

# MİKSAN®

*Hızlı Bağlama Sistemleri*

MİKSAN bir **ER-EL** markasıdır.

**Bağlama ekipmanlarında  
kalite üretiyoruz..**

*"We produce quality in clamping equipment"*



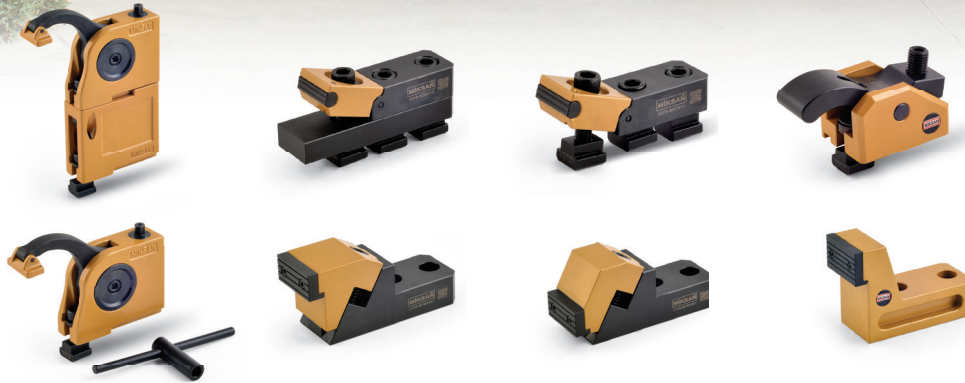
[www.er-el.com.tr](http://www.er-el.com.tr)



# MIKSAN®

## Hızlı Bağlama Sistemleri

MIKSAN bir **ER-EL** markasıdır.



30 yıldır ülkemizde ve Yurtdışında kalıp bağlama elemanları üreticisi olarak sektöre hizmet veren MIKSAN Hızlı Bağlama Sistemleri firması 15.Ekim.2019 tarihi itibariyle satın alınarak ER-EL Kalıp Bağlama ve İşleme Sistemleri

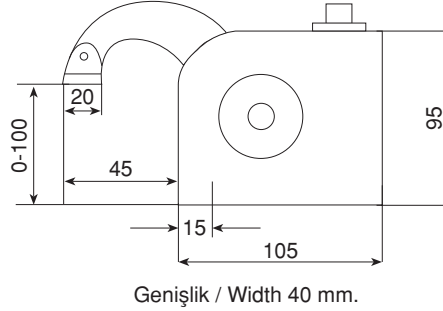
*MIKSAN Fast Coupling Systems company which has been serving to the sector as a manufacturer of mold fasteners in our country and abroad for 30 years has been purchased as of 15th of October, 2019 and ER-EL Mold Clamping and Processing Systems has joined our company.*

*MIKSAN products which are ER-EL brand; Our company will continue to serve with quality and assurance.*



| Referans Nr.  | a  | Sıkma Kuvveti<br>Clamping Force (Kgf) | Nm  | (kg) |
|---------------|----|---------------------------------------|-----|------|
| 1168-MB101112 | 12 | 1000                                  | 160 | 1.70 |
| 1168-MB101114 | 14 | 1000                                  | 160 | 1.70 |
| 1168-MB101116 | 16 | 1000                                  | 160 | 1.70 |
| 1168-MB101118 | 18 | 1000                                  | 160 | 1.70 |
| 1168-MB101120 | 20 | 1000                                  | 160 | 1.70 |

Ürün Nr. 1168 Kombine Bağlama Pabucu  
Product Nr. 1168 Combined Clamp



Genişlik / Width 40 mm.

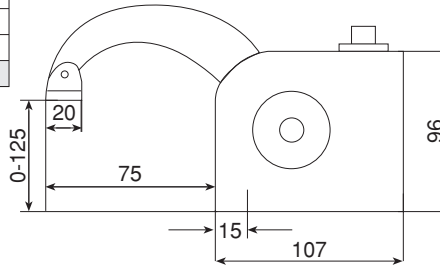


## Kombine Bağlama Pabucu

Combined Clamp

| Referans Nr.   | a  | Sıkma Kuvveti<br>Clamping Force (Kgf) | Nm  | (kg) |
|----------------|----|---------------------------------------|-----|------|
| 1168-MBU103112 | 12 | 1000                                  | 160 | 1.80 |
| 1168-MBU103114 | 14 | 1000                                  | 160 | 1.80 |
| 1168-MBU103116 | 16 | 1000                                  | 160 | 1.80 |
| 1168-MBU103118 | 18 | 1000                                  | 160 | 1.80 |
| 1168-MBU103120 | 20 | 1000                                  | 160 | 1.80 |

Ürün Nr. 1168 Kombine Bağlama Pabucu  
Product Nr. 1168 Combined Clamp



Genişlik / Width 40 mm.

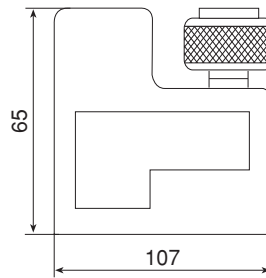


## Kombine Bağlama Pabucu Alt Destek

Combined Clamp Bottom Support

| Referans Nr. | a  | (kg) |
|--------------|----|------|
| 1168-MK1021  | 16 | 1.80 |

Ürün Nr. 1168 Kombine Bağlama Pabucu Alt Destek  
Product Nr. 1168 Combined Clamp Bottom Support



Genişlik / Width 40 mm.

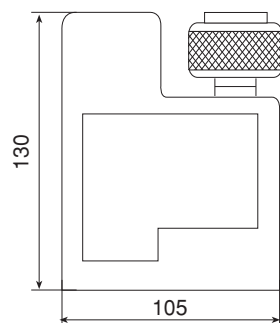


## Kombine Bağlama Pabucu Alt Destek

Combined Clamp Bottom Support

| Referans Nr. | a  | (kg) |
|--------------|----|------|
| 1168-MK1022  | 16 | 1.10 |

Ürün Nr. 1168 Kombine Bağlama Pabucu Alt Destek  
Product Nr. 1168 Combined Clamp Bottom Support



Genişlik / Width 40 mm.

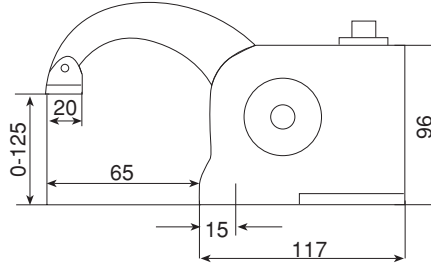


Uygulama Örneği  
Example Application



| Referans Nr.   | a  | Sıkma Kuvveti<br>Clamping Force (Kgf) | Nm  | (kg) |
|----------------|----|---------------------------------------|-----|------|
| 1168-MFB204112 | 12 | 1000                                  | 160 | 1.70 |
| 1168-MFB204114 | 14 | 1000                                  | 160 | 1.70 |
| 1168-MFB204116 | 16 | 1000                                  | 160 | 1.70 |
| 1168-MFB204118 | 18 | 1000                                  | 160 | 1.70 |
| 1168-MFB204120 | 20 | 1000                                  | 160 | 1.70 |

Ürün Nr. 1168 Kombine Bağlama Pabucu  
Product Nr. 1168 Combined Clamp



Genişlik / Width 40 mm.



## Kombine Bağlama Pabucu Alt Destek

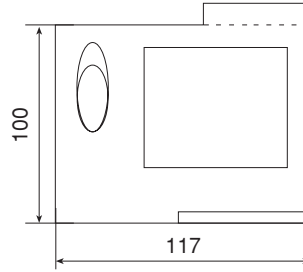
Combined Clamp Bottom Support

| Referans Nr.   | a  | (kg) |
|----------------|----|------|
| 1168-MFK204212 | 12 | 0.80 |
| 1168-MFK204214 | 14 | 0.80 |
| 1168-MFK204216 | 16 | 0.80 |
| 1168-MFK204218 | 18 | 0.80 |
| 1168-MFK204220 | 20 | 0.80 |

Ürün Nr. 1168 Kombine Bağlama Pabucu  
Product Nr. 1168 Combined Clamp



Uygulama Örneği  
Example Application



Genişlik / Width 40 mm.

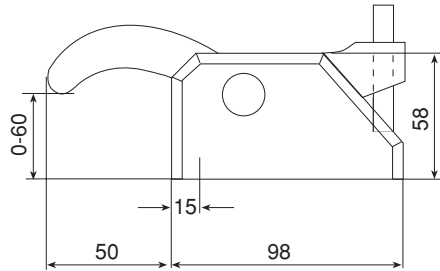
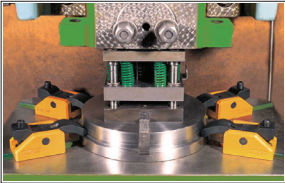


## Kombine Bağlama Pabucu

Combined Clamp

| Referans Nr.   | a  | Sıkma Kuvveti<br>Clamping Force (Kgf) | Nm  | (kg) |
|----------------|----|---------------------------------------|-----|------|
| 1168-MEP501116 | 16 | 2000                                  | 110 | 2.80 |
| 1168-MEP501118 | 18 | 2000                                  | 110 | 2.80 |
| 1168-MEP501120 | 20 | 2000                                  | 110 | 2.80 |
| 1168-MEP501122 | 22 | 2000                                  | 110 | 2.80 |
| 1168-MEP501124 | 24 | 2000                                  | 110 | 2.80 |

Ürün Nr. 1168 Kombine Bağlama Pabucu  
Product Nr. 1168 Combined Clamp



Genişlik / Width 72 mm.



## Kombine Bağlama Pabucu Alt Destek

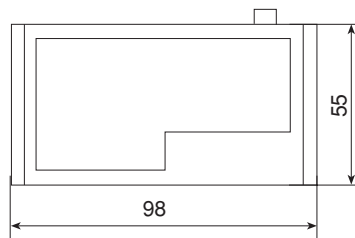
Combined Clamp Bottom Support

| Referans Nr. | a  | (kg) |
|--------------|----|------|
| 1168-MPK5022 | 18 | 0.90 |

Ürün Nr. 1168 Kombine Bağlama Pabucu Alt Destek  
Product Nr. 1168 Combined Clamp Bottom Support



Uygulama Örneği  
Example Application



Genişlik / Width 72 mm.





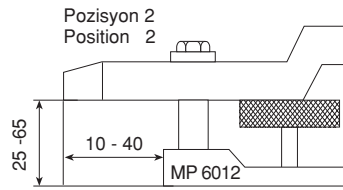
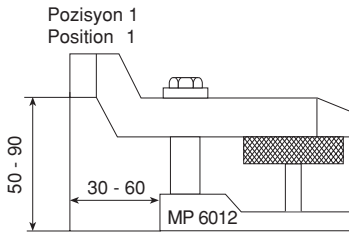
| Referans Nr.  | a  | Sıkma Kuvveti<br>Clamping Force (Kgf) | Nm  | (kg) |
|---------------|----|---------------------------------------|-----|------|
| 1168-MP601214 | 14 | 2000                                  | 130 | 2.50 |
| 1168-MP601216 | 16 | 2000                                  | 130 | 2.50 |
| 1168-MP601218 | 18 | 2000                                  | 130 | 2.50 |
| 1168-MP601220 | 20 | 2000                                  | 130 | 2.50 |

### Ürün Nr. 1168 Kombine Bağlama Pabucu

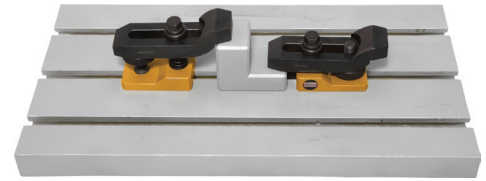
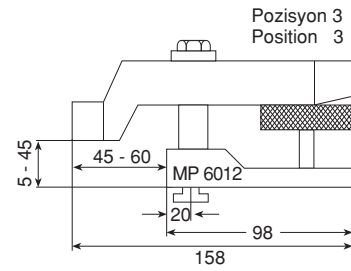
- Pabucun çift taraflı kullanım özelliği; kendi içinde bulunan yükseltici desteği ile kısıtlı alanlarda kullanım kolaylığı sağlar.

### Product Nr. 1168 Combined Clamp

- Double-sided usage of the clamp and it's stepped lifter provides using advantage in restricted areas



Genişlik / Width 60 mm.



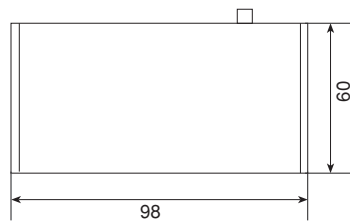
## Kombine Bağlama Pabucu Alt Destek

### Combined Clamp Bottom Support

| Referans Nr.  | a  | (kg) |
|---------------|----|------|
| 1168-MY602114 | 14 | 0.60 |
| 1168-MY602116 | 16 | 0.60 |
| 1168-MY602118 | 18 | 0.60 |
| 1168-MY602120 | 20 | 0.60 |

### Ürün Nr. 1168 Kombine Bağlama Pabucu Alt Destek

### Product Nr. 1168 Combined Clamp Bottom Support



Genişlik / Width 58 mm.

Uygulama Örneği  
Example Application

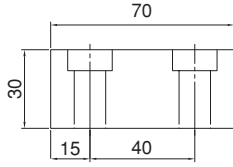
| Referans Nr.   | a  | Sıkma Kuvveti<br>Clamping Force (Kgf) | Nm | (kg) |
|----------------|----|---------------------------------------|----|------|
| 2070-MBS701214 | 14 | 2500                                  | 60 | 3.14 |
| 2070-MBS701216 | 16 | 2500                                  | 60 | 3.14 |
| 2070-MBS701218 | 18 | 2500                                  | 60 | 3.14 |
| 2070-MBS701220 | 20 | 2500                                  | 60 | 3.14 |

### Ürün Nr. 2070 Yandan Bağlama Set

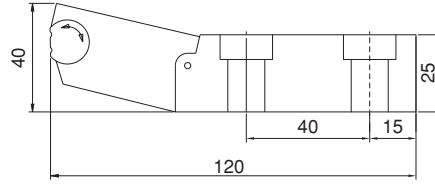
- Mafsallı tasarımıyla düz olmayan yüzeylerde dahi mevcut yüzey şeklini alarak emniyetli bağlama yapar.

### Product Nr. 2070 Side Wrench Set

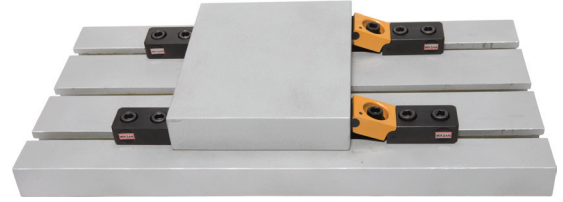
- With its articulated design, it makes safe bonding even on uneven surfaces by taking the existing surface shape.



Genişlik / Width 40 mm.



Genişlik / Width 40 mm.



## Yandan Bağlama Gövde

| Referans Nr.  | a  | (kg) |
|---------------|----|------|
| 2070-MS701114 | 14 | 0.87 |
| 2070-MS701116 | 16 | 0.87 |
| 2070-MS701118 | 18 | 0.87 |
| 2070-MS701120 | 20 | 0.87 |

### Ürün Nr. 2070 Yandan Bağlama Gövde

- Mafsallı tasarımıyla düz olmayan yüzeylerde dahi mevcut yüzey şeklini alarak emniyetli bağlama yapar.

### Product Nr. 2070 Side Press Body

- With its articulated design, it makes safe bonding even on uneven surfaces by taking the existing surface shape.



## Yandan Bağlama Dayama

| Referans Nr.  | a  | (kg) |
|---------------|----|------|
| 2070-MD702114 | 14 | 0.65 |
| 2070-MD702116 | 16 | 0.65 |
| 2070-MD702118 | 18 | 0.65 |
| 2070-MD702120 | 20 | 0.65 |

### Ürün Nr. 2070 Yandan Bağlama Dayama

### Product Nr. 2070 Side Press Stopper



## Yandan Bağlama (Paralelli) Set

Side Wrench Set (With Parallel)

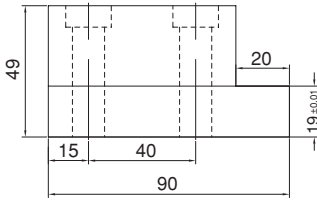
| Referans Nr.   | a  | Sıkma Kuvveti<br>Clamping Force (Kgf) | Nm | (kg) |
|----------------|----|---------------------------------------|----|------|
| 2070-MBS801114 | 14 | 2500                                  | 60 | 6.15 |
| 2070-MBS801116 | 16 | 2500                                  | 60 | 6.15 |
| 2070-MBS801118 | 18 | 2500                                  | 60 | 6.15 |
| 2070-MBS801120 | 20 | 2500                                  | 60 | 6.15 |

### Ürün Nr. 2070 Yandan Bağlama (Paralelli) Set

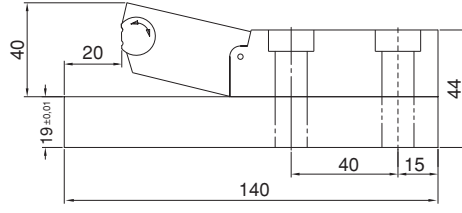
- Mafsallı tasarımıyla düz olmayan yüzeylerde dahi mevcut yüzey şeklini alarak emniyetli bağlama yapar.

### Product Nr. 2070 Side Wrench Set (With Parallel)

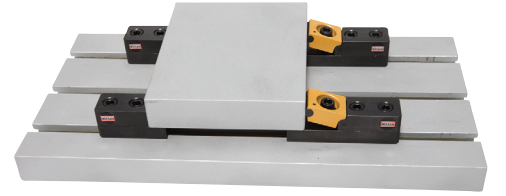
- With its articulated design, it makes safe bonding even on uneven surfaces by taking the existing surface shape.



Genişlik / Width 40 mm.



Genişlik / Width 40 mm.



| Referans Nr.  | a  | (kg) |
|---------------|----|------|
| 2070-MS801214 | 14 | 1.86 |
| 2070-MS801216 | 16 | 1.86 |
| 2070-MS801218 | 18 | 1.86 |
| 2070-MS801220 | 20 | 1.86 |

### Ürün Nr. 2070 Yandan Bağlama Gövde

- Mafsallı tasarımıyla düz olmayan yüzeylerde dahi mevcut yüzey şeklini alarak emniyetli bağlama yapar.

### Product Nr. 2070 Side Press Body

- With its articulated design, it makes safe bonding even on uneven surfaces by taking the existing surface shape.

## Yandan Bağlama Gövde

Side Press Body



| Referans Nr.  | a  | (kg) |
|---------------|----|------|
| 2070-MD802214 | 14 | 1.18 |
| 2070-MD802216 | 16 | 1.18 |
| 2070-MD802218 | 18 | 1.18 |
| 2070-MD802220 | 20 | 1.18 |

### Ürün Nr. 2070 Yandan Bağlama Dayama

### Product Nr. 2070 Side Press Stopper

## Yandan Bağlama Dayama

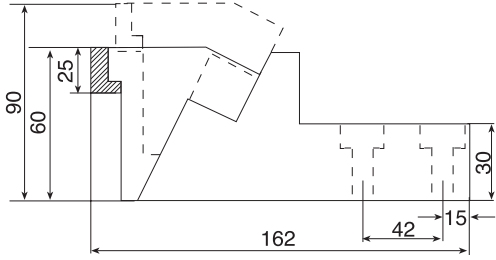
Side Press Stopper



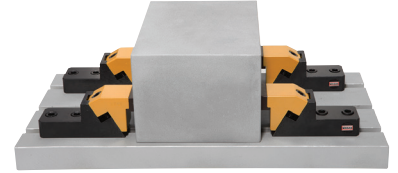


| Referans Nr.   | a  | Sıkma Kuvveti<br>Clamping Force (Kgf) | Nm | (kg) |
|----------------|----|---------------------------------------|----|------|
| 2105-MYB404114 | 14 | 3000                                  | 55 | 2.80 |
| 2105-MYB404116 | 16 | 3000                                  | 55 | 2.80 |
| 2105-MYB404118 | 18 | 3000                                  | 55 | 2.80 |
| 2105-MYB404120 | 20 | 3000                                  | 55 | 2.80 |
| 2105-MYB404122 | 22 | 3000                                  | 55 | 2.80 |
| 2105-MYB404124 | 24 | 3000                                  | 55 | 2.80 |

Ürün Nr. 2105 Blok Yandan Bağlama  
Product Nr. 2105 Block Side Press

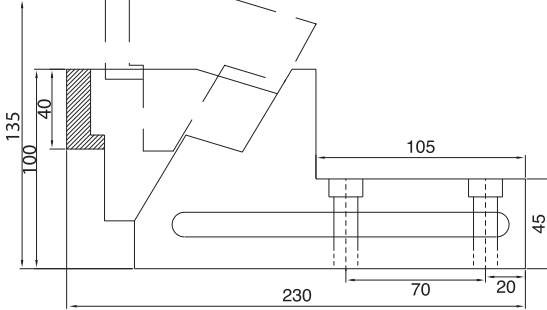


Genişlik / Width 54 mm.



| Referans Nr.   | a  | Sıkma Kuvveti<br>Clamping Force (Kgf) | Nm | (kg) |
|----------------|----|---------------------------------------|----|------|
| 2105-MYB901120 | 20 | 3000                                  | 55 | 6.85 |
| 2105-MYB901122 | 22 | 3000                                  | 55 | 6.85 |
| 2105-MYB901124 | 24 | 3000                                  | 55 | 6.85 |
| 2105-MYB901128 | 28 | 3000                                  | 55 | 6.85 |

Ürün Nr. 2105 Blok Yandan Bağlama  
Product Nr. 2105 Block Side Press

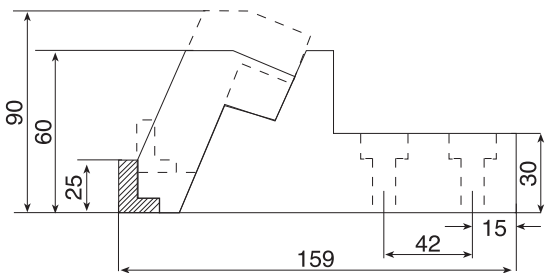


Genişlik / Width 68 mm.

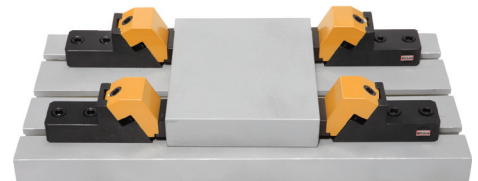


| Referans Nr.   | a  | Sıkma Kuvveti<br>Clamping Force (Kgf) | Nm | (kg) |
|----------------|----|---------------------------------------|----|------|
| 2105-MYB303114 | 14 | 3000                                  | 55 | 2.80 |
| 2105-MYB303116 | 16 | 3000                                  | 55 | 2.80 |
| 2105-MYB303118 | 18 | 3000                                  | 55 | 2.80 |
| 2105-MYB303120 | 20 | 3000                                  | 55 | 2.80 |
| 2105-MYB303122 | 22 | 3000                                  | 55 | 2.80 |
| 2105-MYB303124 | 24 | 3000                                  | 55 | 2.80 |

Ürün Nr. 2105 Blok Yandan Bağlama  
Product Nr. 2105 Block Side Press

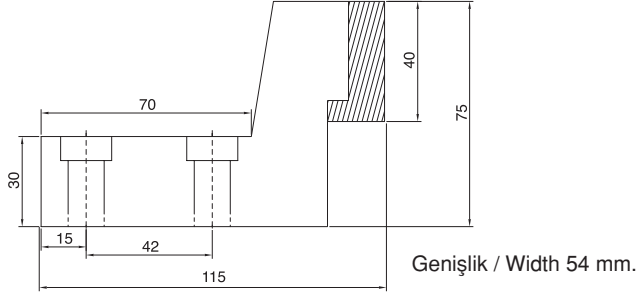


Genişlik / Width 54 mm.



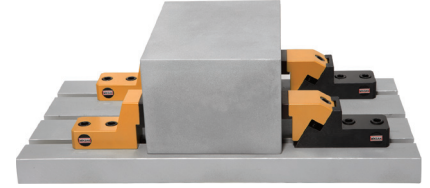
| Referans Nr.  | a  | (kg) |
|---------------|----|------|
| 2105-MD404214 | 14 | 1.86 |
| 2105-MD404216 | 16 | 1.86 |
| 2105-MD404218 | 18 | 1.86 |
| 2105-MD404220 | 20 | 1.86 |
| 2105-MD404222 | 22 | 1.86 |
| 2105-MD404224 | 24 | 1.86 |

Ürün Nr. 2105 Blok Yandan Bağlama Dayaması  
Product Nr. 2105 Block Stopper Side Press



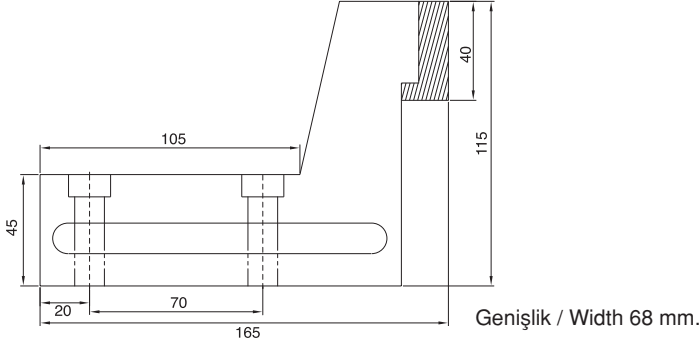
## Blok Yandan Bağlama Dayaması

Block Stopper Side Press



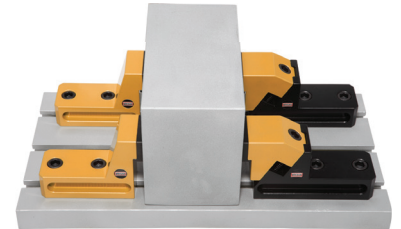
| Referans Nr.  | a  | (kg) |
|---------------|----|------|
| 2105-MD902120 | 20 | 4.50 |
| 2105-MD902122 | 22 | 4.50 |
| 2105-MD902124 | 24 | 4.50 |
| 2105-MD902128 | 28 | 4.50 |

Ürün Nr. 2105 Blok Yandan Bağlama Dayaması  
Product Nr. 2105 Block Stopper Side Press



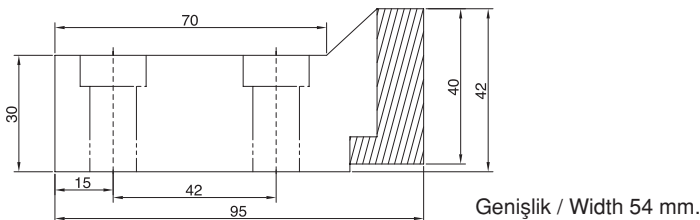
## Blok Yandan Bağlama Dayaması

Block Stopper Side Press



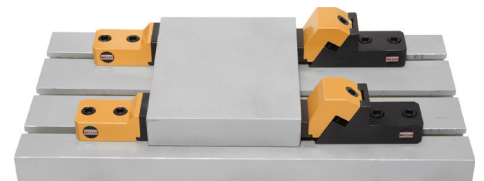
| Referans Nr.  | a  | (kg) |
|---------------|----|------|
| 2105-MD303214 | 14 | 1.17 |
| 2105-MD303216 | 16 | 1.17 |
| 2105-MD303218 | 18 | 1.17 |
| 2105-MD303220 | 20 | 1.17 |
| 2105-MD303222 | 22 | 1.17 |
| 2105-MD303224 | 24 | 1.17 |

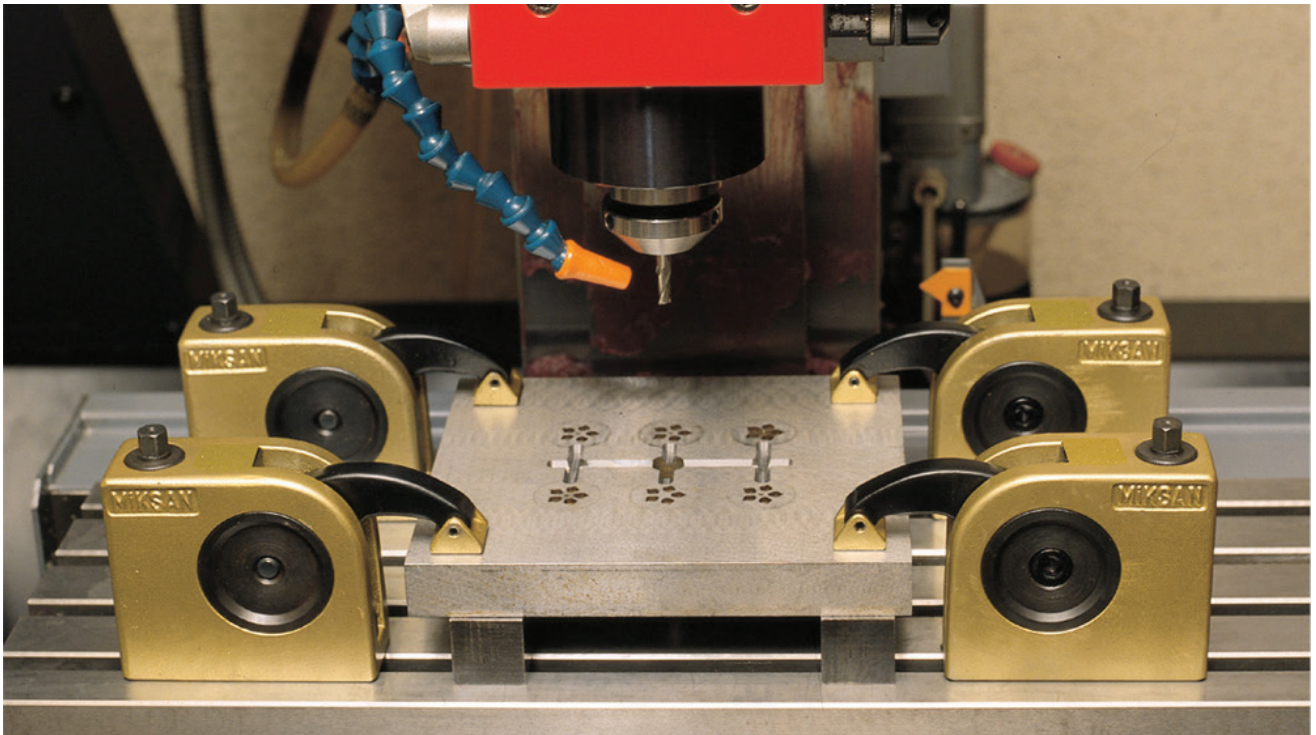
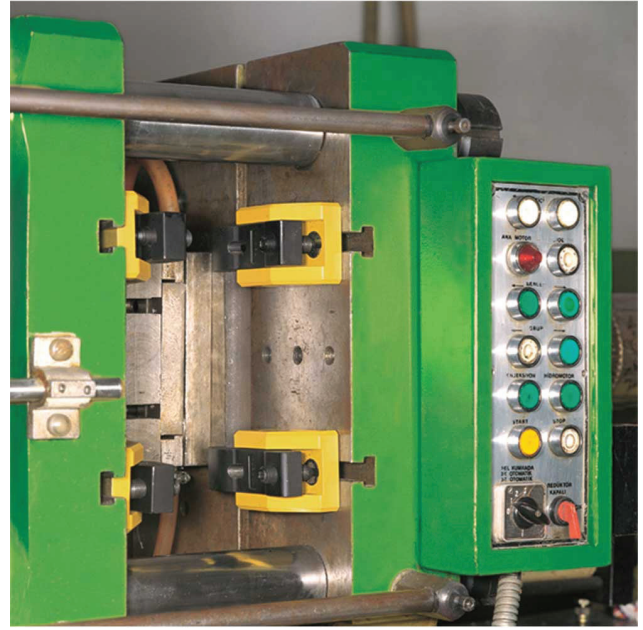
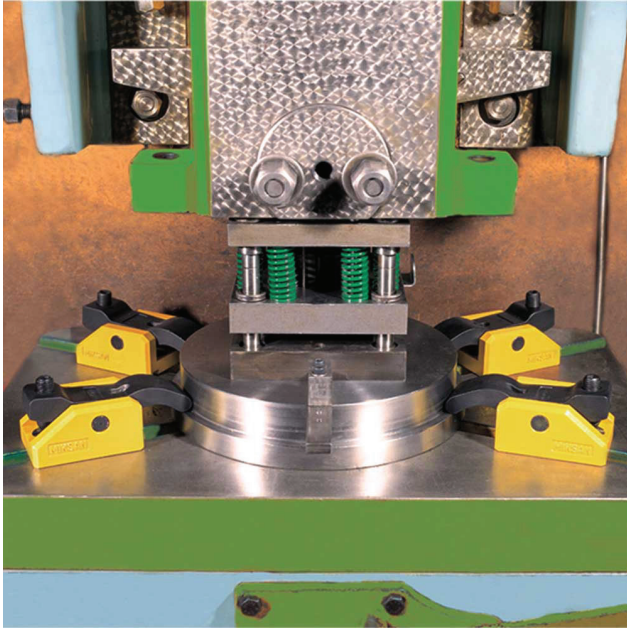
Ürün Nr. 2105 Blok Yandan Bağlama Dayaması  
Product Nr. 2105 Block Stopper Side Press



## Blok Yandan Bağlama Dayaması

Block Stopper Side Press







**ER-EL®**

ER-EL MAKİNA YEDEK PARÇA İML. SAN. VE TİC. LTD. ŞTİ.

**KATALOG ve BROŞÜRLERİMİZ**  
CATALOGUE and BROSHURE



**Genel Ürün Kataloğu**  
General Product Catalogue



**Genel Ürün Broşürü**  
General Product Brochure



**MİKSAN** bir  
ER-EL markasıdır.

**MİKSAN Ürün Broşürü**  
MİKSAN Product Brochure



**Hızlı Kalıp Değiştirme Sistemi Broşürü**  
Quick Mold Change System Brochure



**Manyetik Hızlı Kalıp Bağlama Sistemi**  
Magnetic Quick Mold Clamping System



**Bağlama Pabuçları Broşürü**  
Clamping Components Brochure



**Yandan Bağlama Ekipmanları ve Setler Broşürü**  
Side Clamp Equipments And Setst Brochure



**Fısktörler ve Hidrolik Ekipmanlar Broşürü**  
Fixtures and Hydraulic Equipment Brochure



**Kalıp Yükleme Tablası Broşürü**  
Mold Transport Tray Brochure



**Mengene Broşürü**  
Vice Brochure



**CNC İşleme Kuleleri Broşürü**  
CNC Processing Towers Brochure

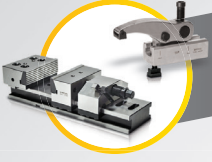












**Standart Ürünler**  
Standard Products



**Tek Dokunuş Bağlamalar**  
Single Touch Clamps



**5-Eksen Blok Bağlama Sistemi**  
5-Axis Clamping Block System



**Hidrolik Komponentler**  
Hydraulic Components



**Hızlı Kalıp Değişirme Sistemi**  
Quick Mold Change System



**Proje Bazlı Fikstür Uygulamaları**  
Project Based Fixture Applications



**ER-EL Zero Sistem**  
ER-EL Zero Point Clamping System



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