ATN TECH IRON AND STEEL TECHNOLOGIES

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ATN TECH IRON AND STEEL TECHNOLOGIES

HEAD OFFICE
Balatcık Mah. 8914 Sk.
Corner Suits No:72/5
Cigli İzmir TURKEY

FACTORY
Muradiye Mah. 16 Sok.
Sanatkarlar Koop.
Blok No:12
Yunusemre Manisa
TURKEY

0 850 7562680
+90 532 3464786
erdal@atntech.com.tr
atn@atntech.com.tr
www.atntech.com.tr

ATN TECH IRON AND STEEL TECHNOLOGIES

COMPANY PROFILE

After 20 years experience in the steel sector, ATN TECH, has been founded in 2017 as a production-oriented plant for the consuming parts of Steel Melting Shops and Rolling Mill Plants. Our capacity for fabricating steel is 1000 MT/year. ATN Tech is proud of being of customer oriented and well qualified in its field with it's ethical business philosopy and quality products and is being developed every day in this direction to improve it's capacity and service quality in a fast manner. Today ATN Tech is exporting it's products to many countries around the globe in addition to domestic supplies.

Variety of Steel Melting Shop and Rolling Mill Plant's spares such as water cooled panels, water cooled roof parts, water cooled elbows, water cooled ducts, CCM parts, billet transfer systems, copper connection grounds, copper electrode holders, shear blades, patended composite rolls, roller guide systems, carbide rings, labyrinth rings, static guides, pinch rolls, coooling nozzles, complete mill stands, chocks, notching tool holders, couplings, pneumatic clutches, shafts,…etc are succesfully supplied to global steel companies from ATN Tech. Meantime ATN Tech has activities in design works of roll calibers, slitting systems and complete mill revamping projects including heating furnace modernization in order to increase efficiency in the mills. The manufacturing activities&process and after sales service is done as per ISO 9001:2015 Quality Management System.

FİRMA PROFİLİ

ATN Demir Çelik Teknolojileri Ltd. Şti. demir çelik sektöründe kazanılan 20 yıllık bir tecrübe sonrası Metalurji ve Malzeme Müh. Altan Torun ve Makine Müh. Erdal Arpacı tarafından 2017 yılında İzmir'de kurulmuştur. Ağırlıklı olarak çelikhane ve haddehane ekipmanlari imalatı üzerine faaliyet gösteren ATN aynı zamanda bazı global markaların Türkiye ve Ortadoğu temsilcilik faaliyetlerini de yürütmektedir. Müşteri odaklı, yenilikçi ve kaliteli üretim anlayışı çerçevesinde faaliyetlerine devam eden ATN yurtdışı ve yurtiçi sektörün tanınmış firmalarına hizmet vermenin haklı gururunu yaşamaktadır.

WHO WE'RE AT ONE LOOK

Head Office

Balatcık Mah. 8914 Sk. Corner Suits No:72/5
Cigli Izmir Turkey.

Factory Address

Muradiye Mah.16 Sok.Sanatkarlar Koop.
Blok No:12 Yunusemre Manisa Turkey.

Factory Unites are CNC Plasma Cutting Machine 3x6m, 250t Hydraulic Press, Pipe Bending up to 4"pipe capacity, Plate Bending Machine up to 30 mm thickness, Saws, Synergic MIG/MAG Welding Machines, CNC Machining Centers, CNC Turning Lathes, CNC Surface Grinding Machine and other auxilary machines and equipments.

ISO 9001:2015 Quality Management System.

Exporting our products to more than 20 countries around North America, Europe, Middle East and Africa.

Also regional representative activities for global brands in addition to the manufacturing activities.

KURUMSAL TANITIM

Merkez Ofis

Balatcık Mah. 8914 Sk. Corner Suits No:72/5
Çiğli İzmir Türkiye.

Fabrika Adresi

Muradiye Mah.16 Sok. Sanatkarlar Koop. Blok No:12 Yunusemre Manisa Türkiye.

İmalat tesisimiz kapsamında CNC plazma saç kesim 3x6 m, 250 t Hidrolik Pres, Boru Kıvırma, Saç kıvırma, Sinerjik ve Gazaltı kaynak makineleri, CNC işleme merkezleri, CNC Torna Tezgahları, CNC Taşlama ve diğer yardımcı ekipmanlar.

ISO 9001:2015 Kalite Yönetim Sistemi.

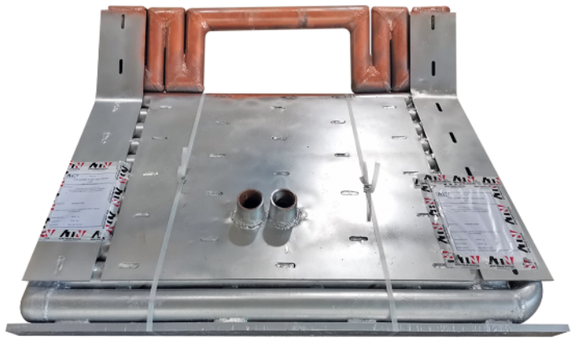
Kuzey Amerika, Avrupa, Ortadoğu ve Afrika bölgesinde birçok ülkeye ihracat.

Üretim faaliyetlerine ilave olarak bölgesel temsilcilik ve danışmanlık hizmetleri.

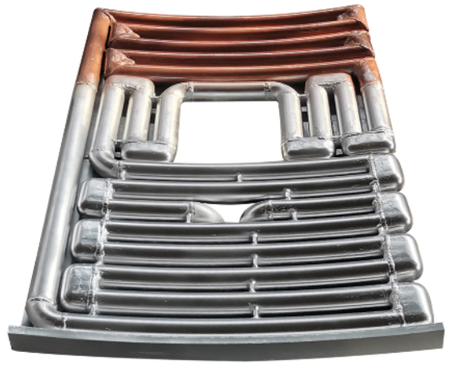
MELTSHOP EQUIPMENTS
ÇELİKHANE EKİPMANLARI

ATN TECH offers a varity of steel melthop spare parts equipments for EAF, Laddle Furnace, CCM, Fume Treatment Systems, Billet Transfer Systems and Scrap Handling.

Manisa Muradiye Sanayi Bölgesi'nde yer alan 1200 m2 kapalı ve 1000 m2 açık alana sahip tesisimizde her türlü Çelikhane Ekipmanı imalatını başarı ile gerçekleştirmekteyiz.

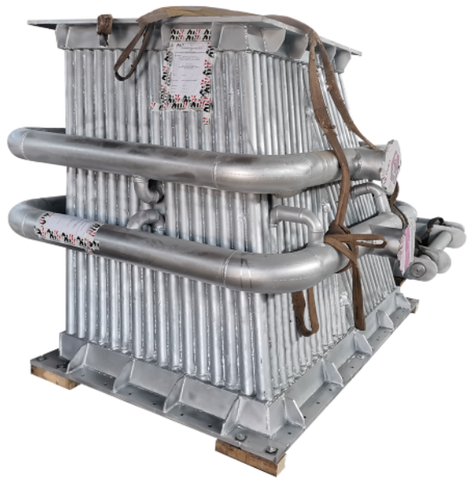


EAF Water Cooled Upper Shell Panel
EAF Su Soğutmalı Gövde Paneli



EAF Water Cooled Copper and Steel Upper Shell
EAF Su Soğutmalı Bakır+Çelik Gövde Paneli

EAF Water Cooled Dust Dedusting Channel
EAF Su Soğutmalı Toz Tutma Hava Emiş Kanalı



EAF Water Cooled Reduction for Dust Dedusting
EAF Su Soğutmalı Toz Tutma Redüksiyon

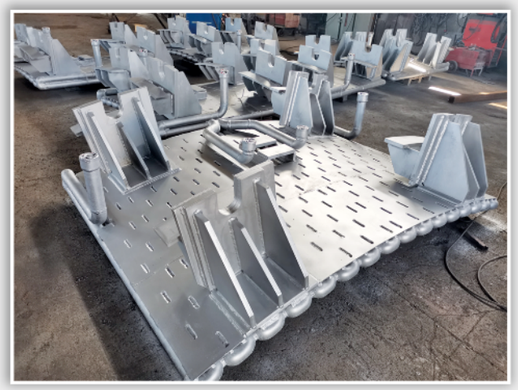
EAF Water Cooled EBT
Panel Copper and Steel
EAF Su Soğutmalı
Bakır+Çelik EBT Paneli

Water Cooled Damper
Su Soğutmalı Baca Klapesi

EAF Water Cooled Elbow
EAF Su Soğutmalı Dirsek

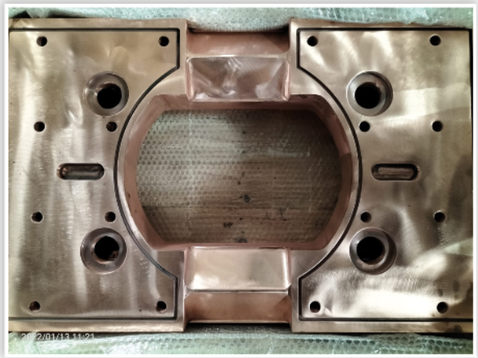
EAF Water Cooled Ring Panel
EAF Su Soğutmalı Ring Panel

EAF Water Cooled Shaft Roof Panel
EAF Su Soğutmalı Şaft Üst Kapak Paneli



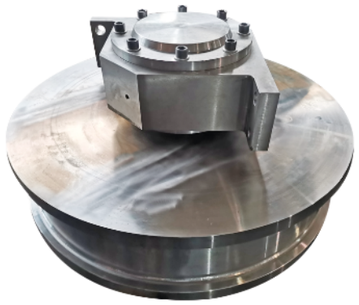
EAF Water Cooled Refractory Panel
EAF Su Soğutmalı Refrakter Panel

EAF Water Cooled Upper Shell Copper and Steel Wall Panel
EAF Su Soğutmalı Bakır+Çelik Gövde Paneli



EAF Contact Plate
EAF Elektrot Temas Plakası ve Elektrot Tutucuları

EAF Copper Ground Connection
EAF Elektrot Bağlantı Kolları



Laddle Transfer Car Assembly
Pota Arabası Teker Grubu

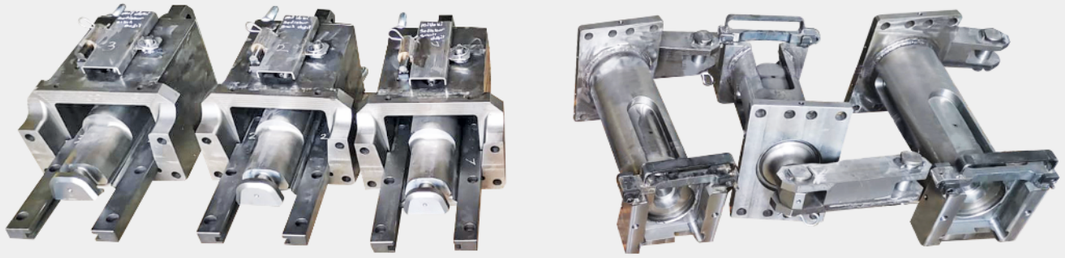
Tundish
Tandis

Tundish Jig
Tandis Tuğla Örme Şablonu

Water Cooled Laddle Furnace Cover
Su Soğutmalı Pota Ocak Kapağı

Dummy Bar
Manken Kafası

SCRAP BUCKET 42 M3
Hurda Şarj Sepeti



Ladle Slide Gate Mechanism
Pota Sürgü Mekanizması

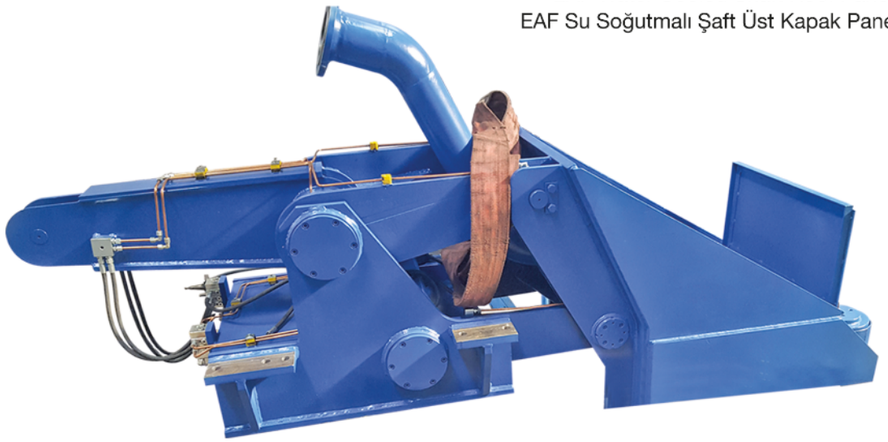
Meltshop Billet Transfer Roller Way
Kütük Transfer Role Masası

Laddle Tilting Arm
Pota Devirme Aparatı

CCM Driver
Sürekli Döküm Kütük Sürücüsü

EAF Crane Hook
Lamelli Vinç Kancası

EAF Water Cooled Shaft Roof Panel Delivery
EAF Su Soğutmalı Şaft Üst Kapak Paneli Yüklemesi



Oscillation System for CCM
Sürekli Döküm Osilasyon Tablası

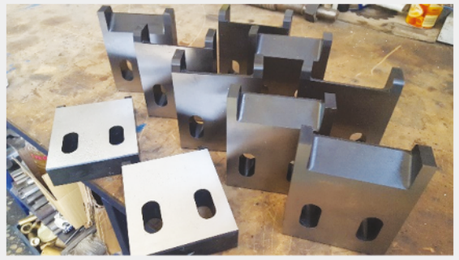
ROLLING MILL EQUIPMENTS
HADDEHANE EKİPMANLARI

Iron & Steel working's Choice...
for Shear Satisfaction Atn Tech BLADES

Discover the difference ATN TECH shear blades can make in your production shearing operation.
You'll get optimum performance and extended blade life resulting in more tons per edge.
You'll also get higher productivity as machine downtime for blade changes is significantly reduced.

- Premium Quality Blades are manufactured from the finest steel alloys.
- Many material grades to suit individual shearing applications.
- Precisely heat treated in Vacuum Atmosphere Controlled Furnaces to provide the best features.
- Cold Shear Blades, Flying Shear Blades, Crop Shear Blades, Plate Mill Blades up to 1400 mm in length
- START SAVING TODAY AS SELECTING ATN TECH BLADES FOR YOUR NEEDS

We offer the following shear blade grades to cover the most shearing applications possible :



ATN Ultra-Cut - Premium grade Cr-Mo-V alloyed special steel, secondary hardenable, very high toughness, good compressive strength, very high wear resistance also at high temperatures providing maximum life between regrinds. when cutting mild steel up to 8 mm thick on mechanical shears. This grade is also ideal for shearing mild steel up to 10 mm thick on hydraulic shears, due to the lack of impact and a slower cutting action. For shearing stainless steels, most OEM's recommend that you reduce stated capacities by 50%.

ATN Super-Cut - Premium grade Cold Work Tool Steels or Hot Work Tool Steels with good through hardenability, good polishability and excellent toughness combined with excellent shock resistance making them equally suitable for shearing high tensile, heavy cross section steels as well. Our technical staff can provide application assistance for these alloys in order to determine the correct alloy and hardness range.

ATN Fine-Cut - Premium grade Cold Work Tool Steels or Hot Work Tool Steels and High Speed Steels. Our technical staff can provide application assistance for these alloys in order to determine the correct alloy and hardness range.

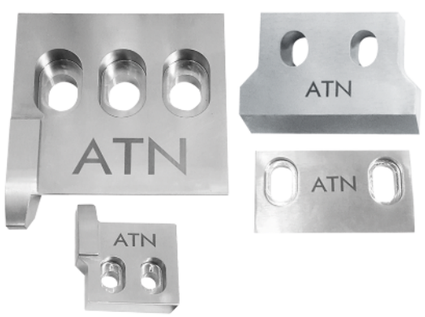
MAKAS BIÇAKLARI

Kullanımda farklılık yaratan **ATN TECH Makas Bıçakları** ile daha yüksek dayanım, daha uzun kesme ömrü ve daha az duruş.

- Avrupa menşeli en yüksek kaliteli çelik alaşımlarından imal edilir.
- Farklı uygulamalar için farklı alaşım ve ısıl işlem reçeteleri.
- En iyi mekanik özellikler için Vakum Atmosfer Kontrollü fırınlarda ısıl işlem.
- Soğuk makas bıçakları, Uçar makas bıçakları, Uç-Baş makası bıçakları, Sac haddesi bıçakları ve birçok farklı sektör için kullanılan bıçaklar için farklı kalınlık ve tiplerde 1400 mm uzunluğa kadar ürün segmenti.
- Uygun fiyat ve yüksek performans.

3 ana ürün tipi ile farklı sektörlere hizmet vermekteyiz.

ÜRÜN KODU	MALZEME CİNSİ	MALZEME ÖZELLİĞİ	KULLANIM YERİ
ATN Ultra-Cut	Yüksek Cr,Mo,V alaşımlı özel takım çelikleri	Basma mukavemeti ve sıcak aşınma dayanımı çok iyidir. Çekme mukavemeti yüksektir. Sertlik derinliği yüksektir.	Uçar Makas ve Uç-Baş Makası bıçakları
ATN Super-Cut	Cr,Mo,V alaşımlı sıcak iş takım çelikleri ve düşük karbonlu Cr,Ni,Mo alaşımlı soğuk iş takım çelikleri	Isıl şoklara karşı dayanımı yüksektir, yüksek seviyedeki saflığı ve iç yapı homojenliği sebebi ile çok iyi mekanik dayanım gösterir.	Soğuk makas bıçakları
ATN Fine-Cut	Yüksek karbonlu ve yüksek Cr,Mo,V alaşımlı soğuk iş takım çelikleri	Yüksek aşınma dayanımı ve yüksek tokluğa sahip olduğundan özel kesme uygulamaları ve sac kesimleri için çok uygundur.	Soğuk makas bıçakları, diğer özel kesim uygulamaları



K-Bolt® Composite Rolls

This roll system has been developed with the purpose to overcome the poblems and difficulties experienced in hydraulic locked composite rolls. Using of K-Bolt® Composite Rolls in long product steel mills is very easy and a smart choise instead of using of hydraulic locked Composite Rolls. Locking operation is carried out by a special bolt system instead of hydraulic way. Besides easy Assembly& disassembly, the most important feature of this system is eliminating of easing of the carbide rings and so the cracks and the defects and the material lost.
Not only to finishing stand rolls, it also can be applied to intermediate group rolls with neded clamping forces.
Shaft/Arbour is made of high tensile forged AISI 4140 steel, all the shafts are certified metallurgically and phsically including crack inspection results.
Major advantages of the system;

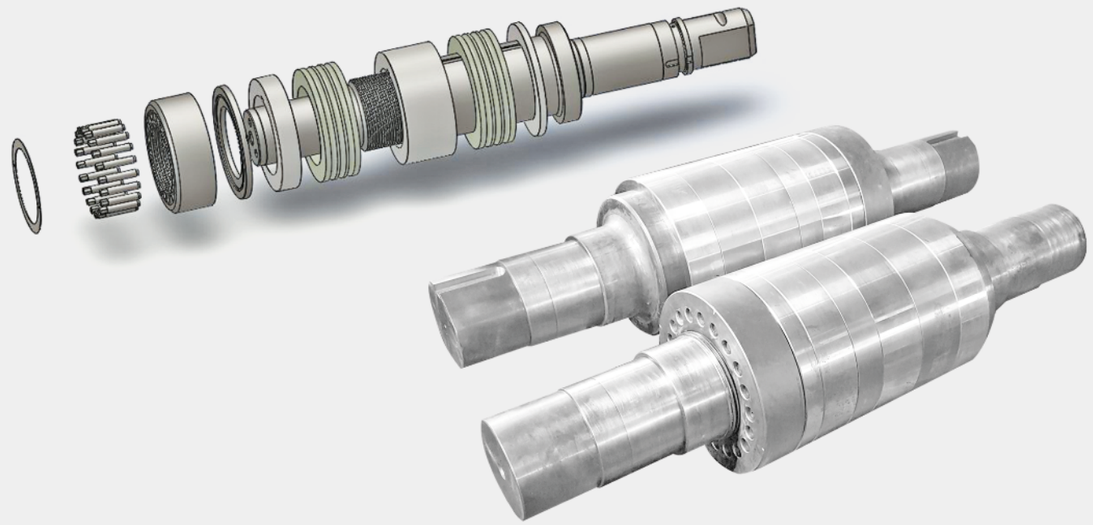
- Less easing/rotating of the rings on the shafts, so less defects on the carbide rings and cost saving from the material
- Very easy Assembly / disassembly of the rings to the shafts
- No need for Hydraulic pump and other special equipments like seal, teflon and etc..Only a Standard torque wrench toll is needed during assembly
- It also can be applied to intermediate group rolls with neded clamping forces
- Less force is needed for the similar applications comparing with hydraulic locking
- Lower operating costs because lock nuts can be used over and over
- The safety risks that may occur due to the high hydraulic pressures in the hydraulic locking systems are not seen in this system.

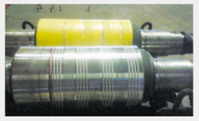
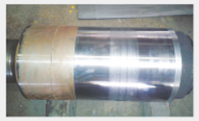
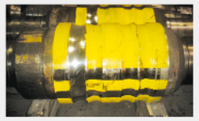
K-Bolt® Composite Merdaneler

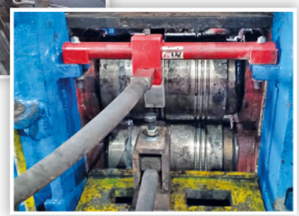
Bu sistem hidrolik kilitlemeli kompozit merdanelerde yaşanan problem ve zorlukların giderilmesi amacı ile geliştirilmiştir. Özellikle uzun mamül üretimi yapılan haddelerde kullanımı oldukça ekonomik ve pratik olmaktadır. Kilitleme işlemi, hidrolik yerine, özel bir cıvata sistemi tarafından yapılmaktadır. Montaj/demontaj kolaylığı sağlayan bu sistemin en büyük özelliği, bu uygulamalardaki genel problem olan ring dönmesi, çatlama ve kırılma ihtimalinin çok düşük olmasıdır. İstenen kilitleme kuvvetlerine çok rahat ulaşılabildiği için, haddelerdeki yüksek redüksiyona sahip ara grup merdanelerine de çok rahat uygulanabilmektedir. Şaft malzemesi olarak sertifikalı ve çatlak kontrolünden geçirilmiş dövme 4140 çelik kullanılmaktadır.
Sistemin başlıca avantajları ;

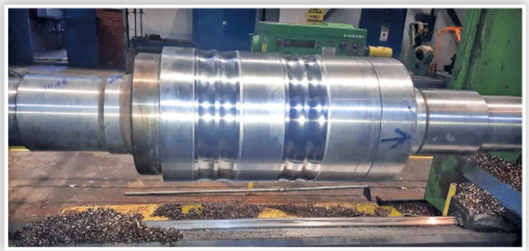
- Tasarımı sayesinde daha az ring dönme, çatlama, kırılma ihtimali.
- Montaj/demontaj kolaylığı
- Montaj/demontaj esnasında hidrolik pompa, teflon keçe v.s gibi özel bir ekipmana ihtiyaç duyulmaması. (Sadece montaj esnasında standart tork anahtarı kullanılmaktadır.)
- Uygulamaya göre çok yüksek kilitleme kuvvetlerine uygulanabilme. Bu sayede yüksek redüksiyonlu ara grup merdanelerine de uygulanabilme.
- Hidrolik kilitleme sistemine göre, benzer uygulamalar için daha az kuvvet gereksinimi.
- Kilit somunları tekrar kullanılabildiği için işletme maliyeti düşüktür.
- Hidrolik kilitlemeli sistemlerde çok yüksek hidrolik basınçları ile çalışıldığı için oluşan iş güvenliği riski bu sistemde bulunmamaktadır.

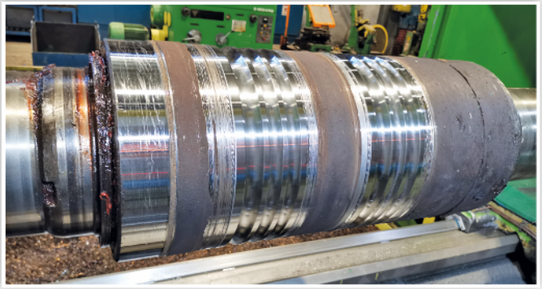
K-Bolt® Composite Rolls Application Examples
Uygulama Örnekleri

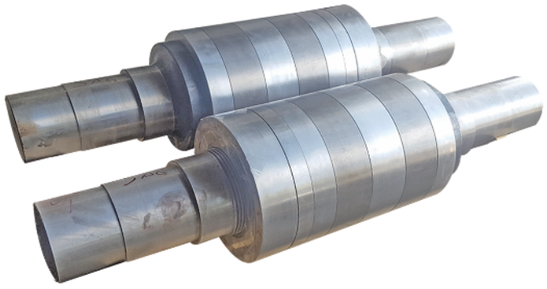


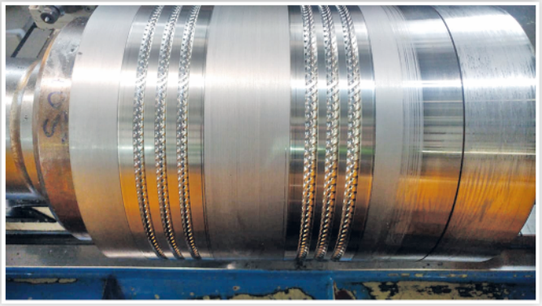
	Type of Mill Product Stand No	Roll Type	Rolling Speed (m/s)	Performance (Ton)	Dressing Amount (mm)
	Rebar Mill N8x4 Stand 14 (Finish)	Cast Iron	11	240	2,5
		ATN Tech WC Composite		2600	1
	Rebar Mill N12x2 Stand 16 (Finish)	Cast Iron	12,5	320	4
		ATN Tech WC Composite		3000	1,2
	Rebar Mill N12x2 N14x2 Stand 15 (Flat Leader)	Cast Iron	10	1500	4
		ATN Tech WC Composite		4500	1
	Wire Rod Mill Ø5,5 mm Stand 16 (Finish Round)	Cast Iron	9,5	1200	3,5
		ATN Tech WC Composite		2600	1
	Wire Rod Mill Ø5,5 mm Stand 9 (Intermediate Oval)	Cast Iron	2,1	2000	6,5
		ATN Tech WC Composite		5000	2

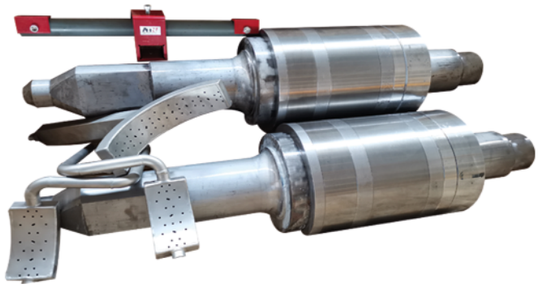






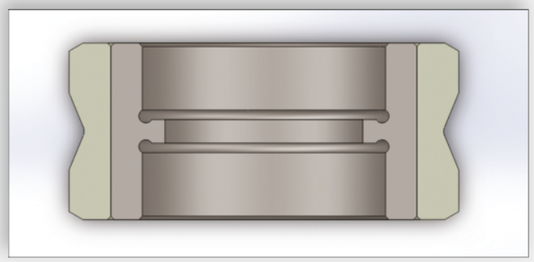


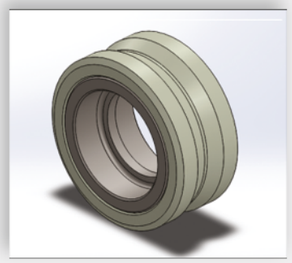




K-Roll® Guide Roller & Monoblock Roller

K-ROLL® Rollers are a unique solution that combines the machinability and toughness of the steel and Wolfram Carbide's superior wear resistance. This solution is the result of the fixing of the WC sleeve on the steel body by a very special method.
WC Guide Rollers have been developed for applications where the performance of rollers made of tool steels is inadequate. But the machining difficulty, high unit weight and high cost of the Wolfram Carbide have greatly limited their use. K-Roll® Rollers largely eliminate these negative aspects.

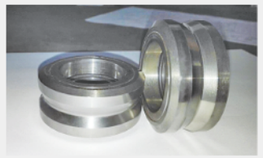




Major Benefits of K-Roll® Rollers ;

- Up to 10 times more lasting time.
- Unit cost advantage over tool steel rollers.
- Less stoppage time in the rolling mill .
- Easy machining of the bearing cases due to the steel body.
- Advantage of revision cost compared to TiC rollers.
- Positive effect on material quality, especially in the production of quality steel.

K-Roll® Rollers Application Examples ;

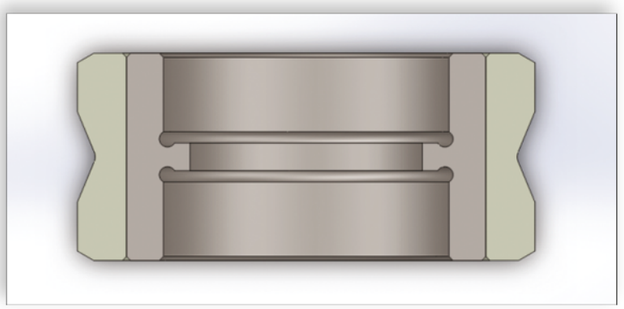


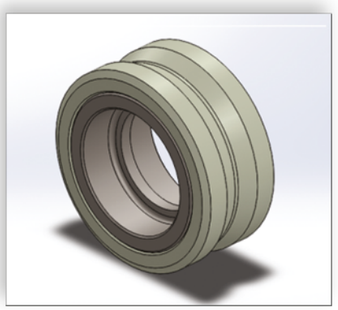
TYPE OF GUIDE ROLLER	MATERIAL	MAX. - MİN. Ø (mm)	DRESSING AMOUNT (mm)	QTY. OF WORKS	AVERAGE PERFORMANCE (Ton)	TOTAL PERFORMANCE (Ton)	PERFORMANCE VALUE (Ton/mm)
Monoblok Guide Roller (Ø5,5mm - 85 m/s)	Tool Steel (DIN 1.2436)	56-53	0,7	5	650	3250	1083,3
	ATN Tech K-Roll®	56-53	0,45	7	7000	49000	16333,3

TYPE OF GUIDE ROLLER	MATERIAL	MAX. - MİN. Ø (mm)	DRESSING AMOUNT (mm)	QTY. OF WORKS	AVERAGE PERFORMANCE (Ton)	TOTAL PERFORMANCE (Ton)	PERFORMANCE VALUE (Ton/mm)
Finishing Train Guide Roller (Ø16-20mm - 13 m/s)	Tool Steel (DIN 1.2436)	60-56	2	3	700	2100	525,0
	ATN Tech K-Roll ®	60-56	1	5	5000	25000	6250,0

K-Roll® Yolluk Makarası

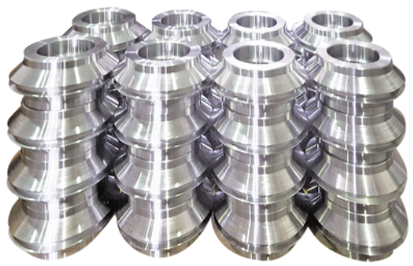
K-ROLL® Yolluk Makaraları, çeliğin işlenebilirliği ve tokluğu ile Wolfram Karbürün üstün aşınma kabiliyetini birleştiren bir çözümdür. Bu çözüm, WC bileziğin, çelik gövde üzerine, özel bir yöntemle geçirilmesi ve birleştirilmesi sonucu oluşmaktadır.
WC yolluk makaraları takım çeliklerinden yapılan makaraların performanslarının yetersiz kaldığı uygulamalar için ortaya çıkmışlardır. Ama Wolfram Karbürün işleme zorluğu, yüksek birim ağırlığı ve yüksek maliyeti, kullanımlarını büyük ölçüde sınırlamıştır. K-Roll makaraları bu olumsuz yönleri büyük oranda ortadan kaldırmaktadır.



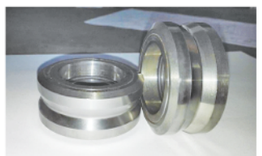


K-ROLL® makaralarının başlıca faydaları;

- 10 kata kadar daha uzun ömür.
- Takım çeliği makaralara göre birim maliyet avantajı.
- Makara kaynaklı hadde duruşlarında azalma.
- Gövdenin çelik olması sayesinde rulman yuvalarının kolay işlenebilmesi.
- TiC makaralara göre revizyon maliyeti avantajı.
- Özellikle kaliteli çelik üretiminde malzeme kalitesine olumlu etki.



K-ROLL® makara uygulama örnekleri;



TYPE OF GUIDE ROLLER	MATERIAL	MAX. - MİN. Ø (mm)	DRESSING AMOUNT (mm)	QTY. OF WORKS	AVERAGE PERFORMANCE (Ton)	TOTAL PERFORMANCE (Ton)	PERFORMANCE VALUE (Ton/mm)
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	ATN Tech K-Roll®	56-53	0,45	7	7000	49000	16333,3

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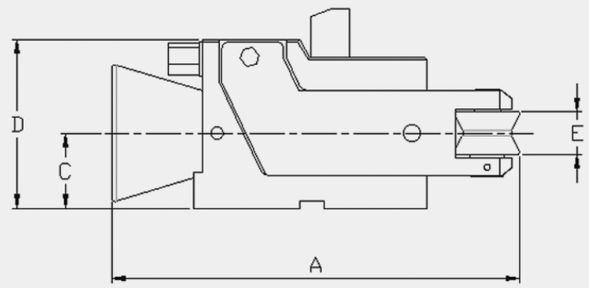
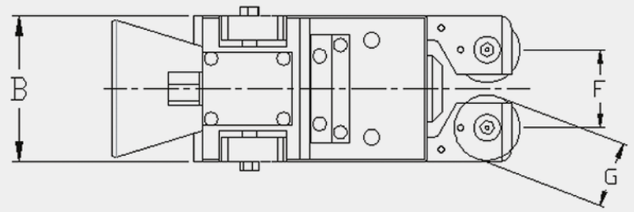
	ATN Tech K-Roll ®	60-56	1	5	5000	25000	6250,0

GUIDE SYSTEMS / YOLLUKLAR

Entry Roller Guides / Makaralı Giriş Yollukları

ATN TECH Roller Guides have become a preferred product in the iron and steel industry with it's rigidity, ease of use and quality. ATN TECH Entry Roller Guides are designed and innovated as per end-user's requirements, thanks to our design engineers who have also been experienced for a long time in the Rolling mill plants. Entry Roller Guides Design Datas and Product Codes are shown at below ;





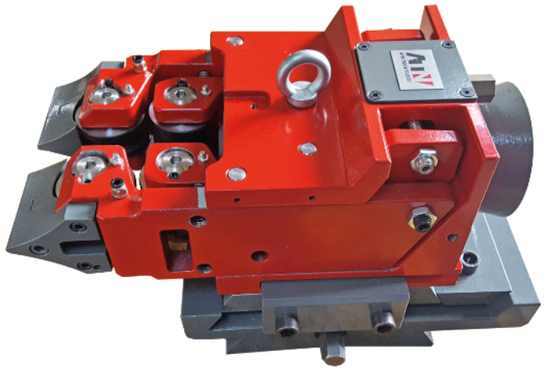
Guide Type	A	B	C	D	E	F max/min	G max/min	Weight (kg)
ATN RE-25	275	92	46	105	25	62/48	56/50	11,5
ATN RE-35	348	125	62,5	140	35	68/52	64/56	24
ATN RE-60	398	160	80	160	60	90/60	78/64	43,5
ATN RE-75	440	175	95	220	75	108/69	88/70	65
ATN RE-90	460	190	110	240	90	125/78	96/76	98

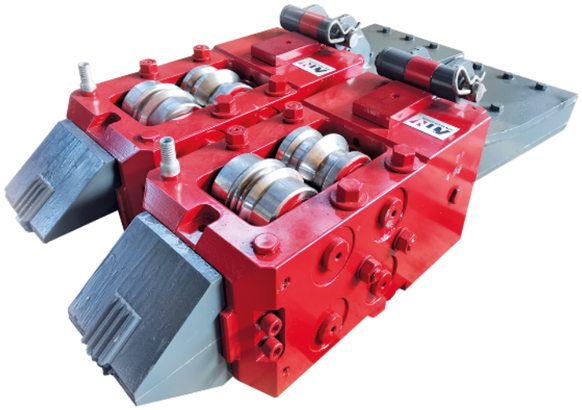
ATN Tech Roller Guides features are ;

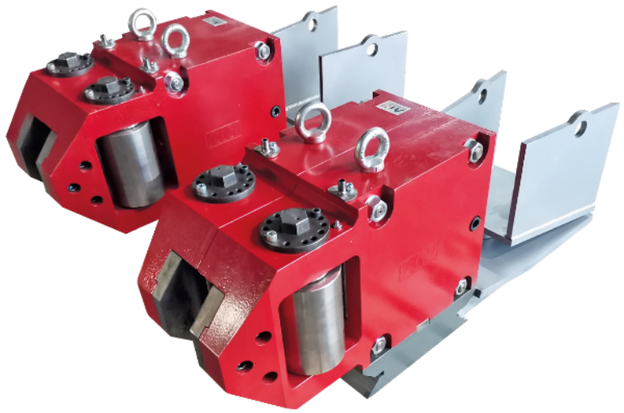
- For Finishing and Intermediate Mill Stands.
- Single point symmetrical leaf adjustment mechanism.
- Spring loading.
- Water cooled rollers.
- Lubrication directly to roller pin.
- Single Point water and oil connection (Optional)

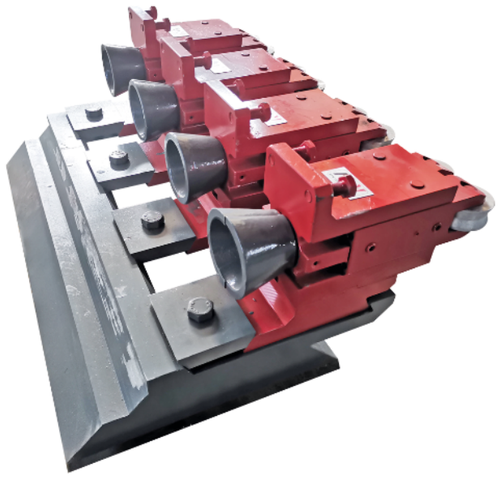
ATN Tech Roller Guides are made of below Materials ;

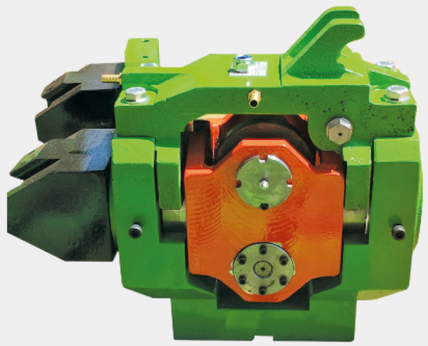
- Body and Leafs : Cast Stainless Steel (DIN 1.4317)
- Static : Cast Stainles Steel (DIN1.4310)
- Rollers : Cold Work Tool Steel (DIN 1.2436 or DIN 1.2379)
- Leaf and Roller Pins : Stainless Steel (DIN 1.4021)
- Springs : Stainles Spring Steel
- Guide Foot : Mild Carbon Steel

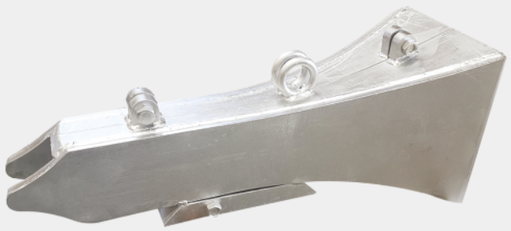




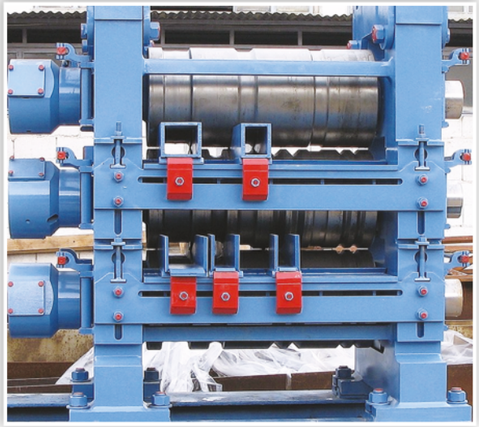




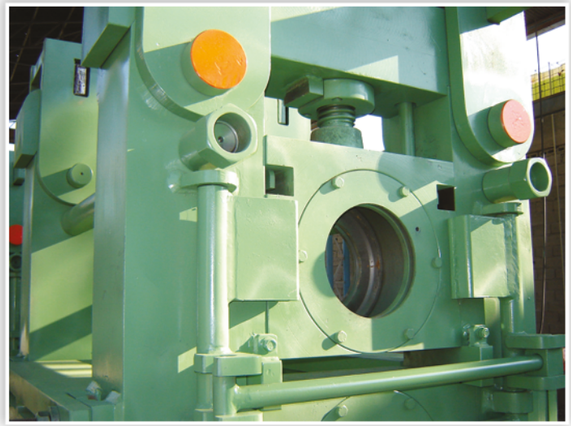




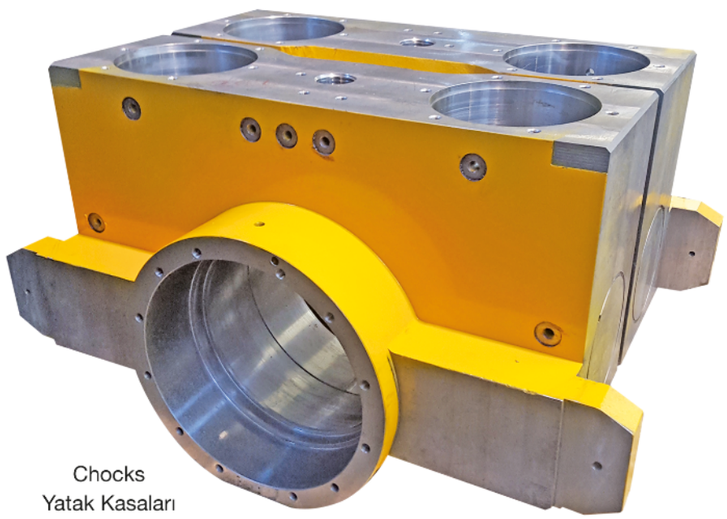
VARIOUS PRODUCT PICTURES
ÇEŞİTLİ ÜRÜN RESİMLERİ



3 Hi Mill
Trio Hadde Standı



Universal Type Duo Stand
Duo Hadde Standı

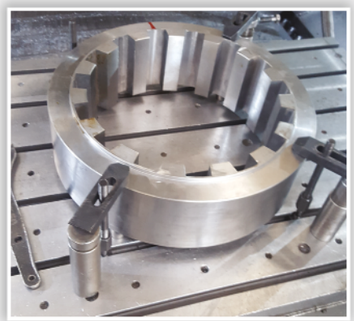


Chocks
Yatak Kasaları

Labyrinth Rings
Labirent Ringler

Pinch Rolls
Baskı Makaraları

Gear Coupling
Dişli Kaplin



Gear Coupling
Dişli Kaplin

Pinion Shaft
Pinyon Şaft

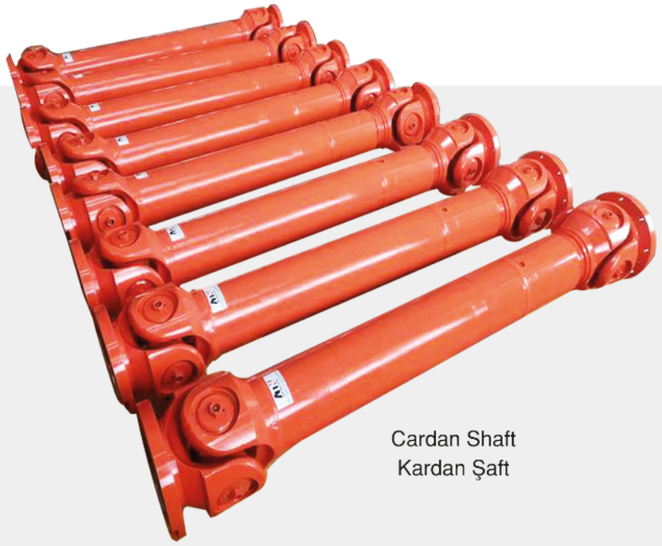
Spindle Support
Şaft Tutucular

Spindle Support Chocks
Şaft Tutucu Yatakları

Cooling Platform Cassettes / Soğutma Platformu Kasetleri

Crane Wheel
Vinç Tekeri

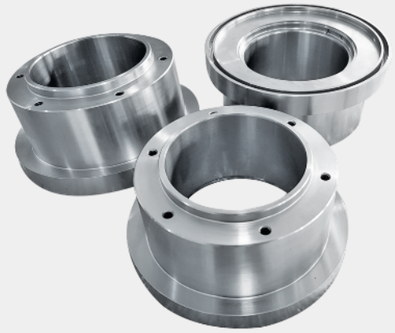
Crane Shafts
Vinç Şaftları



Cardan Shaft
Kardan Şaft

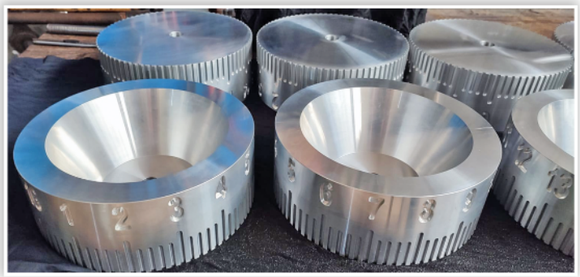
Roller Shaft
Merdane Şaftı

Monoblock Taper Sleeve
Monoblok Konik Burc



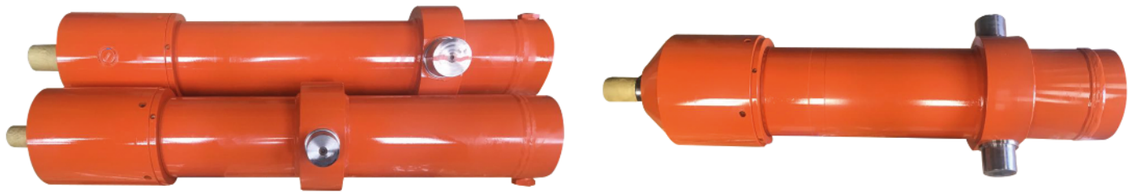
Monoblock Roll Holders
Monoblok Merdane Tutucu

Roll Cooling Manifolds with Nozzles
Merdane Soğutma Nozul Sistemleri

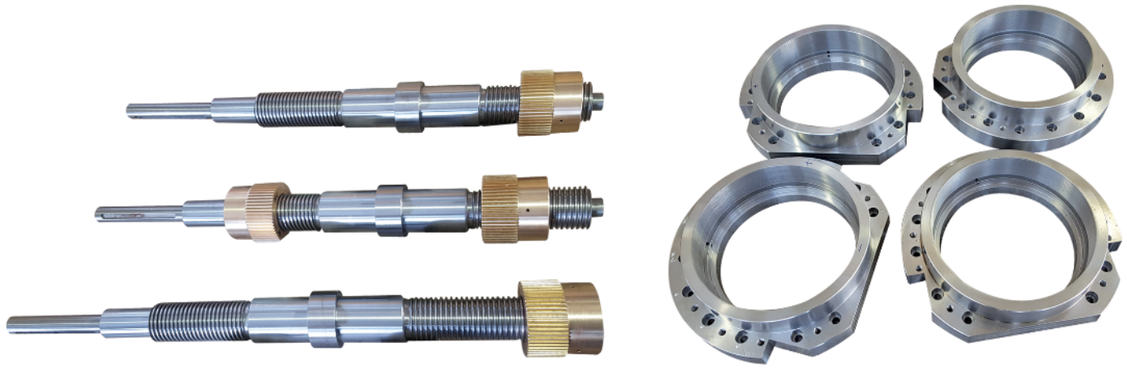


Roll Gap Indicator
Merdane Hava Boşluğu Ayar Göstergesi

Stand Hyd Clamps
Stand Hidrolik Kilitlemeler



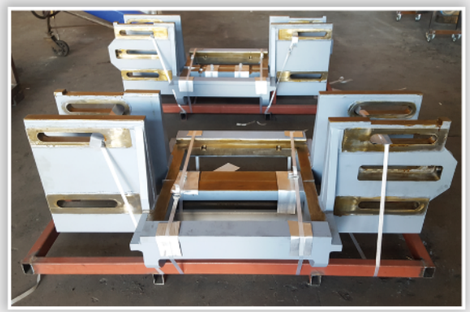
Mill Stand Cylinders
Hadde Tezgahı Hidrolik Silindirleri



Mill Stand Parts
Hadde Tezgahı Yedek Parçaları

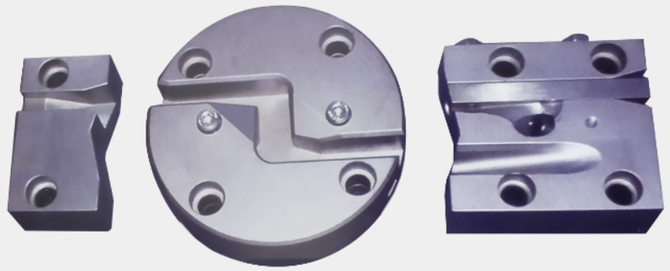
Tempcore Cooling Zones
Tempcore Soğutma Bölgeleri

Tempcore Cooling Zones
Tempcore Soğutma Bölgeleri

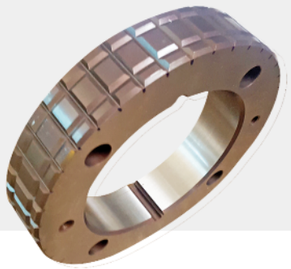


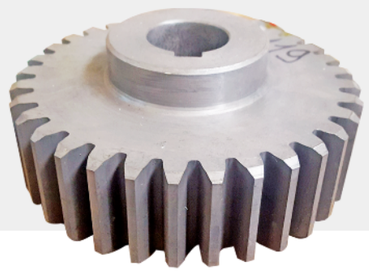
Rest Bar
Balkon Demiri

Guide Hangers
Yolluk Askıları

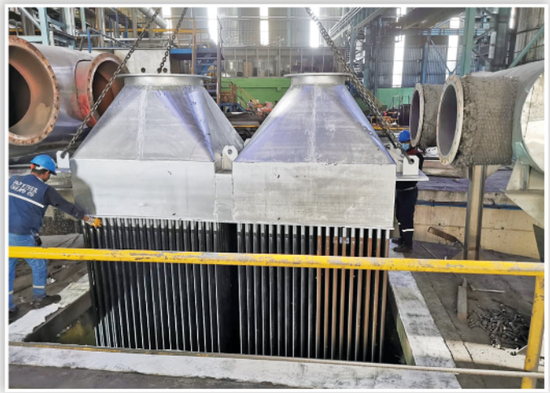


Binding Machine Parts
Bağlama Makinesi Parçaları

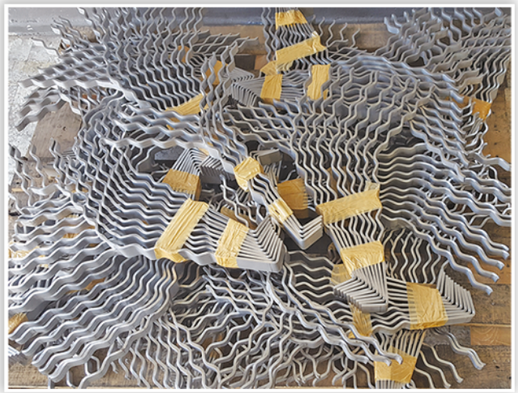




Heating Furnace Parts / Haddehane Tav Fırını Ekipmanları



Heating Furnace Recuperator
Hadde Tav Fırını Rekuperatoru



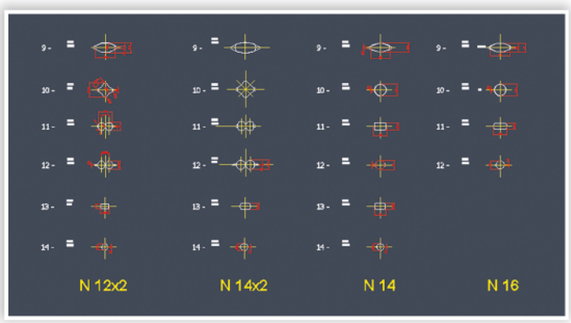
Refractory Anchors
Refrakter Askı Aparatları

Furnace Lifting Cylinder
Kaldırma Silindiri

Furnace Pusher Cylinder
İtici Silindir

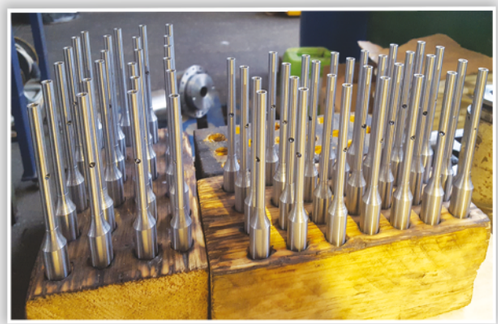
Moveable Rest Bar and Designing Works / Hareketli Balkon Demiri ve Mühendislik Dizaynlar

Movable Rest Bar
Hareketli Balkon Demiri



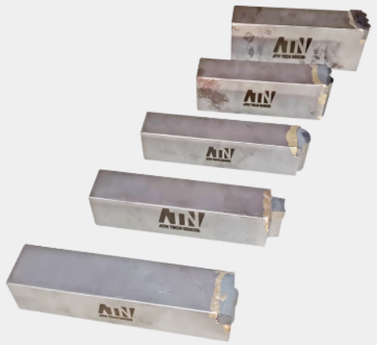
Pass Design Woks
Merdane Paso Dizaynı

Cutting Inserts and Tool Holders / Kesme Uçları ve Uç Tutucular



Notching Tool Holders
Nervür Baraları

Ceramic Tools
Seramik Tornalama Uçları



Welded Tools
Kaynaklı Katerler

PCD Marking Tools
PCD Markalama Uçları

CBN Tools
CBN Tornalama Uçları

Notching Tools / Nervur Uçları

Notching Tool Holders / Nervür Baraları