALK - CLK - MLK - MAGNA/LOK - MONOBOLT</p>	Ø	Al	St	Cu	Inx	4.8		•	•	•	6.0	•	•	•	•	6.4	•		•	•	 2930gr				
Ø	Al	St	Cu	Inx																							
4.8		•	•	•																							
6.0	•	•	•	•																							
6.4	•		•	•																							
K35F		<table border="1"> <thead> <tr> <th>Ø</th> <th>Al</th> <th>St</th> </tr> </thead> <tbody> <tr> <td>4.8</td> <td>•</td> <td>•</td> </tr> <tr> <td>6.0</td> <td>•</td> <td>•</td> </tr> <tr> <td>6.4</td> <td>•</td> <td>•</td> </tr> </tbody> </table> <p>ALK - CLK - MLK - MAGNA/LOK - MONOBOLT</p>	Ø	Al	St	4.8	•	•	6.0	•	•	6.4	•	•	 2400gr												
Ø	Al	St																									
4.8	•	•																									
6.0	•	•																									
6.4	•	•																									
Kj60		<table border="1"> <thead> <tr> <th>Ø</th> <th>Al</th> <th>St</th> <th>Inx</th> </tr> </thead> <tbody> <tr> <td>M3</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>M4</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>M5</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>M6</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>M8</td> <td>•</td> <td>•</td> <td>•</td> </tr> </tbody> </table> <p>STS - STF - KTS - KTF - AS - AF - YAS - YAF</p>	Ø	Al	St	Inx	M3	•	•	•	M4	•	•	•	M5	•	•	•	M6	•	•	•	M8	•	•	•	 2150gr
Ø	Al	St	Inx																								
M3	•	•	•																								
M4	•	•	•																								
M5	•	•	•																								
M6	•	•	•																								
M8	•	•	•																								
Kj21		<table border="1"> <thead> <tr> <th>Ø</th> <th>Al</th> <th>St</th> <th>Inx</th> </tr> </thead> <tbody> <tr> <td>M3</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>M4</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>M5</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>M6</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>M8</td> <td>•</td> <td>•</td> <td>•</td> </tr> </tbody> </table> <p>STS - STF - KTS - KTF - AS - AF - YAS - YAF</p>	Ø	Al	St	Inx	M3	•	•	•	M4	•	•	•	M5	•	•	•	M6	•	•	•	M8	•	•	•	 1250gr
Ø	Al	St	Inx																								
M3	•	•	•																								
M4	•	•	•																								
M5	•	•	•																								
M6	•	•	•																								
M8	•	•	•																								

Al	alüminyum - aluminium - алюминий
St	çelik - steel - сталь
Cu	bakır - copper - медь
Inx	paslanmaz çelik - stainless steel - нержавеющей сталь

FAR
BOLOGNA
ITALY

Uzunluk Birimleri - Length Units - Единицы Длины						
	m	cm	km	inch	ft	Mile
1m	1	10 ²	10 ⁻³	39,37	3,281	6,214x10 ⁻⁴
1cm	10 ⁻²	1	10 ⁻⁵	0,3937	3,281x10 ⁻²	6,214x10 ⁻⁶
1km	10 ³	10 ⁵	1	3,937x10 ⁴	3,281x10 ³	0,6214
1inch	2,54x10 ⁻²	2,54	2,540x10 ⁻⁵	1	8,333x10 ⁻²	1,578x10 ⁻⁵
1foot	0,3048	30,48	3,048x10 ⁻⁴	12	1	1,894x10 ⁻⁴
1mile	1609	1,609x10 ⁵	1,609	6,336x10 ⁴	5280	1

Enerji - Energy - Энергия Единицы						
	J	ft.l	eV	cal	Btu	kWh
1joule	1	0,7376	6,242x10 ¹⁸	0,2389	9,481x10 ⁻⁴	2,778x10 ⁻⁷
1ft.lb	1,356	1	8,464x10 ¹⁸	0,3239	1,285x10 ⁻³	3,766x10 ⁻⁷
1eV	1,602x10 ⁻¹⁹	1,182x10 ⁻¹⁹	1	3,827x10 ⁻²⁰	1,519x10 ⁻²²	4,450x10 ⁻²⁶
1cal	4,186	3,087	2,613x10 ¹⁹	1	3,968x10 ⁻³	1,163x10 ⁻⁶
1Btu	1,055x10 ³	7,779x10 ²	6,585x10 ²¹	2,520x10 ²	1	2,930x10 ⁻⁴
1kWh	3,6x10 ⁶	2,655x10 ⁶	2,247x10 ²⁵	8,601x10 ⁵	3,413x10 ²	1

Kütle Birimleri - Mass Units - Массовые Единицы				
	kg	gr	slug	u
1kg	1	10 ³	6,852x10 ⁻²	6,024x10 ²⁶
1gr	10 ⁻³	1	6,852x10 ⁻⁵	6,024x10 ²³
1slug	14,59	1,459x10 ⁴	1	8,789x10 ²⁷
1amu	1,66x10 ⁻²⁷	1,66x10 ⁻²⁴	1,137x10 ⁻²⁸	1

Alan - Area - Область	
1 m ²	= 10000 cm ² = 10.76 ft ²
1 ft ²	= 0.0929 m ² = 144 inç ²
1 inç ²	= 6.452 cm ²

Hacim - Volume - Объем	
1 m ³	= 1000000 cm ³
1 gal	= 3.786 L = 231 inç ³
1 ft ³	= 0.0929 m ³

Frekans - Freq. - Частота	Hertz	Hz	s ⁻¹
Kuvvet - Force - Сила	Newton	N	(kg.m)/s ²
Basınç - Pressure - Давление	Pascal	Pa	kg/(m.s ²)
Enerji : iş - Work - Работa	Joule	J	(kg.m ²)/s ²
Güç - Power - Власть	Watt	W	(kg.m ²)/s ³
Elektrik yükü	Coulomb	C	A.s
Gerilim- Electric Tension - Напряженность	Volt	V	(kg.m ²)/(A.s ³)
Kapasitans - Capacitance - емкость	Farad	F	(A ² .s ⁴)/(kg.m ²)
E.Direnç - Resistance - Сопротивление	Ohm	Ω	(kg.m ²)/(A ² .s ³)
Manyetik akı- Magnetic Flux - магнитный поток	Weber	Wb	(kg.m ²)/(A.s ²)
Manyetik şiddet - Magnetic Field Intensity - Интенсивность Магнитного поля	Tesla	T	kg/(A.s ²)
İndüktans-Inductance-Индуктивность	Henry	H	(kg.m ²)/(A ² .s ²)

Romen Rakamları Roman Numerals Римские Цифры			
I	1	XX	20
II	2	XXI	21
III	3	XXIX	29
IV	4	XL	40
V	5	L	50
VI	6	LXC	90
VII	7	C	100
VIII	8	CD	400
IX	9	D	500
X	10	DC	600
XI	11	M	1000

#perçin : hızlı, sağlam ve ekonomik birleştirme



**micro
perçin**

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