

ÜRÜN KATALOĞU

PRODUCT CATALOGUE

TOKSEL[®]

Stone Processing Plants





VİZYONUMUZ

TOKSEL®

Daima "en iyi" olmak vazgeçilmez hedefimizdir.

Kalitede, hizmette, en iyi olmak ve sahip olduğumuz bu imajı korumak ana hedefimizdir.

Üstün iş ahlakı ve dürüst çalışma ilkelerine uymak düsturumuzdur.

Tüm ilişkilerimizde adilane, karşılıklı yarar sağlamak amacıyla, iyi niyet ve anlayışla davranmak ilkemizdir. Gücümüzü aldığımız sektörlere, güç katmak görev ve amacımızdır.

Koşulsuz müşteri memnuniyeti ilkemizdir.

Müşteri memnuniyeti öncelikli, müşterilerimizin ihtiyaç ve taleplerine en kısa zamanda, en doğru şekilde cevap veren proaktif bir anlayışla çalışırız. Hizmetlerimizi zamanında ve söz verdiğimiz koşullarda sunar; müşterimize saygı, onur, eşitlik ve nezaket kuralları çerçevesinde yaklaşırız.

Farklılık yaratacak kalıcı üstünlükler sağlamak.

Müşteri odaklı, pazarın talep ve beklentilerini tespit ederek, faaliyet gösterdiği her alanda en iyi olmak için çalışıp üründe ve hizmette kaliteden ödün vermeyiz. Geleceğe giden yolda, geçmişten güç ve ders alırız.

OUR VISION

TOKSEL®

Always to be the best is our ultimate goal.

Our main goal is in quality and in service to be the best and protect the image that we have.

Our norms are to obey the superior business ethic and honest working principles.

Our essentials are pursued with good intentions and judicious, mutual benefits and fair treatment in all our relationships. Our duty and goal is to strengthen sector from which we derive our strength.

Our principle is unconditional customer satisfaction

We work in a proactive policy in that the customer satisfaction is priority, and responds the costumer needs and demands in the shortest time. We present our service on time and in the conditions that we have promised and we treat our customers in the way of respect, honour, equality and kindness.

Creating sustainable advantage through differentiation.

We focus on customer and by determining the expectations and demands of the market, we never make a concession from product and quality to be the best in the field that we are in operation.





Tercih TOKSEL

- Üstün Kalite
- İleri Teknoloji
- Yüksek Verim
- Yüksek Dayanıklılık
- Makul Fiyat

ISO 9001:2008

ISO 14001:2004

OHSAS 18001:2007



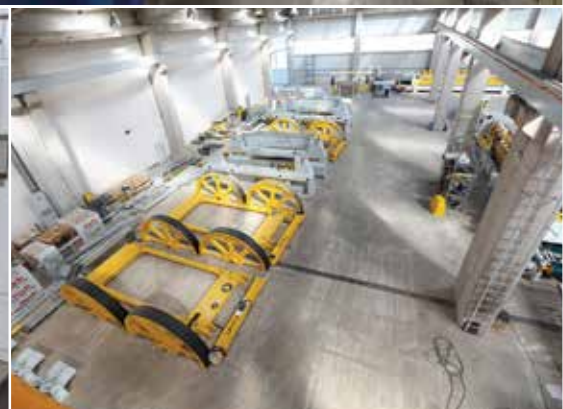


TOKSEL®



The Choise is TOKSEL

- High Quality
- High Technology
- High Efficiency
- High Durable
- Competitive Price



1972 yılından süregelen makina üretim tecrübesini, 1989 yılında doğaltaş işleme makineleri konusunda ihtisaslaştıran **TOKSEL**, Türkiye'ye ve pek çok ülkeye hizmet verirken kalitenin ve güvenin yeni adı olmuştur.

Zarara uğramaktan kaçınırken, haksız kâra da karşı olan firmamız, kalite ilkesinden ödün vermeden çalışmalarına devam etmektedir. Dünyanın dört bir yanında birçok üretici **TOKSEL**'i tercih etmekten memnuniyet duyarken, doğal taşın ve seramiğin en iyi şekilde işlenip kullanıma hazırlanmasında hizmet veren makinalarımız kullanılmaktadır.

TOKSEL, güçlü kadrosu, altyapısı her geçen gün edindiği tecrübe ve bilgi birikimiyle, yenilikçi, dinamik karakteri ve profesyonel iş anlayışıyla dünyada aranan markalardan biri olmayı başarmıştır. Ülkemizde ve dünya pazarında oluşabilecek yeni eğilimleri ve ihtiyaçları takip ve tespit ederek, ürünlerini bu doğrultuda geliştirmekte, dünya kalite normlarına uygun makinalar üreterek trend takipçisi değil, trend yaratıcısı olmayı hedeflemektedir.

“Müşteri Memnuniyeti” “Güven” ve “Kalite” kavramları üzerine inşa edilmiş **TOKSEL** gelişen teknolojiye ayak uydurmayı daima başarmış ve istikrarlı büyümesini her koşulda sürdürmüştür. Bütün bu özelliklerinin yanısıra uygun fiyatlarıyla da müşteri ihtiyaçlarını en iyi şekilde karşılayan **TOKSEL**; mutlaka tanışılması gereken bir firmadır.

Ürün çeşitleri ;

- Blok Kesim Makineleri (Katrak)
- Mermer Plaka Cila Hatları
- Otomatik Mermer Cila Makineleri
- Otomatik Honlama Makineleri
- Çok Kafalı Bantlı Ebatlama Makineleri
- Çok Kafalı Boy Ebatlama Makineleri
- Kalibre Makineleri
- Ebatlama Makineleri
- Seramik Ebatlama Makineleri
- Yatay Yarma Makineleri
- Profil Makineleri
- File Kurutma Fırınları
- Yüzey Patlatma Makineleri
- Kollu Mozaik Kırma Makinesi
- Esnek Konveyörler
- Kesim Kalıpları
- Dizgi Kalıpları
- Vibrasyon Makineleri
- Yan Kesme Makineleri
- Antik mozaik üretimi için çeşitli ekipmanlar.



TOKSEL®

TOKSEL, which has specialized in natural stone processing machineries in 1989 with the experience of machine production lasting since 1972 and which serve to Turkey and so many countries, has become the new brand name of quality and trust.

TOKSEL, which avoids to have a tangible damage and stand against improper benefit, continues its production without making a concession from quality principle. Innumerable customers are very pleased to use TOKSEL machineries and beside our natural stone, marble and ceramic processing and making them ready to use machineries are being used all over the world.

TOKSEL has achieved to be worldwide requested company with its skillful staff, background, accumulated experience and knowledge, innovative, dynamic character and professional business policy. By following and determining new inclinations and needs in our country and in world market, it develops its products and product range according to those needs and inclinations and aims to be trend creator, not just trend follower by producing machineries adequate to world norms.

TOKSEL, which was builded above "Customer Satisfaction" "Trust" "Quality", has always achieved to catch up the developing technology and continues its steady enlarge in every condition. And in addition to these specifications TOKSEL, which responds customer needs with its appropriate prices in the best way, is a firm, that should be known.

In our production kinds;

- Gangsaw Machine for Marble
- Marble Slab Polishing Lines
- The Automatic Marble Polishing Machines
- The Automatic Honing Machines
- Multiple Disk Belt Cutting Machines
- Automatic Multi Disk Cross Cutting Machines
- The Calibrating Machines
- The Cutting Machines
- The Ceramics Cutting Machines
- The Horizontal Splitting Machines
- The Profiling Machines
- The Drying Ovens for Mesh
- The Split Face Broken Machines
- The Small Chopping Machine
- Flexible Conveyors
- Cutting Moulds
- String Moulds
- Vibratation Machines
- Degrees Rotating Cutting Machine
- Equipments and Accesories for Antique Mosaic Producing.

MERMER KATRAK MAKİNESİ
GANGSAW MACHINE FOR MARBLE



 **TAURUS-80**



80 LAMALI KATRAK MAKİNESİ

80 BLADES GANGSAW MACHINE

Su Kollektörü
Water collector

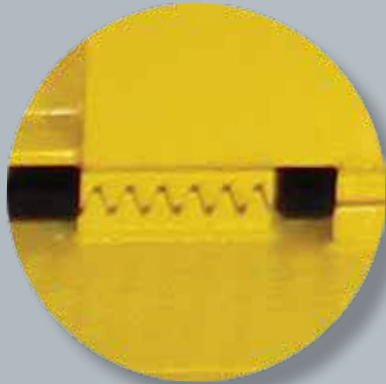
Otomatik Su Akış Şalteri
Automatic flow switches

Mekanizmalı Rulo Perdeler
Curtains roll mechanism

Salıncak Kol
Swing arm



Yüksek Verimli Uzun Ömürlü Salıncak Sistemi
High efficiency-durable swing system



Vagon Kilitleme
Fastened the wagon

Blok Asansör Sistemi
Block elevator system

Güvenlik Bariyerleri
Safety barrier

Ana Tahrik Motoru
Main propulsion engine

Yüksek Tork Sağlayan Volan
Flywheel high providing torque

İkaz Lambası
Warning light



Otomatik Yağlama Ünitesi
Automatic central lubrication system

PLC Sistemli Kontrol Paneli
& Elektrik Panosu
Control panel with PLC sytem & Electrical panel

Uzaktan izleme ve Müdahale Sistemi
Internet connection system

Yumuşak Yol
Verici Sistemi
Soft starter

**TAURUS-80**

80 LAMALI KATRAK MAKİNESİ

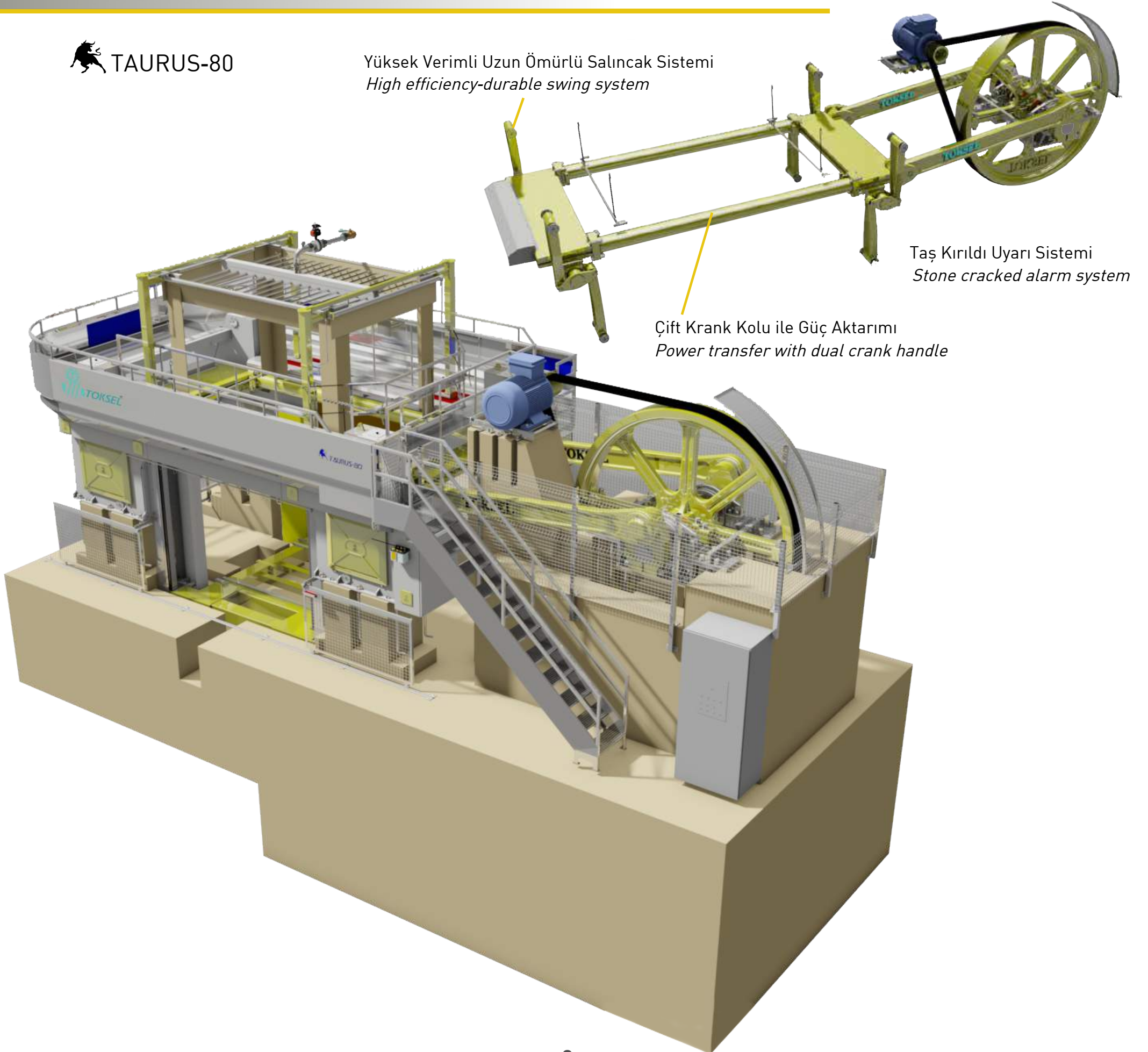
80 BLADES GANGSAW MACHINE

 TAURUS-80

Yüksek Verimli Uzun Ömürlü Salıncak Sistemi
High efficiency-durable swing system

Taş Kırıldı Uyarı Sistemi
Stone cracked alarm system

Çift Krank Kolu ile Güç Aktarımı
Power transfer with dual crank handle





80 LAMALI KATRAK MAKİNESİ

80 BLADES GANGSAW MACHINE

Hidrolik Gergi Sistemi
Hydraulic stretcher system



Dokunmatik Ekran
Touch screen
PLC Kontrollü
PLC controlled
Elektronik Yumuşak Yol Verici
Electronic soft starter

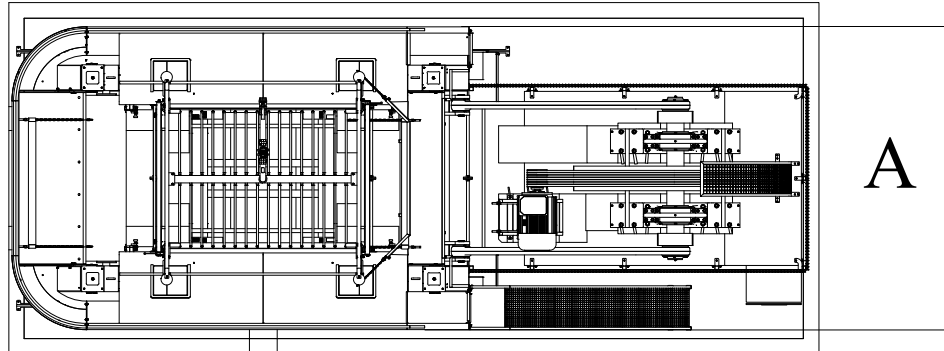
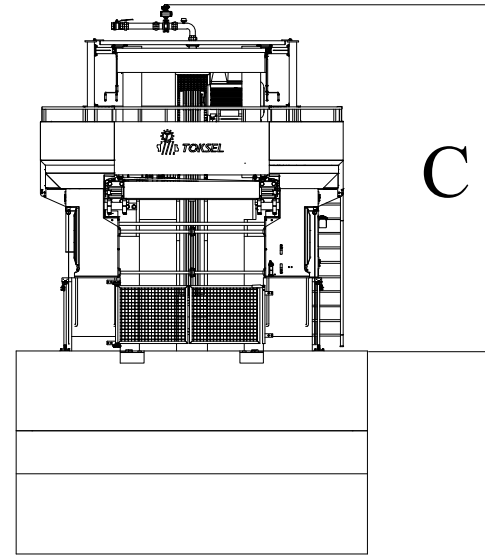
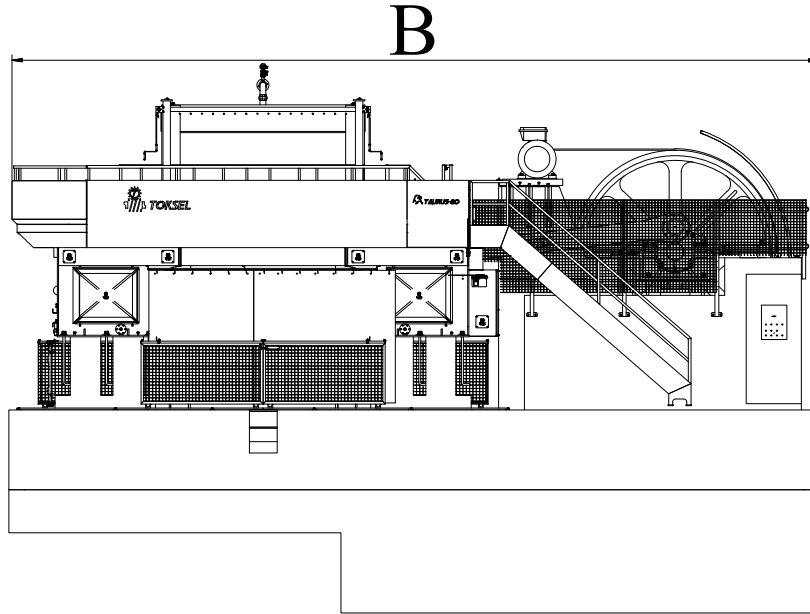
80 LAMALI KATRAK MAKİNASI

80 BLADES GANGSAW MACHINE

Teknik Özellikler
Technical Datas

TOKSEL®

MODEL	TAURUS-80
MAKSİMUM BLOK GENİŞLİĞİ / MAXIMUM BLOCK WIDTH	2015mm
MAKSİMUM BLOK UZUNLUĞU / MAXIMUM BLOCK LENGTH	3300 mm
MAKSİMUM BLOK YÜKSEKLİĞİ / MAXIMUM BLOCK HEIGHT	2050 mm
MAKSİMUM LAMA SAYISI / MAXIMUM NUMBER OF BLADES	80
DAKİKADAKİ STROKE ADETİ / STROKES PER MINUTE	90
SU TÜKETİMİ / WATER CONSUMPTION	800 lt / dak.
STROKE BOYU / STROKE LENGTH	800 mm
ANA MOTOR GÜCÜ / MAIN ENGINE POWER	132 kw
ASANSÖR MOTOR GÜCÜ / LIFT ENGINE POWER	11 kw
BIÇAK UZUNLUĞU / BLADE LENGTH	4360 mm
MAKİNA EBATLARI / MACHINE DIMENSIONS	
(A) EN / WIDTH	4400 mm
(B) BOY / LENGTH	12120 mm
(C) YÜKSEKLİK / HEIGHT	5100 mm

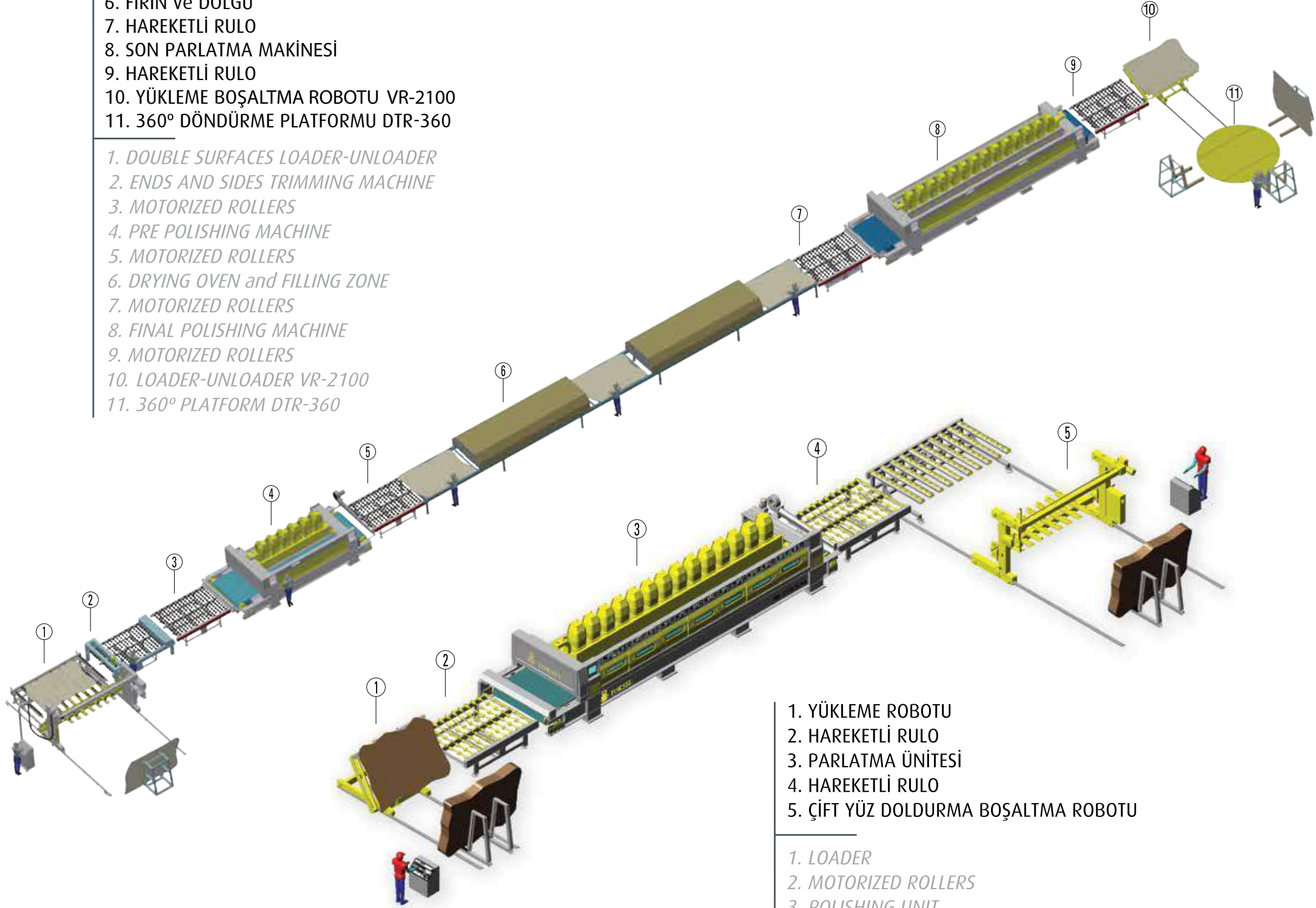


PLAKA CİLA MAKİNELERİ HATLARI

THE SLAB POLISHING MACHINES LINES

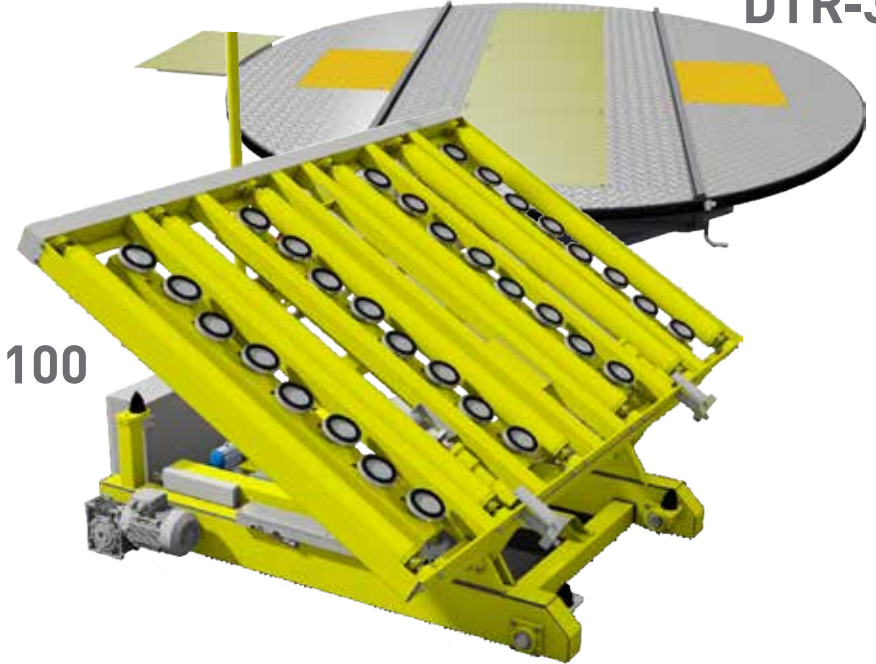
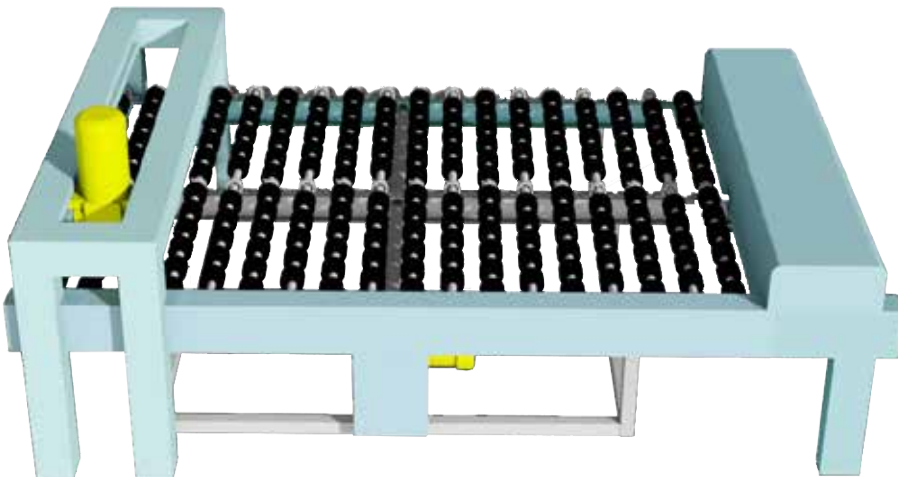
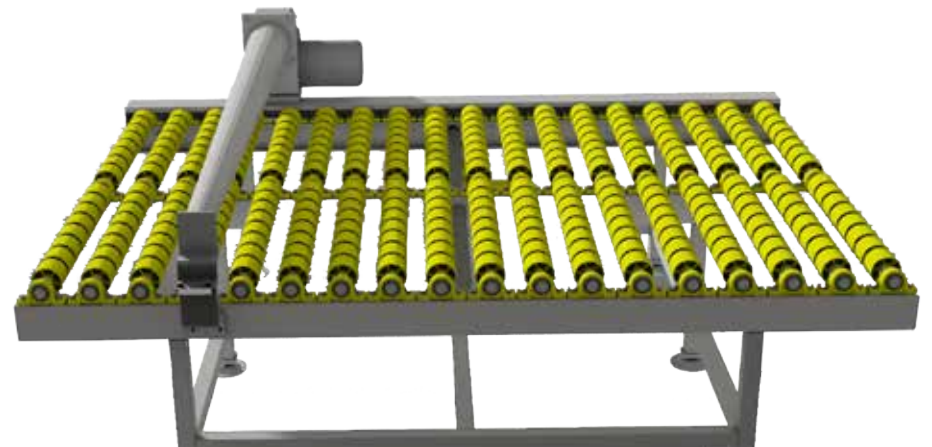
1. ÇİFT YÜZ DOLDURMA BOŞALTMA ROBOTU
2. KAFA KESME MAKİNASI
3. HAREKETLİ RULO
4. ÖN SİLİM MAKİNASI
5. HAREKETLİ RULO
6. FIRIN ve DOLGU
7. HAREKETLİ RULO
8. SON PARLATMA MAKİNESİ
9. HAREKETLİ RULO
10. YÜKLEME BOŞALTMA ROBOTU VR-2100
11. 360° DÖNDÜRME PLATFORMU DTR-360

1. DOUBLE SURFACES LOADER-UNLOADER
2. ENDS AND SIDES TRIMMING MACHINE
3. MOTORIZED ROLLERS
4. PRE POLISHING MACHINE
5. MOTORIZED ROLLERS
6. DRYING OVEN and FILLING ZONE
7. MOTORIZED ROLLERS
8. FINAL POLISHING MACHINE
9. MOTORIZED ROLLERS
10. LOADER-UNLOADER VR-2100
11. 360° PLATFORM DTR-360



1. YÜKLEME ROBOTU
2. HAREKETLİ RULO
3. PARLATMA ÜNİTESİ
4. HAREKETLİ RULO
5. ÇİFT YÜZ DOLDURMA BOŞALTMA ROBOTU

1. LOADER
2. MOTORIZED ROLLERS
3. POLISHING UNIT
4. MOTORIZED ROLLERS
5. DOUBLE SURFACES LOADER-UNLOADER

TRL 3000**DÖNER HAREKETLİ RULO**
*TURNING MOTORIZED ROLLERS***DTR-360****VR 2100****BOŞALTMA - YÜKLEME ROBOTU & 360° PLATFORM**
*LOADER - UNLOADER & 360° PLATFORM***TRM 2100****KAFA KESME**
*ENDS AND SIDES TRIMMING MACHINE***RL 3000****HAREKETLİ RULO**
MOTORIZED ROLLERS

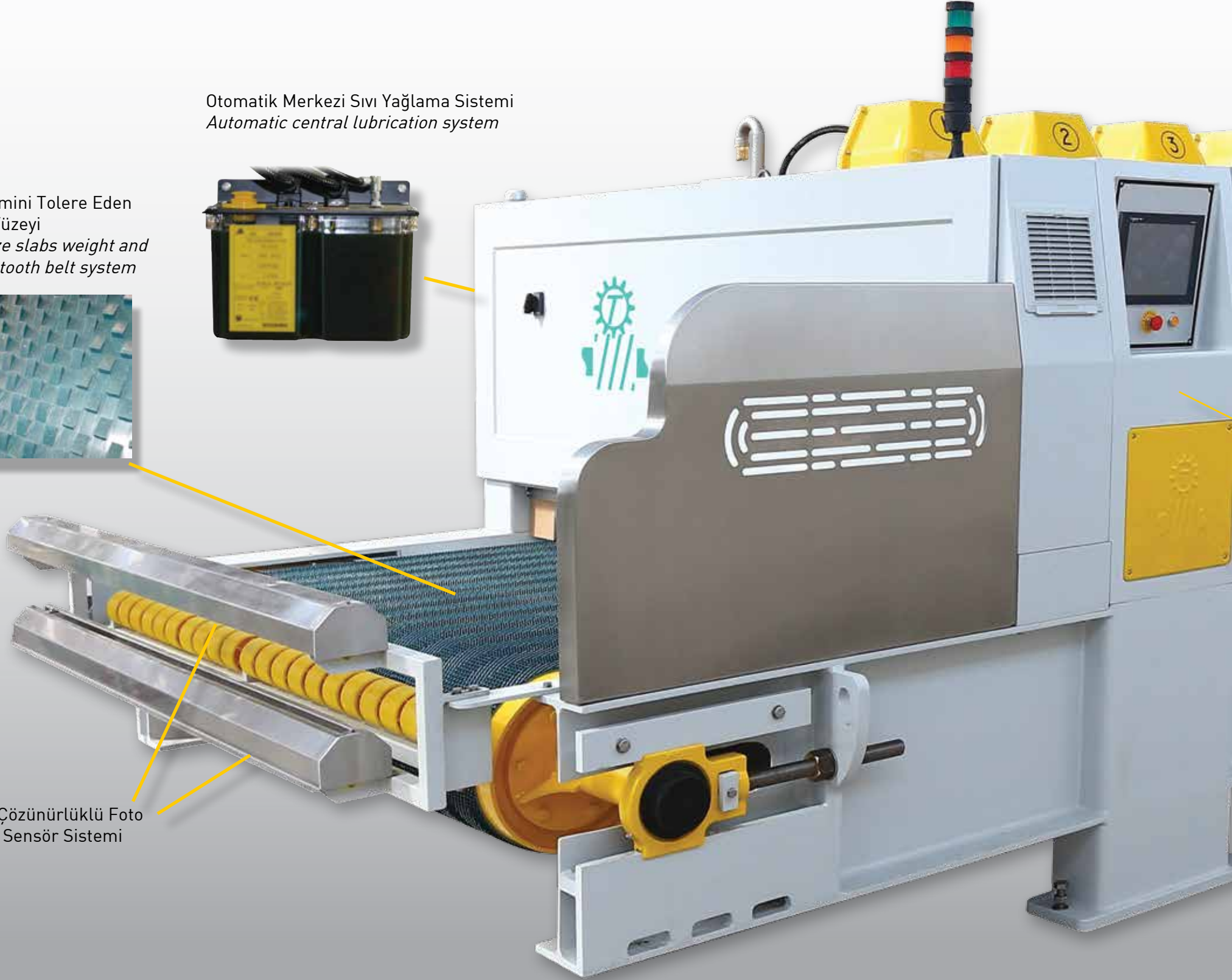
PLAKA CİLA MAKİNELERİ THE SLAB POLISHING MACHINES

Otomatik Merkezi Sıvı Yağlama Sistemi
Automatic central lubrication system

Plaka Sehimini Tolere Eden
Konveyör Yüzeyi
To minimize slabs weight and
tension by tooth belt system



Yüksek Çözünürlüklü Foto
Elektrik Sensör Sistemi

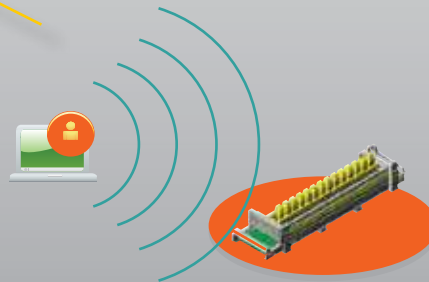




Kafa Ağırlığını Dengeleyerek Abrasiv Sarfiyatını Azaltan Ters Basınç Sistemi
Control of working pressure associated with each spindle with the possibility of excluding individual heads.



Maksimum Koruma ve Müdahale İmkânı Sağlayan Kayar Kapaklar
Sliding doors in plastic impact-resistant soundproof material.



Uzaktan İzleme ve Müdahale Sistemi
Internet connection system



Dokunmatik Kontrol Paneli
Touch screen control panel



PEGASUS / MP 2100 A-14

PLAKA CİLA MAKİNELERİ *THE SLAB POLISHING MACHINES*



TEK SEFERDE HASSAS FREZELENMİŞ TABLA
*WORKED IN A SINGLE PIECE ON LARGE-SIZED
NUMERICALLY CONTROLLED CENTRES.*

GÜÇLÜ RİJİT GÖVDE YAPISI
*BENCH WITH STRUCTURE IN HIGH
RIGIDITY MILLED STEEL*



DAYANIKLI PASLANMAZ KAPLAMA (AISI 304)
*DURABLE AND STAINLESS STEEL (AISI 304)
OF THE SPECIAL INTERCHANGEABLE SURFACES
FIXED TO THE BENCH.*



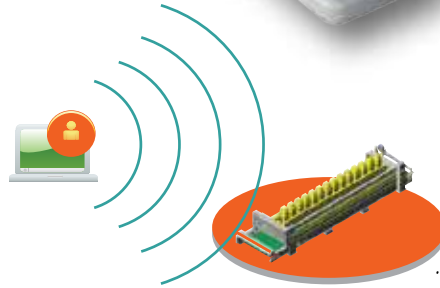
MP 2100 A-14



ABRASIV MİKTARI ÖLÇÜM SİSTEMİ
CONTROL OF ABRASIVE CONSUMPTION SYSTEM



POLY-V KAYIŞ SİSTEMİ
SYSTEM WITH POLY-V BELT



GÜVENİLİR ELEKTRONİK KOMPANENTLERİ
THE ELECTRONIC SYSTEM IS POWERFUL AND RELIABLE COMPENENTS



KAUÇUK KAPLI ÇEKİCİ TAMBUR



PLAKA CİLA MAKİNELERİ
THE SLAB POLISHING MACHINES



PEGASUS / MP 2100 A-14

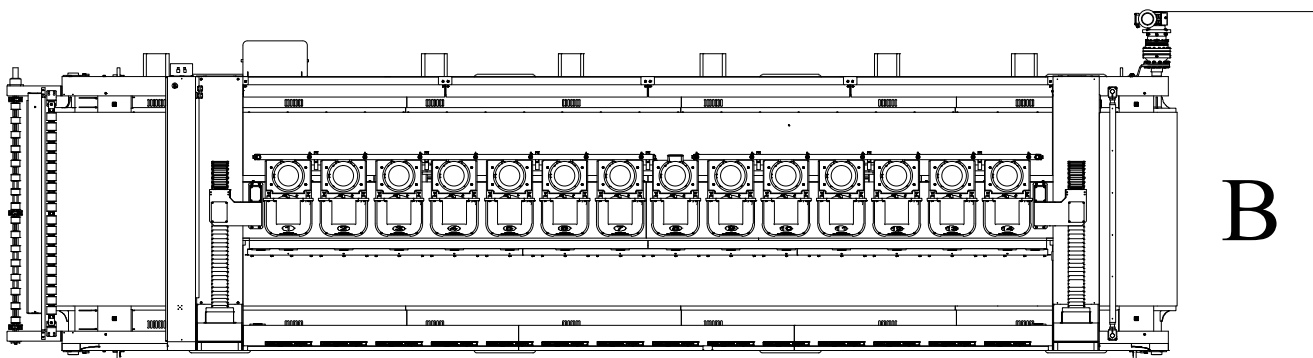
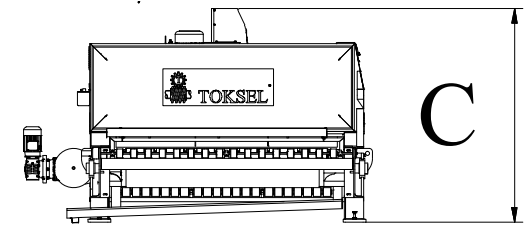
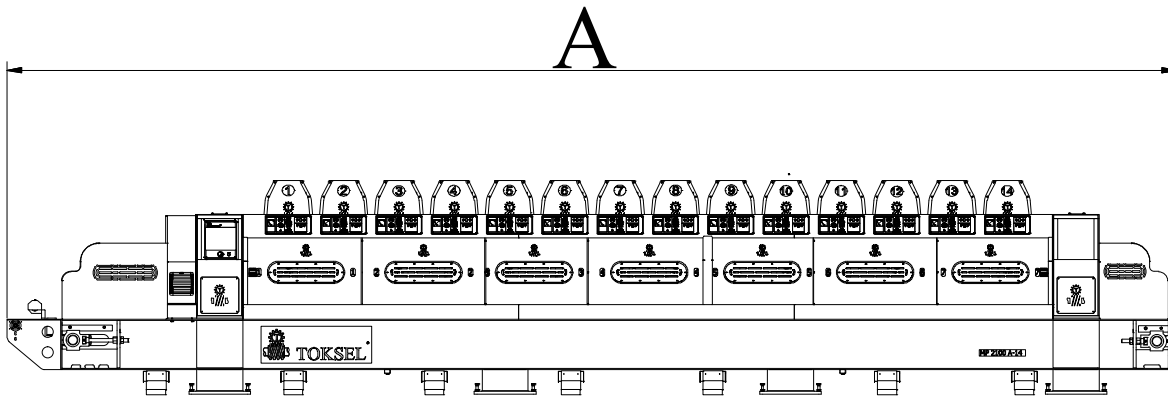


PLAKA CİLA MAKİNELERİ THE SLAB POLISHING MACHINES

Teknik Özellikler Technical Datas

TOKSEL®

MODEL	MP 2100 A-4	MP 2100 A-6	MP 2100 A-8	MP 2100 A-10	MP 2100 A-12	MP 2100 A-14	MP 2100 A-16
KULLANILAN ÇALIŞMA GENİŞLİĞİ MAXIMUM WORKING WIDTH	2100 mm	2100 mm	2100 mm	2100 mm	2100 mm	2100 mm	2100 mm
ABRASİV Kafa SAYISI NUMBER OF ABRASIVE HEADS	4	6	8	10	12	14	16
ÇALIŞMA KALINLIĞI WORKING THICKNESS	8 - 80 mm	8 - 80 mm	8 - 80 mm	8 - 80 mm	8 - 80 mm	8 - 80 mm	8 - 80 mm
ABRASİV MOTOR GÜCÜ POLISHING UNIT POWER	11 kw.	11 kw.	11 kw.	11 kw.	11 kw.	11 kw.	11 kw.
KONVEYÖR BANT HIZI CONVEYOR BELT SPEED	0-3.6 m/dak. m/min.	0-3.6 m/dak. m/min.	0-3.6 m/dak. m/min.	0-3.6 m/dak. m/min.	0-3.6 m/dak. m/min.	0-3.6 m/dak. m/min.	0-3.6 m/dak. m/min.
ABRASİV DİSK ÇAPI ABRASIVE DISK DIAMETER	500 mm	500 mm	500 mm	500 mm	500 mm	500 mm	500 mm
KURUTMA FAN GÜCÜ DRY UNIT POWER	3 kw.	3 kw.	3 kw.	3 kw.	3 kw.	3 kw.	3 kw.
TOPLAM SU TÜKETİMİ TOTAL WATER CONSUMPTION	80 lt/dak. l/min.	120 lt/dak. l/min.	160 lt/dak. l/min.	200 lt/dak. l/min.	240 lt/dak. l/min.	280 lt/dak. l/min.	320 lt/dak. l/min.
TOPLAM ENERJİ TÜKETİMİ TOTAL INSTALLED POWER	51 kw.	73 kw.	95 kw.	117 kw.	139 kw.	161 kw.	183 kw.
TOPLAM HAVA TÜKETİMİ TOTAL AIR CONSUMPTION	100 lt/dak.	150 lt/dak.	200 lt/dak.	250 lt/dak.	300 lt/dak.	350 lt/dak.	400 lt/dak.
MAKİNA EBATLARI MACHINE DIMENSIONS	6400 mm. 3800 mm. 2350 mm.	7600 mm. 3800 mm. 2350 mm.	8800 mm. 3800 mm. 2350 mm.	10000 mm. 3800 mm. 2350 mm.	11200 mm. 3800 mm. 2350 mm.	12400 mm. 3800 mm. 2350 mm.	13600 mm. 3800 mm. 2350 mm.



ÇİFT YÜZ DOLDURMA BOŞALTMA ROBOTU / ACROBAT DOUBLE SURFACES LOADER-UNLOADER / ACROBAT

Acrobat narin ve kırılğan plakaları yüzeylerinden hassasiyetle kavrayarak doldurmaya ve boşaltmaya yarar. Cilalı yüzleri birbirine bakacak şekilde istifler.

The Acrobat allows to load / unload the slabs directly on / from the slabs support frames, which is extremely useful in case of fragile and / or fractured materials. Unpolishing and polishing surfaces can be fit separate or together.



ÇİFT YÜZ DOLDURMA BOŞALTMA ROBOTU / ACROBAT

DOUBLE SURFACES LOADER-UNLOADER / ACROBAT

Teknik Özellikler
Technical Datas

TOKSEL®

MODEL	ACROBAT
TAŞ DOLDURMA HIZI (HIZLI) / STONE LOADER SPEED (FAST)	75 sn
TAŞ DOLDURMA HIZI (YAVAŞ) / STONE LOADER SPEED (SLOW)	150 sn
TAŞ BOŞALTMA HIZI (HIZLI) / STONE UNLOADER SPEED (FAST)	75 sn
TAŞ BOŞALTMA HIZI (YAVAŞ) / STONE UNLOADER SPEED (SLOW)	150 sn
MİNİMUM ÇALIŞMA GENİŞLİĞİ / MINIMUM WORKING WIDTH	750 mm
MAKSİMUM ÇALIŞMA GENİŞLİĞİ/ MAXIMUM WORKING WIDTH	2100 mm
ROBOT RULO MOTOR GÜCÜ / ROBOT ROLLER MOTOR POWER	1370 d/d
ROBOT RULO MOTOR DEVİRİ / ROBOT ROLLER MOTOR ROTATION	0.75 kw
KAFA AŞAĞI YUKARI MOTOR GÜCÜ HEAD UP-DOWN MOTOR POWER	4 kw
KAFA AŞAĞI YUKARI MOTOR DEVİRİ/ HEAD UP-DOWN MOTOR ROTATION	900 d/d
AÇISAL KOL MOTOR GÜCÜ / ANGULAR ARM MOTOR POWER	2.2 kw
AÇISAL KOL MOTOR DEVİRİ / ANGULAR ARM MOTOR ROTATION	1400 d/d
YATAY MOTOR GÜCÜ / HORIZONTAL MOTOR POWER	0.37 kw
YATAY MOTOR DEVİRİ / HORIZONTAL MOTOR ROTATION	900 d/d
VAKUM POMPASI MOTOR GÜCÜ/ VACUUM PUMP MOTOR POWER	5.5 kw
VAKUM POMPASI MOTOR DEVİRİ/ VACUUM PUMP MOTOR ROTATION	1450 d/d
VAKUM POMPASI KAPASİTESİ / VACUUM PUMP CAPACITY	250 m3/h
TOPLAM MOTOR GÜCÜ / TOTAL MOTOR POWER	13.5 kw
VANTUZ ADEDİ / NUMBER OF VACUUM	53 adet
TAŞ KALDIRMA KAPASİTESİ / STONE LIFT CAPACITY	650 kg
BOŞALTMA VE İSTİFLEME ALAN BOYU/ UNLOADER - PACKING FIELD LENGTH	920 mm
RAY BOYU / LENGTH OF RAIL	8400 mm
MAKİNE BOYUTLARI / MACHINE DIMENSIONS	8400*5000*4500 mm



OTOMATİK PARLATMA VE CİLA MAKİNELERİ 650

THE AUTOMATIC CALIBRATING AND POLISHING MACHINES-WIDTH 650

Otomatik parlatma ve cila makineleri 650 mm genişlikteki ürünleri değişik sayıdaki kalibre ve abrasiv kafa adetleri ile gezer köprü sistemi sayesinde istenilen parlaklık ve kalitede işlem yapar.

The Automatic Calibrating and Polishing Machines operate for the 650 mm. width products in desired polishing and quality, with its variable number of calibre and abrasive head versions by courtesy of mobile bridge system.

K4 A14+1 - 650



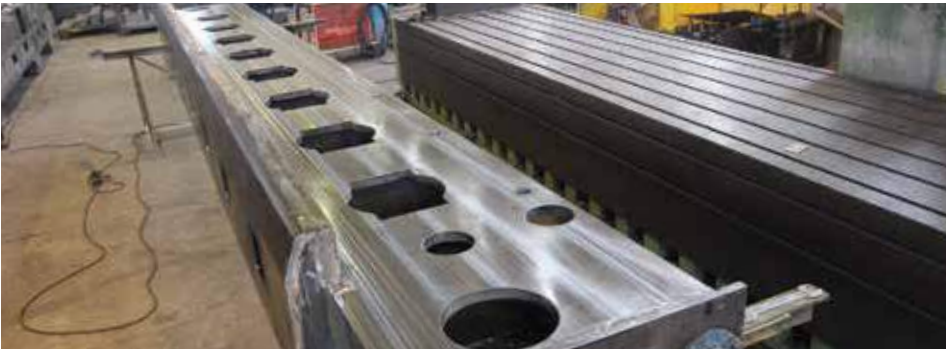
MR-650

MOTORİZE BESLEME RULOSU





K3 A12+1 - 650



OTOMATİK PARLATMA VE ÇİLA MAKİNELERİ-650

THE AUTOMATIC CALIBRATING AND POLISHING MACHINES-WIDTH 650

Teknik Özellikler

Technical Datas

MODEL	K2 A8+1 / 650	K2 A10+1 / 650	K2 A12+1 / 650	K3 A8+1 / 650	K3 A10+1 / 650	K3 A12+1 / 650
KULLANILAN ÇALIŞMA GENİŞLİĞİ <i>MAXIMUM WORKING WIDTH</i>	650 mm	650 mm	650 mm	650 mm	650 mm	650 mm
KALİBRE Kafa Sayısı <i>NUMBER OF CALIBRATING HEADS</i>	2	2	2	3	3	3
ABRASİV Kafa Sayısı <i>NUMBER OF ABRASIVE HEADS</i>	8+1	10+1	12+1	8+1	10+1	12+1
ÇALIŞMA KALINLIĞI <i>WORKING THICKNESS</i>	8-80 mm	8-80 mm	8-80 mm	8-80 mm	8-80 mm	8-80 mm
KALİBRE MOTOR GÜCÜ <i>CALIBRATING UNIT MOTOR POWER</i>	22 kw.	22 kw.	22 kw.	22 kw.	22 kw.	22 kw.
GEZER ABRASİV MOTOR GÜCÜ <i>MOBILE ABRASIV UNIT POWER</i>	11 kw	11 kw	11 kw	11 kw	11 kw	11 kw
SABİT ABRASİV MOTOR GÜCÜ <i>FIXED ABRASIV UNIT POWER</i>	11 kw	11 kw	11 kw	11 kw	11 kw	11 kw
ABRASİV DİSK ÇAPİ <i>ABRASIV DISK DIAMETER</i>	500 mm	500 mm	500 mm	500 mm	500 mm	500 mm
SABİT ABRASİV DİSK ÇAPİ <i>FIXED ABRASIV DISK DIAMETER</i>	750 mm	750 mm	750 mm	750 mm	750 mm	750 mm
KALİBRE DİSK ÇAPİ <i>CALIBRATING DISK DIAMETER</i>	725 mm	725 mm	725 mm	725 mm	725 mm	725 mm
KONVEYÖR BANT HIZI <i>CONVEYOR BELT SPEED</i>	3.8 m/dak. <i>m/min.</i>	3.8 m/dak. <i>m/min.</i>	3.8 m/dak. <i>m/min.</i>	3.8 m/dak. <i>m/min.</i>	3.8 m/dak. <i>m/min.</i>	3.8 m/dak. <i>m/min.</i>
TOPLAM ENERJİ TÜKETİMİ <i>TOTAL INSTALLED POWER</i>	148 kw	170 kw	192 kw	170 kw	192 kw	214 kw
TOPLAM SU TÜKETİMİ <i>TOTAL WATER CONSUMPTION</i>	280 lt/dak. <i>lt/min.</i>	320 lt/dak. <i>lt/min.</i>	360 lt/dak. <i>lt/min.</i>	330 lt/dak. <i>lt/min.</i>	370 lt/dak. <i>lt/min.</i>	410 lt/dak. <i>lt/min.</i>
TOPLAM HAVA TÜKETİMİ <i>TOTAL AIR CONSUMPTION</i>	225 lt/dak. <i>l/min.</i>	275 lt/dak. <i>l/min.</i>	325 lt/dak. <i>l/min.</i>	225 lt/dak. <i>l/min.</i>	275 lt/dak. <i>l/min.</i>	325 lt/dak. <i>l/min.</i>
MAKİNE EBATLARI <i>MACHINE DIMENSIONS</i>	12425 mm. 2150 mm. 2500 mm.	13625 mm. 2150 mm. 2500 mm.	14825 mm. 2150 mm. 2500 mm.	13200 mm. 2150 mm. 2500 mm.	14400 mm. 2150 mm. 2500 mm.	15600 mm. 2150 mm. 2500 mm.

OTOMATİK PARLATMA VE CİLA MAKİNELERİ 480

THE AUTOMATIC CALIBRATING AND POLISHING MACHINES-WIDTH 480

Güçlü yapısı ile mermer plakaların kalınlığını hassas ölçülere indirir ve istenilen düzeyde pürüzsüz, parlak yüzeyler sağlar.

High powerful, high precision, high-efficiency and high productivity for calibrating and polishing on marble strips. Easy and perfectly polish and measurable calibrating on kinds of stone and marble.

K3 A10+1 - 650




OTOMATİK PARLATMA VE KALİBRE MAKİNELERİ 480
THE AUTOMATIC CALIBRATING AND POLISHING MACHINES-WIDTH 480
Teknik Özellikler
Technical Datas

MODEL	K2 A8-480	K2 A10-480	K2 A12-480	K3 A8-480	K3 A10-480	K3 A12-480
KULLANILAN ÇALIŞMA GENİŞLİĞİ MAXIMUM WORKING WIDTH	480 mm	480 mm	480 mm	480 mm	480 mm	480 mm
KALİBRE KAFA SAYISI NUMBER OF CALIBRATING HEADS	2	2	2	3	3	3
ABRASİV KAFA SAYISI NUMBER OF ABRASIVE HEADS	8	10	12	8	10	12
ÇALIŞMA KALINLIĞI WORKING THICKNESS	8-80 mm	8-80 mm	8-80 mm	8-80 mm	8-80 mm	8-80 mm
KALİBRE MOTOR GÜCÜ CALIBRATING UNIT MOTOR POWER	18,5 kw.	18,5 kw.	18,5 kw.	18,5 kw.	18,5 kw.	18,5 kw.
ABRASİV MOTOR GÜCÜ ABRASIV UNIT POWER	11 kw	11 kw	11 kw	11 kw	11 kw	11 kw
ABRASİV DİSK ÇAPİ ABRASIV DISK DIAMETER	580 mm	580 mm	580 mm	580 mm	580 mm	580 mm
KALİBRE DİSK ÇAPİ CALIBRATING DISK DIAMETER	550 mm	550 mm	550 mm	550 mm	550 mm	550 mm
KONVEYÖR BANT HIZI CONVEYOR BELT SPEED	0-3.8 m/dak. m/min.	0-3.8 m/dak. m/min.	0-3.8 m/dak. m/min.	0-3.8 m/dak. m/min.	0-3.8 m/dak. m/min.	0-3.8 m/dak. m/min.
TOPLAM MOTOR GÜCÜ TOTAL POWER OF MOTOR	128kw	150 kw	172 kw	147 kw	169 kw	191 kw
TOPLAM SU TÜKETİMİ TOTAL WATER CONSUMPTION	260 lt/dak. l/min.	300 lt/dak. l/min.	340 lt/dak. l/min.	310 lt/dak. l/min.	350 lt/dak. l/min.	390 lt/dak. l/min.
TOPLAM HAVA TÜKETİMİ TOTAL AIR CONSUMPTION	200 lt/dak. l/min.	250 lt/dak. l/min.	300 lt/dak. l/min.	200 lt/dak. l/min.	250 lt/dak. l/min.	300 lt/dak. l/min.
MAKİNA EBATLARI MACHINE DIMENSIONS	10030 mm. 1250 mm. 2500 mm.	11230 mm. 1250 mm. 2500 mm.	12430 mm. 1250 mm. 2500 mm.	10580 mm. 1250 mm. 2500 mm.	11780 mm. 1250 mm. 2500 mm.	12980 mm. 1250 mm. 2500 mm.



ALÜMİNYUM SİLİM TABLASI
POLISHING ALUMINUM TRAY



DOKUNMATİK KONTROL PANELİ
TOUCH SCREEN CONTROL PANEL



YÜKSEK KALİTELİ PASLANMAZ BİLEŞENLER

ÇOK KAFALI BANTLI EBATLAMA MAKİNELERİ MULTIPLE DISK BELT CUTTING MACHINES

Otomatik en ebatlama (tirimleme) makineleri 65cm genişlikteki ürünleri veya daha dar kenarlarını trimleme yapar.

Trimming machine makes a sizing materials of 65 cm width or less than border.



EN EBATLAMA MAKİNALARI

TRIMMING MACHINE

Teknik Özellikler
Technical Datas

TOKSEL®

MODEL	TRME
MAKSİMUM KESİM GENİŞLİĞİ / MAXIMUM CUTTING WIDTH	650 mm (2000)mm
MAKSİMUM KESİM BOYU / MAXIMUM LENGTH OF CUT	3000 mm
MİN.-MAX. TAŞ KALINLIĞI / MİN.-MAX. STONE WALL THICKNESS	10 mm-60mm(10mm-140mm)
MİN. KAFA YAKLAŞMA MESAFESİ / MİN.HEAD DISTANCE BETWEEN BLADES	50 mm-230 mm(80mm-250mm)
DİSK ÇAPI / DISC DIAMETER	300 mm (450 mm)
KAFA SAYISI / NUMBER OF CUTTING HEADS	2 - 10
KAFA MOTOR GÜCÜ / CUTTING HEADS UNIT MOTOR POWER	5,5 kw (7,5 kw)
BANT MOTOR GÜCÜ / BELT MOTOR POWER	1,1 kw
MİN.- MAX. BANT HAREKET HIZI/ MIN.-MAX. BELT SPEED	0 - 6 mt/dk
HER KAFA İÇİN SU İHTİYACI / WATER CONSUMPTION FOR EACH HEAD	15 lt/dk
HER KAFA İÇİN HAVA İHTİYACI / AIR CONSUMPTION FOR EACH HEAD	20lt/dk
MAKİNA EBATLARI / MACHINE DIMENSIONS	
(A) EN / WIDTH	1800 mm
(B) BOY / LENGTH	3360 mm
(C) YÜKSEKLİK / HEIGHT	2350 mm



ÇOK KAFALI BOY EBATLAMA MAKİNALARI

AUTOMATIC MULTI DISK CROSS CUTTING MACHINE

Otomatik boy ebatlama (trimleme) makineleri 65cm genişlikteki ürünleri değişik sayıda ve değişik ebatlarda trimleme yapar.

Automatic multi disk cross cutting machine makes a trimming the different dimensions and different numbers in 65cm materials..



ÇOK KAFALI BOY EBATLAMA MAKİNALARI AUTOMATIC MULTI DISK CROSS CUTTING MACHINE

Teknik Özellikler
Technical Datas

TOKSEL®

MODEL	TRMB
MAKSİMUM KESİM GENİŞLİĞİ / MAXIMUM CUTTING WIDTH	650 mm (2000 mm)
MAKSİMUM KESİM BOYU/ MAXIMUM CUTTING LENGTH	3000 mm
MİN.-MAX. TAŞ KALINLIĞI / MIN. - MAX. STONE THICKNESS	10 - 140 mm
MİN.KAFA YAKLAŞMA MESAFESİ/ MIN. DISTANCE BETWEEN BLADES	230 - 250 mm
DİSK ÇAPI / DISK DIAMETER	300 - 450 mm
KAFA SAYISI / NUMBER OF CUTTING HEADS	2 - 11
KAFA MOTOR GÜCÜ / CUTTING HEADS UNIT MOTOR POWER	5,5 kw (7,5 kw)
BANT MOTOR GÜCÜ / BELT MOTOR POWER	1,1 kw
KÖPRÜ HAREKET MOTOR GÜCÜ / BRIDGE MOVEMENT MOTOR POWER	1,1 kw
MİN. - MAX. BANT KÖPRÜ HIZI / MIN. - MAX. BRIDGE SPEED	0 - 7 mt / dk.
MİN. - MAX. BANT HAREKET HIZI / MIN. - MAX. BELT SPEED	0 -10 mt / dk.
HER KAFA İÇİN SU İHTİYACI / WATER CONSUMPTION FOR EACH HEAD	15 lt / dk.
HER KAFA İÇİN HAVA İHTİYACI / AIR CONSUMPTION FOR EACH HEAD	20 lt / dk.
MAKİNA EBATLARI / MACHINE DIMENSIONS	
(A) EN / WIDTH	2600 mm
(B) BOY / LENGTH	6400 mm
(C) YÜKSEKLİK / HEIGHT	2510 mm





Başarıyı getiren işbirliği.

OTOMATİK HONLAMA MAKİNELERİ 480 - 650

THE AUTOMATIC HONING MACHINES-WIDTH 480 - 650

Kalibre elmas kafaları ile düzeltilen yüzeyler, abrasiv kafaları ile honlama işlemine tabi tutulur.

Calibrated with diamond heads are fixed surfaces, abrasive heads are subjected to the honing process.



K2 A8 - 650



OTOMATİK HONLAMA MAKİNELERİ 480 - 650
THE AUTOMATIC HONING MACHINES-WIDTH 480 - 650

Teknik Özellikler
Technical Datas

TOKSEL®

MODEL	K2 A3-480	K2 A4-480	K2 A5-480	K2 A6-480	K2 A4-650	K2 A5-650	K2 A6-650
KULLANILAN ÇALIŞMA GENİŞLİĞİ MAXIMUM WORKING WIDTH	480	480	480	480	650	650	650
KALİBRE Kafa Sayısı NUMBER OF CALIBRATING HEADS	2	2	2	2	2	2	2
ABRASİV Kafa Sayısı NUMBER OF ABRASIVE HEADS	3	4	5	6	4	5	6
ÇALIŞMA KALINLIĞI WORKING THICKNESS	8-80 mm	8-80 mm	8-80 mm	8-80 mm	8-80 mm	8-80 mm	8-80 mm
KALİBRE MOTOR GÜCÜ CALIBRATING UNIT MOTOR POWER	18,5 kw.	18,5 kw.	18,5 kw.	18,5 kw.	22 kw.	22 kw.	22 kw.
ABRASİV MOTOR GÜCÜ ABRASIVE UNIT MOTOR POWER	11 kw	11 kw	11 kw	11 kw	11 kw	11 kw	11 kw
KALİBRE DİSK ÇAPI CALIBRATING DISK DIAMETER	550 mm	550 mm	550 mm	550 mm	725 mm	725 mm	725 mm
ABRASİV DİSK ÇAPI ABRASIVE DISK DIAMETER	580 mm	580 mm	580 mm	580 mm	500 mm	500 mm	500 mm
KONVEYÖR BANT HIZI CONVEYOR BELT SPEED	0-3.8 m/dak. m/min.	0-3.8 m/dak. m/min.	0-3.8 m/dak. m/min.	0-3.8 m/dak. m/min.	0-3.8 m/dak. m/min.	0-3.8 m/dak. m/min.	0-3.8 m/dak. m/min.
TOPLAM ENERJİ TÜKETİMİ TOTAL INSTALLED POWER	73 kw	84 kw	95 kw	106kw	93 kw	104kw	115kw
TOPLAM SU TÜKETİMİ TOTAL WATER CONSUMPTION	160 lt/dak. l/min.	180 lt/dak. l/min.	200 lt/dak. l/min.	220 lt/dak. l/min.	180 lt/dak. l/min.	200 lt/dak. l/min.	220 lt/dak. l/min.
TOPLAM HAVA TÜKETİMİ TOTAL AIR CONSUMPTION	75 lt/dak. l/min.	100 lt/dak. l/min.	125 lt/dak. l/min.	150 lt/dak. l/min.	100 lt/dak. l/min.	125 lt/dak. l/min.	150 lt/dak. l/min.
MAKİNA EBATLARI MACHINE DIMENSIONS	7030 mm. 1250 mm. 2500 mm.	7630 mm. 1250 mm. 2500 mm.	8230 mm. 1250 mm. 2500 mm.	8830 mm. 1250 mm. 2500 mm.	8425 mm. 2150 mm. 2500 mm.	9025 mm. 2150 mm. 2500 mm.	9625 mm. 2150 mm. 2500 mm.

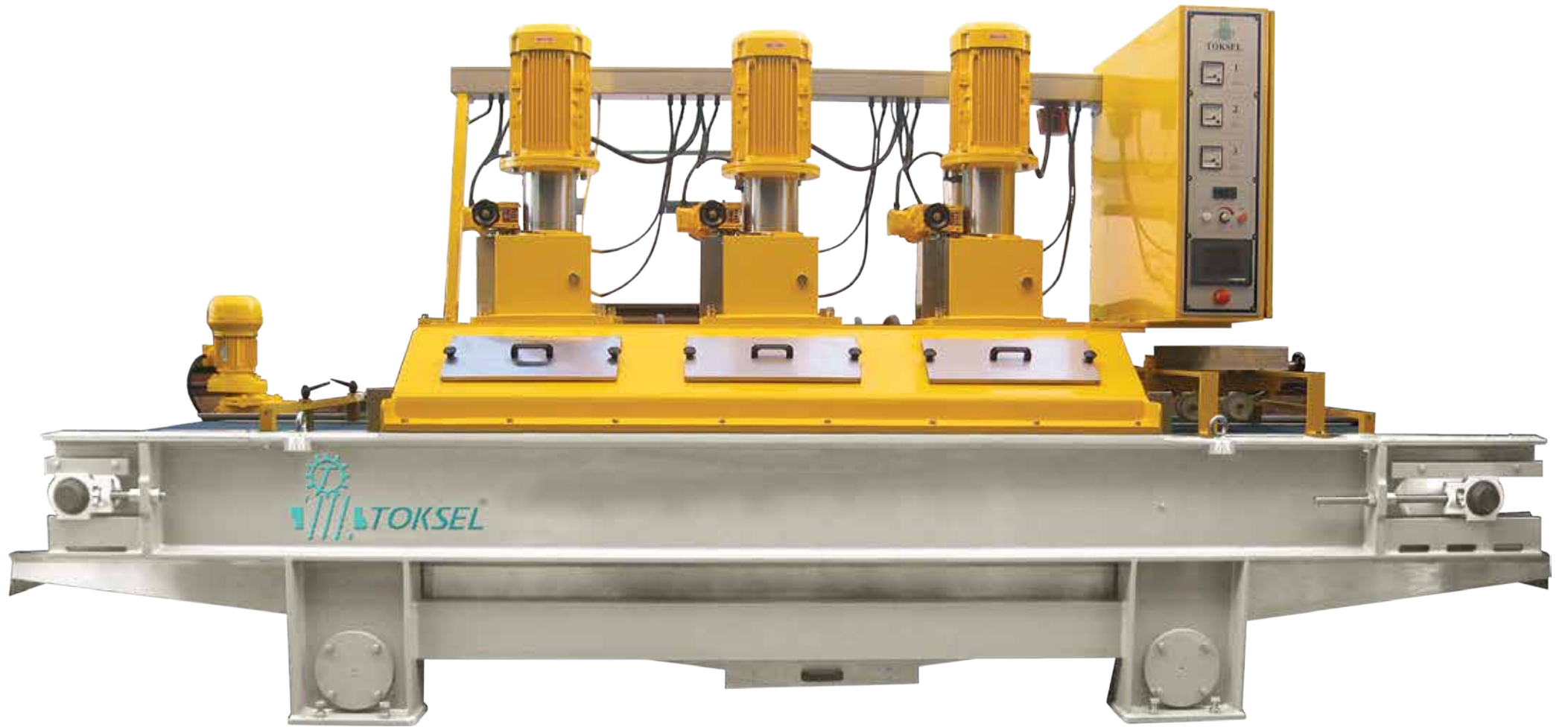


KALİBRE MAKİNELERİ 460 - 650

THE CALIBRATING MACHINES 460 - 650

Kalibre makinaları üreticilerin isteği doğrultusunda geliştirilmiş olup istenilen ölçülere indirmede yüksek verim ve randıman sağlar. 10 cm'den 46 cm veya 65 cm genişlik aralığında mermer plakaları standart kalınlığa indirir.

Calibrating width from 10 cm to 46 cm. or 65 cm. The calibrating machines is completed by the improvement that the advanced features and structure of same kinds of foreign machine with actual demand of our country's producers. Measuring thickness of high precision and high-efficiency.



K3 - 650

K2 - 460

K3 - 460

KALİBRE MAKİNELERİ 460 - 650
THE CALIBRATING MACHINES 460 - 650
Teknik Özellikler
Technical Datas

MODEL	K2 460	K2 650	K3 460	K3 650
KULLANILAN ÇALIŞMA GENİŞLİĞİ MAXIMUM WORKING WIDTH	460 mm	650 mm	460 mm	650 mm
KALİBRE KAFA SAYISI NUMBER OF CALIBRATING HEADS	2	2	3	3
ÇALIŞMA KALINLIĞI WORKING THICKNESS	8 -60 mm	8 -60 mm	8 -60 mm	8 -60 mm
KALİBRE MOTOR GÜCÜ CALIBRATING UNIT MOTOR POWER	15 kw	18.5 kw	15 kw	18.5 kw
TOPLAM MOTOR GÜCÜ TOTAL POWER OF MOTOR	31 kw.	38 kw.	46 kw.	57kw.
KONVEYÖR BANT HIZI CONVEYOR BELT SPEED	0-4.9 m/dak. m/min.	0-4.9 m/dak. m/min.	0-4.9 m/dak. m/min.	0-4.9 m/dak. m/min.
KALİBRE DISK ÇAPİ CALIBRATING DISK DIAMETER	500 mm	725 mm	500 mm	725 mm
SU TÜKETİMİ WATER CONSUMPTION	100 lt/dak. l/min.	120 lt/dak. l/min.	150 lt/dak. l/min.	180 lt/dak. l/min.
MAKİNA EBATLARI MACHINE DIMENSIONS	3400 mm. 1200 mm. 2200 mm.	4325 mm. 1500 mm. 2200 mm.	3950 mm. 1200 mm. 2200 mm.	5100 mm. 1500 mm. 2200 mm.



YATAY YARMA MAKİNELERİ THE HORIZONTAL SPLITTING MACHINES

Dayanıklı ve performanslı yatay yarma makinaları ile 100 mm'den 330 mm'e genişliğe kadar plakaları kalınlığından ikiye ayırır.

It has the advantages of reasonable machine structure high performance, high efficiency, high quality and splitting from size 100 mm to 330 mm in usefull working thickness on tiles.

Y2 - 330



Dayanıklı ve performanslı yatay yarma makinaları ile 100 mm'den 220 mm'e genişliğe kadar plakaları kalınlığından ikiye ayırır.

It has the advantages of reasonable machine structure high performance, high efficiency, high quality and splitting from size 100 mm to 220 mm in usefull working thickness on tiles.

Y2 - 220



YATAY YARMA MAKİNELERİ

THE HORIZONTAL SPLITTING MACHINES

Teknik Özellikler
Technical Datas

MODEL	Y2 - 220	Y2 - 330
KULLANILAN ÇALIŞMA GENİŞLİĞİ MAXIMUM WORKING WIDTH	220 mm	330 mm
EN KÜÇÜK YARMA GENİŞLİĞİ MINIMUM CUTTING SIZE	100 mm	100 mm
EN BÜYÜK YARMA KALINLIĞI WORKING THICKNESS MAX.	50 mm	50 mm
YARMA KAFA SAYISI NUMBER OF SPLITTING HEADS	2	2
YARMA MOTOR GÜCÜ SPLITTING UNIT MOTOR POWER	11 kw.	18,5 kw.
TOPLAM MOTOR GÜCÜ TOTAL POWER OF MOTOR	22.5 kw	37.5 kw
KONVEYÖR BANT HIZI CONVEYOR BELT SPEED	0-3 m/dak. m/min.	0-3 m/dak. m/min.
DİSK ÇAPI DISK DIAMETER	400 mm	625 mm
SU TÜKETİMİ WATER CONSUMPTION	50 lt/dak. l/min.	60 lt/dak. l/min.
MAKİNA EBATLARI MACHINE DIMENSIONS	3350 mm. 1400 mm. 2000 mm.	3900 mm. 2100 mm. 1900 mm.



BANTLI EBATLAMA MAKİNELERİ THE BELT CUTTING MACHINES

*Hızlı ve seri üretim için randımanlı olan bu makinede ürünlerin
10x10 cm, 15x15 cm, 20x20 cm ve 30.5x30.5 cm ebatlı ölçüleri seri ve kaliteli keser.*

*This machine is for mass production, high efficiency and
fastly to produce size 10x10 cm, 15x15 cm, 20x20 cm and 30.5x30. cm
in high quality and high performance.*

E - 300





BANTLI EBATLAMA MAKİNELERİ THE BELT CUTTING MACHINES

Teknik Özellikler
Technical Datas

MODEL	E - 300
ÇALIŞMA GENİŞLİĞİ WORKING WIDTH	310 mm
BANT GENİŞLİĞİ BELT WIDTH	480 mm
ÇALIŞMA KALINLIĞI WORKING THICKNESS	0 - 40 mm
KAFA SAYISI NO. OF HEAD	1
DİSK ÇAPI DISK DIAMETER	300 mm
KESİM MOTOR GÜCÜ CUTTING UNIT MOTOR POWER	11 kw
TOPLAM MOTOR GÜCÜ TOTAL POWER	11.5 kw
BANT HIZI BELT SPEED	0-4.9 m/dak. m/min.
SU TÜKETİMİ WATER CONSUMPTION	30 lt/dak. l/min.
MAKİNA EBATLARI MACHINE DIMENSIONS	2650 mm. 1500 mm. 1800 mm.



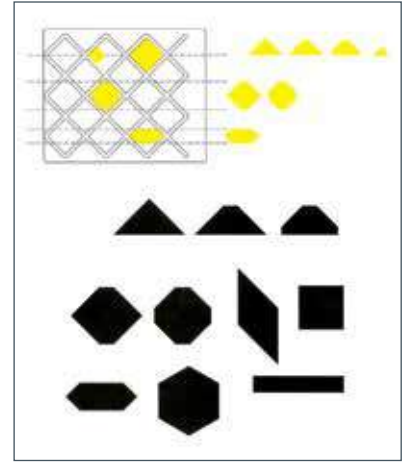
ÇOK BIÇAKLI EBATLAMA MAKİNELERİ TEK KAFA MULTI DISC CUTTING MACHINES SINGLE HEAD

Çok bıçaklı kesim makinaları bütün mermer ve doğal taş çeşitlerini kesim aparatları yardımıyla istenilen ölçü ve ebatlarda keser. Geometrik desenleri ve çeşitleri üretir.

The Multi Disc Cutting Machines can cut all the kinds of marble, natural stone and travertine into border tiles and insets with working piece holder. (The Cutting Moulds...etc.) It is possible to produce all the geometrical shapes or the other shapes.



C1 -500



C1 -700





ÇOK BIÇAKLI BANTLI EBATLAMA MAKİNELERİ MULTI DISC CUTTING MACHINES

Teknik Özellikler
Technical Datas

MODEL	C1 - 500	C1 - 700
KULLANILAN ÇALIŞMA GENİŞLİĞİ MAXIMUM WORKING WIDTH	480 mm	680 mm
FAYDALI KESİM GENİŞLİĞİ USEFUL CUTTING WIDTH	430 mm	650 mm
KESİM KAFA SAYISI NUMBER OF CUTTING HEADS	1	1
TAKILABİLİR DİSK SAYISI NO. OF USEFUL DISC MAX.	30	30
ÇALIŞMA KALINLIĞI WORKING THICKNESS	40 mm	40 mm
KESİM MOTOR GÜCÜ CUTTING UNIT MOTOR POWER	22 kw.	22 kw.
TOPLAM MOTOR GÜCÜ TOTAL POWER OF MOTOR	23 kw	23 kw
KONVEYÖR BANT HIZI CONVEYOR BELT SPEED	0-4.9 m/dak. m/min.	0-4.9 m/dak. m/min.
DİSK ÇAPI DISK DIAMETER	300 mm	300 mm
EN KÜÇÜK KESİM EBADI MINIMUM CUTTING SIZE	10 x 10 mm	10 x 10 mm
KESİM MOTOR DEVRİ SPINDLE ROTATION SPEED	2940 d / dak. r.p.m.	2940 d / dak. r.p.m.
SU TÜKETİMİ WATER CONSUMPTION	60 lt/dak. l/min.	70 lt/dak. l/min.
MAKİNA EBATLARI MACHINE DIMENSIONS	2650 mm. 1830 mm. 1840 mm.	3350 mm. 2100 mm. 1900 mm.



ÇOK BIÇAKLI EBATLAMA MAKİNELERİ 2 KAFA MULTI DISC CUTTING MACHINES 2 HEADS

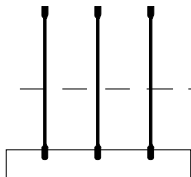
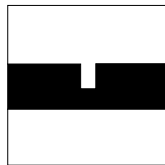
Çoklu kesim makinelerinin tüm özelliklerini içinde barındıran bu makinelerde sert materyallerin 2 kafa yardımıyla daha hızlı ve hassas bir kesim elde edilmesinde kullanılır.

This machine, that have all the specifications of multi disc cutting machine in, are used for obtaining a rapid cutting for hard materials with the help of 2 heads.

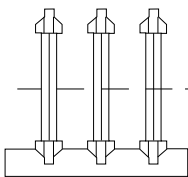
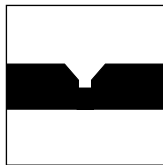


C2 - 500

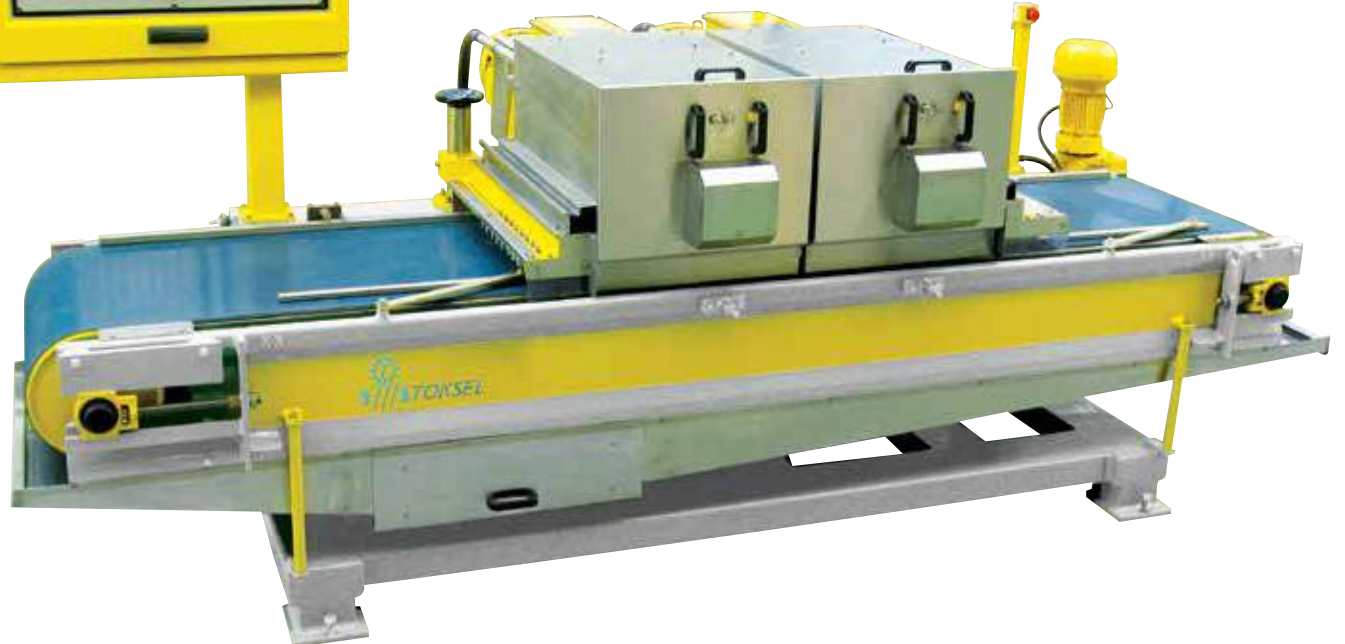
ÇİZGİ KESİMİ
PRE - CUTTING



PAH AÇMA
CHAMFERING



C2 - 700

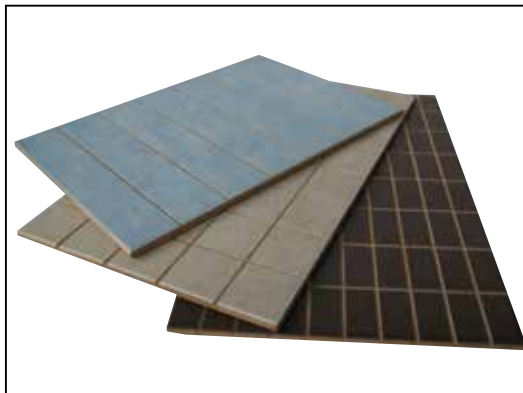




ÇOK BIÇAKLI BANTLI EBATLAMA MAKİNELERİ MULTI DISC CUTTING MACHINES 2 HEADS

Teknik Özellikler
Technical Data

MODEL	C2 - 500	C2 - 700
KULLANILAN ÇALIŞMA GENİŞLİĞİ MAXIMUM WORKING WIDTH	480 mm	680 mm
FAYDALI KESİM GENİŞLİĞİ USEFUL CUTTING WIDTH	430 mm	650 mm
KESİM KAFA SAYISI NUMBER OF CUTTING HEADS	2	2
TAKILABİLİR DİSK SAYISI NO. OF USEFUL DISC MAX.	30	30
ÇALIŞMA KALINLIĞI WORKING THICKNESS	40 mm	40 mm
KESİM MOTOR GÜCÜ CUTTING UNIT MOTOR POWER	22 kw.	22 kw.
TOPLAM MOTOR GÜCÜ TOTAL POWER OF MOTOR	45.5 kw	45.5 kw
KONVEYÖR BANT HIZI CONVEYOR BELT SPEED	0-4.9 m/dak. m/min.	0-4.9 m/dak. m/min.
DİSK ÇAPI DISK DIAMETER	300 mm	300 mm
EN KÜÇÜK KESİM EBADI MINIMUM CUTTING SIZE	10 x 10 mm	10 x 10 mm
KESİM MOTOR DEVRİ SPINDLE ROTATION SPEED	2940 d / dak. r.p.m.	2940 d / dak. r.p.m.
SU TÜKETİMİ WATER CONSUMPTION	120 lt/dak. l/min.	140 lt/dak. l/min.
MAKİNA EBATLARI MACHINE DIMENSIONS	3350 mm. 1830 mm. 1840 mm.	3950 mm. 2100 mm. 1900 mm.



ÇOK BIÇAKLI SERAMİK EBATLAMA MAKİNELERİ 3 KAFA MULTI DISC CUTTING MACHINES 3 HEADS FOR CERAMICS

Üçüncü pişirimden sonra seramik ürünleri kesmek için idealdir.
Bu makine yüksek kalitesi, rijitliği ve seri üretim imkanıyla kullanım için en ekonomik kesintisiz seramik kesme makinesidir.

Ideal to cut third firing products, it is the most economical continuous cutting machine with greatest qualities of flexibility for this use, with very good possibility of production, it can cut all the ceramic materials and stone into border tiles and insets, with the use of working piece holders it is possible to produce all the geometrical shapes.

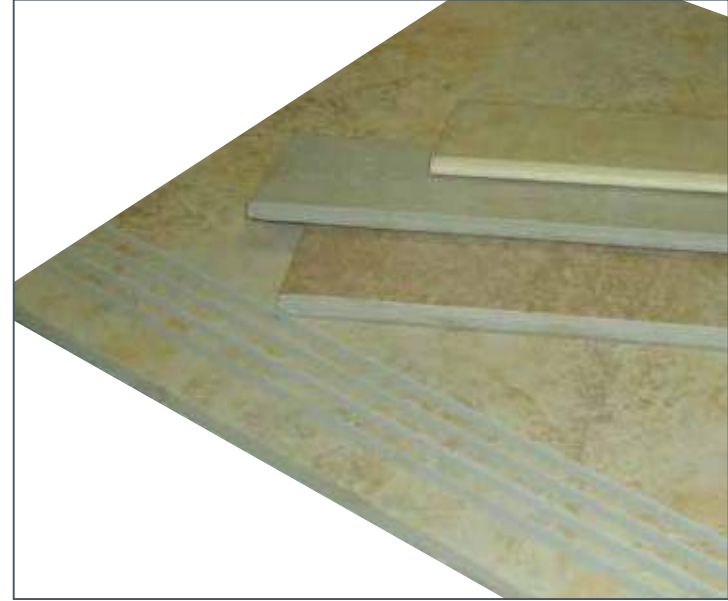


C3 - 700

ÇOK BIÇAKLI BANTLI EBATLAMA MAKİNELERİ
MULTI DISC CUTTING MACHINES 3 HEADS

Teknik Özellikler
Technical Datas

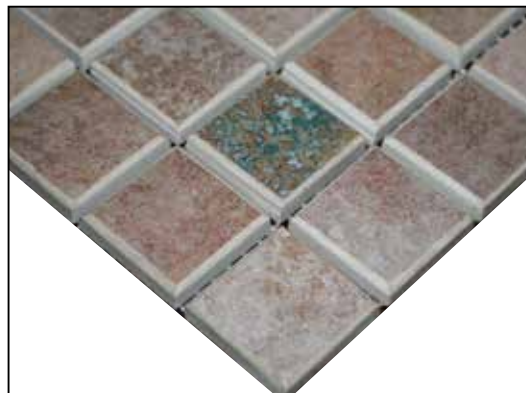
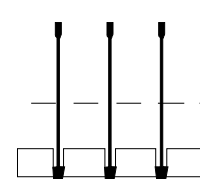
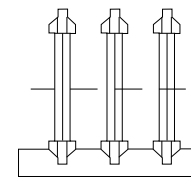
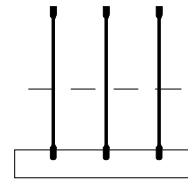
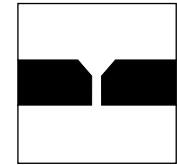
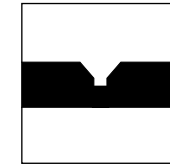
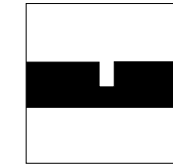
MODEL	C3 - 500	C3 - 700
KULLANILAN ÇALIŞMA GENİŞLİĞİ <i>MAXIMUM WORKING WIDTH</i>	480 mm	680 mm
FAYDALI KESİM GENİŞLİĞİ <i>USEFUL CUTTING WIDTH</i>	430 mm	650 mm
KESİM KAFA SAYISI <i>NUMBER OF CUTTING HEADS</i>	3	3
TAKILABİLİR DİSK SAYISI <i>NO. OF USEFUL DISC MAX.</i>	30	30
ÇALIŞMA KALINLIĞI <i>WORKING THICKNESS</i>	40 mm	40 mm
KESİM MOTOR GÜCÜ <i>CUTTING UNIT MOTOR POWER</i>	22 kw.	22 kw.
TOPLAM MOTOR GÜCÜ <i>TOTAL POWER OF MOTOR</i>	69 kw	69 kw
KONVEYÖR BANT HIZI <i>CONVEYOR BELT SPEED</i>	0-4.9 m/dak. <i>m/min.</i>	0-4.9 m/dak. <i>m/min.</i>
DİSK ÇAPİ <i>DISC DIAMETER</i>	300 mm	300 mm
EN KÜÇÜK KESİM EBADI <i>MINIMUM CUTTING SIZE</i>	10 x 10 mm	10 x 10 mm
KESİM MOTOR DEVRİ <i>SPINDLE ROTATION SPEED</i>	2940 d / dak. <i>r.p.m.</i>	2940 d / dak. <i>r.p.m.</i>
SU TÜKETİMİ <i>WATER CONSUMPTION</i>	180 lt/dak. <i>l/min.</i>	210 lt/dak. <i>l/min.</i>
MAKİNA EBATLARI <i>MACHINE DIMENSIONS</i>	3950 mm. 1830 mm. 1900 mm.	4550 mm. 2100 mm. 1900 mm.



ÇİZGİ KESİMİ
PRE - CUTTING

PAH AÇMA
CHAMFERING

KESİM
CUTTING



ÇOK BIÇAKLI SERAMİK EBATLAMA MAKİNELERİ 4 KAFA MULTI DISC CUTTING MACHINES 4 HEADS FOR CERAMICS

Pah açma işlemi gerektiren sert / orta sert işler için ve granit seramik bordürler için uygundur. Bordürler, özel parçalar kesmek için en verimli ve seri makinedir.

Suitable for all the medium - heavy works which could require the chamfering process on single firing and gres porcelain border tiles. Indicated to cut border tiles, skirting boards, third and single firing special pieces for high output. It can be included into line productions.



C4 - 700

Motorlu aşağı yukarı kesim kafa hareketi.

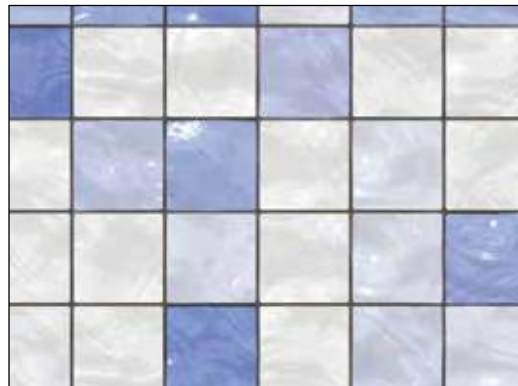
Motorized lifting of the cutting heads for up and down movement.



ÇOK BIÇAKLI BANTLI EBATLAMA MAKİNELERİ MULTI DISC CUTTING MACHINES 4 HEADS

Teknik Özellikler
Technical Datas

MODEL	C4 - 500	C4 - 700
KULLANILAN ÇALIŞMA GENİŞLİĞİ MAXIMUM WORKING WIDTH	480 mm	680 mm
FAYDALI KESİM GENİŞLİĞİ USEFUL CUTTING WIDTH	430 mm	650 mm
KESİM Kafa SAYISI NUMBER OF CUTTING HEADS	4	4
TAKILABİLİR DİSK SAYISI NO. OF USEFUL DISC MAX.	30	30
ÇALIŞMA KALINLIĞI WORKING THICKNESS	40 mm	40 mm
KESİM MOTOR GÜCÜ CUTTING UNIT MOTOR POWER	22 kw.	22 kw.
TOPLAM MOTOR GÜCÜ TOTAL POWER OF MOTOR	89 kw	89 kw
KONVEYÖR BANT HIZI CONVEYOR BELT SPEED	0-4.9 m/dak. m/min.	0-4.9 m/dak. m/min.
DİSK ÇAPI DISK DIAMETER	300 mm	300 mm
EN KÜÇÜK KESİM EBADI MINIMUM CUTTING SIZE	10 x 10 mm	10 x 10 mm
KESİM MOTOR DEVRİ SPINDLE ROTATION SPEED	2940 d / dak. r.p.m.	2940 d / dak. r.p.m.
SU TÜKETİMİ WATER CONSUMPTION	240 lt/dak. l/min.	280 lt/dak. l/min.
MAKİNA EBATLARI MACHINE DIMENSIONS	4550 mm. 1830 mm. 1900 mm.	5150 mm. 2100 mm. 1900 mm.

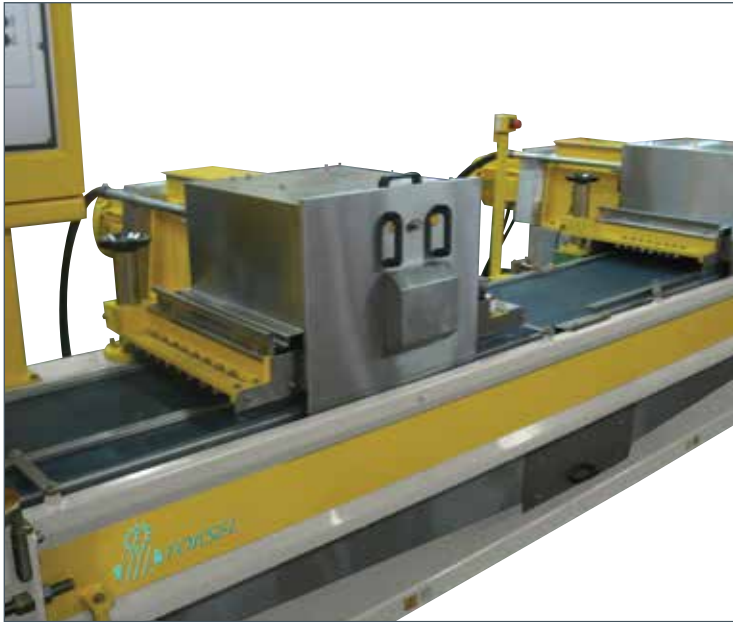
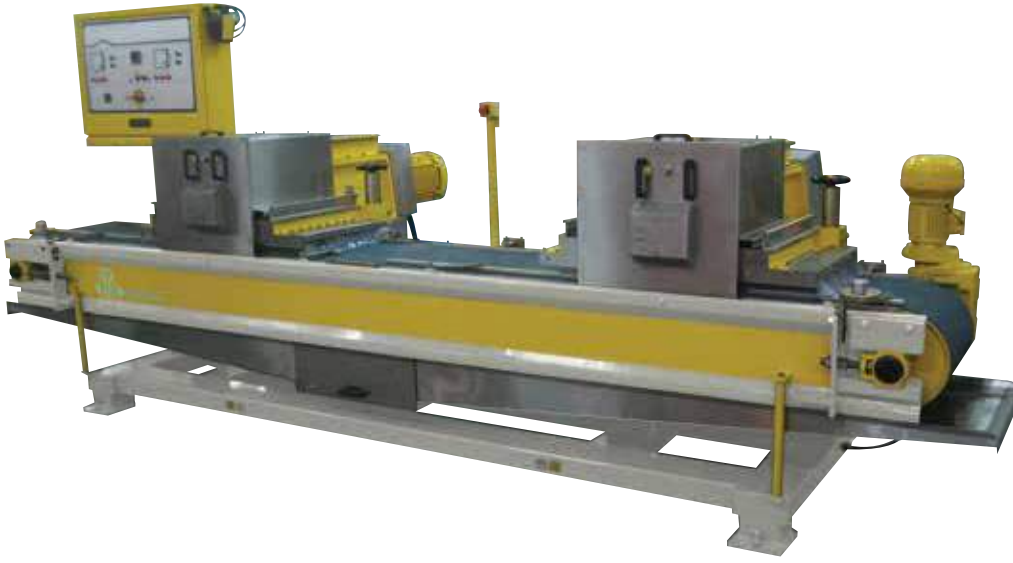


ARA MESAFELİ 2 KAFA ÇOK BIÇAKLI EBATLAMA MAKİNESİ LONG WAY 2 HEADS MULTI DISC CUTTING MACHINE

Aynı şase üzerindeki 2 adet çoklu kesim kafalarının performansı ile hızlı, seri ve kesintisiz bir üretim sağlamaktadır.

It provides rapid, mass and continuous production with the performance of the 2 heads in the same construction.





ARA MESAFELİ 2 KAFA ÇOK BIÇAKLI EBATLAMA MAKİNELERİ LONG WAY 2 HEADS MULTI DISC CUTTING MACHINES

Teknik Özellikler
Technical Datas

MODEL	ARA C2 500	ARA C2 700
KULLANILAN ÇALIŞMA GENİŞLİĞİ MAXIMUM WORKING WIDTH	480 mm	680 mm
FAYDALI KESİM GENİŞLİĞİ USEFUL CUTTING WIDTH	430 mm	650 mm
KESİM KAFA SAYISI NUMBER OF CUTTING HEADS	2	2
TAKILABİLİR DİSK SAYISI NO. OF USEFUL DISC MAX.	30	30
ÇALIŞMA KALINLIĞI WORKING THICKNESS	40 mm	40 mm
KESİM MOTOR GÜCÜ CUTTING UNIT MOTOR POWER	22 kw.	22 kw.
TOPLAM MOTOR GÜCÜ TOTAL POWER OF MOTOR	45.5 kw	45.5 kw
KONVEYÖR BANT HIZI CONVEYOR BELT SPEED	0-4.9 m/dak. m/min.	0-4.9 m/dak. m/min.
DİSK ÇAPI DISK DIAMETER	300 mm	300 mm
EN KÜÇÜK KESİM EBADI MINIMUM CUTTING SIZE	10 x 10 mm	10 x 10 mm
KESİM MOTOR DEVRİ SPINDLE ROTATION SPEED	2940 d / dak. r.p.m.	2940 d / dak. r.p.m.
SU TÜKETİMİ WATER CONSUMPTION	120 lt/dak. l/min.	140 lt/dak. l/min.
MAKİNA EBATLARI MACHINE DIMENSIONS	5350 mm. 1850 mm. 1900 mm.	6550 mm. 2150 mm. 1900 mm.

KALIN TAŞ EBATLAMA MAKİNESİ THICK STONES CUTTING MACHINE

*Kalın ürünlerin ebatlamasında çoklu kesim kafası özelliklerini taşıyan
2 adet kafanın performans paylaşımıyla hızlı bir üretim sağlar.*

*It provides a rapid production for cutting thick stones with its 2 heads,
that have multi disc cutting specifications.*

C2 - 700K





KALIN TAŞ EBATLAMA MAKİNESİ
THICK STONES CUTTING MACHINE

Teknik Özellikler
Technical Datas

MODEL	C2 500 K	C2 700 K
KULLANILAN ÇALIŞMA GENİŞLİĞİ MAXIMUM WORKING WIDTH	480 mm	680 mm
KESİM KAFA SAYISI NUMBER OF CUTTING HEADS	2	2
TAKILABİLİR DİSK SAYISI NO. OF USEFUL DISC MAX.	30	30
ÇALIŞMA KALINLIĞI WORKING THICKNESS	90 mm	90 mm
KESİM MOTOR GÜCÜ CUTTING UNIT MOTOR POWER	22 kw.	22 kw.
TOPLAM MOTOR GÜCÜ TOTAL POWER OF MOTOR	45.5 kw	45.5 kw
KONVEYÖR BANT HIZI CONVEYOR BELT SPEED	0-4.9 m/dak. m/min.	0-4.9 m/dak. m/min.
DİSK ÇAPI DISK DIAMETER	400 mm	400 mm
EN KÜÇÜK KESİM EBADI MINIMUM CUTTING SIZE	10 x 10 mm	10 x 10 mm
KESİM MOTOR DEVRİ SPINDLE ROTATION SPEED	2940 d/dak. r.p.m.	2940 d/dak. r.p.m.
SU TÜKETİMİ WATER CONSUMPTION	120 lt/dak. l/min.	140 lt/dak. l/min.
MAKİNA EBATLARI MACHINE DIMENSIONS	3360 mm. 1980 mm. 1900 mm.	3960 mm. 2250 mm. 1900 mm.



PROFİL MAKİNELERİ

THE PROFILLING MACHINES

P4



Değişik kafa sayısı versiyonları ile istenilen dekoratif profil modellerini üretmekte kullanılır.

The profiling machines are used for producing desired decorative profile models with its variable number of head versions.

P6



PROFİL MAKİNELERİ THE PROFILING MACHINES

Teknik Özellikler
Technical Datas

TOKSEL®



MODEL	P3	P4	P5	P6
EN FAZLA İŞLENEBİLİR GENİŞLİK MAX. WORKABLE WIDTH	300 mm	300 mm	300 mm	300 mm
BANT GENİŞLİĞİ BELT WIDTH	480 mm	480 mm	480 mm	480 mm
TOPLAM KAFA SAYISI NUMBER OF TOTAL HEADS	3	4	5	6
İŞLENEBİLİR KALINLIK WORKING THICKNESS	60 mm	60 mm	60 mm	60 mm
KAFA MOTOR GÜCÜ PROFILLING UNIT MOTOR POWER	11 kw.	11 kw.	11 kw.	11 kw.
TOPLAM MOTOR GÜCÜ TOTAL POWER OF MOTOR	34 kw	45 kw	56 kw	67 kw
KONVEYÖR BANT HIZI CONVEYOR BELT SPEED	0-4.9 d/dak. m/min.	0-4.9 d/dak. m/min.	0-4.9 d/dak. m/min.	0-4.9 d/dak. m/min.
DİSK ÇAPI DISK DIAMETER	200-300 mm	200-300 mm	200-300 mm	200-300 mm
SU TÜKETİMİ WATER CONSUMPTION	90 lt/dak. l/min.	120 lt/dak. l/min.	150 lt/dak. l/min.	180 lt/dak. l/min.
MAKİNA EBATLARI MACHINE DIMENSIONS	3300 mm. 1500 mm. 1800 mm.	3850 mm. 1500 mm. 1800 mm.	4400 mm. 1500 mm. 1800 mm.	4950 mm. 1500 mm. 1800 mm.



DALGALI PROFİL MAKİNELERİ

THE WAVY PROFILLING MACHINES

Değişik kafa sayısı versiyonları ile istenilen dekoratif dalgalı profil modellerini üretmekte kullanılır.

The profiling machines are used for producing desired decorative the wavy profile models with its variable number of head versions.



PATENTED

DALGALI PROFİL MAKİNELERİ
THE WAVY PROFILLING MACHINES
Teknik Özellikler
Technical Datas

MODEL	DP3	DP4	DP5	DP6
EN FAZLA İŞLENEBİLİR GENİŞLİK <i>MAX. WORKABLE WIDTH</i>	160 mm	160 mm	160 mm	160 mm
EN FAZLA İŞLENEBİLİR BOY <i>MAX. WORKABLE LENGHT</i>	400 mm	400 mm	400 mm	400 mm
TOPLAM KAFA SAYISI <i>NUMBER OF TOTAL HEADS</i>	3	4	5	6
İŞLENEBİLİR KALINLIK <i>WORKING THICKNESS</i>	150 mm	150 mm	150 mm	150 mm
KAFA MOTOR GÜCÜ <i>PROFILLING UNIT MOTOR POWER</i>	11 kw.	11 kw.	11 kw.	11 kw.
TOPLAM MOTOR GÜCÜ <i>TOTAL POWER OF MOTOR</i>	38,5 kw	49,5 kw	60,5 kw	71,5 kw
KONVEYÖR BANT HIZI <i>CONVEYOR BELT SPEED</i>	0-4.9 d/dak. <i>m/min.</i>	0-4.9 d/dak. <i>m/min.</i>	0-4.9 d/dak. <i>m/min.</i>	0-4.9 d/dak. <i>m/min.</i>
DİSK ÇAPI <i>DISK DIAMETER</i>	200-300 mm	200-300 mm	200-300 mm	200-300 mm
SU TÜKETİMİ <i>WATER CONSUMPTION</i>	90 lt/dak. <i>l/min.</i>	120 lt/dak. <i>l/min.</i>	150 lt/dak. <i>l/min.</i>	180 lt/dak. <i>l/min.</i>
MAKİNA EBATLARI <i>MACHINE DIMENSIONS</i>	↔ ↕ 3300 mm. 1500 mm. 1800 mm.	↔ ↕ 3850 mm. 1500 mm. 1800 mm.	↔ ↕ 4400 mm. 1500 mm. 1800 mm.	↔ ↕ 4950 mm. 1500 mm. 1800 mm.



OTOMATİK YÜZEY PATLATMA MAKİNELERİ AUTOMATIC SPLIT FACE BROKEN MACHINES

Kendine özgü üretimi ve tasarımı olan bu makinede mermer plakaların yüzeylerinde doğal ve dekoratif patlatma efekti verilmektedir. Dik konumda ilerleyen mermer plakalarının, yüzeyleri alttan ve üstten kırıcılar bıçak darbeleri sayesinde hızlı ve seri olarak son şeklini alır.

By this machine that has its special production and design, the natural and decorative broken effect is given to the marble lata surface. The lata surfaces, that moves vertically, are shaped rapidly with the impact of the scathing blades, that move continuously from up and down.



PATENTED



YÜZEY PATLATMA MAKİNESİ
SPLIT FACE BROKEN MACHINE

Teknik Özellikler
Technical Datas

MODEL	YP 200
ÇALIŞMA GENİŞLİĞİ <i>WORKING WIDTH</i>	50 - 75 - 100 - 150 - 200 mm (Opsiyonel)
ÇALIŞMA UZUNLUĞU <i>WORKING LENGTH</i>	Free Length
ÇALIŞMA KALINLIĞI <i>WORKING THICKNESS</i>	20 - 55 mm
TOPLAM MOTOR GÜCÜ <i>TOTAL POWER OF MOTOR</i>	2.2 kw
BANT HIZI <i>BELT SPEED</i>	0-3.5 m/dak. <i>m/min.</i>
MAKİNA EBATLARI <i>MACHINE DIMENSIONS</i>	3130 mm. 1030 mm. 2000 mm.



KOLLU KIRMA MAKİNESİ MANUAL CHOPPING MACHINE

Eksantrik hareketli kola bağlı olarak kırıcı bıçakların yukarı aşağı hareketi ile 3 cm (opsiyonel 5 cm) kalınlığına kadar olan ürünlerin küçük ve şekilli kırılmasını sağlar.

It provides to chop the products till 3 cm (optional 5 cm) with the up-down movement of scathing blades related to excentric movement arm.

KKM - 10





KOLLU KIRMA MAKİNESİ MANUAL CHOPPING MACHINE		Teknik Özellikler Technical Datas
MODEL	KKM - 10	
ÇALIŞMA KALINLIĞI WORKING THICKNESS	10 - 30 mm (*opsiyonel 50 mm)	
BIÇAK GENİŞLİĞİ BLADE LENGTH	140 mm	
OPERASYON OPERATION	Manual	
AĞIRLIK WEIGHT	93 kg	
MAKİNA EBATLARI MACHINE DIMENSIONS	←→ ↕ 500 mm. 500 mm. 1350 mm.	

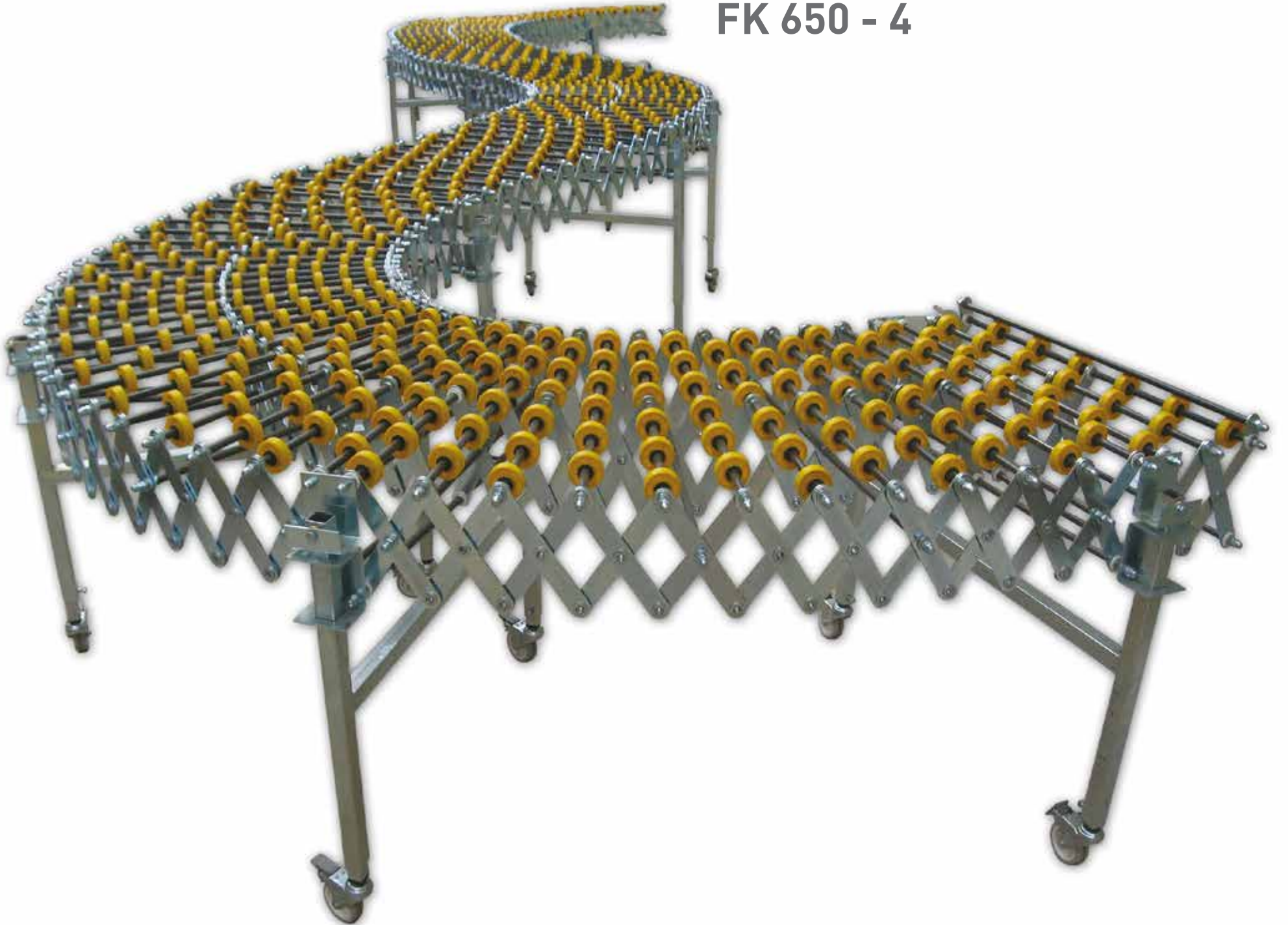


MAKARALI ESNEK KONVEYÖR *SKATE WHEEL FLEXIBLE CONVEYOR*

Esnek ve uzayan yapısı ile üretim hatlarının arasında kolayca adapte edilerek üretimdeki iş gücünü ve yükünü üstlenir.

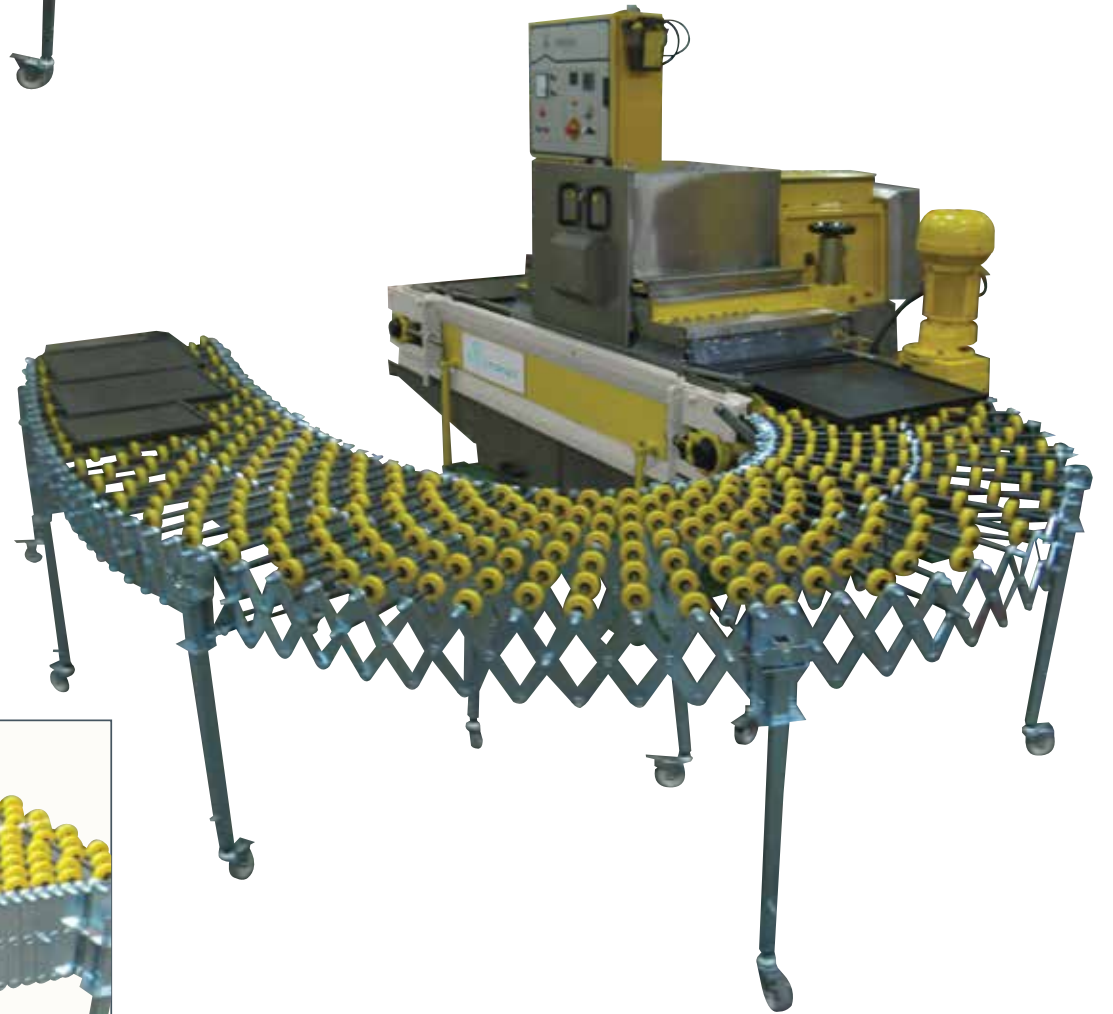
With its flexible and lengthening structure, it assumes the labour force and responsibility by adapting it between production lines.

FK 650 - 4



MAKARALI ESNEK KONVEYÖR
SKATE WHEEL FLEXIBLE CONVEYOR
Teknik Özellikler
Technical Datas

MODEL	Genişlik Width	Kapasite Capacity	Kapalı boy Blocked length	Açık boy Open length	Ağırlık Weight
FK 650-1	650 mm	60 kg/m	420 mm	1400 mm	25 kg
FK 650-2	650 mm	60 kg/m	840 mm	2800 mm	50 kg
FK 650-3	650 mm	60 kg/m	1260 mm	4200 mm	75 kg
FK 650-4	650 mm	60 kg/m	1680 mm	5600 mm	100 kg
FK 650-5	650 mm	60 kg/m	2100 mm	7000 mm	125 kg
FK 650-6	650 mm	60 kg/m	2520 mm	8400 mm	150 kg

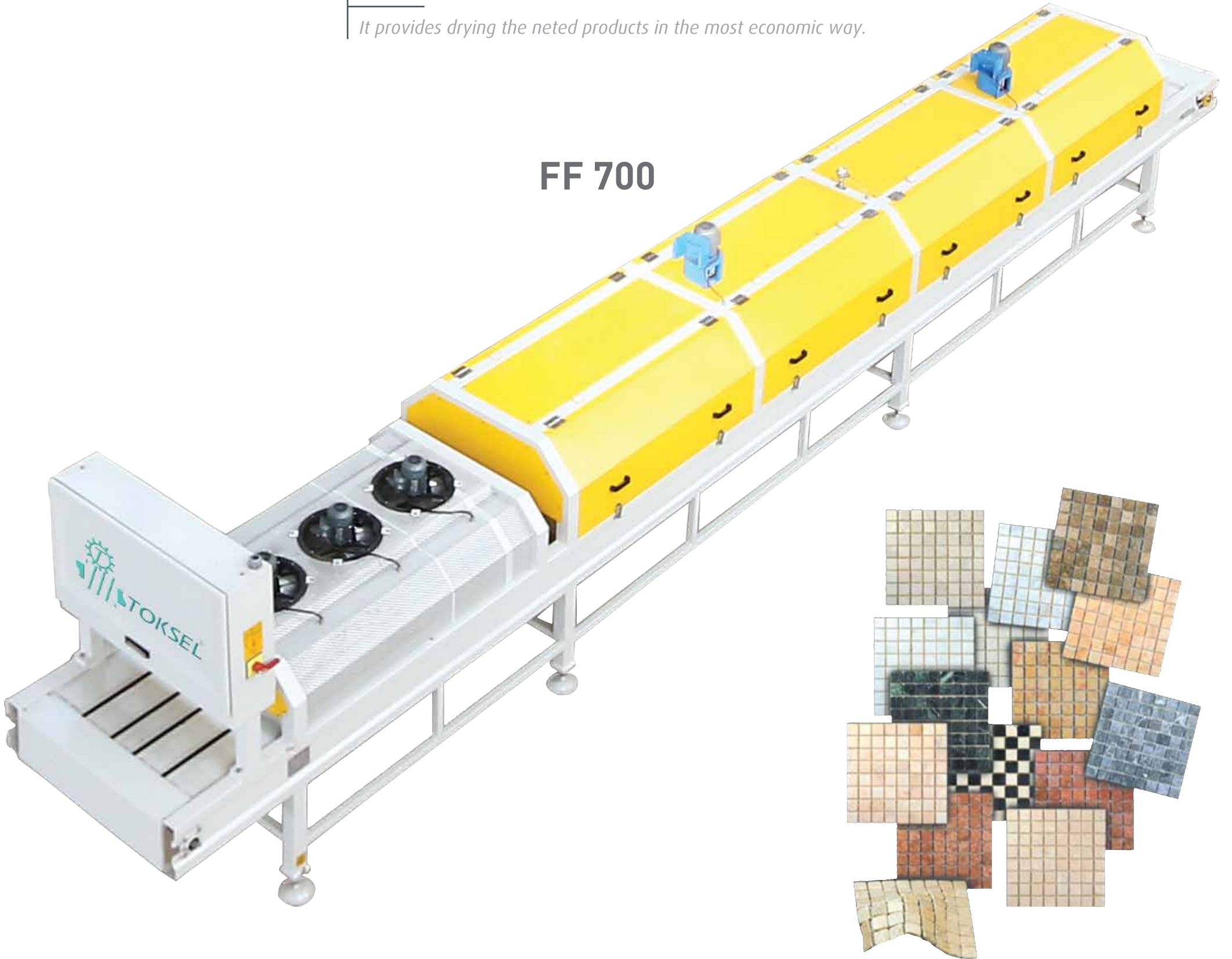


FİLE KURUTMA FIRINI THE DRY OVEN MACHINE

Fileli mozaik ürünlerin en ekonomik yöntemle kurutulmasını sağlar.

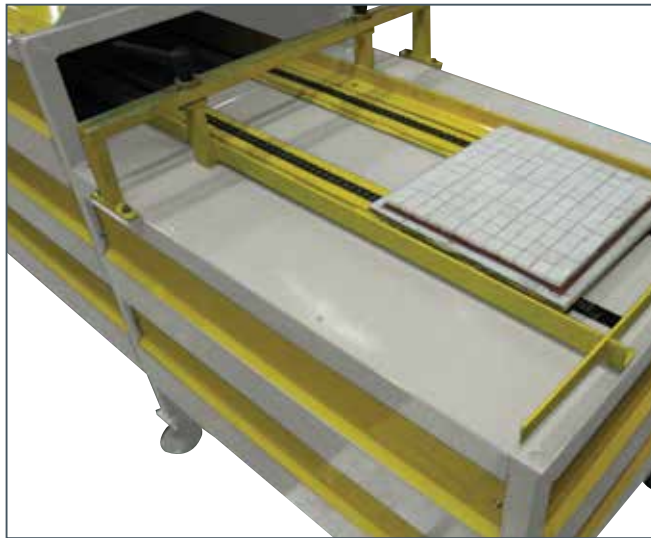
It provides drying the neted products in the most economic way.

FF 700





FİLE KURUTMA FIRINI THE DRY OWEN MACHINE		Teknik Özellikler <i>Technical Datas</i>
MODEL		FF-700
ÇALIŞMA GENİŞLİĞİ <i>WORKING WIDTH</i>		700 mm
TOPLAM ELEKTRİK GÜCÜ <i>TOTAL ELECTRIC POWER</i>		12 kw
KONVEYÖR BANT HIZI <i>CONVEYOR BELT SPEED</i>		0-7 m/dak. <i>m/min.</i>
MAKİNA EBATLARI <i>MACHINE DIMENSIONS</i>		6900 mm. 950 mm. 1550 mm.



DERECELİ YAN KESME MAKİNESİ

DEGREES ROTATING CUTTING MACHINE



DERECELİ YAN KESME MAKİNESİ DEGREES ROTATING CUTTING MACHINE

Teknik Özellikler Technical Datas

MODEL	DYK 1
ANA MOTOR GÜCÜ MAIN MOTOR POWER	9 - 11 kw
MOTOR DEVRİ MOTOR ROTATION	1400 - 2800 d/dak. r.p.m.
TOPLAM MOTOR GÜCÜ TOTAL MOTOR POWER	14.5 kw
VAGON HAREKETİ TABLE MOVEMENT	Manuel (*)

* Opsiyonel hidrolik hareket uygulanabilir. / Options hidrolic movement can be

DYK 1



VİBRASYONLU ESKİTME SİSTEMİ THE TUMBLING

TOKSEL®

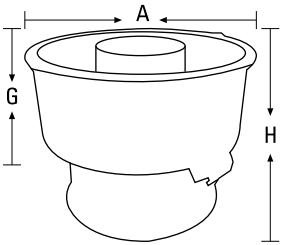
Mermerin keskin kenarlarının yuvarlaklaştırılmasında ve eskitilmiş yüzey efektinin verilmesinde kullanılır. Bu işlemi vibrasyonun titreşimle hareket etmesinden sağlar.

It is used for rounding the sharp edges of the marble and four giving the surface tumbled effect. This operation is provided by the vibrating movement.

VİBRASYONLU ESKİTME SİSTEMİ THE TUMBLING

Teknik Özellikler Technical Datas

MODEL	V 250	V 400	V 550	V 800	V 1500	V 2200	V 3000	VT 2200
BRÜT HACİM GROSS VOLUME	250	400	585	830	1500	2200	3000	2200
MOTOR GÜCÜ MOTOR POWER	1.5 kw	3 kw	4 kw	5.5 kw	11 kw	15 kw	15 kw	2x11 kw
AĞIRLIK WEIGHT	425 kg	620 kg	1000 kg	1270 kg	2200 kg	2850 kg	3200 kg	3800 kg
MAKİNE KAPLAMA ALANI MACHINE DIMENSIONS								
A	1100 mm	1320 mm	1540 mm	1740 mm	2000 mm	2390 mm	2456 mm	1120 mm
G	380 mm	440 mm	510 mm	560 mm	750 mm	770 mm	780 mm	1090 mm
H	860 mm	970 mm	1025 mm	1150 mm	1240 mm	1380 mm	1400 mm	1450 mm



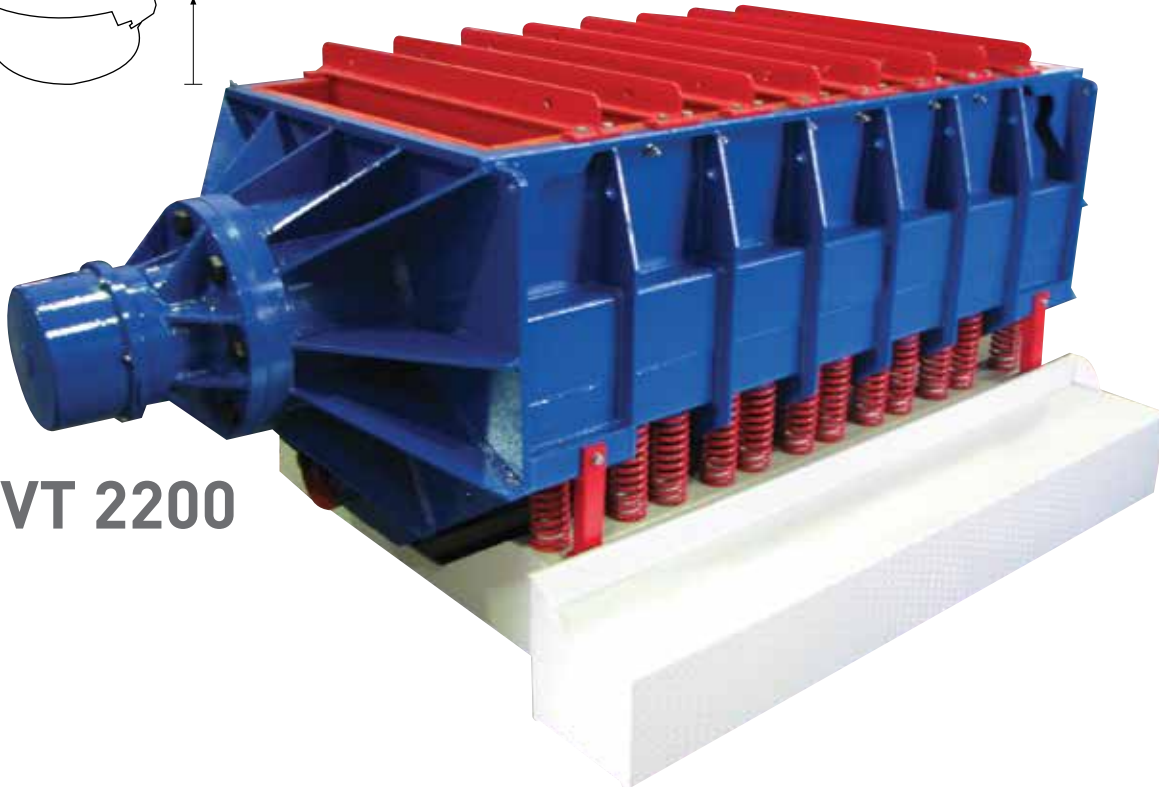
V 250



V 800



VT 2200



V 1800



YARDIMCI EKİPMANLAR

EQUIPMENTS AND ACCESSORIES FOR CUTTING TASK



YP 501

Anahtar / Wrench



YP 502

Anahtar / Wrench



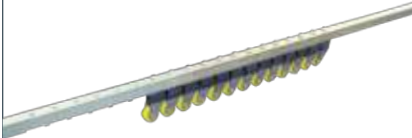
YP 503

Anahtar / Wrench



YP 504

Ay Anahtar / Half Wrench



PBM-L

Baskı Makarası Laması
Pressure Wheels Bars



PBM-16
PBM-22

Baskı Makarası
Pressure Wheels



PBL-16
PBL-22

Baskı Makarası
Pressure Wheels



PBL-16

Baskı Makarası
Pressure Wheels



CBH 50-70

Boncuk Hortum
Water Pipe



KAF 120

Kestamit Ara Flanş
Yellow Spacers



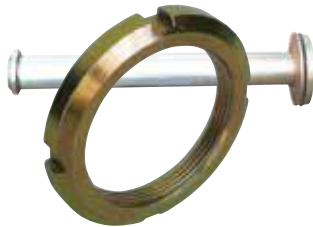
LP 75-120

Liner Pul
Liner Spacers



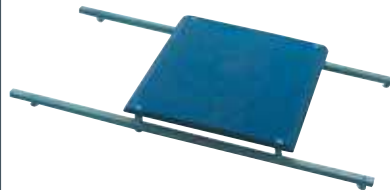
EMF 200

Flanşlar
Metal Flanges



YP 505

Somun / Ring Nut



KBP 70
KBP 50

Baskı Plakası
Pressure Block System



MAB 305

Metal Ara Flanşlar
Metal Spacer Flanges



KV 70
KV 50

Kesim Kovan Borusu
Disc Holder Sleeve



R 50

Rulo / Roller



CBK 500-700

Kaplin



AP 460

Pençe / Paw



APD 460

**Abrasiv Disk
Abresive Plate**



AVM 460

**Abresiv Mafsal
Abresive Joint**



KFK 460

**Frezeli Kaplin
Habbbed Coupling**



KK 460

Körük / Carriage



T 90 - F 90

**Tutkal - File
Glue - Mesh**



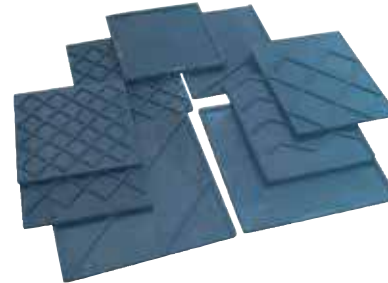
C 300

**Kesim Bıçakları
Cutting Tools**



BK 370

**Bekletme Kalıbı
Waiting Moulds**



KK Series



DK Series

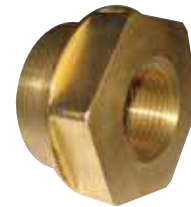


Konveyör Bantları / Conveyor Belts



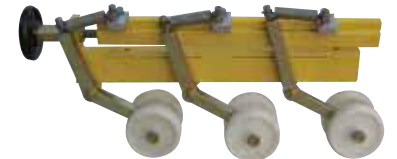
P480

**Elastik Abrasiv Kaplini
Flexible couplini**



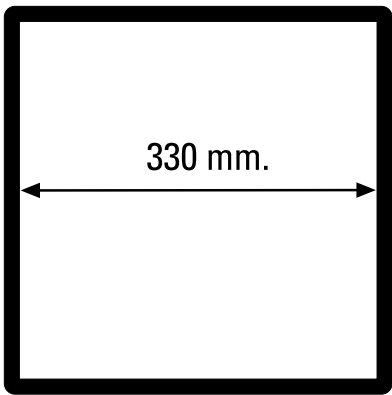
ÇBS- 6

**Altı köşe bronz somun
Hexagon bronze nut**

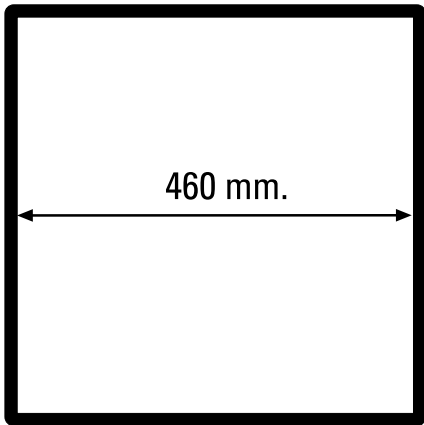


**Makaralı baskı sistemi
Wheeled pressure system**

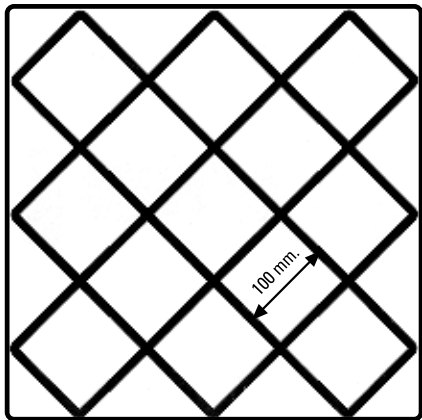
KESİM KALIPLARI
THE CUTTING MOULDS



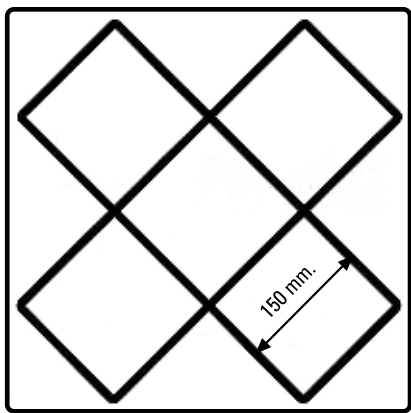
KK 01



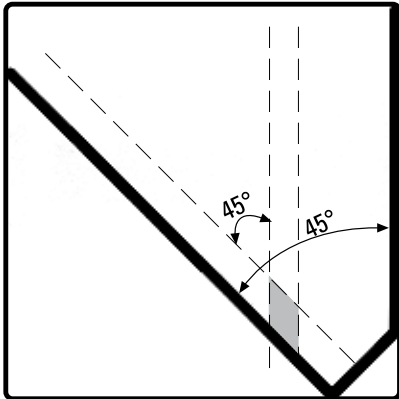
KK 02



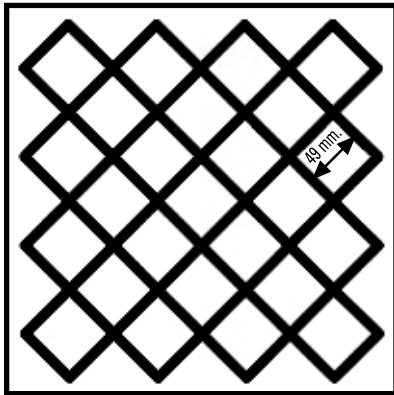
KK 03



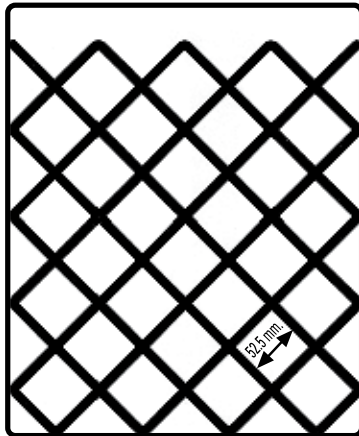
KK 04



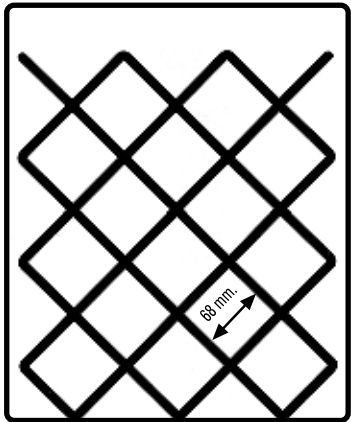
KK 05



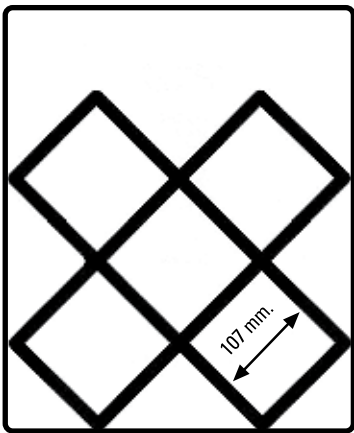
KK 06



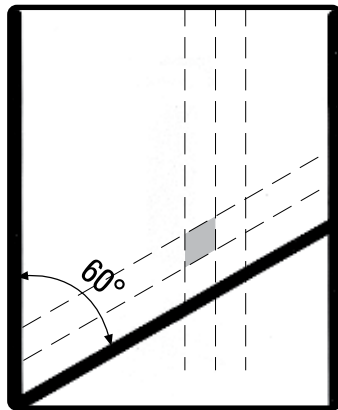
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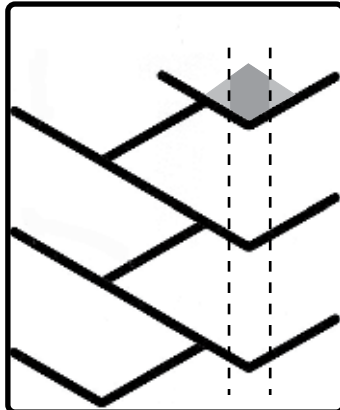
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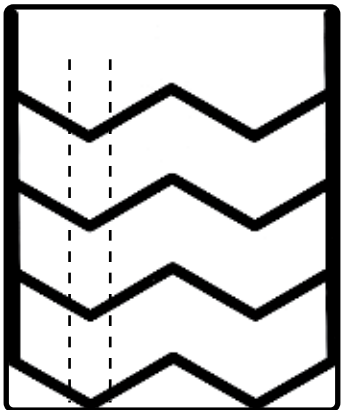
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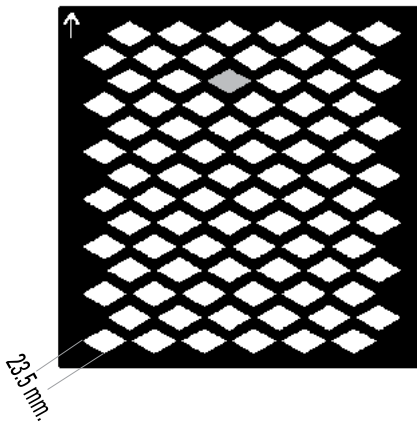
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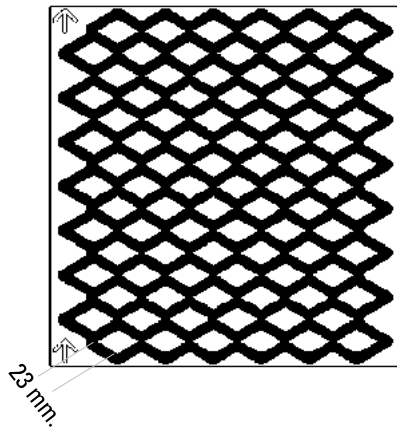
KK 11



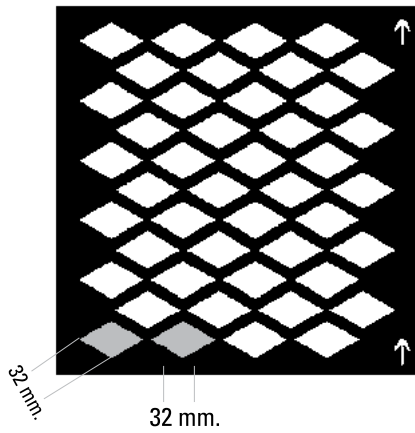
KK 12



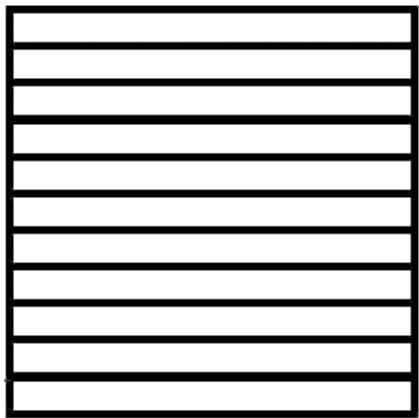
KK 13



KK 14

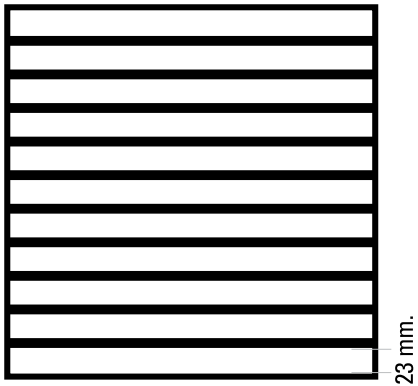


KK 15

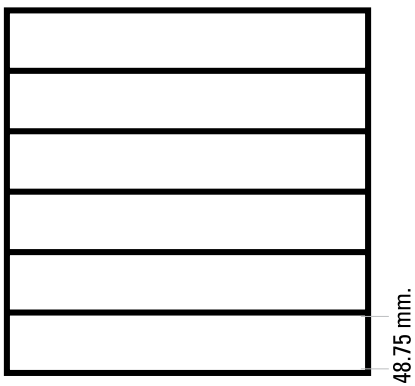


KK 16

KESİM KALIPLARI
THE CUTTING MOULDS



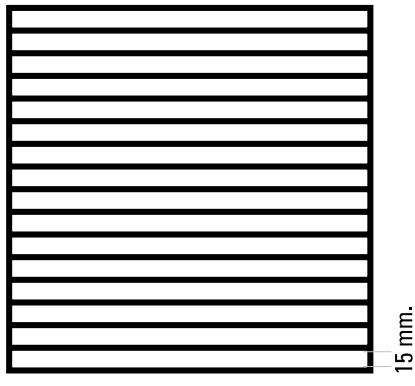
KK 17



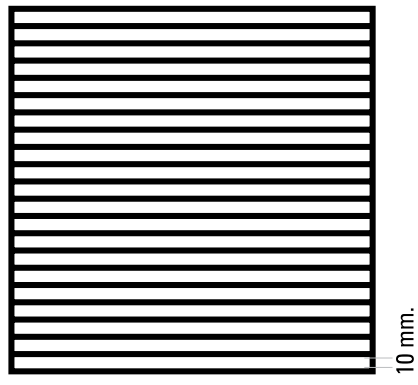
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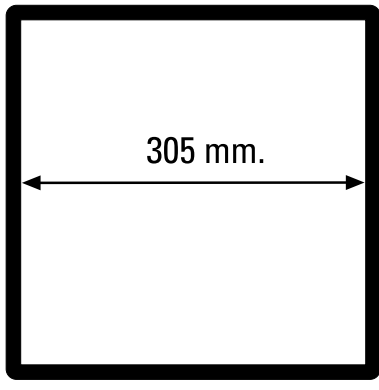
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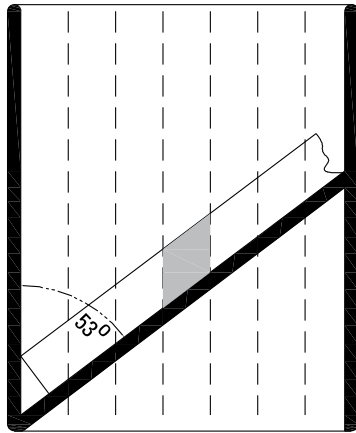
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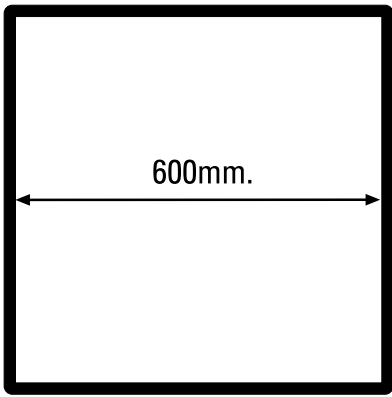
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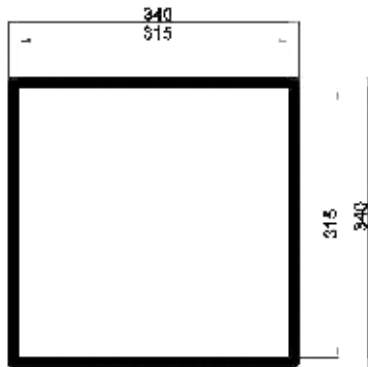
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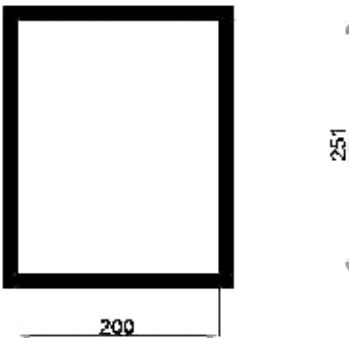
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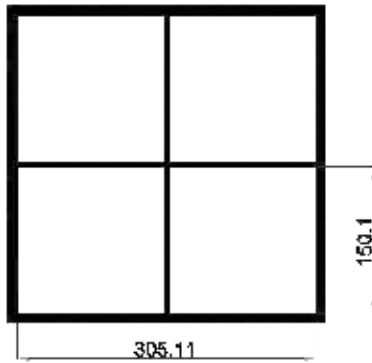
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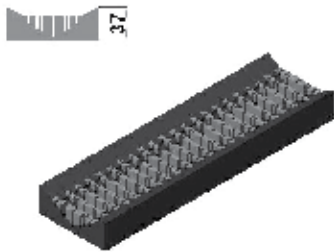
KK 25



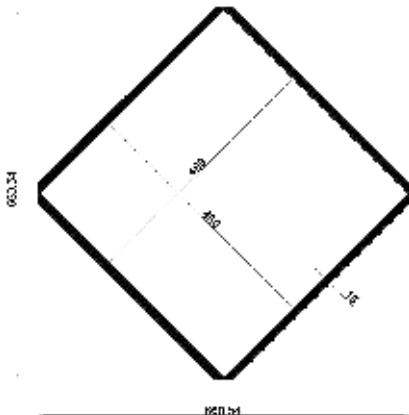
KK 26



KK 27



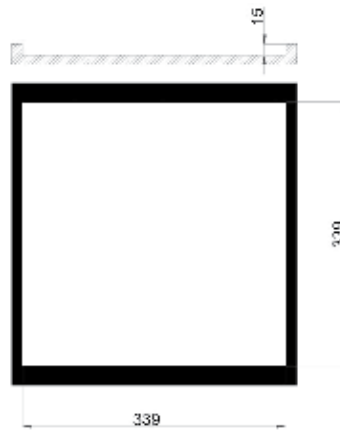
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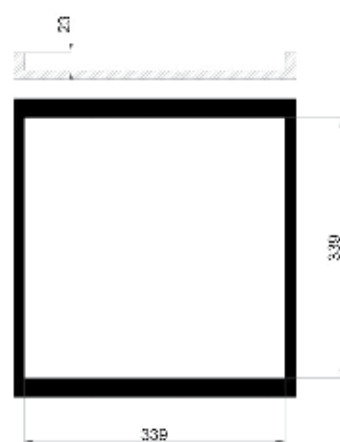
KK 29



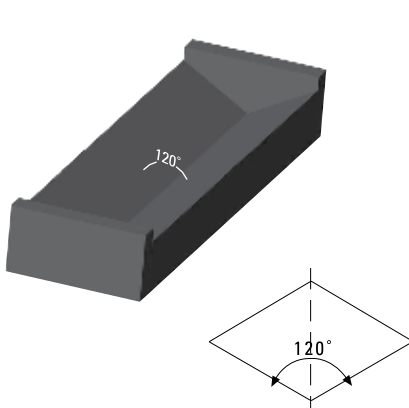
KK 30



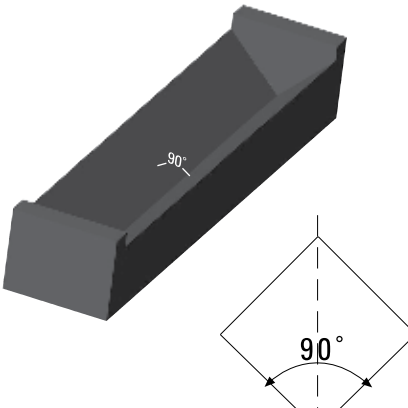
KK 31



KK 32

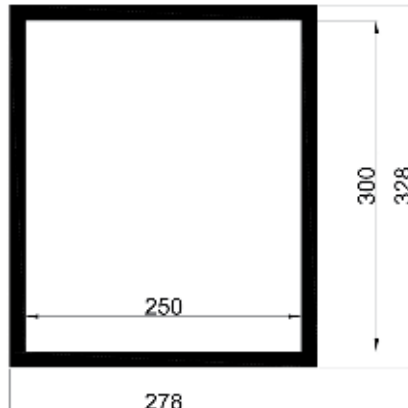


KK 33

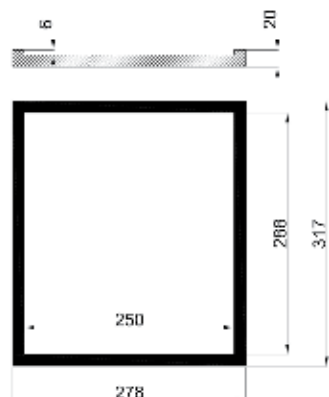


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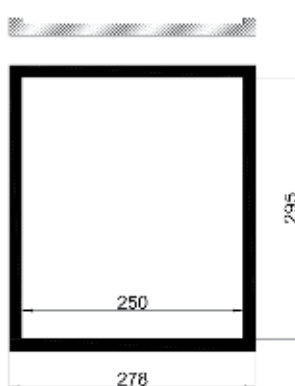
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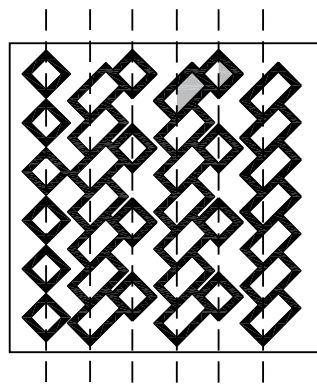
KK 36



KK 37



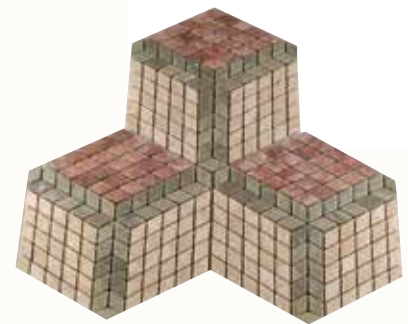
KK 38

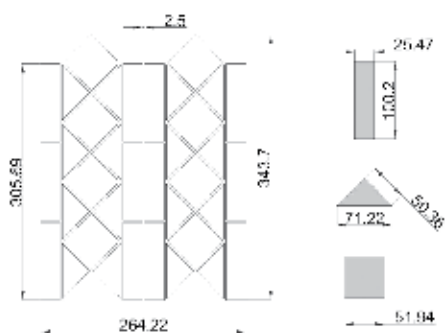


KK 541

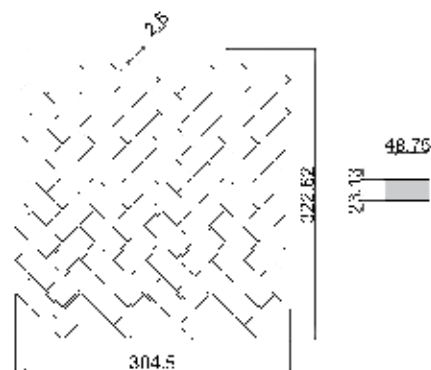
DİZGİ KALIPLARI

THE STRING MOULDS

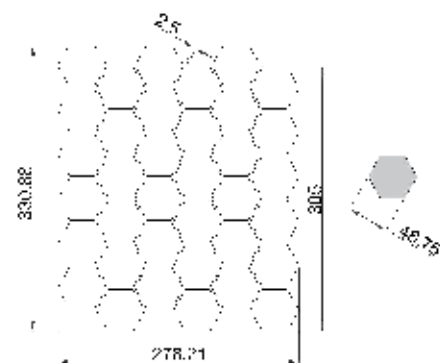




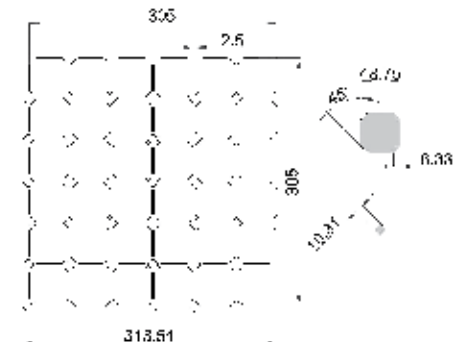
DK 001



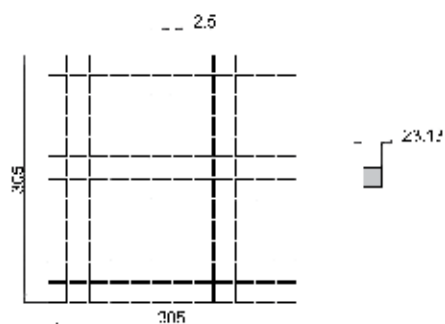
DK 002



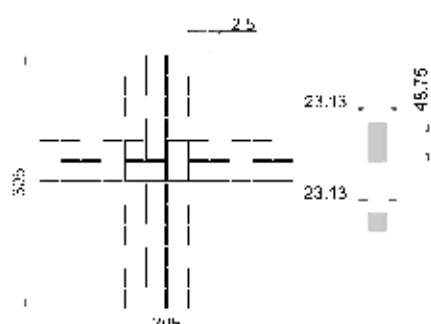
DK 003



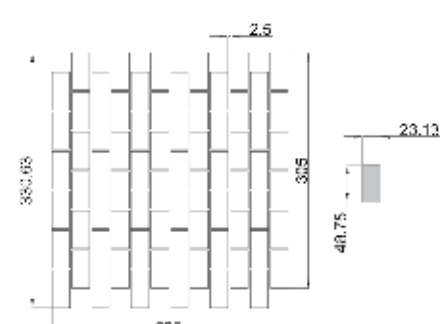
DK 004



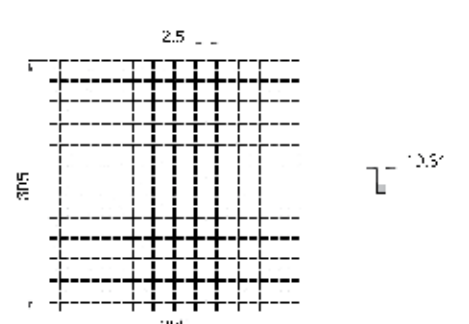
DK 005



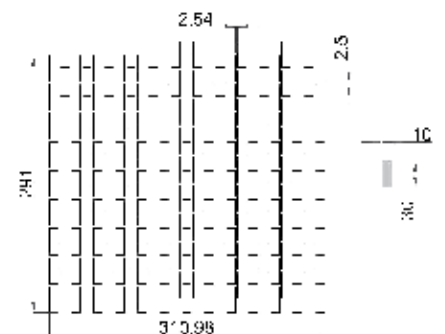
DK 006



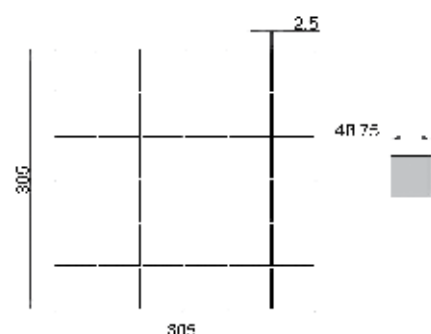
DK 007



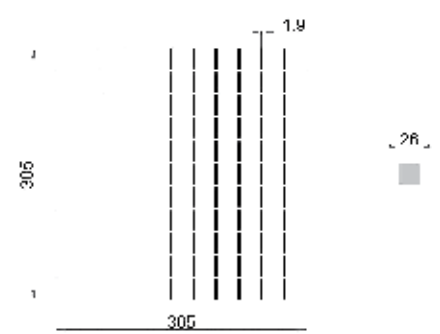
DK 008



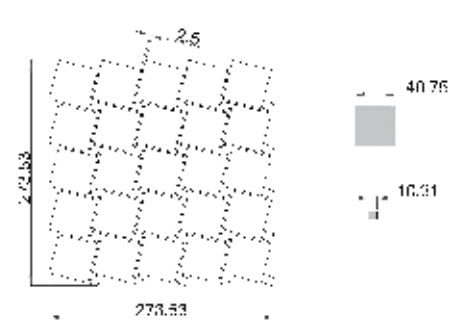
DK 009



DK 010

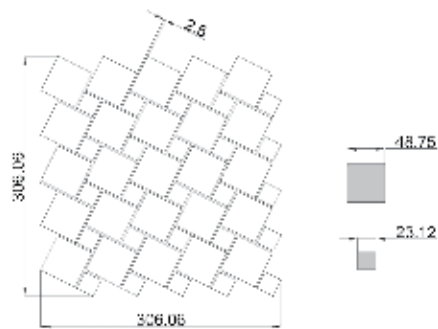


DK 011

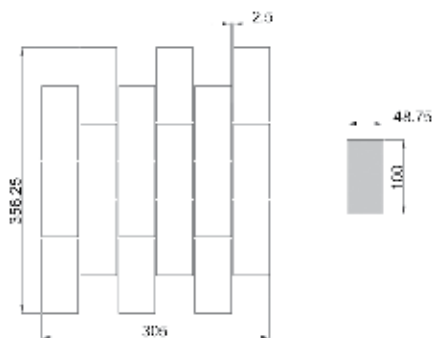


DK 012

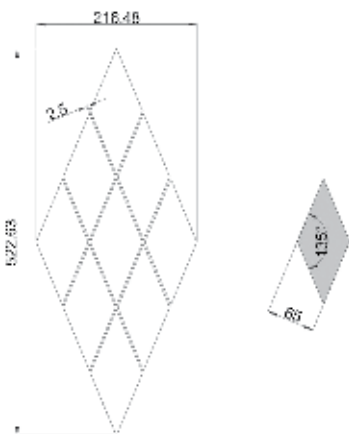
DİZGİ KALIPLARI
THE STRING MOULDS



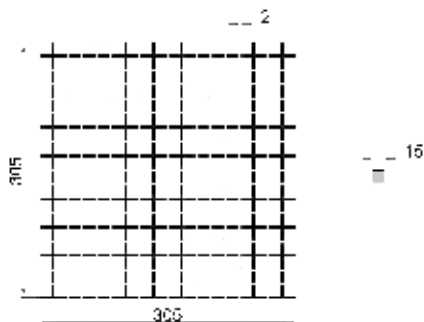
DK 013



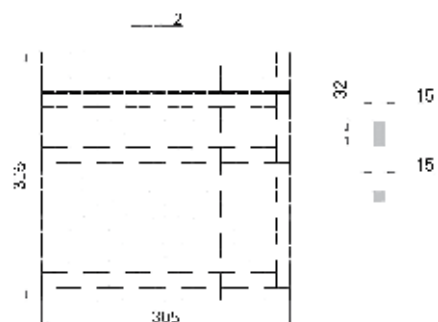
DK 014



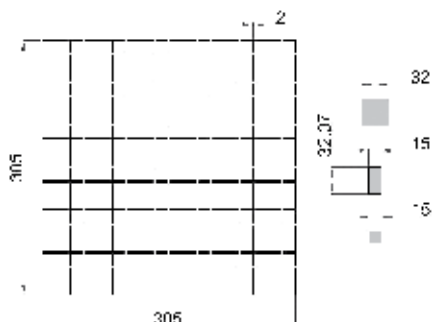
DK015



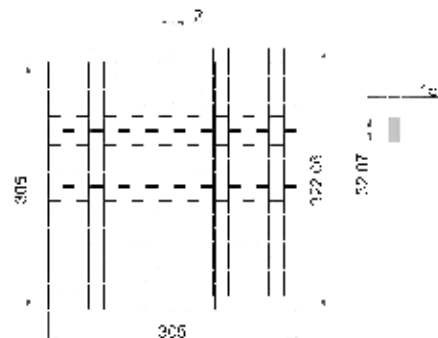
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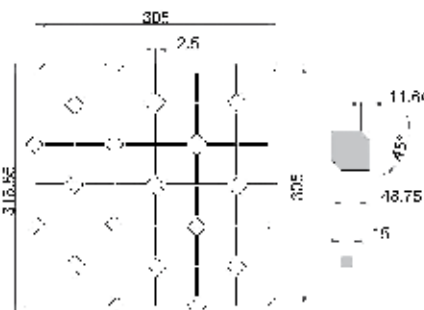
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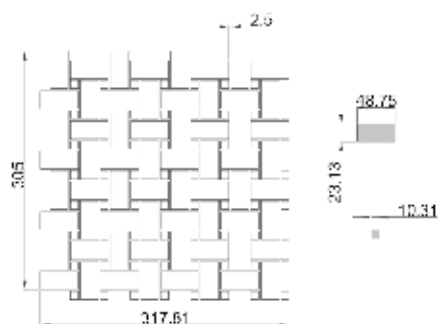
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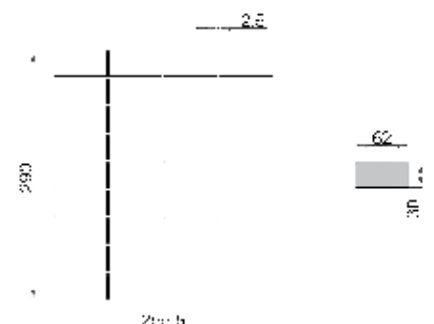
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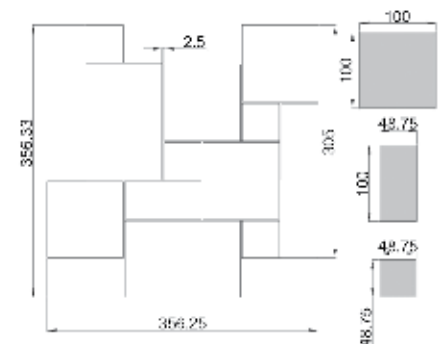
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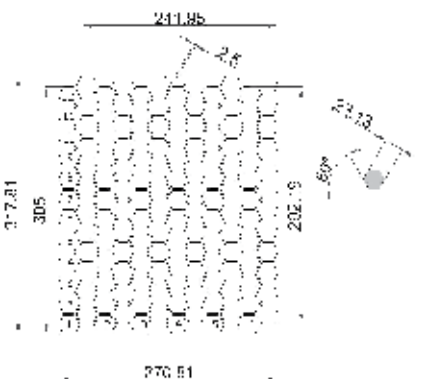
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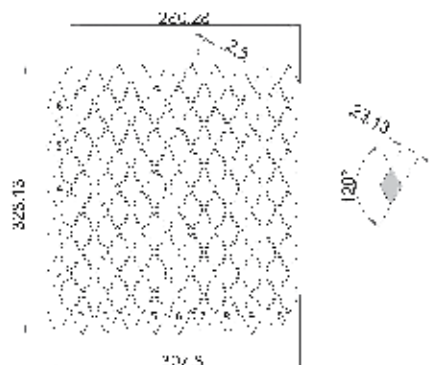
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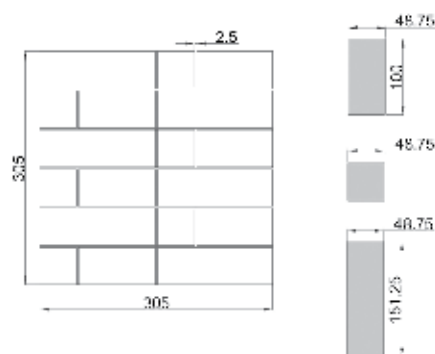
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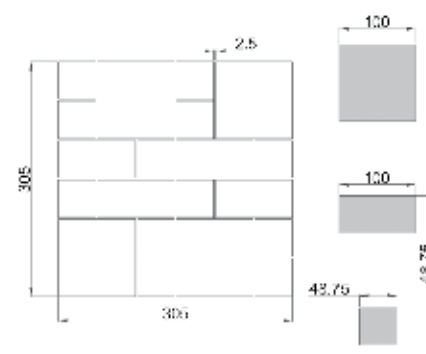
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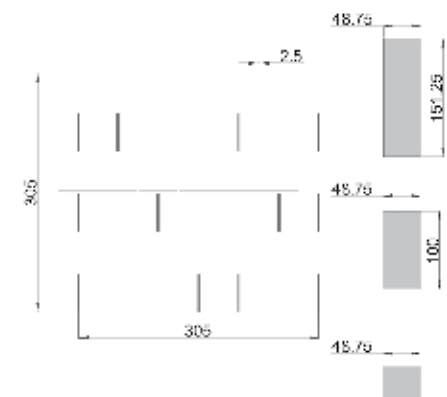
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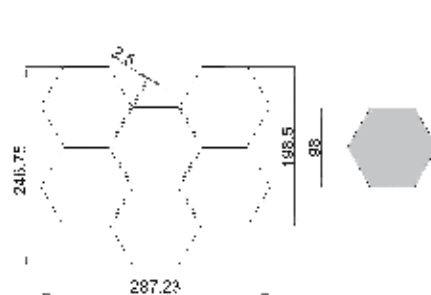
DK 026



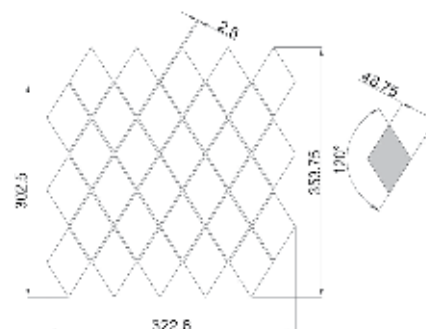
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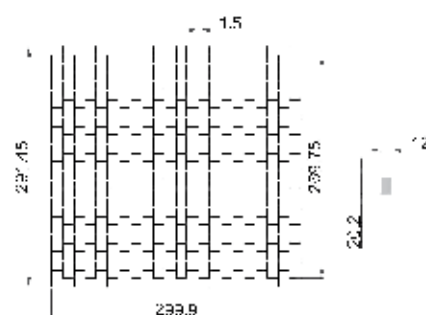
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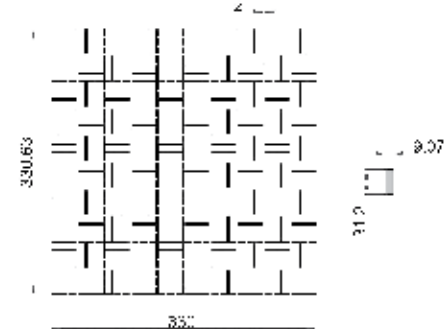
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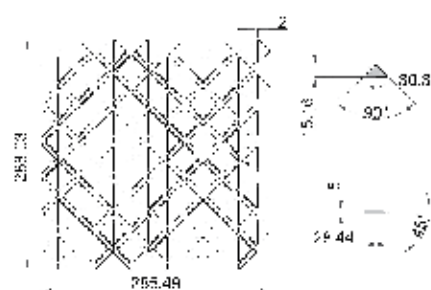
DK 030



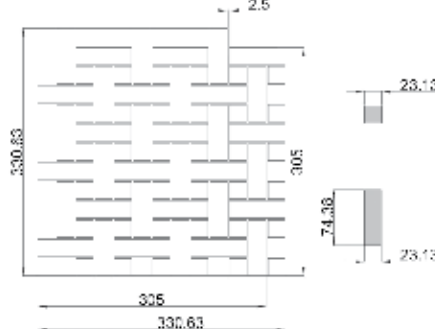
DK 031



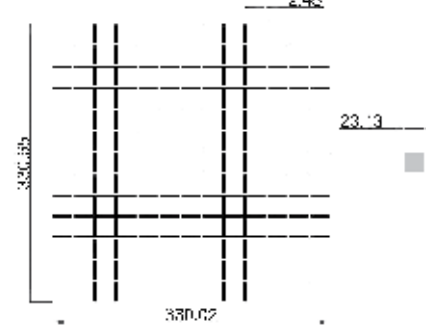
DK 032



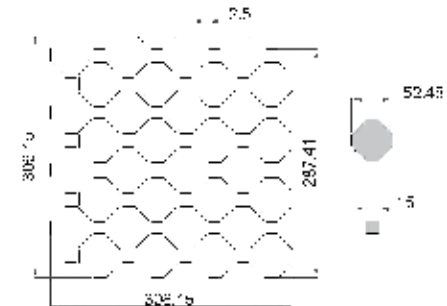
DK 033



DK 034



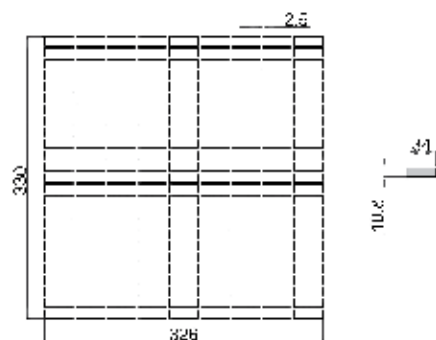
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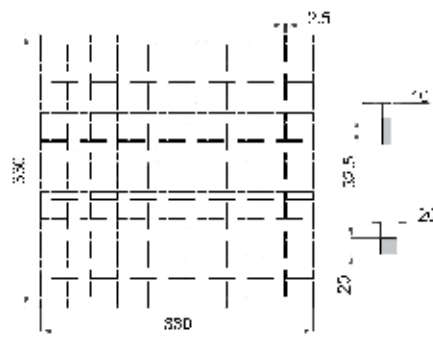
DK 036

DİZGİ KALIPLARI

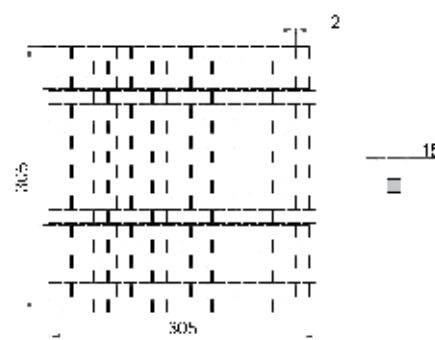
THE STRING MOULDS



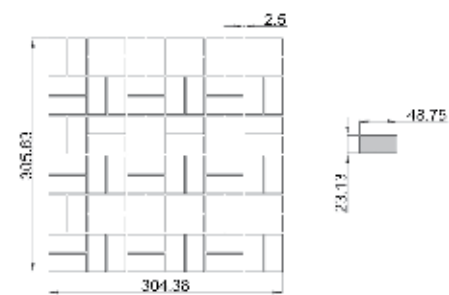
DK 037



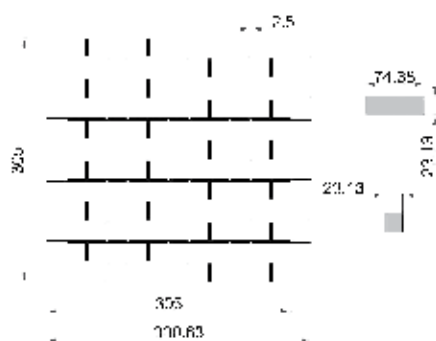
DK 038



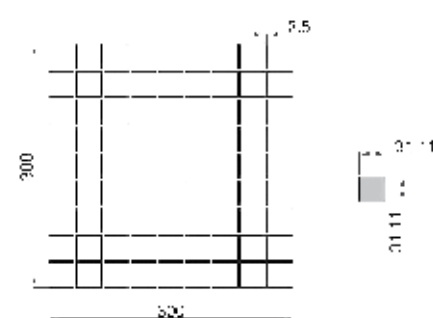
DK 039



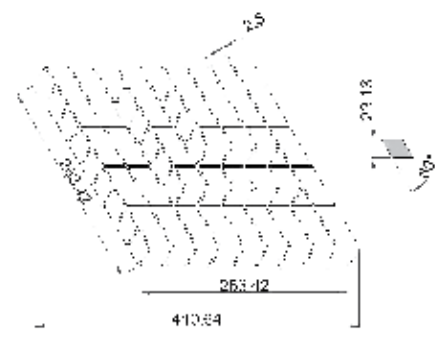
DK 040



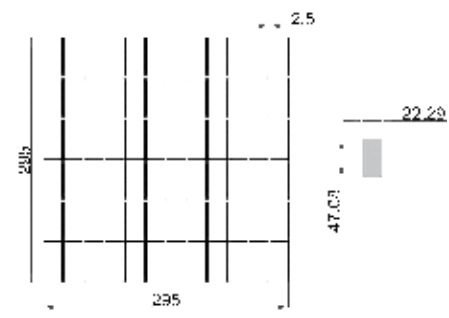
DK 041



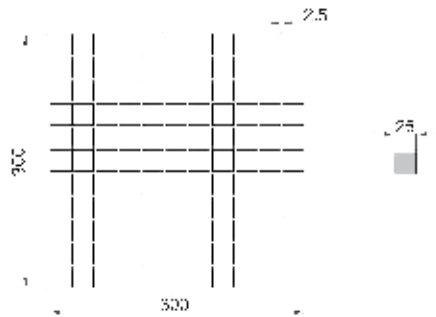
DK 042



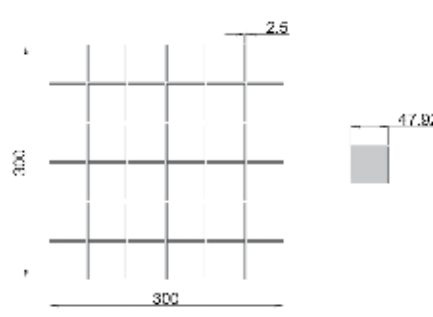
DK 043



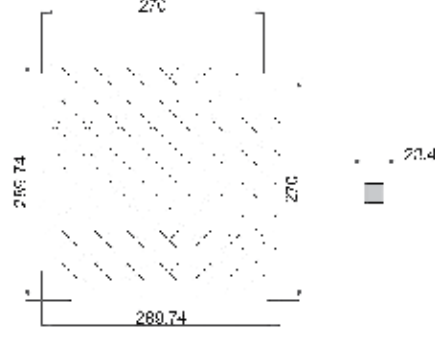
DK 044



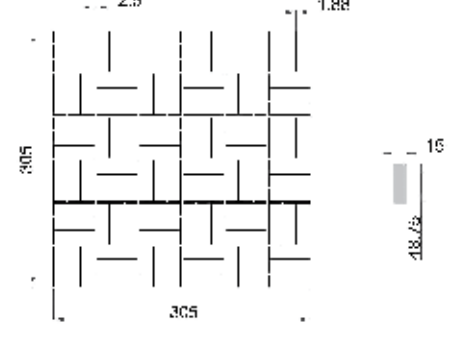
DK 045



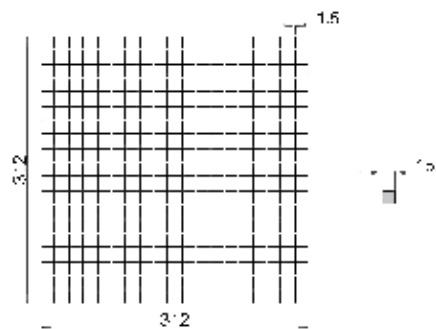
DK 046



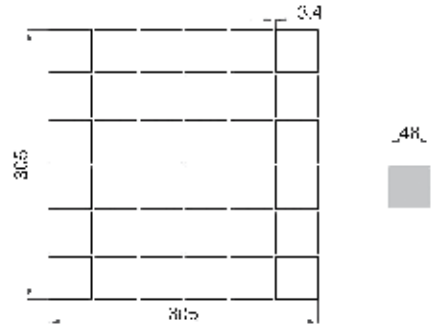
DK 047



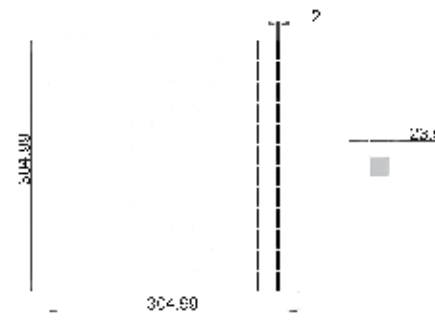
DK 048



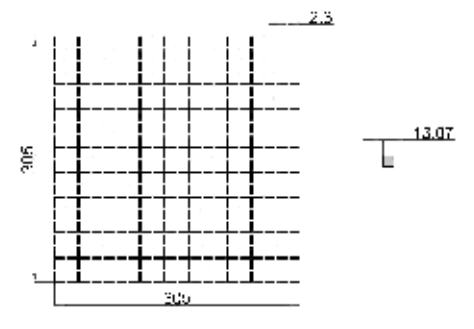
DK 049



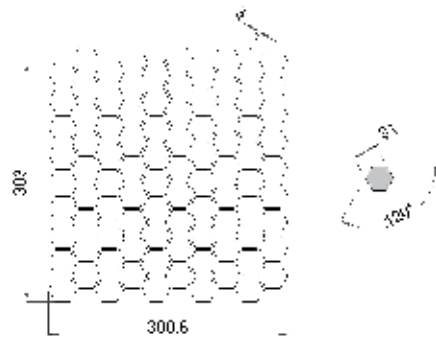
DK 050



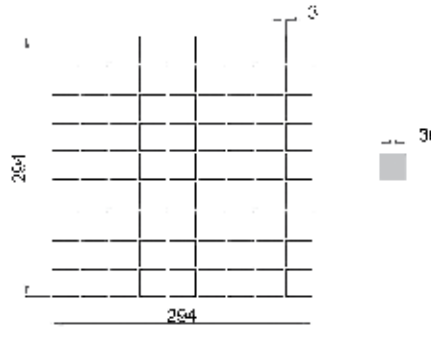
DK 051



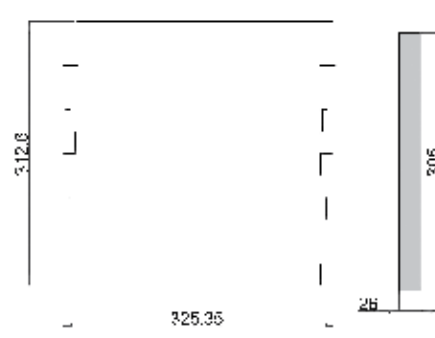
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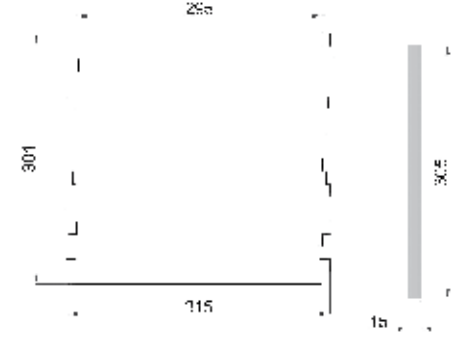
DK 053



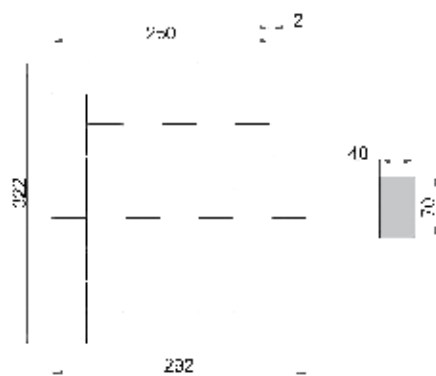
DK 054



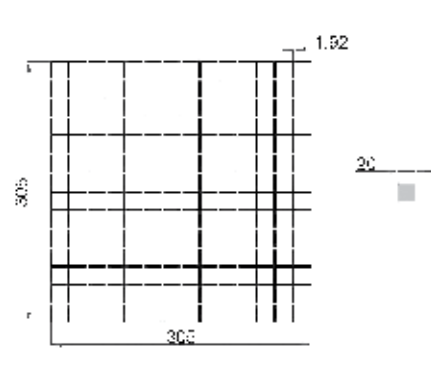
DK 055



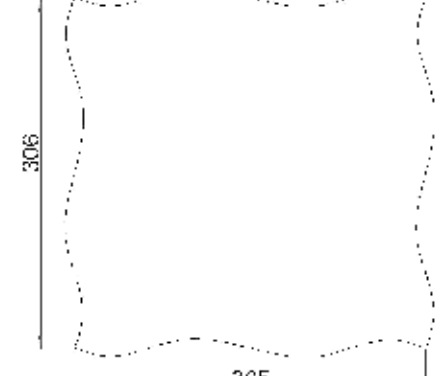
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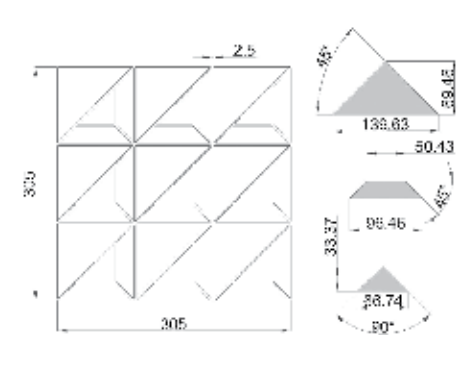
DK 057



DK 058



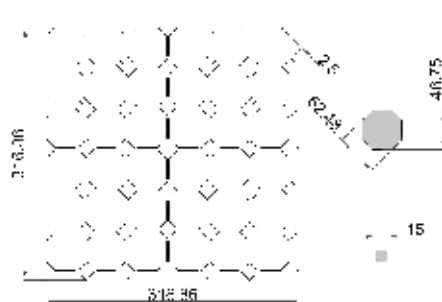
DK 059



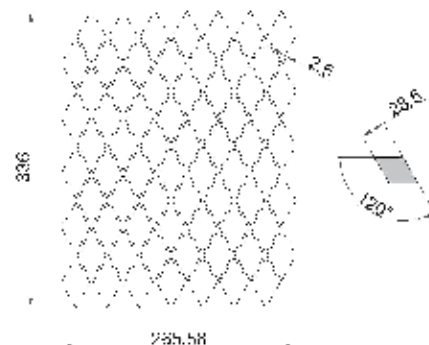
DK 060

DİZGİ KALIPLARI

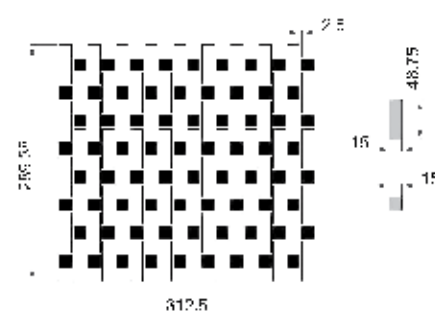
THE STRING MOULDS



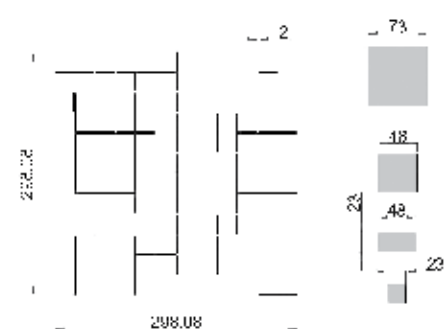
DK 061



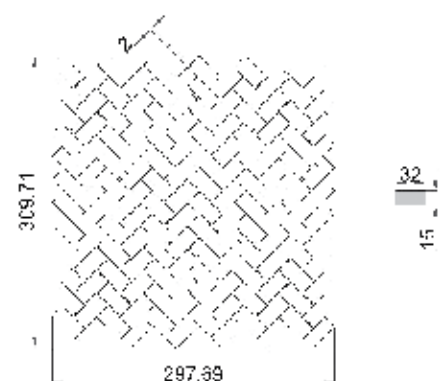
DK 062



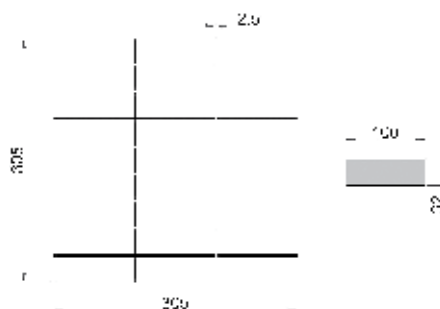
DK 063



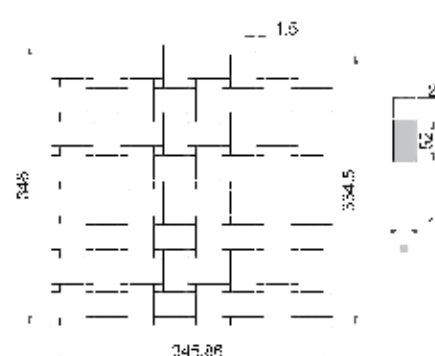
DK 064



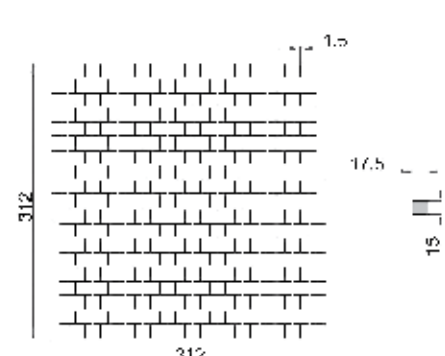
DK 065



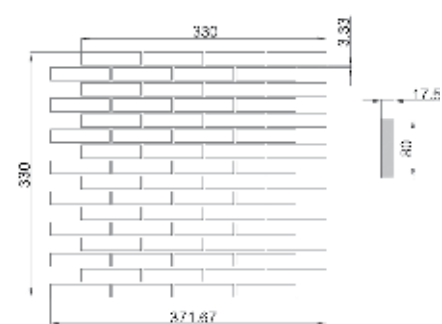
DK 066



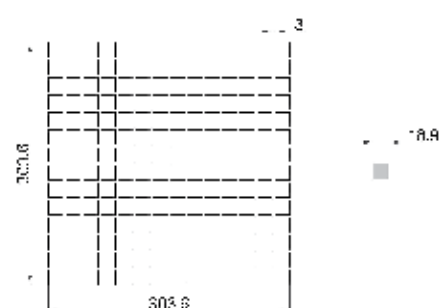
DK 067



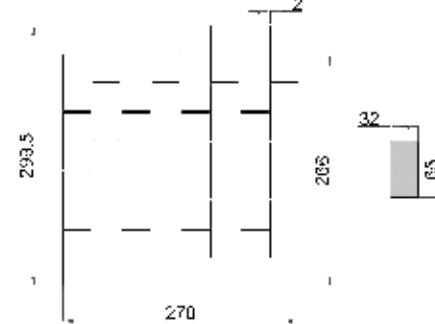
DK 068



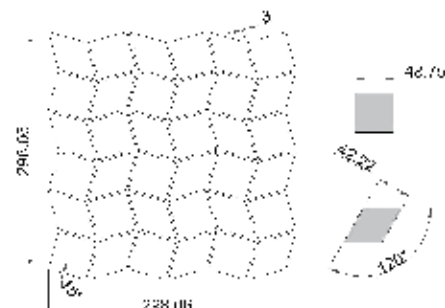
DK 069



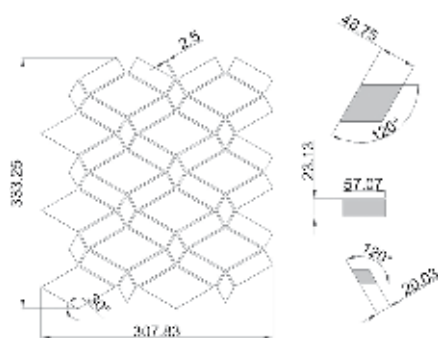
DK 070



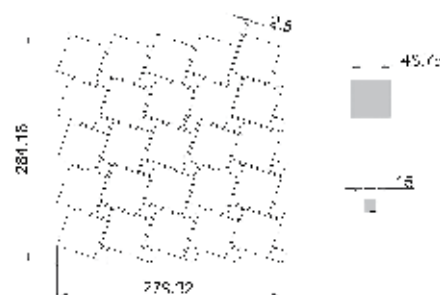
DK 071



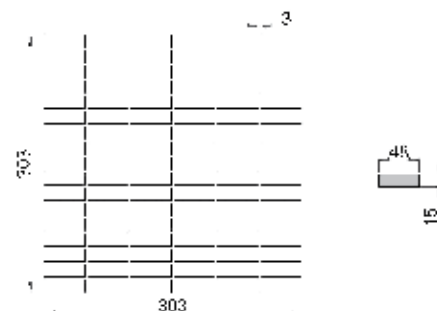
DK 072



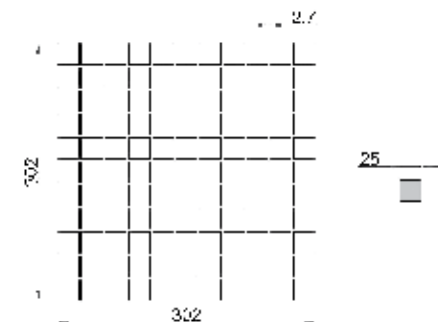
DK 073



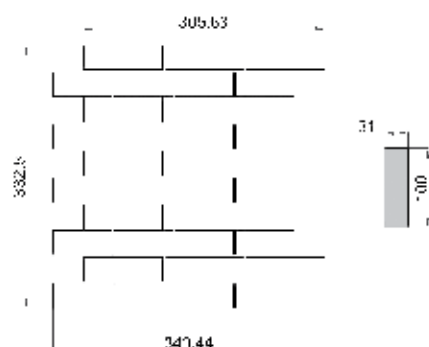
DK 074



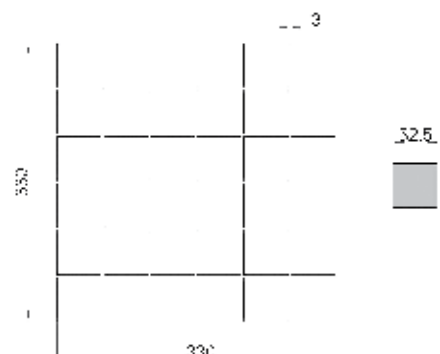
DK 075



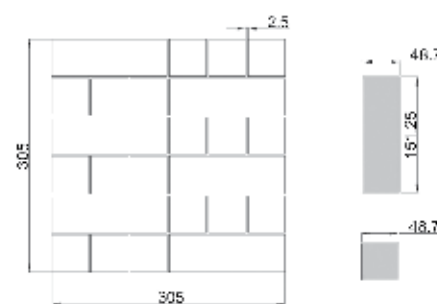
DK 076



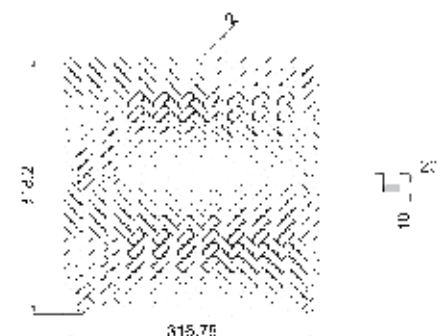
DK 077



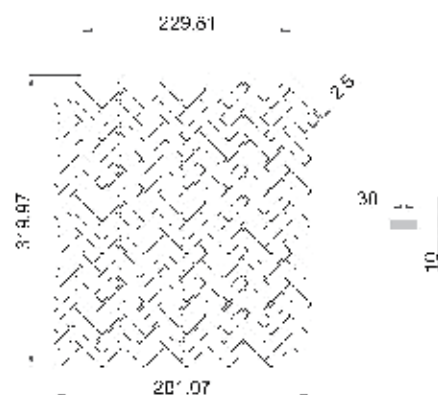
DK 078



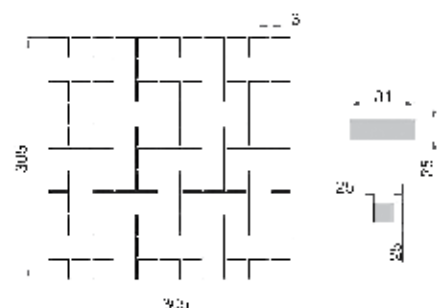
DK 079



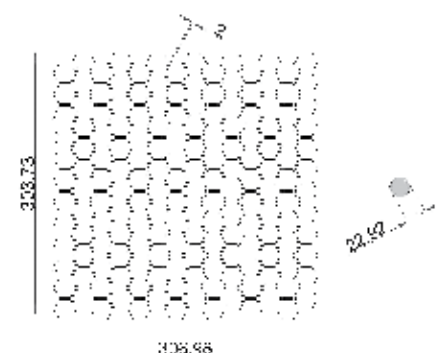
DK 080



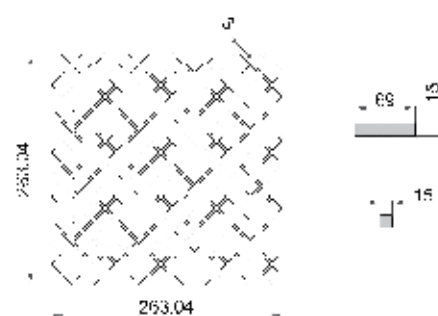
DK 081



DK 082

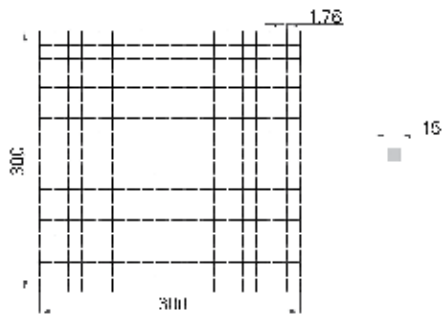


DK 083

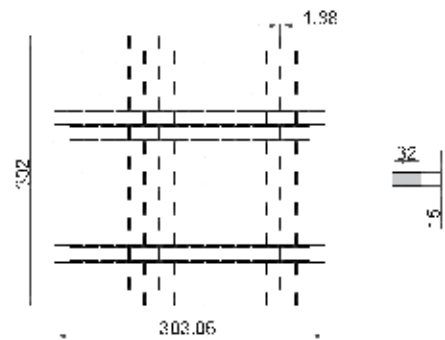


DK 084

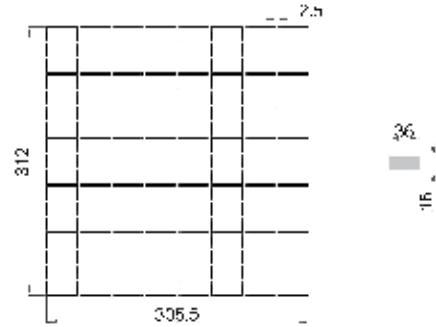
THE STRING MOULDS



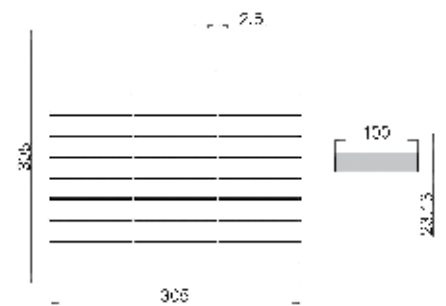
DK 085



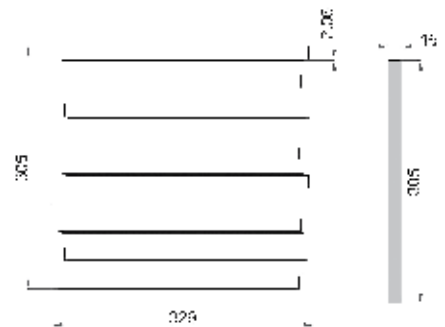
DK 086



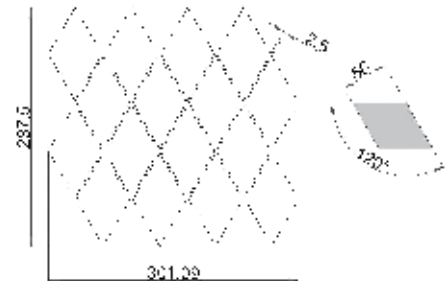
DK 087



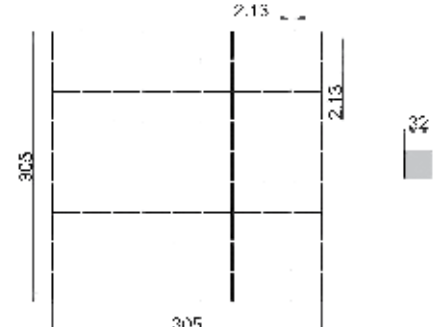
DK 088



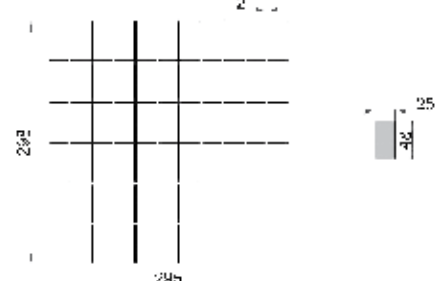
DK 089



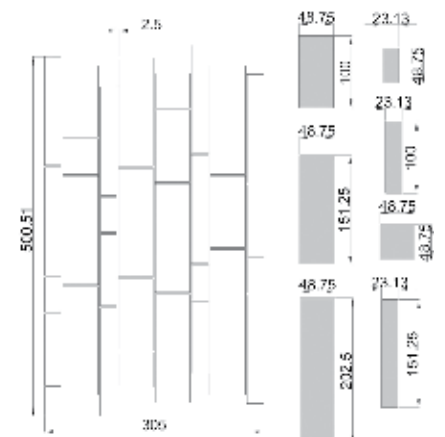
DK 090



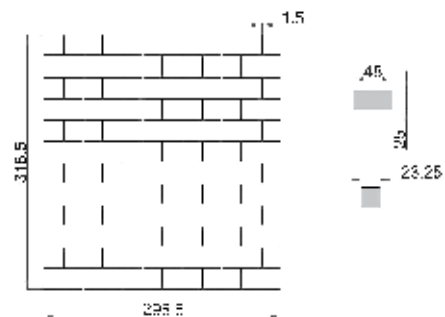
DK 091



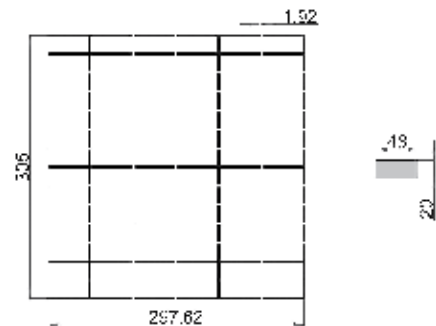
DK 092



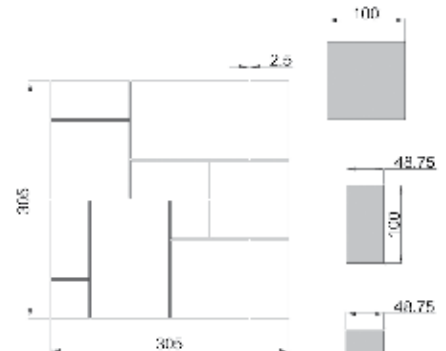
DK 093



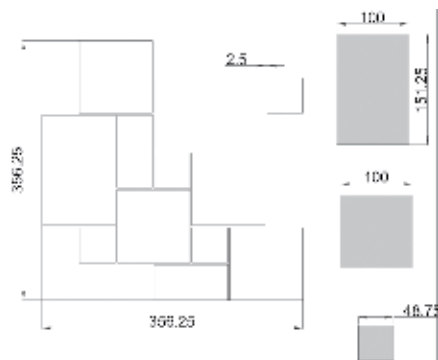
DK 094



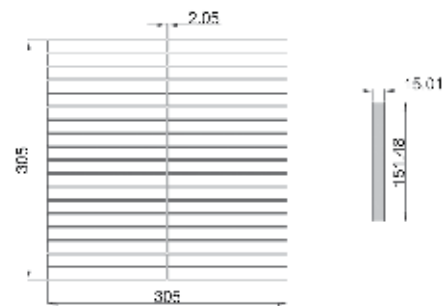
DK 095



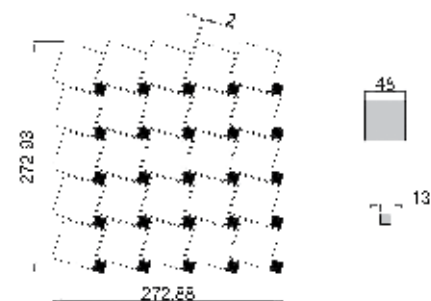
DK 096



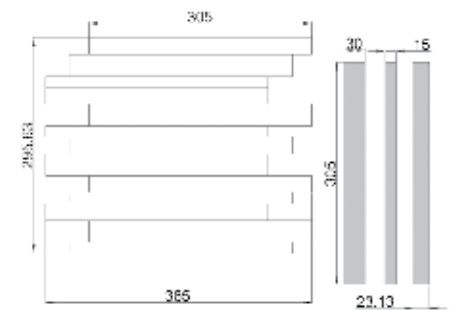
DK 097



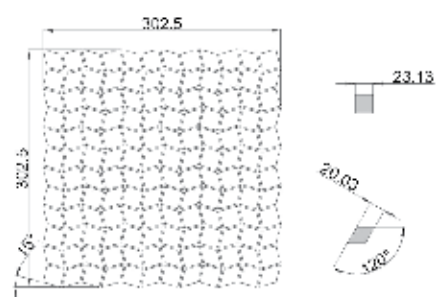
DK 098



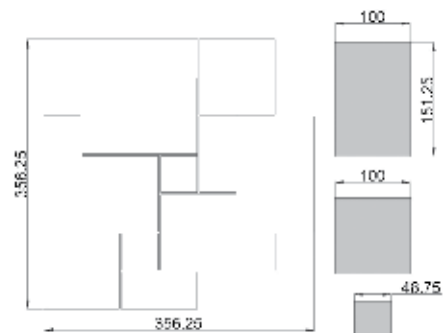
DK 099



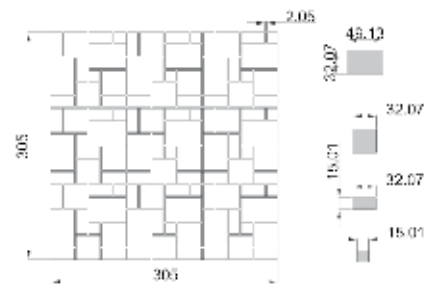
DK 100



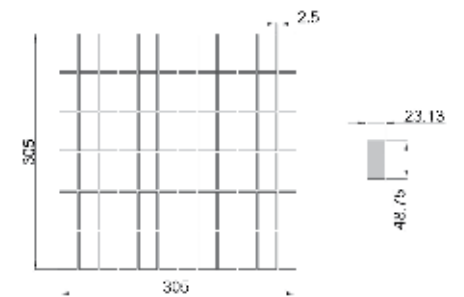
DK 101



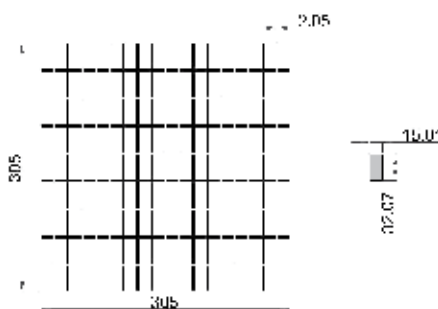
DK 102



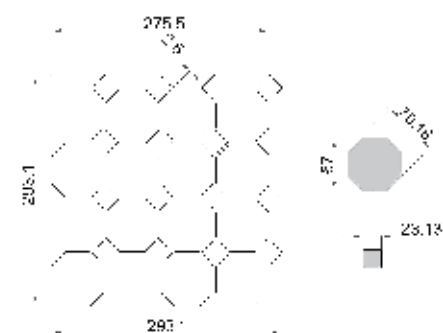
DK 103



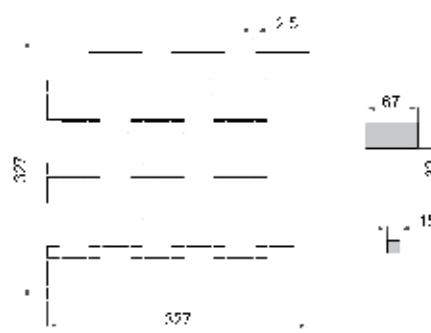
DK 104



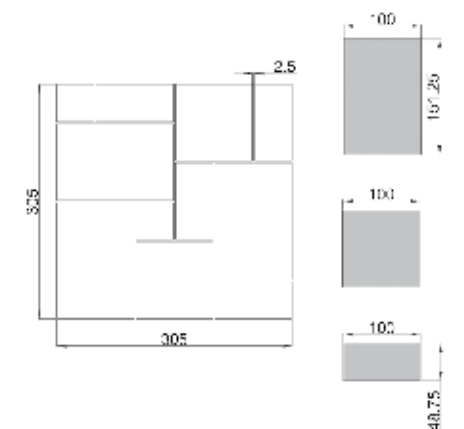
DK 105



DK 106

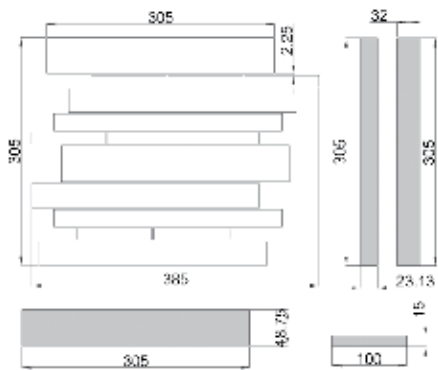


DK 107

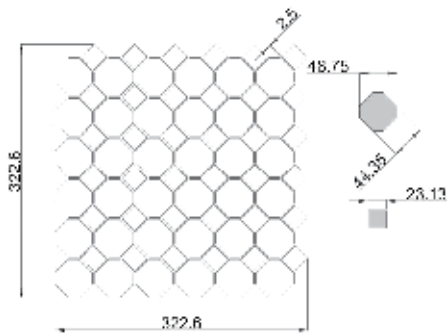


DK 108

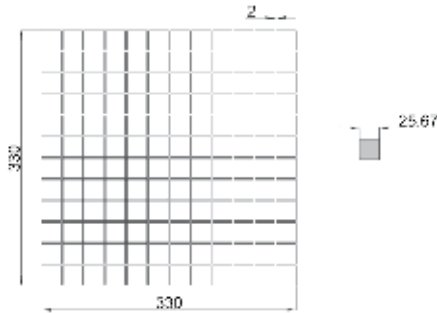
DİZGİ KALIPLARI
THE STRING MOULDS



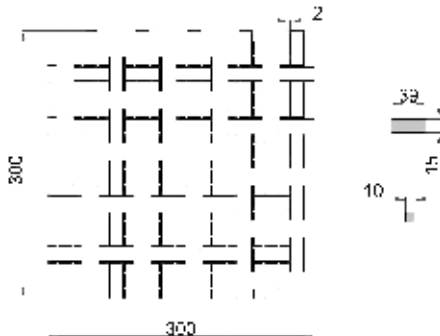
DK 109



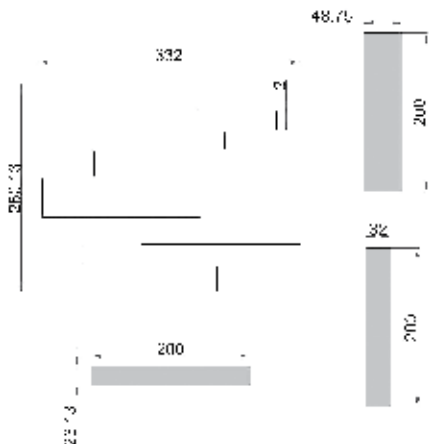
DK 110



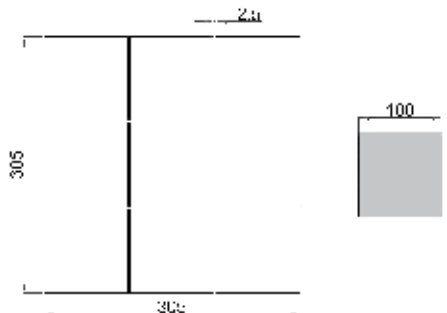
DK 111



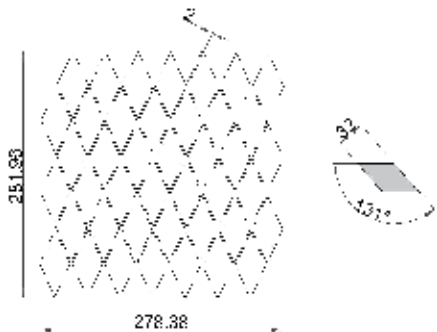
DK 112



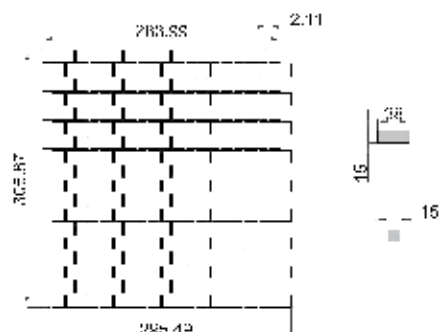
DK 113



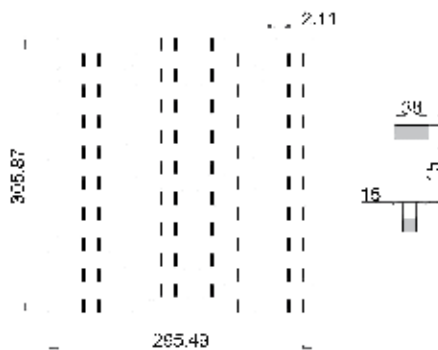
DK 114



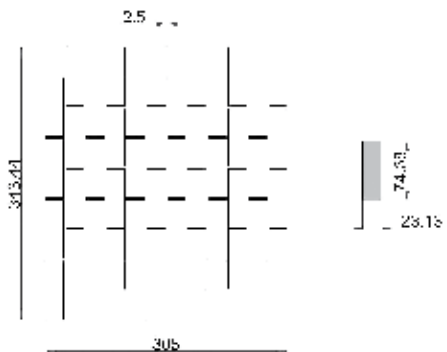
DK 115



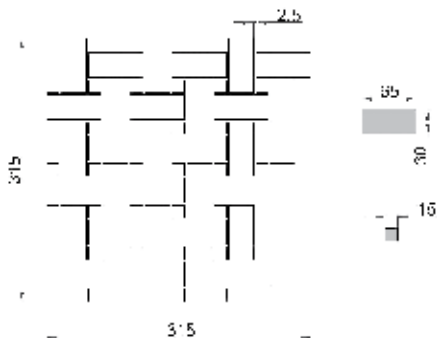
DK 116



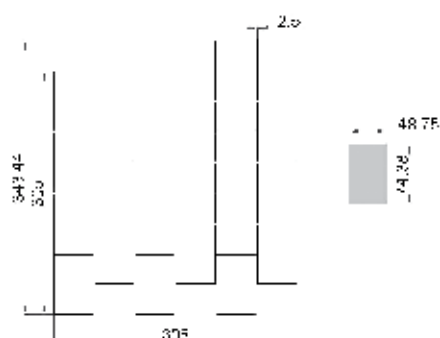
DK 117



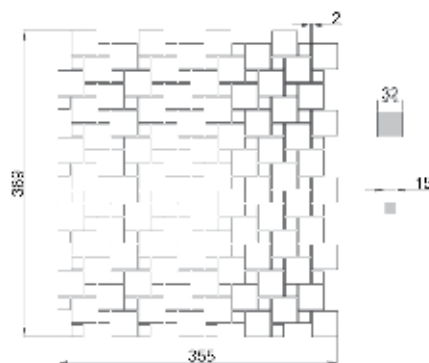
DK 118



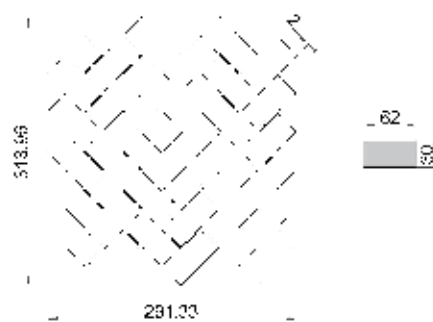
DK 119



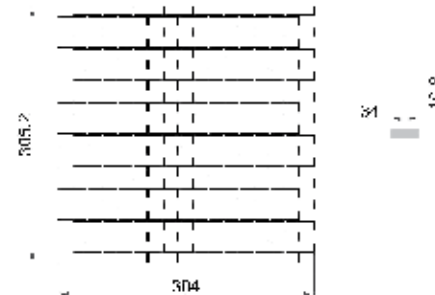
DK 120



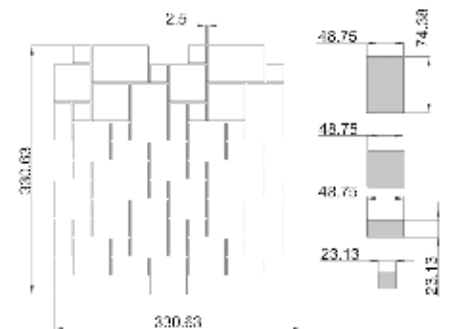
DK 121



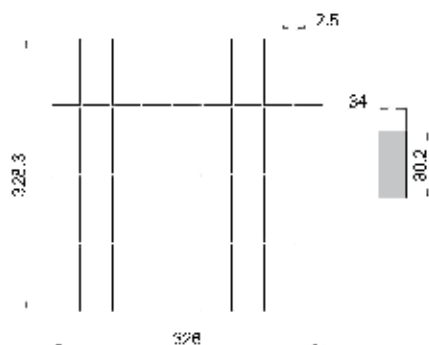
DK 122



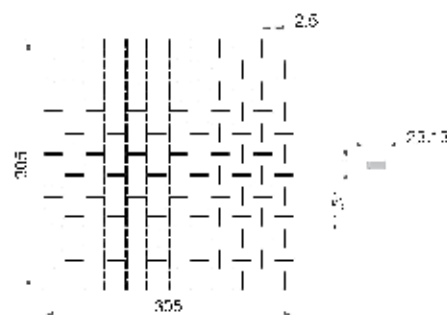
DK 123



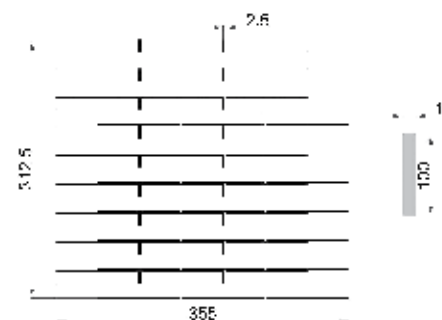
DK 124



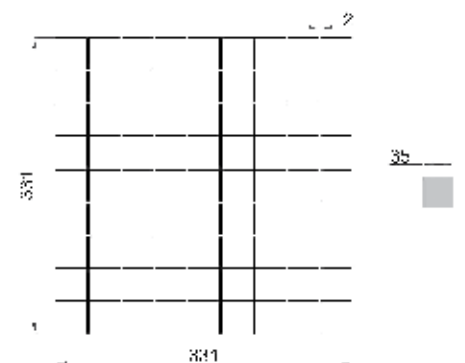
DK 125



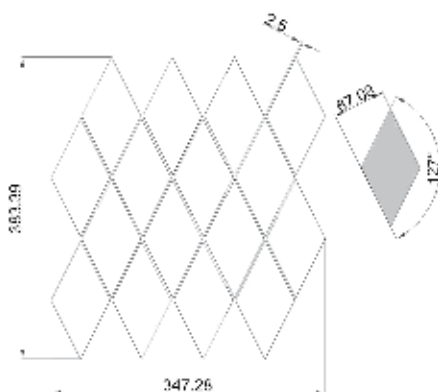
DK 126



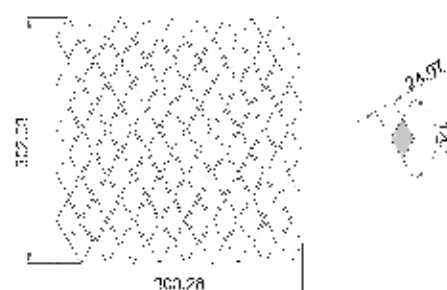
DK 127



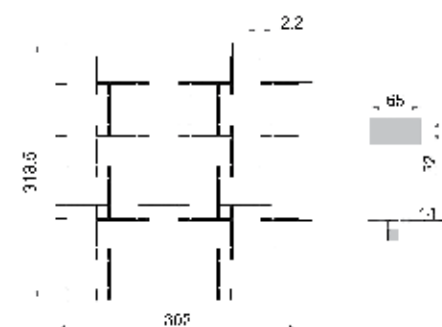
DK 128



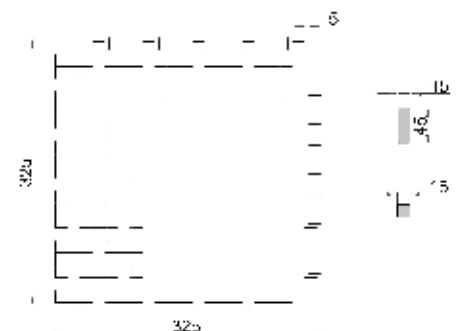
DK 129



DK 130

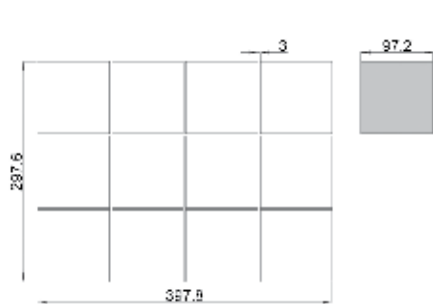


DK 131

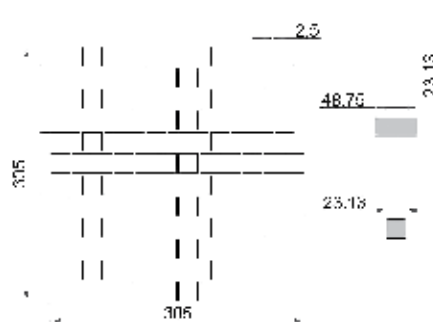


DK 132

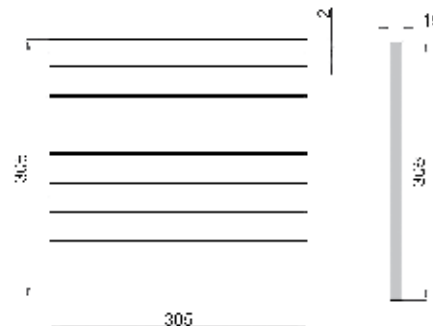
DİZGİ KALIPLARI
THE STRING MOULDS



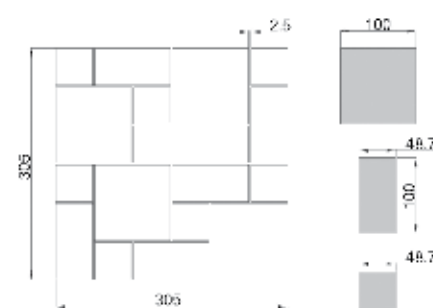
DK 133



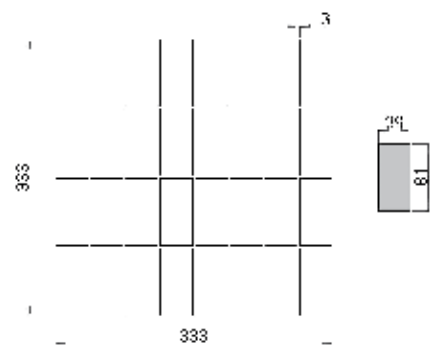
DK 134



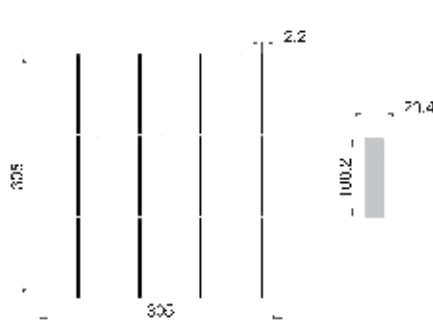
DK 135



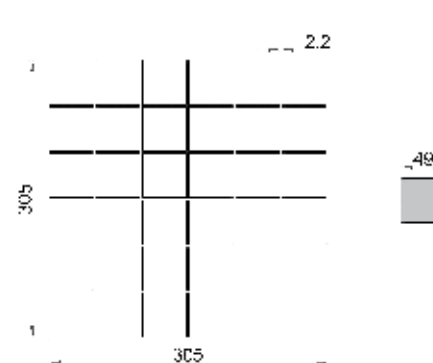
DK 136



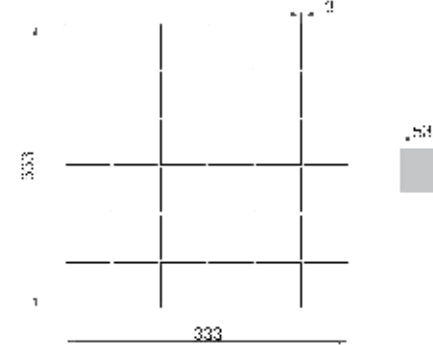
DK 137



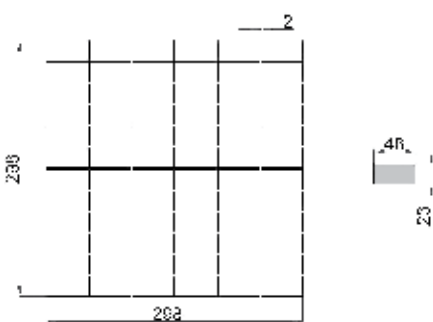
DK 138



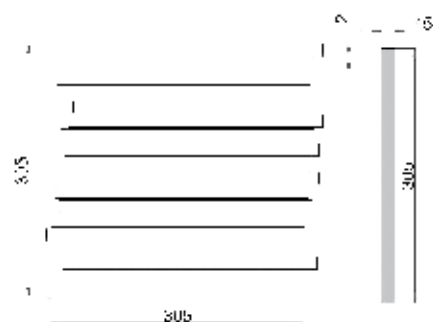
DK 139



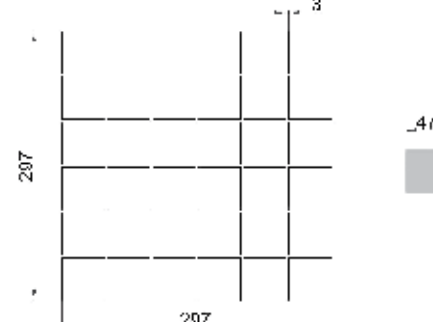
DK 140



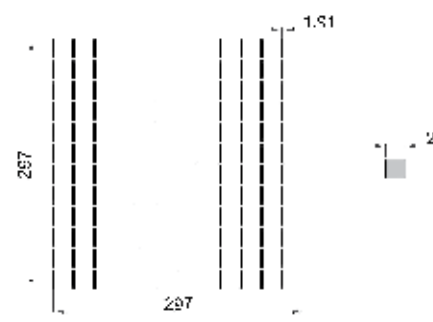
DK 141



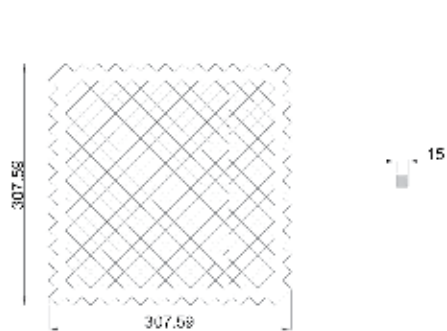
DK 142



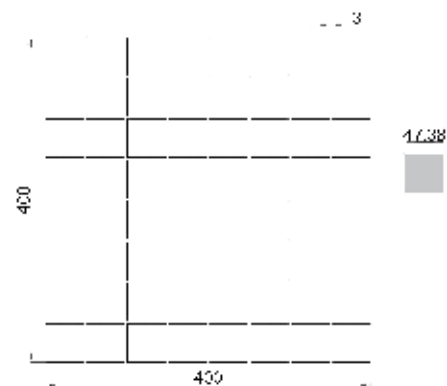
DK 143



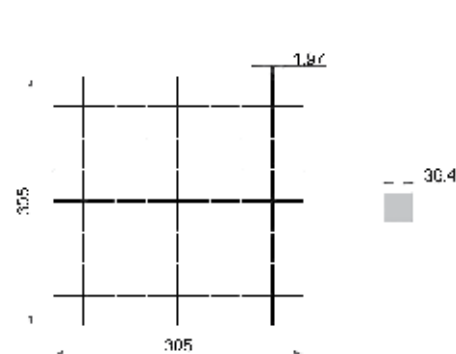
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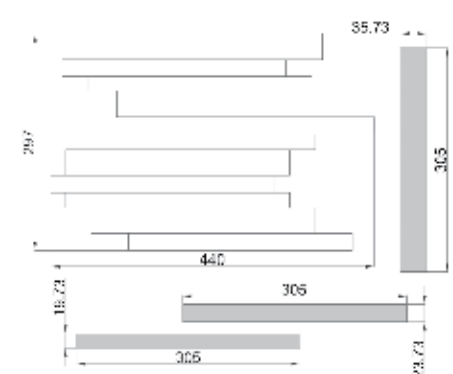
DK 145



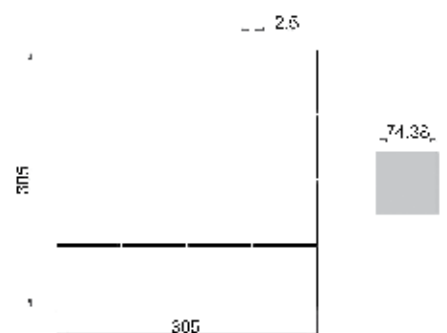
DK 146



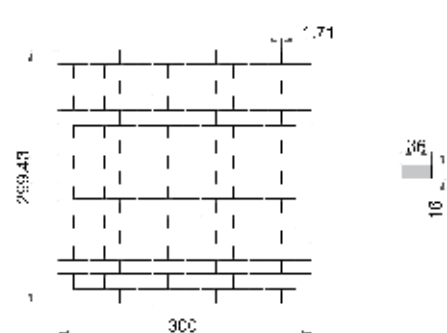
DK 147



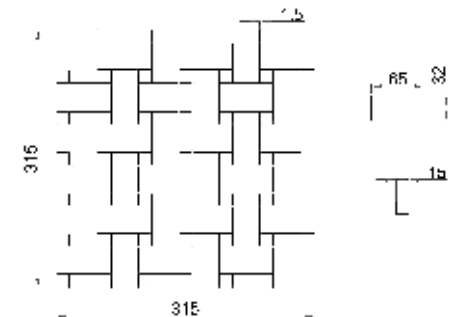
DK 148



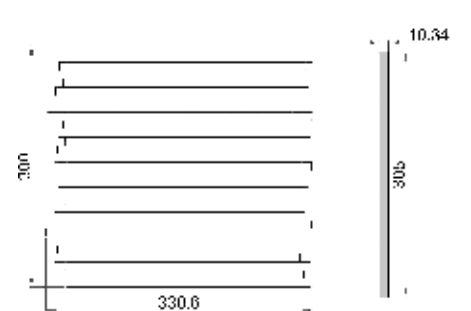
DK 149



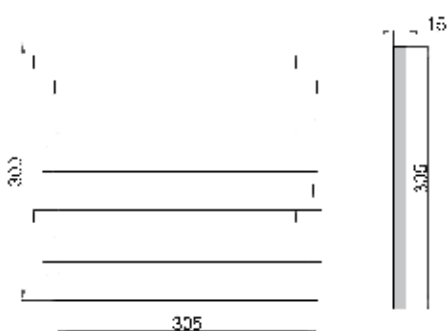
DK 150



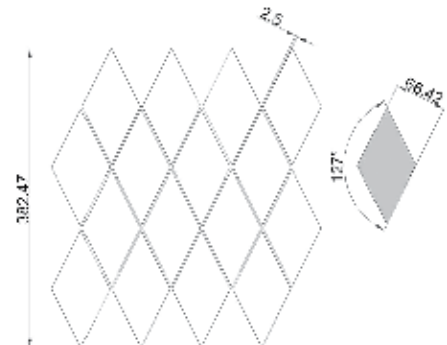
DK 151



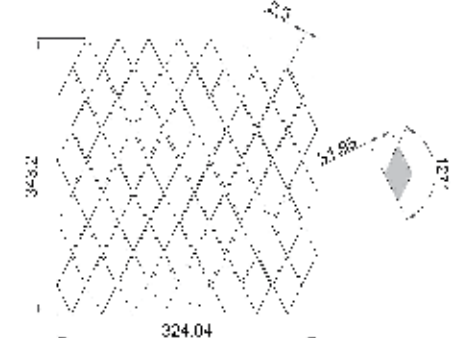
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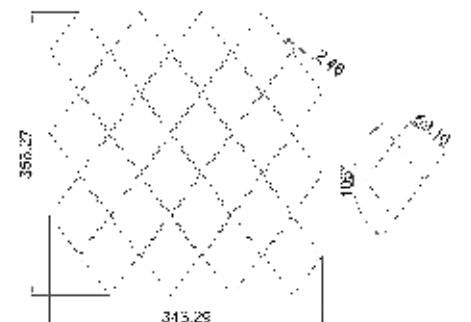
DK 153



DK 154

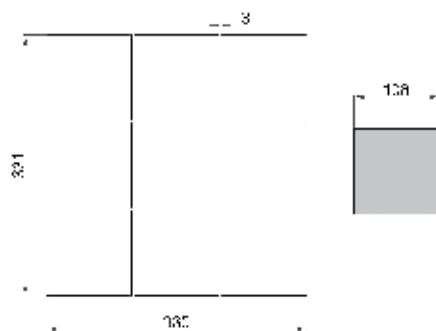


DK 155

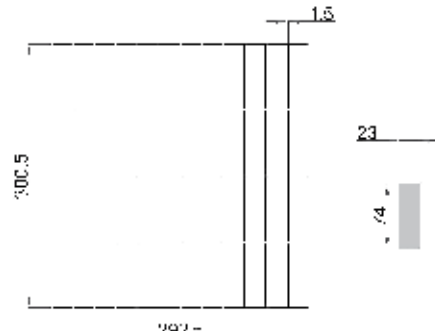


DK 156

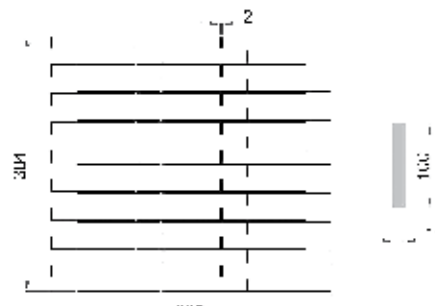
DİZGİ KALIPLARI
THE STRING MOULDS



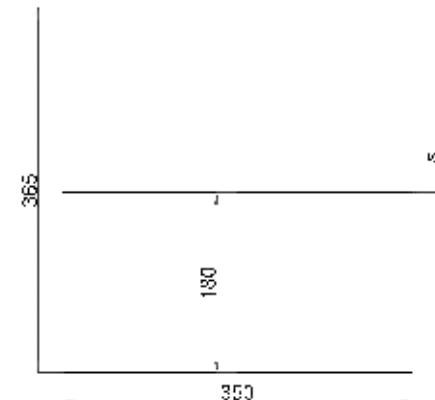
DK 157



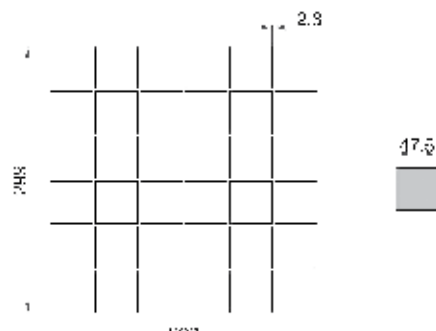
DK 158



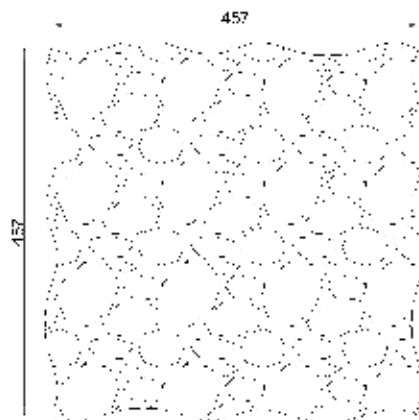
DK 159



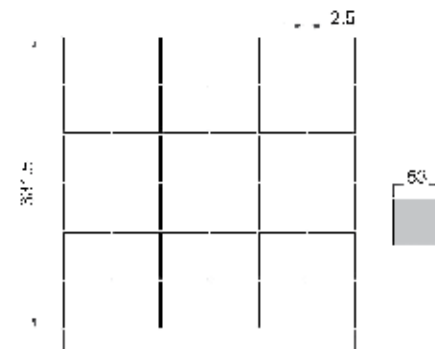
DK 160



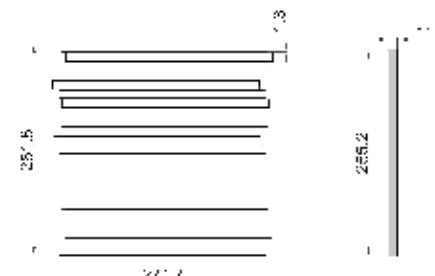
DK 161



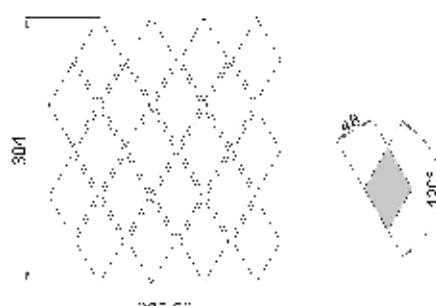
DK 162



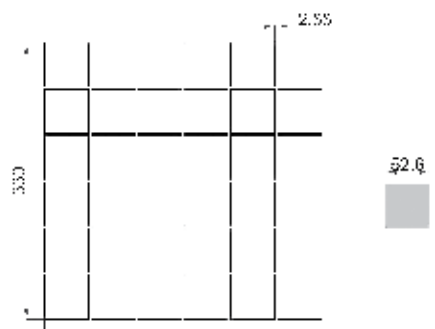
DK 163



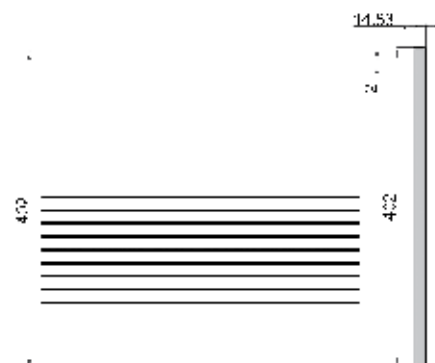
DK 164



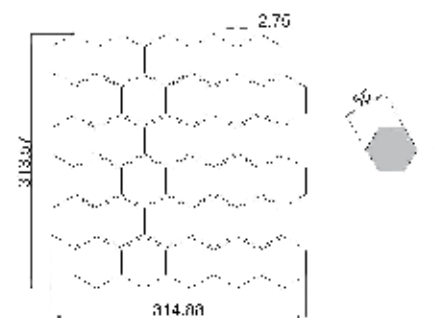
DK 165



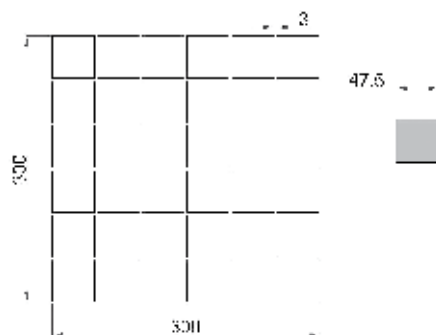
DK 166



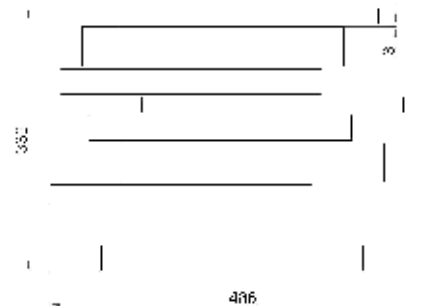
DK 167



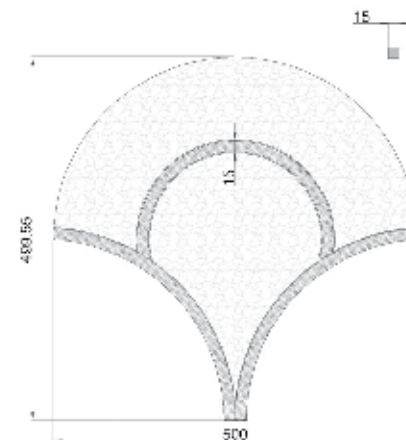
DK 168



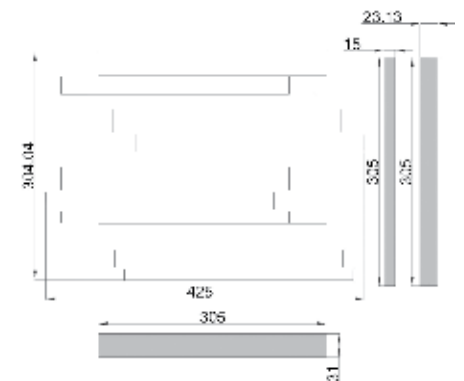
DK 169



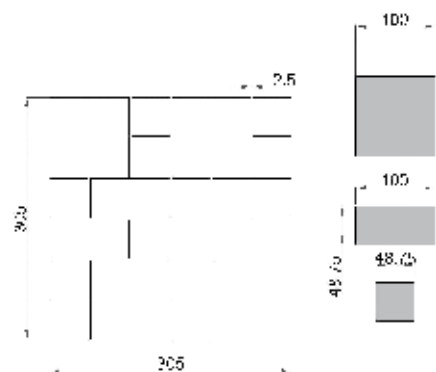
DK 170



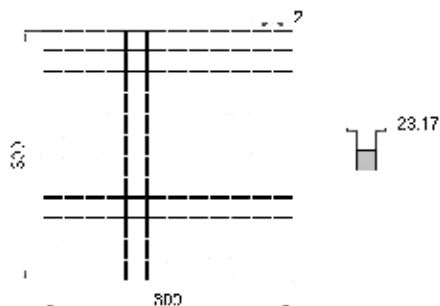
DK 171



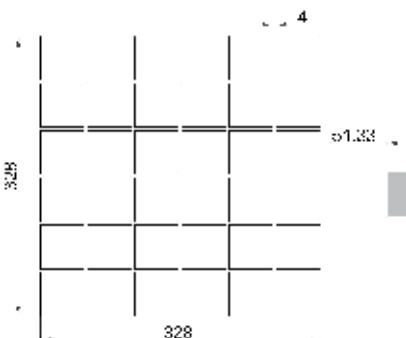
DK 172



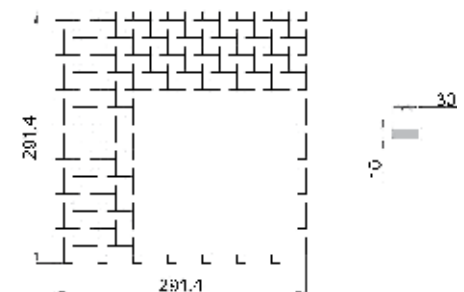
DK 173



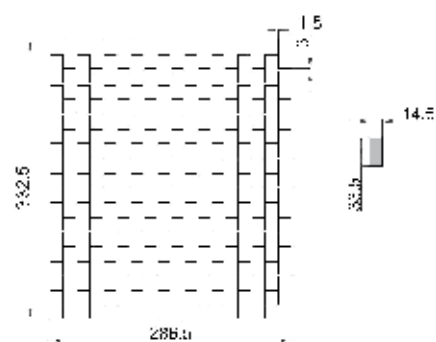
DK 174



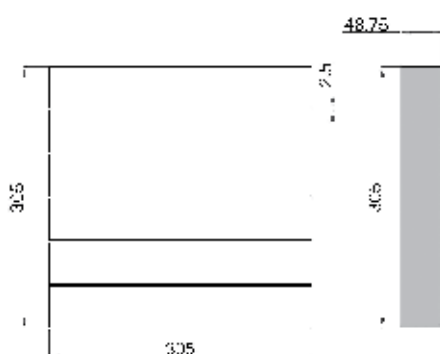
DK 175



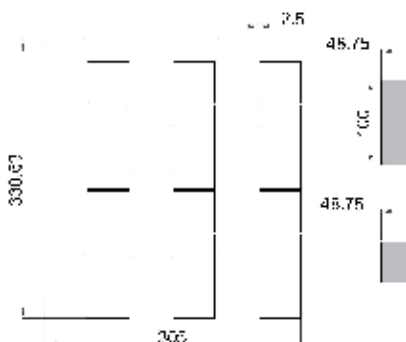
DK 176



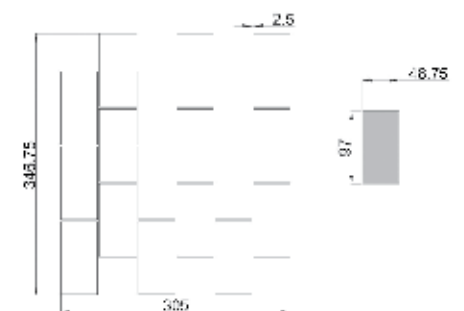
DK 177



DK 178



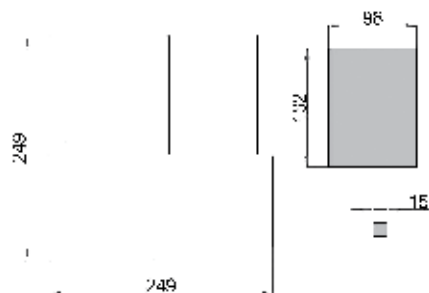
DK 179



DK 180

DİZGİ KALIPLARI

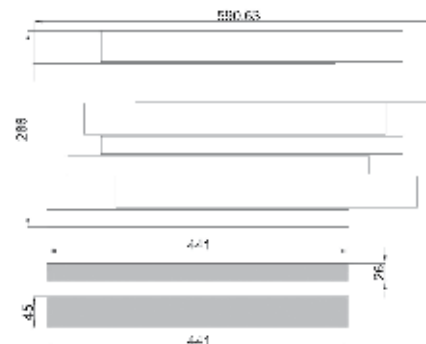
THE STRING MOULDS



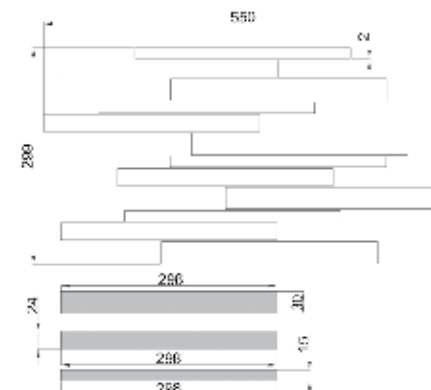
DK 181



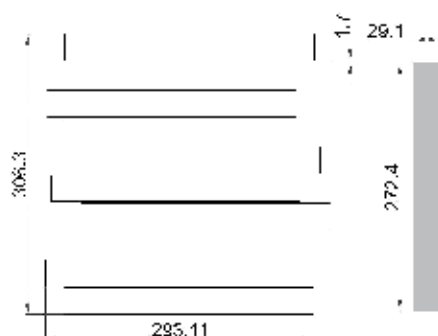
DK 182



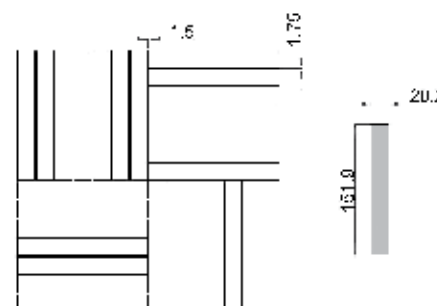
DK 183



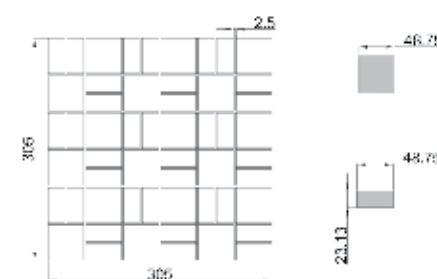
DK 184



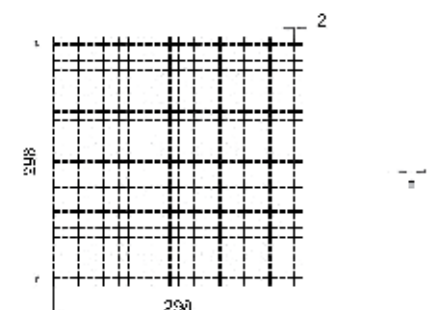
DK 185



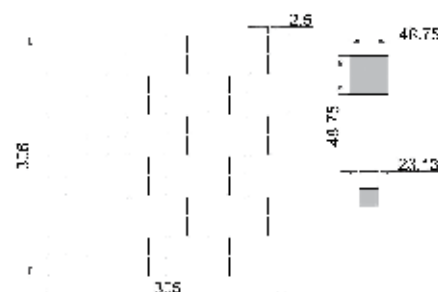
DK 186



DK 187



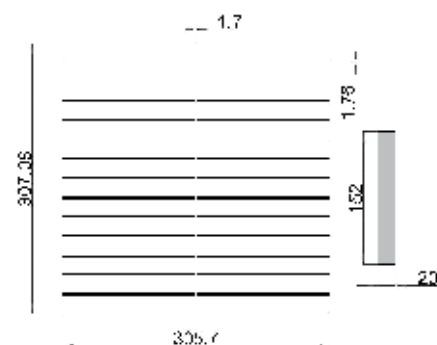
DK 188



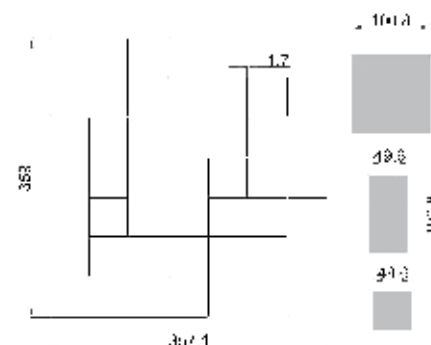
DK 189



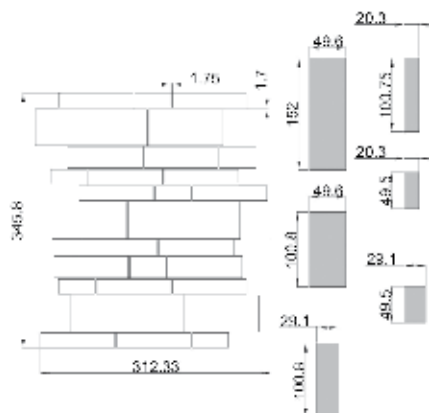
DK 190



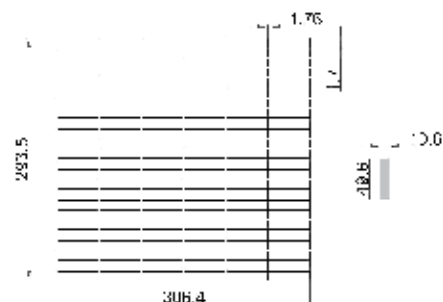
DK 191



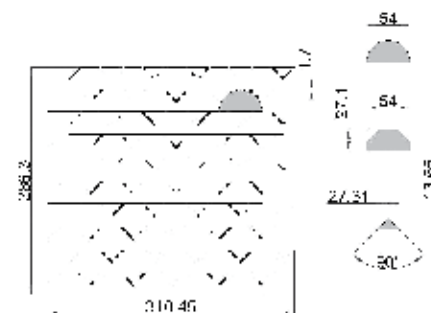
DK 192



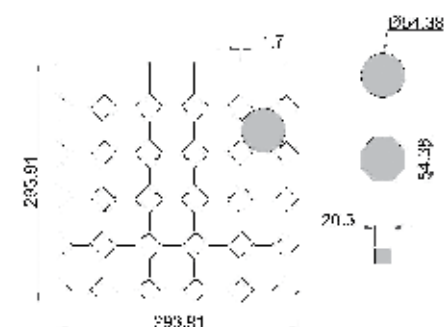
DK 193



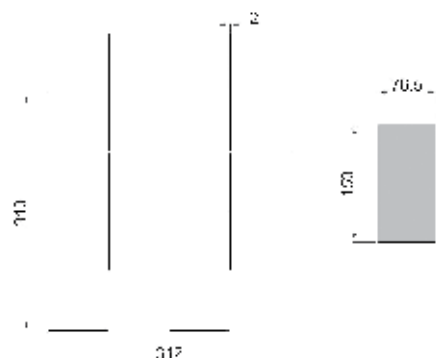
DK 194



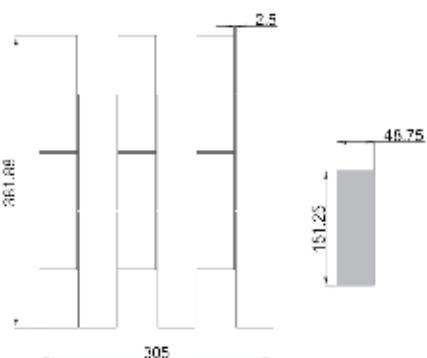
DK 195



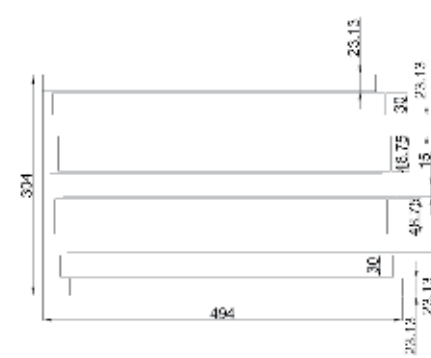
DK 196



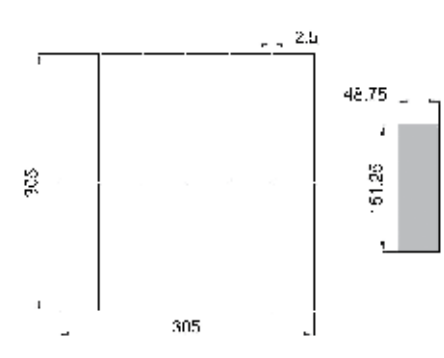
DK 197



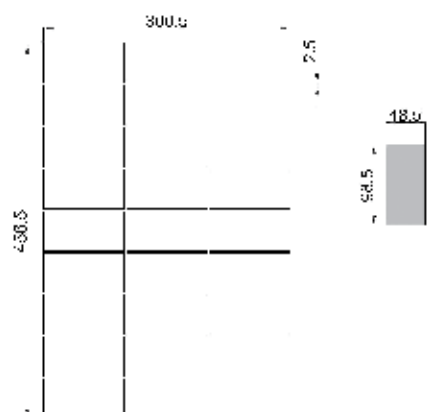
DK 198



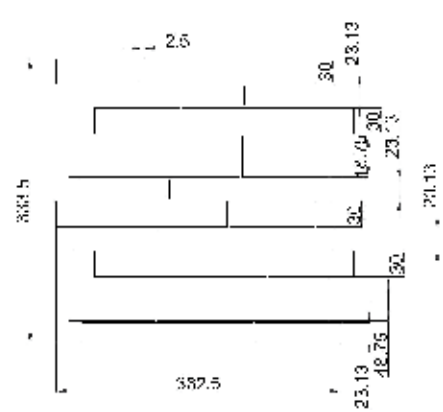
DK 199



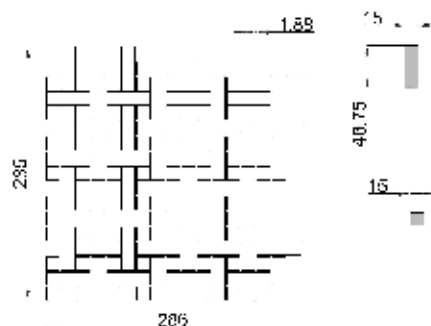
DK 200



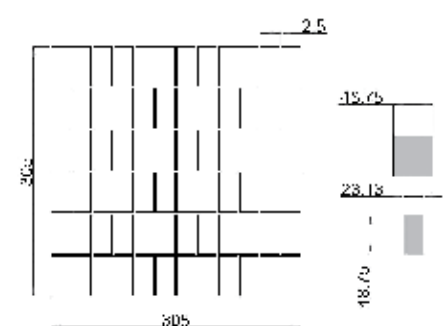
DK 201



DK 202

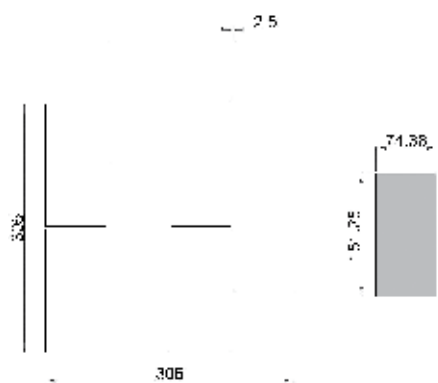


DK 203

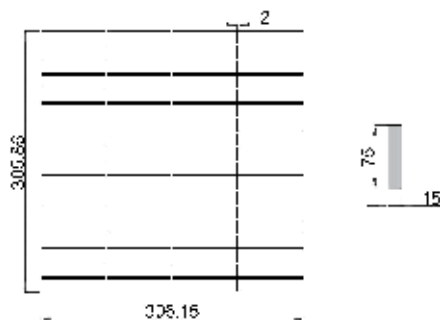


DK 204

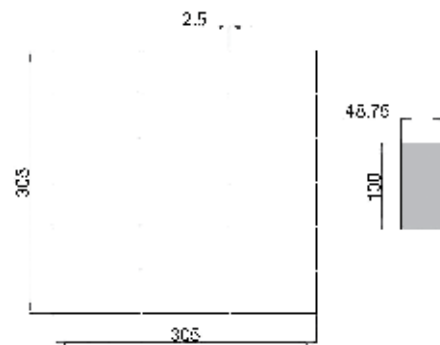
DİZGİ KALIPLARI
THE STRING MOULDS



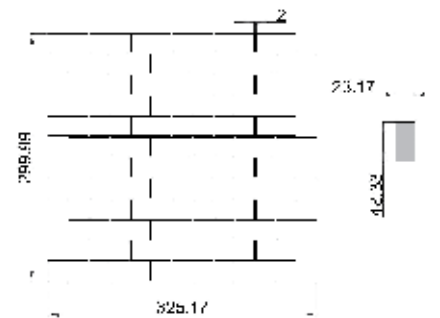
DK 205



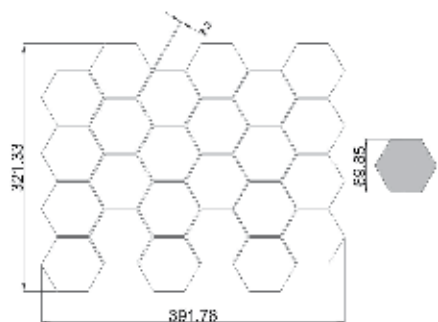
DK 206



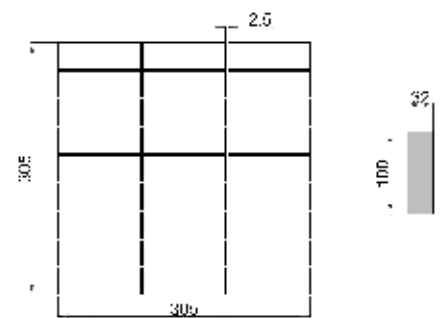
DK 207



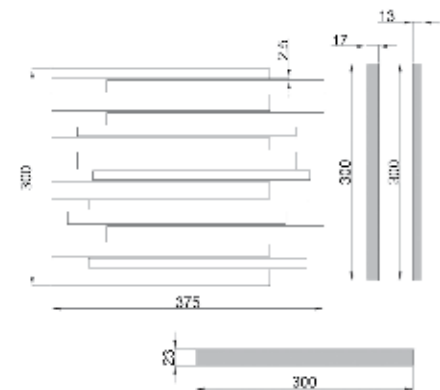
DK 208



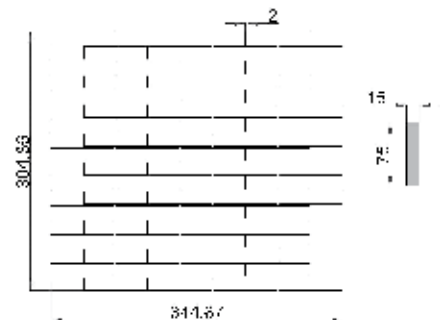
DK 209



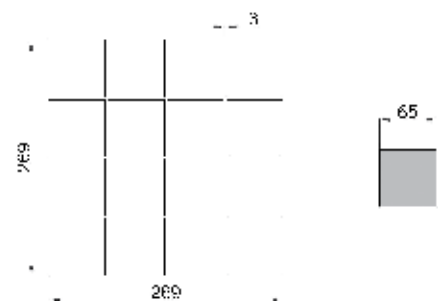
DK 210



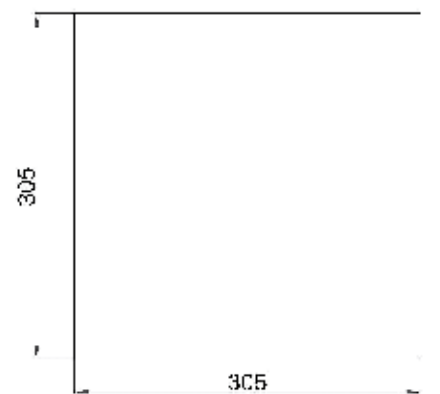
DK 211



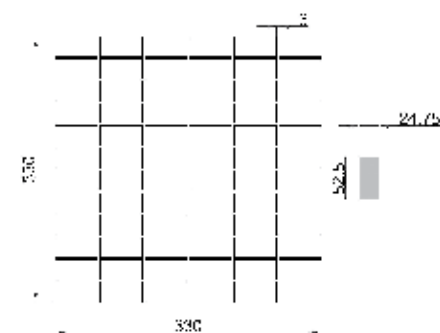
DK 212



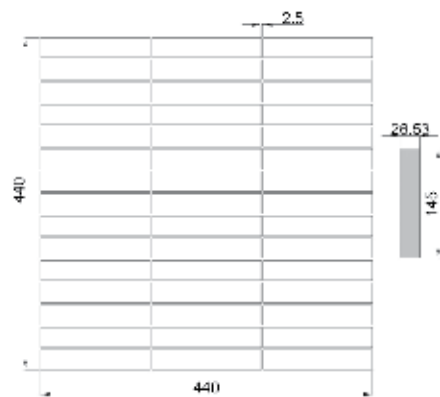
DK 213



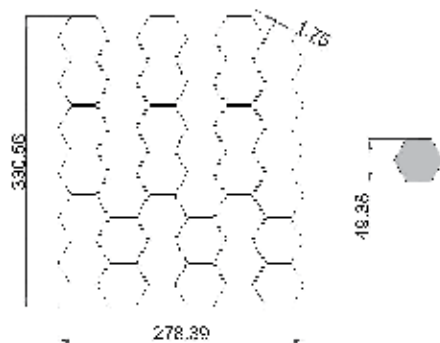
DK 214



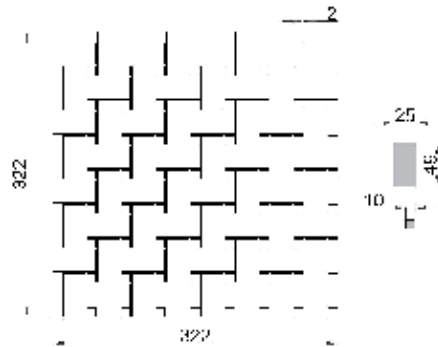
DK 215



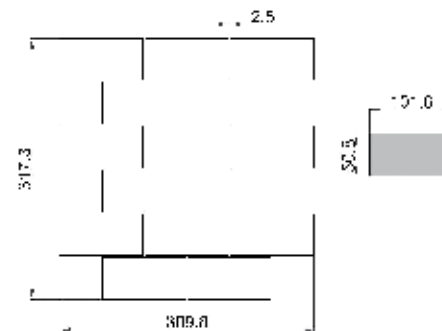
DK 216



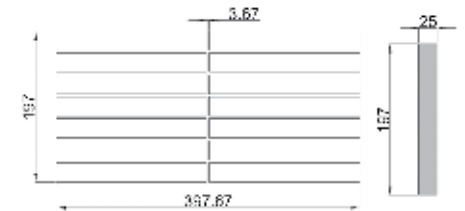
DK 217



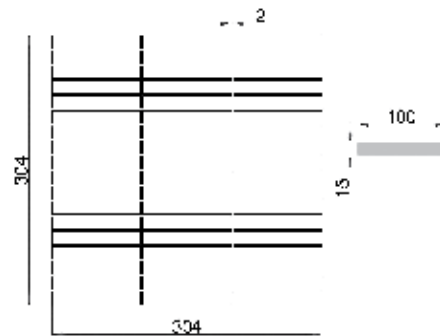
DK 218



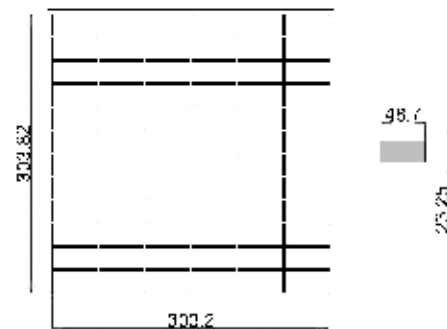
DK 219



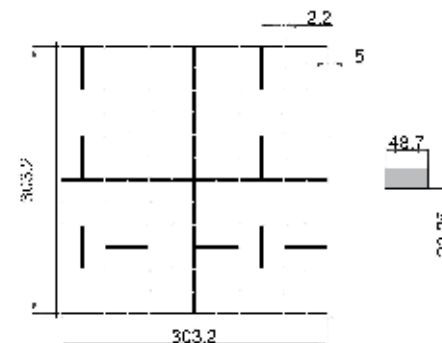
DK 220



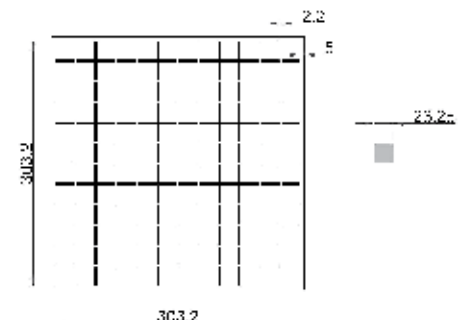
DK 221



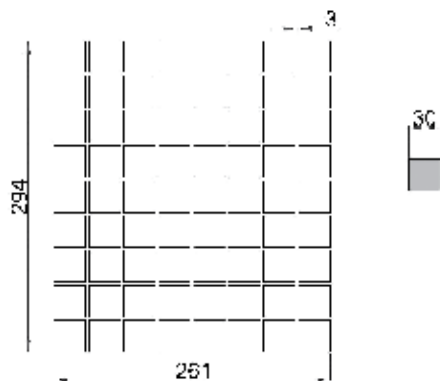
DK 222



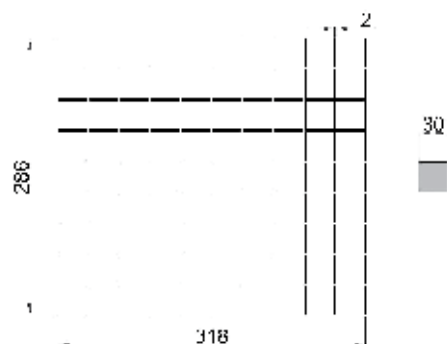
DK 223



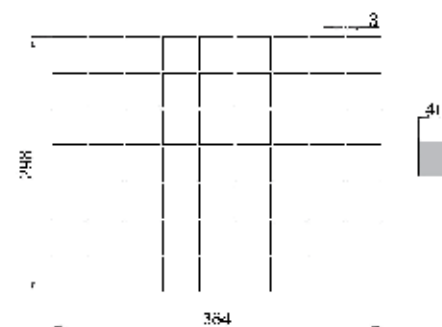
DK 224



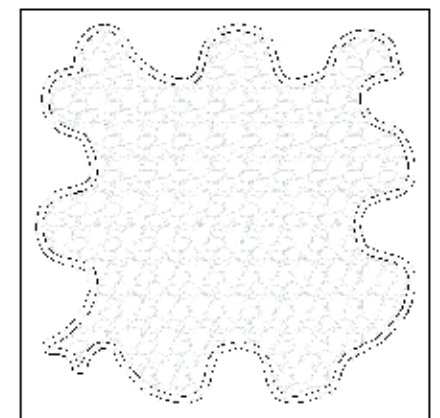
DK 225



DK 226

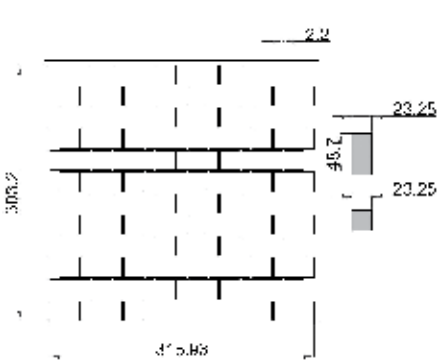


DK 227

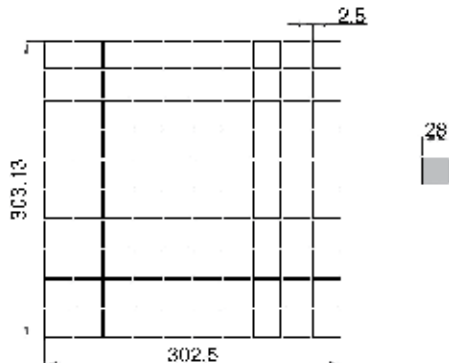


DK 228

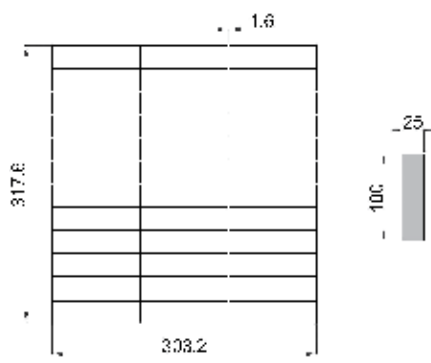
DİZGİ KALIPLARI
THE STRING MOULDS



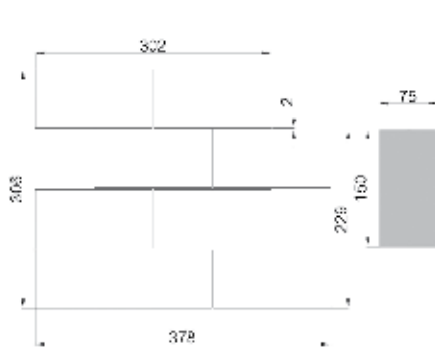
DK 229



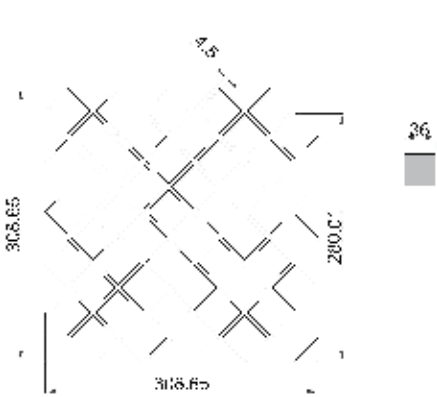
DK 230



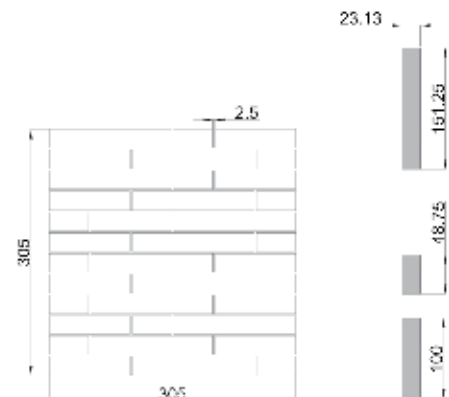
DK 231



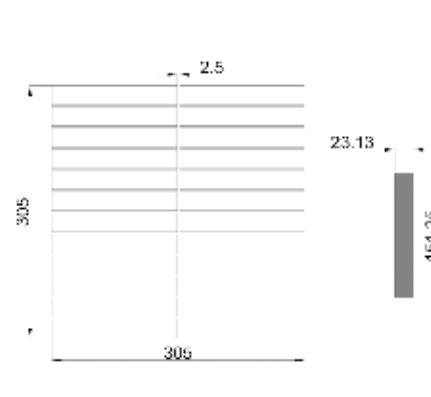
DK 232



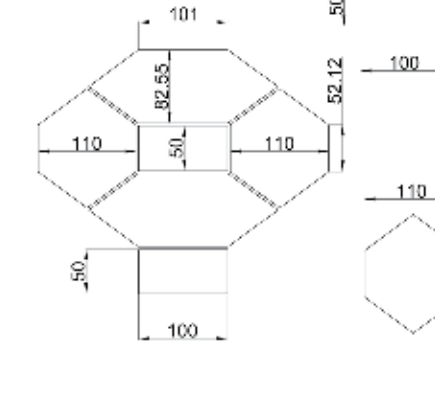
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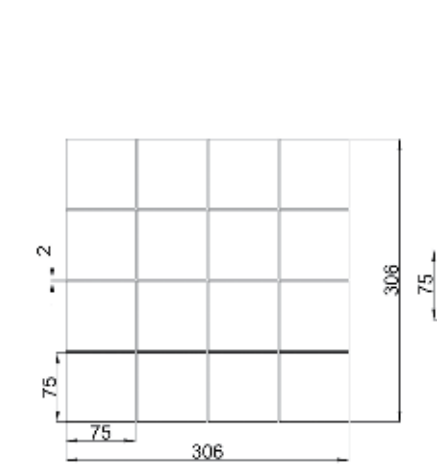
DK 234



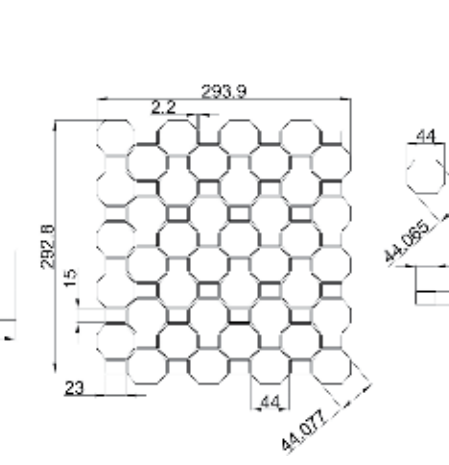
DK 235



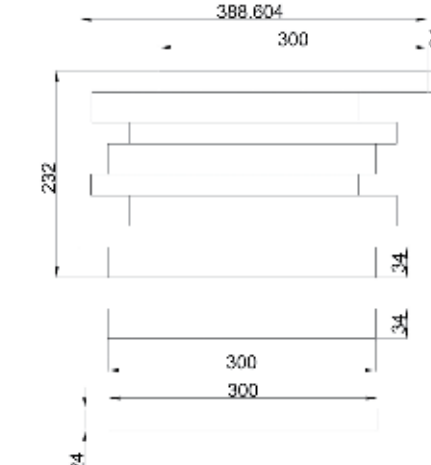
DK 236



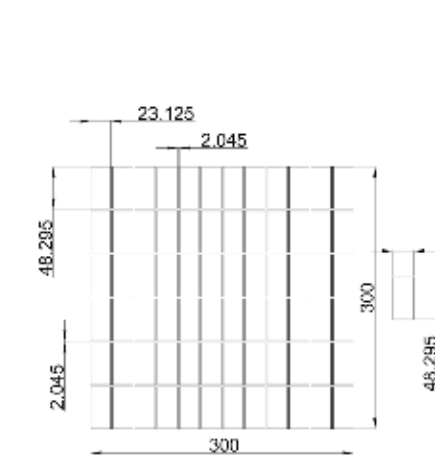
DK 237



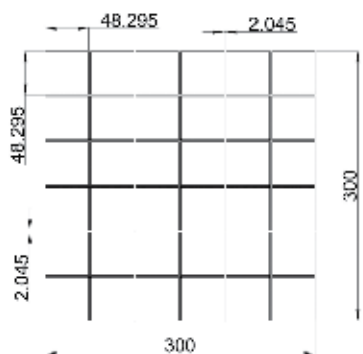
DK 238



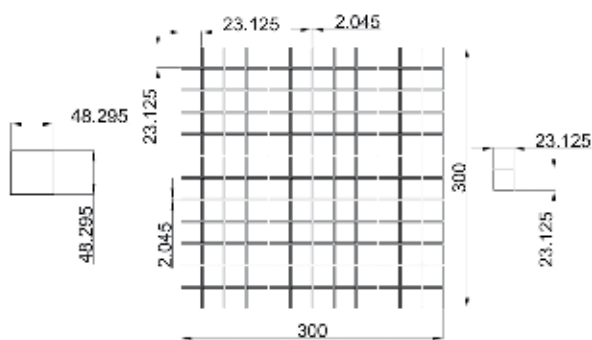
DK 239



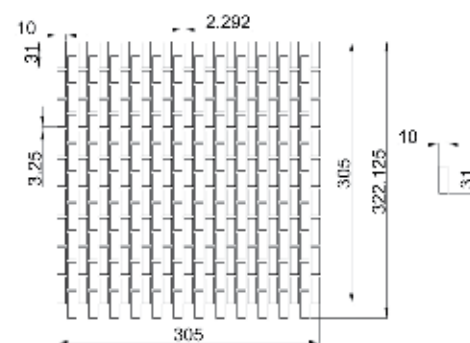
DK 240



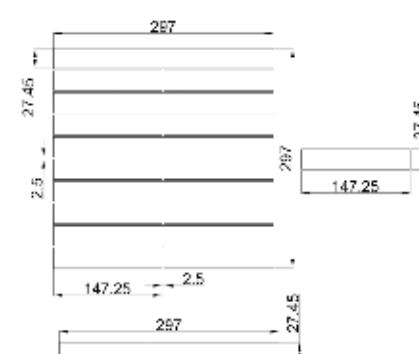
DK 241



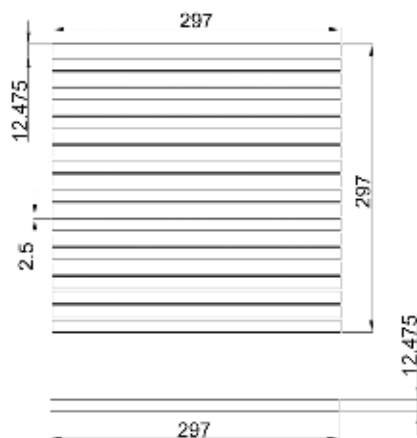
DK 242



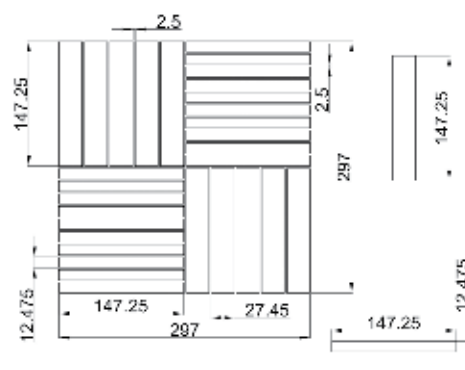
DK 243



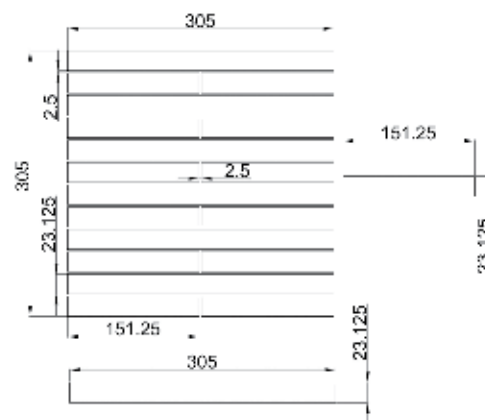
DK 244



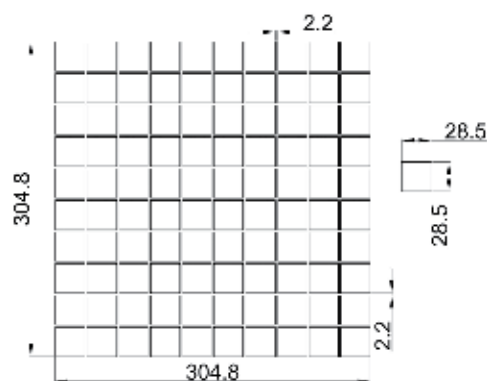
DK 245



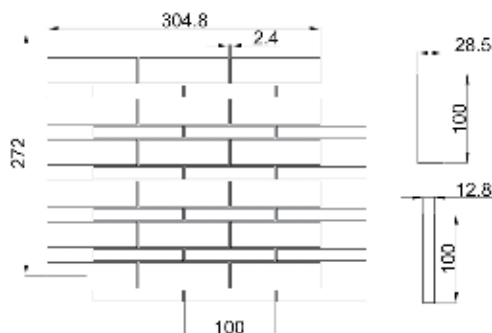
DK 246



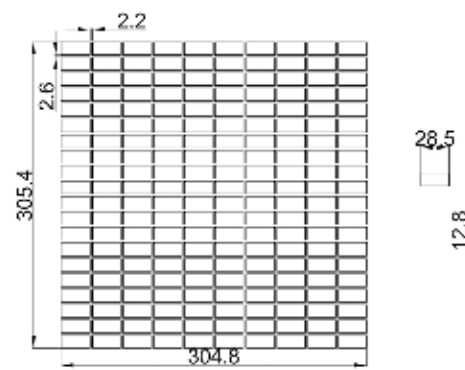
DK 247



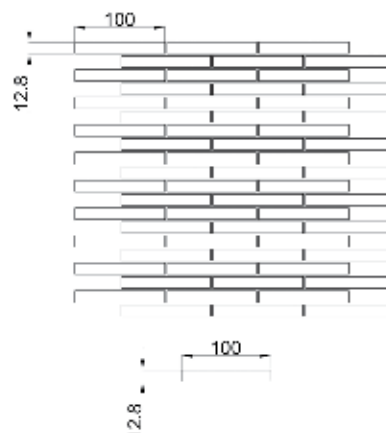
DK 248



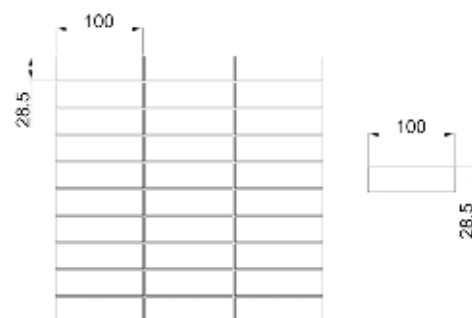
DK 249



DK 250

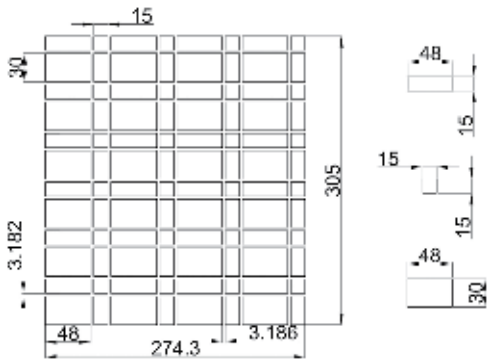


DK 251

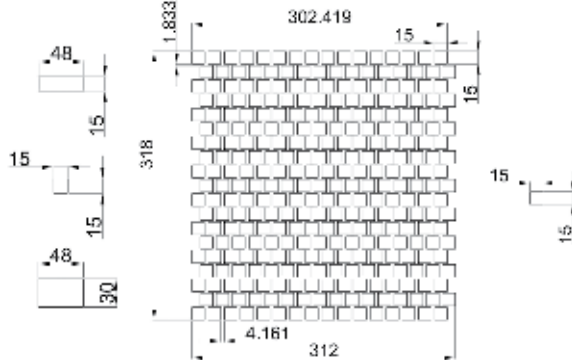


DK 252

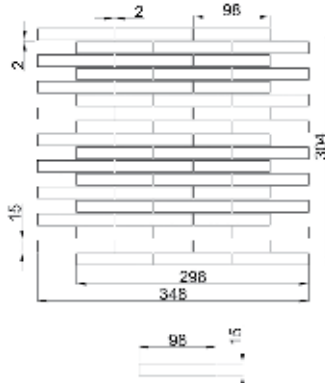
DİZGİ KALIPLARI
THE STRING MOULDS



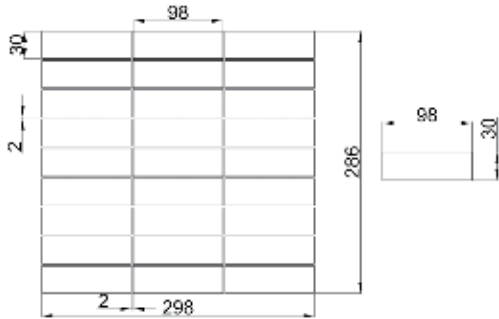
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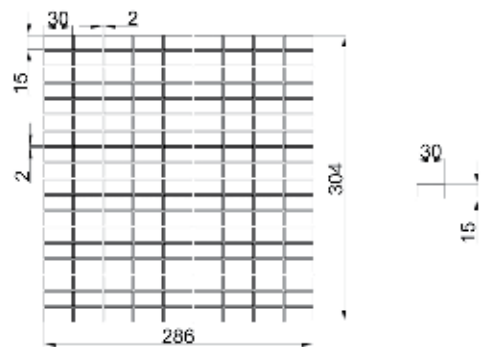
DK 254



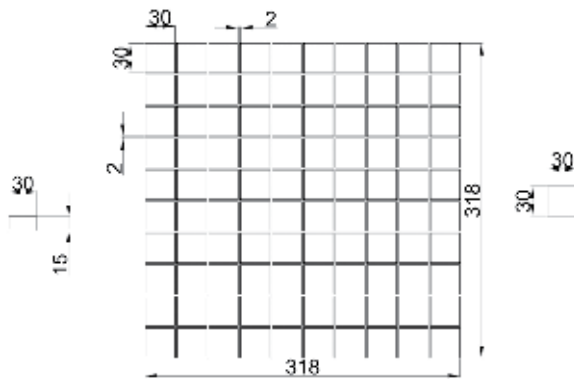
DK 255



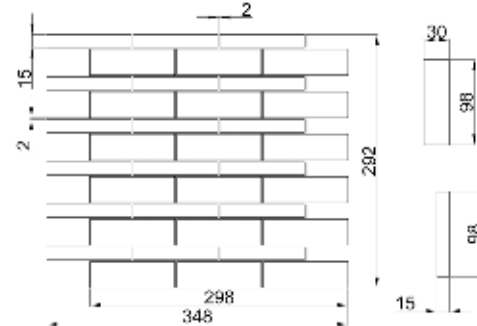
DK 256



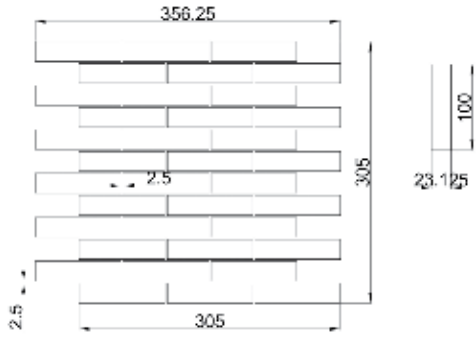
DK 257



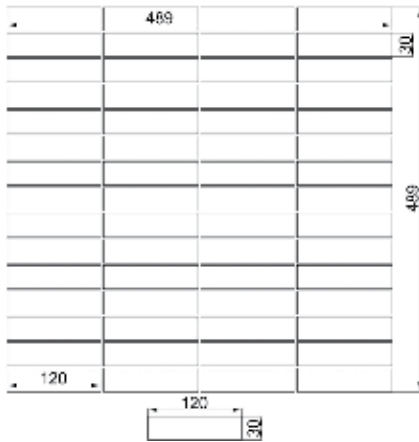
DK 258



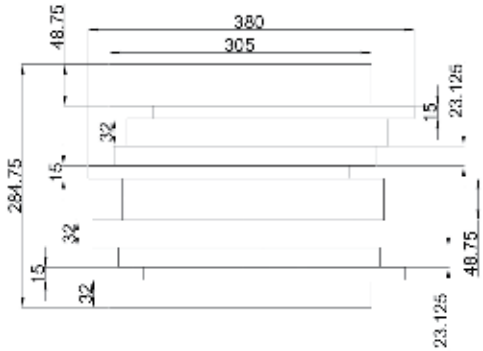
DK 259



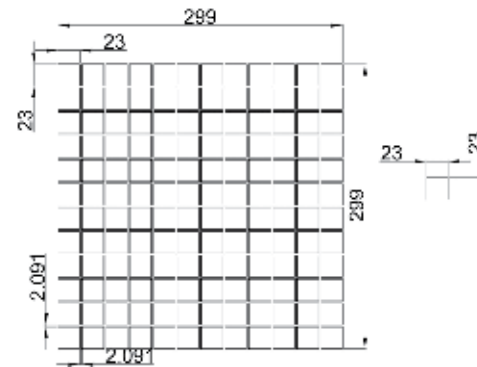
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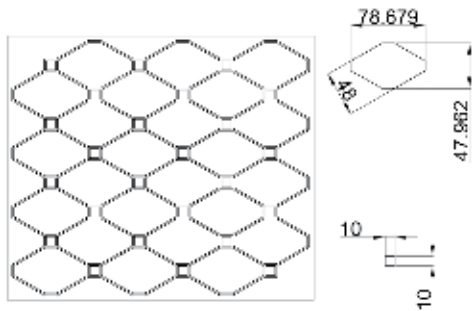
DK 261



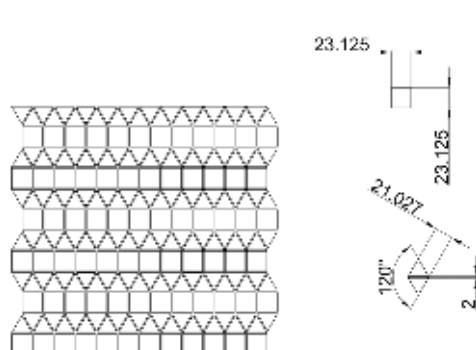
DK 262



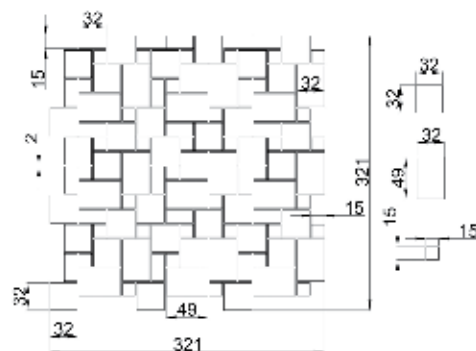
DK 263



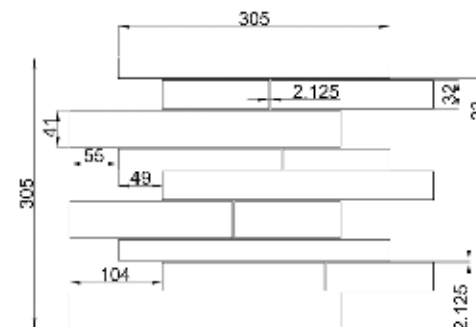
DK 264



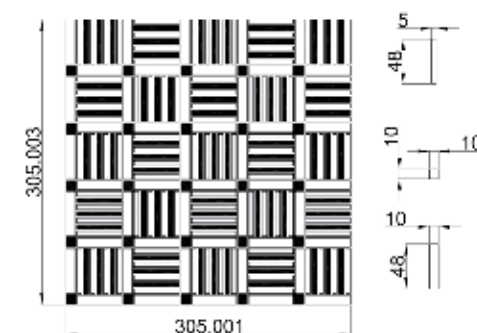
DK 265



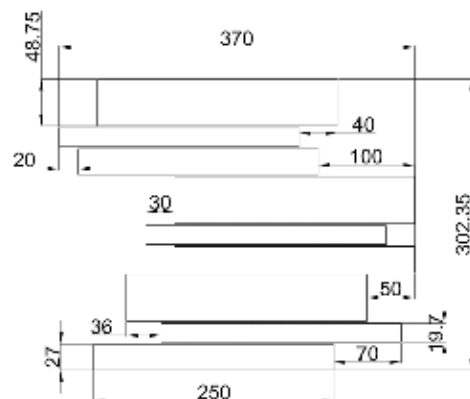
DK 266



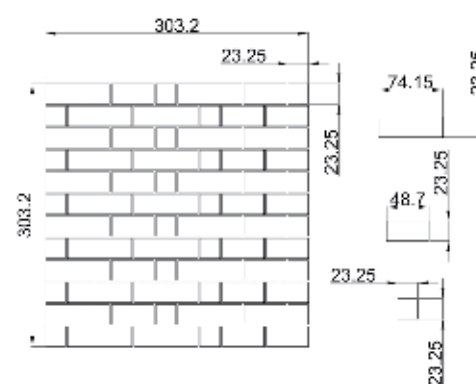
DK 267



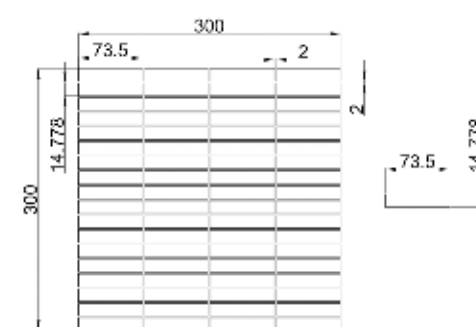
DK 268



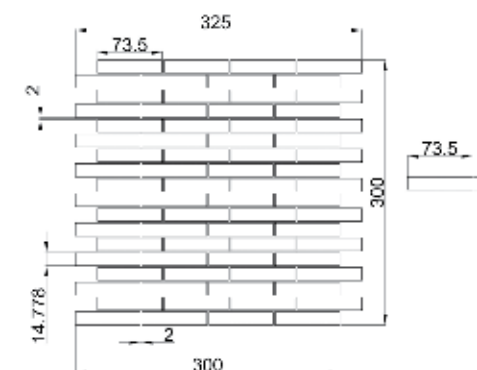
DK 269



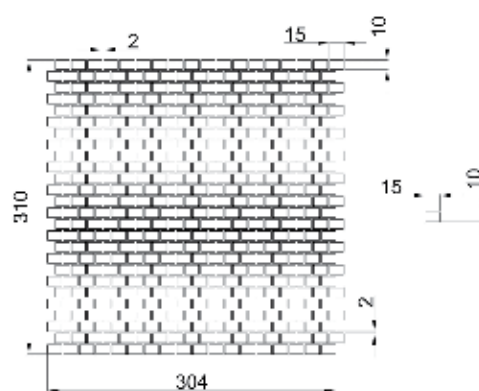
DK 270



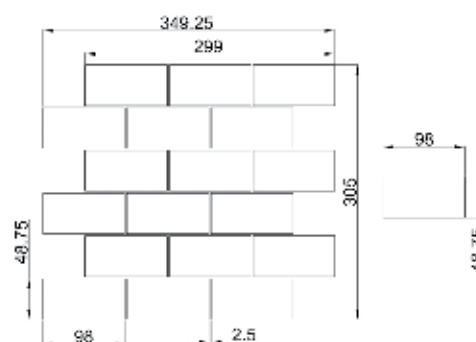
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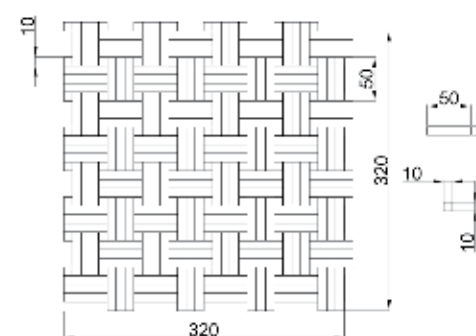
DK 272



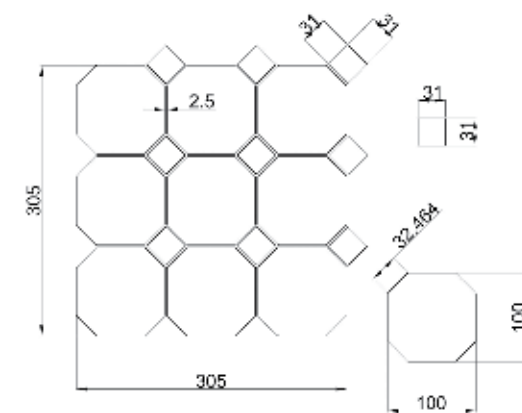
DK 273



DK 274



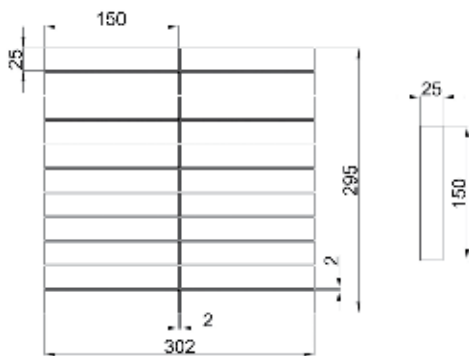
DK 275



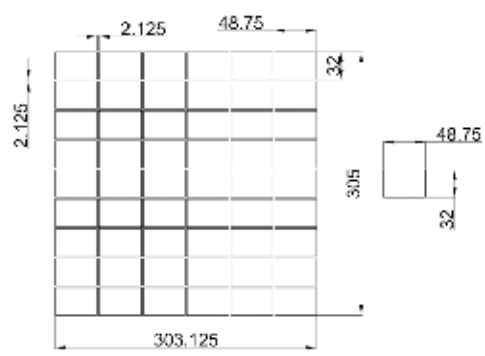
DK 276

DİZGİ KALIPLARI

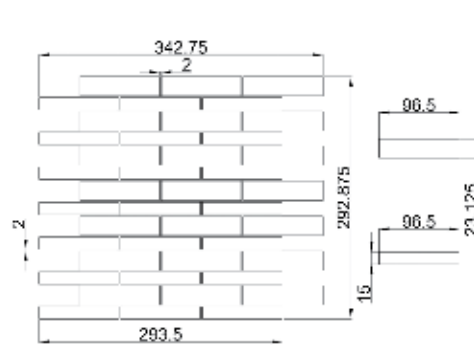
THE STRING MOULDS



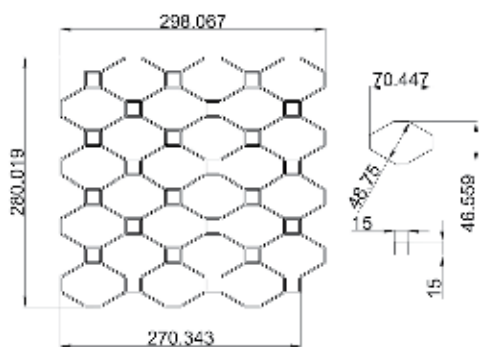
DK 277



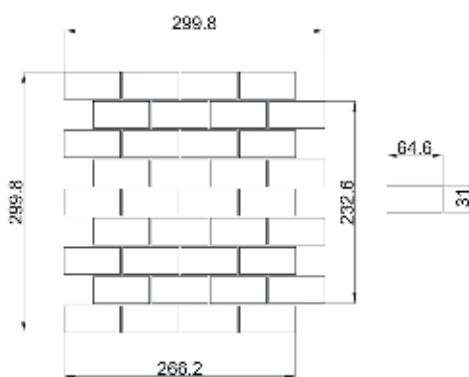
DK 278



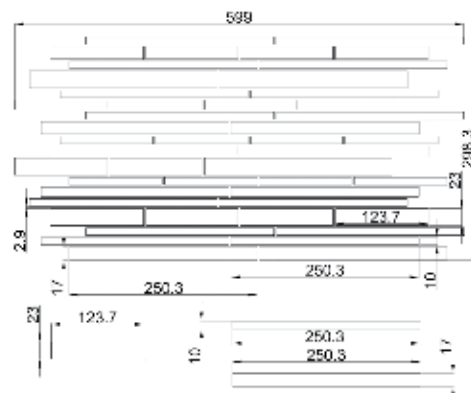
DK 279



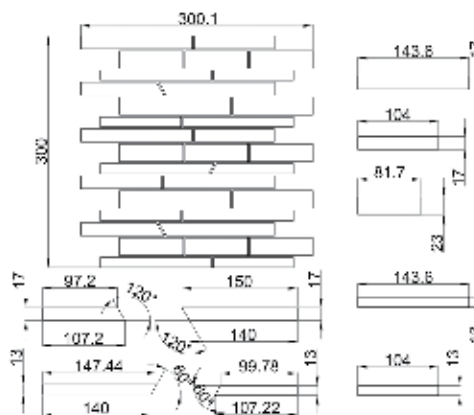
DK 280



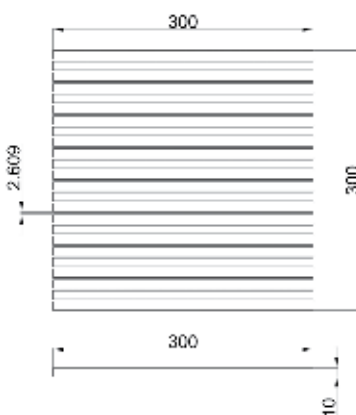
DK 281



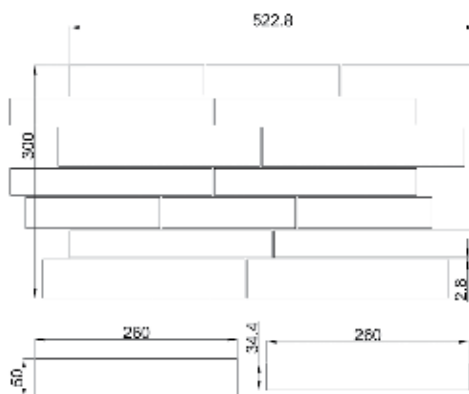
DK 282



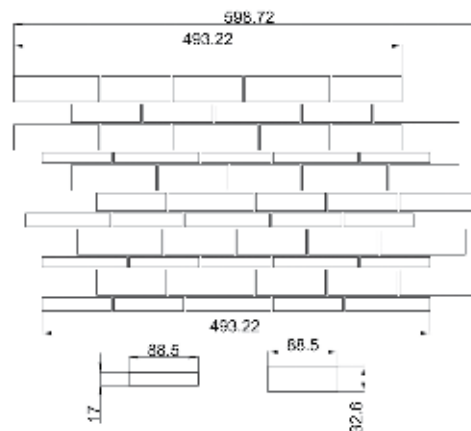
DK 283



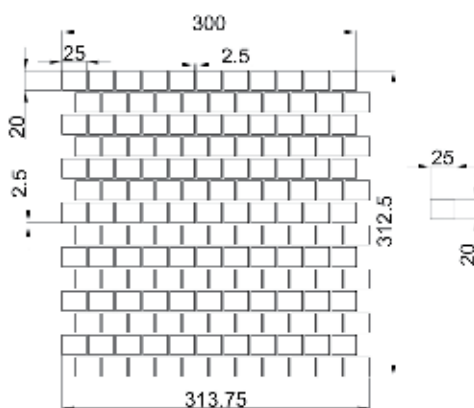
DK 284



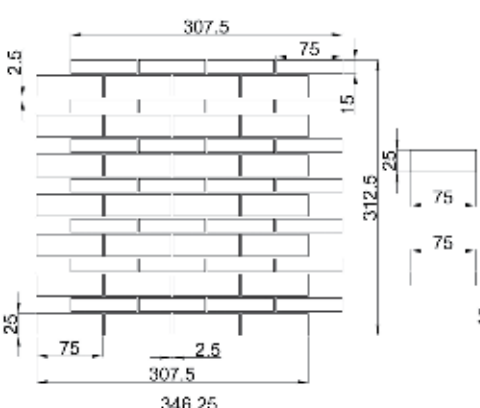
DK 285



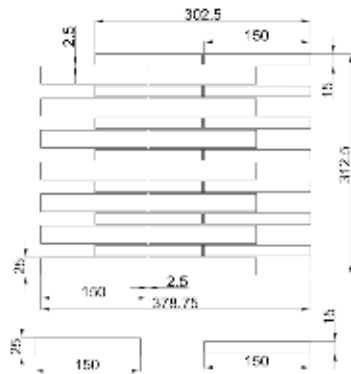
DK 286



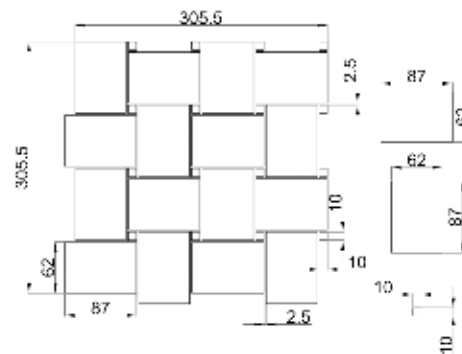
DK 287



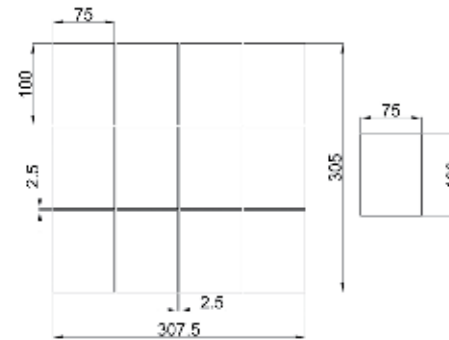
DK 288



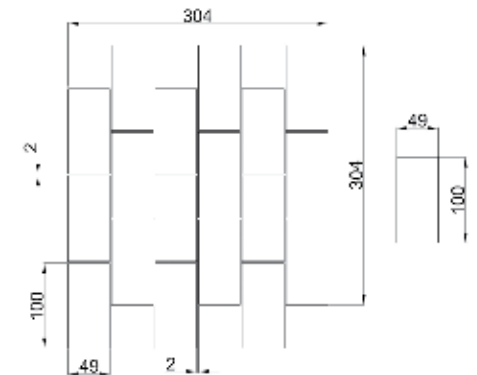
DK 289



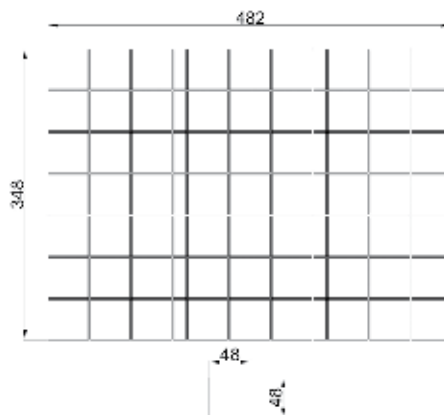
DK 290



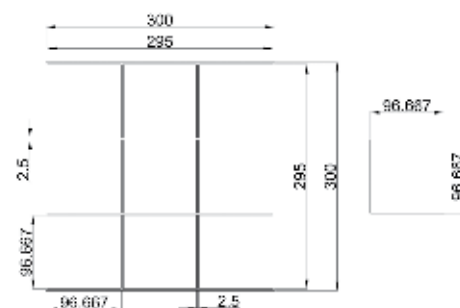
DK 291



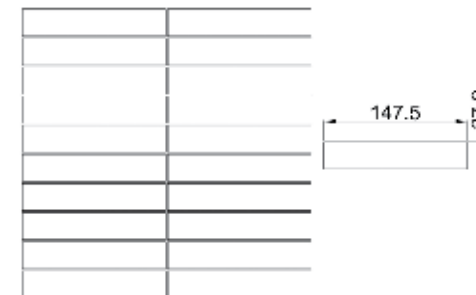
DK 292



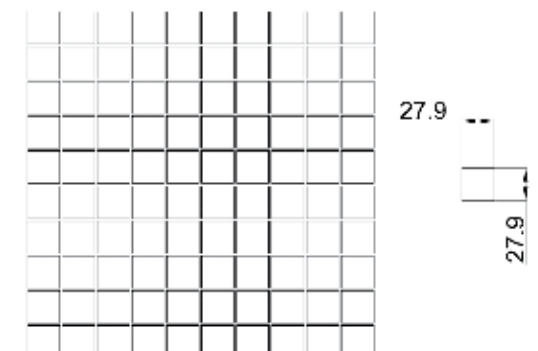
DK 293



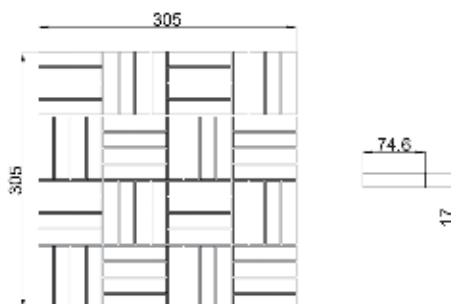
DK 294



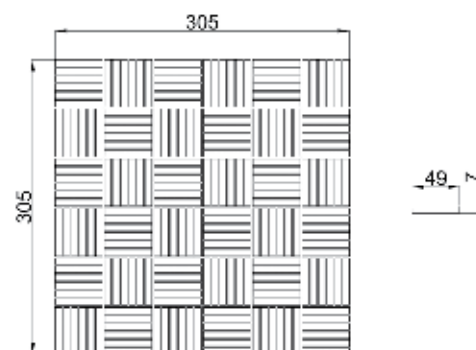
DK 295



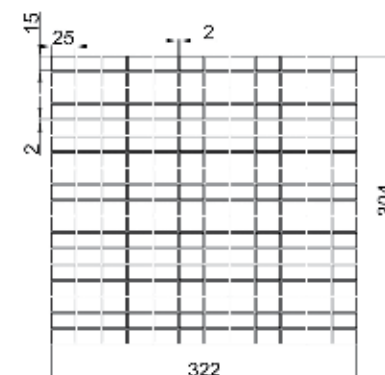
DK 296



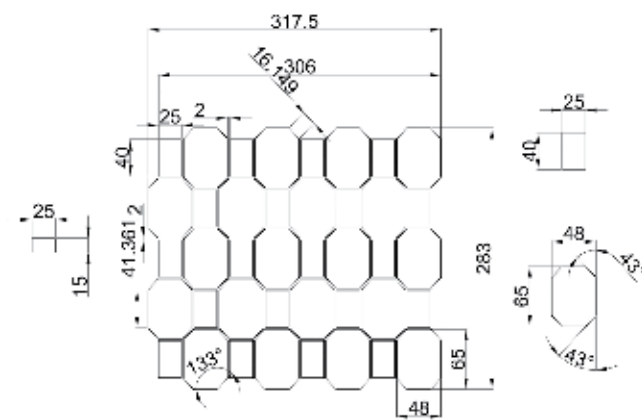
DK 297



DK 298



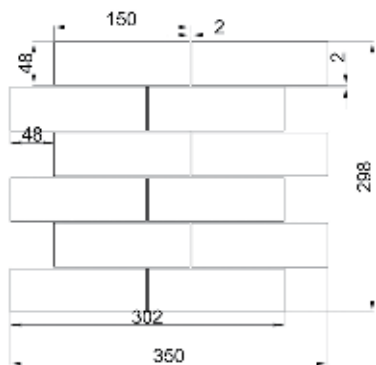
DK 299



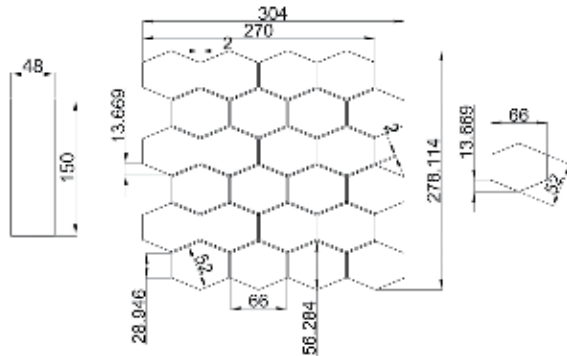
DK 300

DİZGİ KALIPLARI

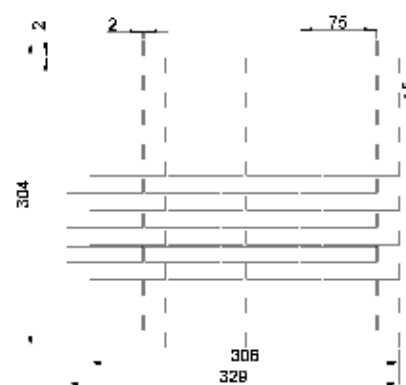
THE STRING MOULDS



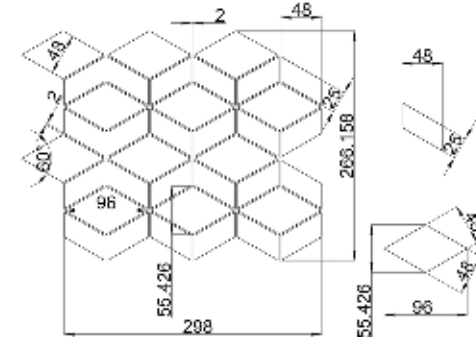
DK 301



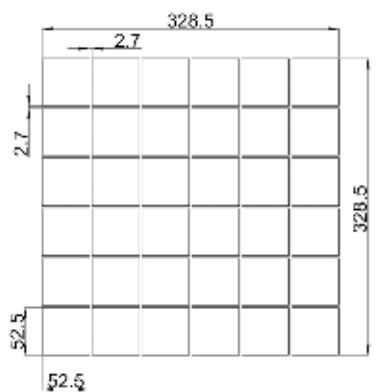
DK 302



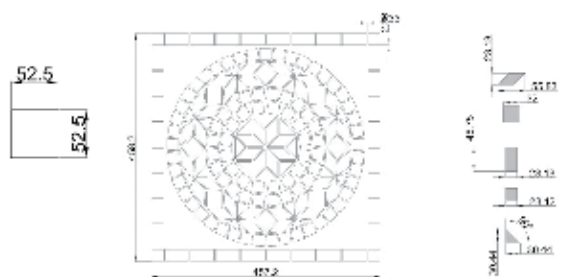
DK 303



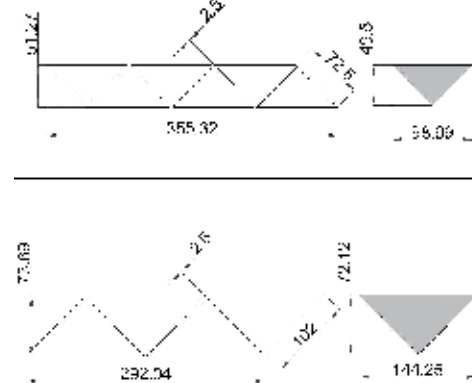
DK 304



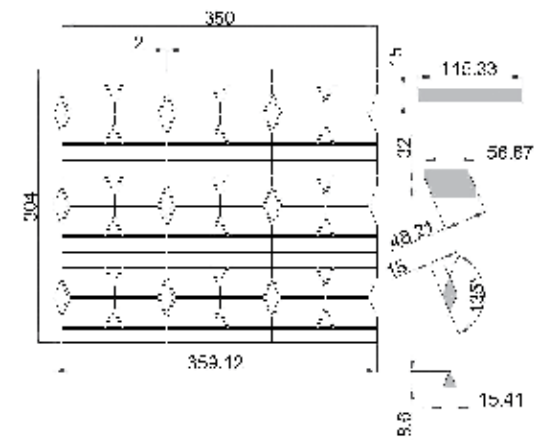
DK 305



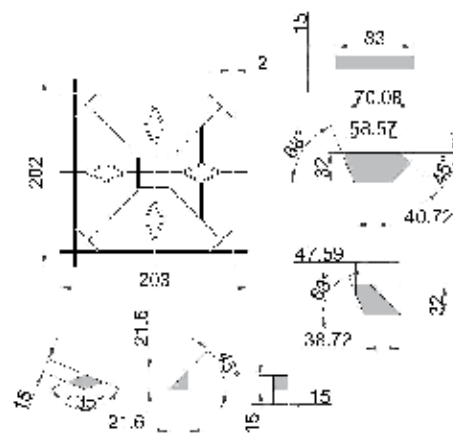
DK 450



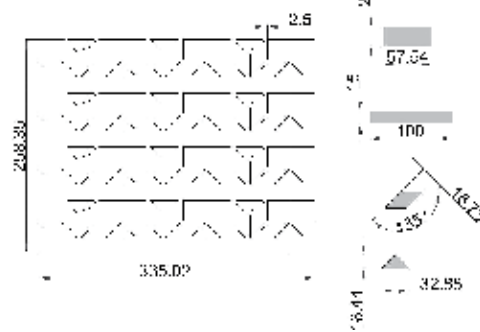
DK 501-502



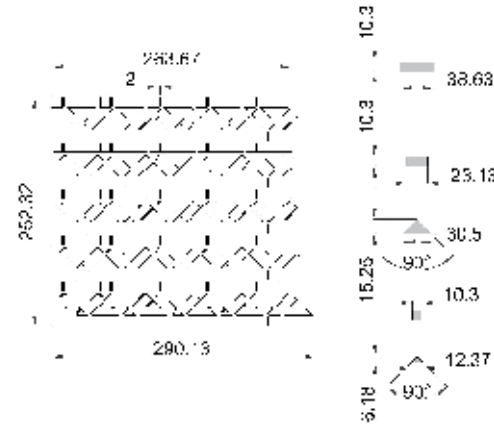
DK 503



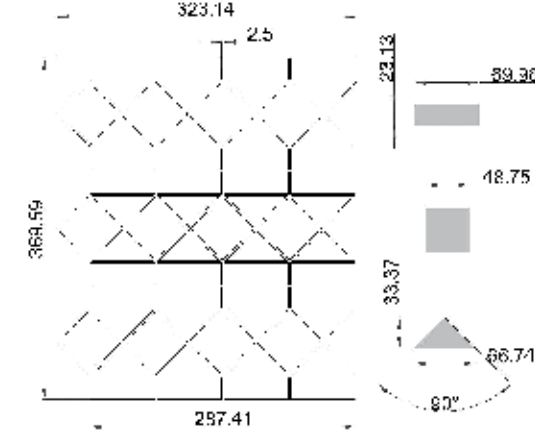
DK 503 A



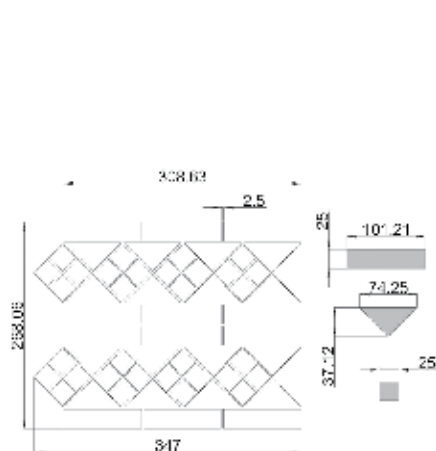
DK 504



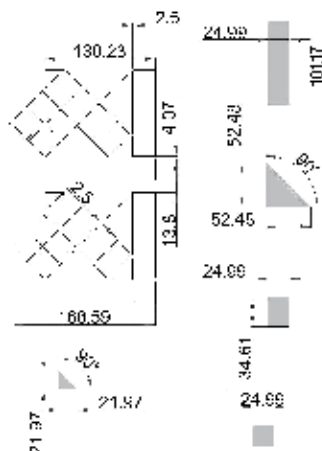
DK 505



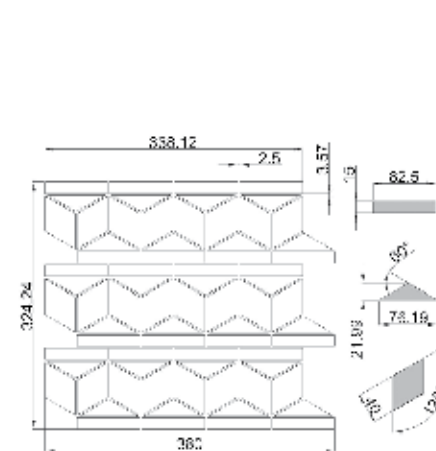
DK 506



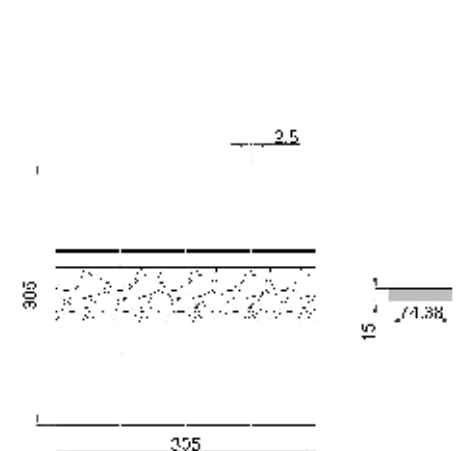
DK 507



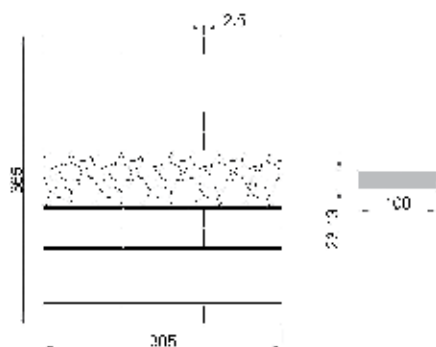
DK 507 K



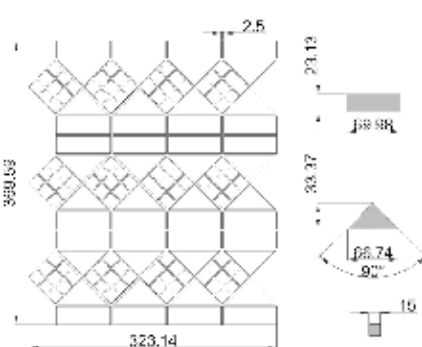
DK 508



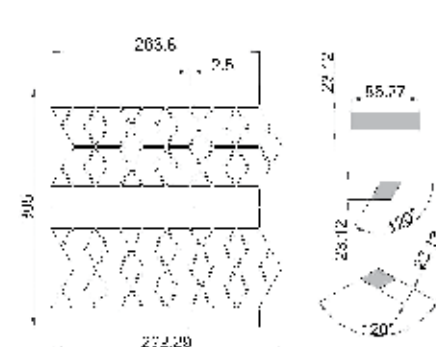
DK 509



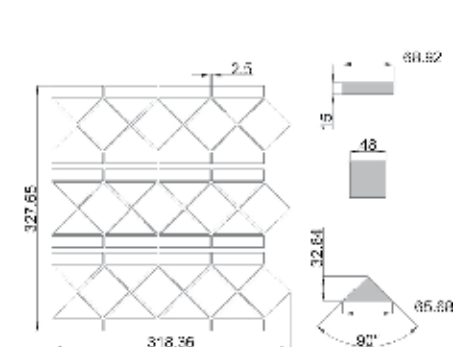
DK 510



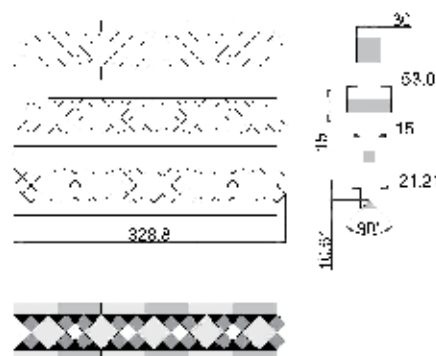
DK 511



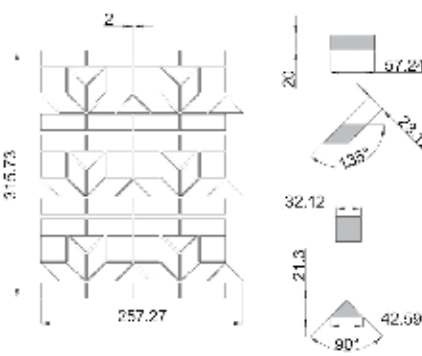
DK 512



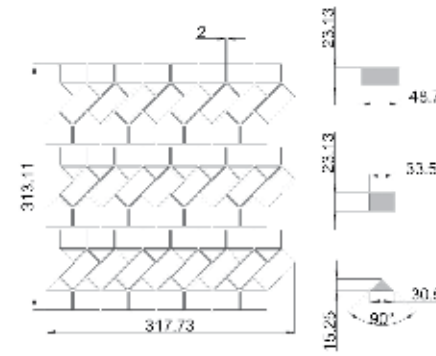
DK 513



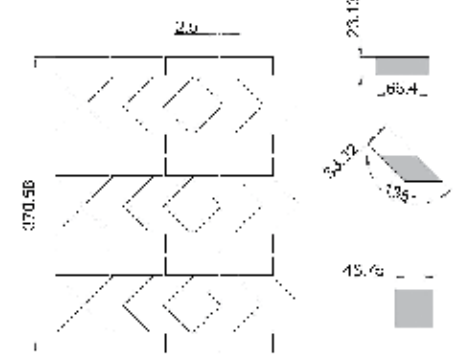
DK 514



DK 515



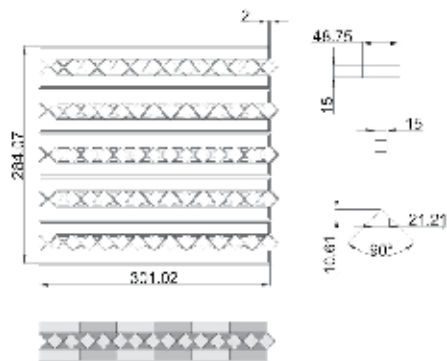
DK 516



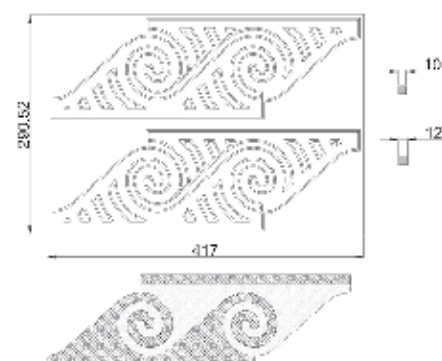
DK 517

DİZGİ KALIPLARI

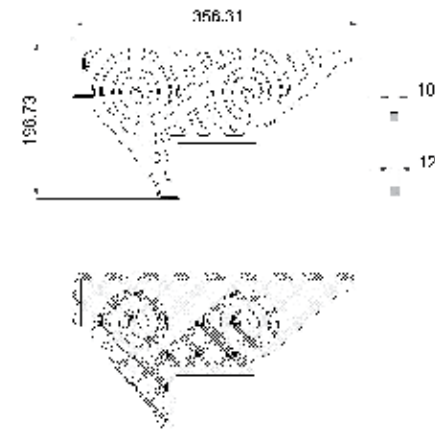
THE STRING MOULDS



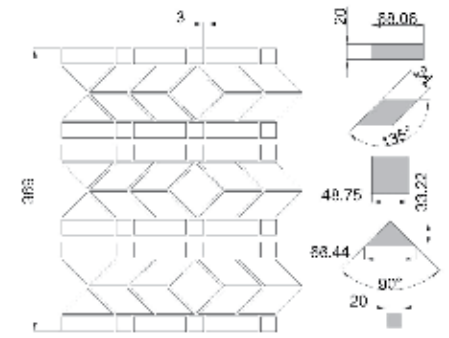
DK 518



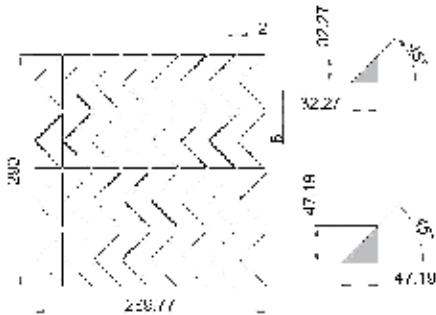
DK 519



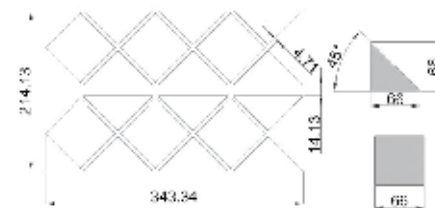
DK 519 K



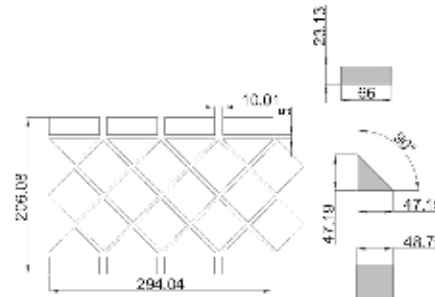
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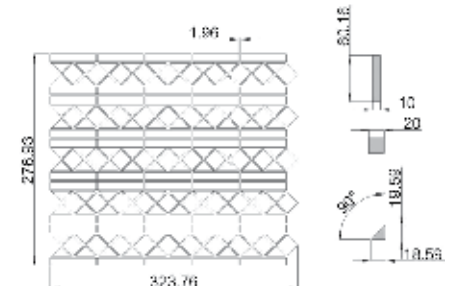
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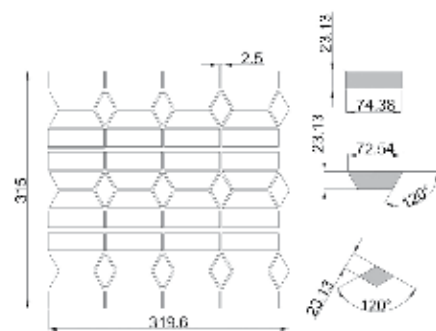
DK 522



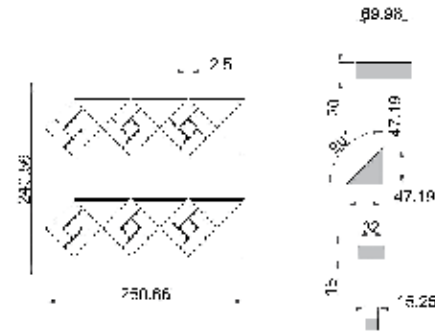
DK 523



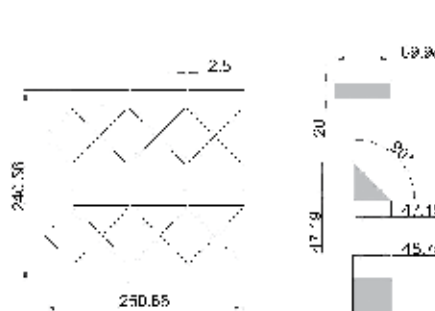
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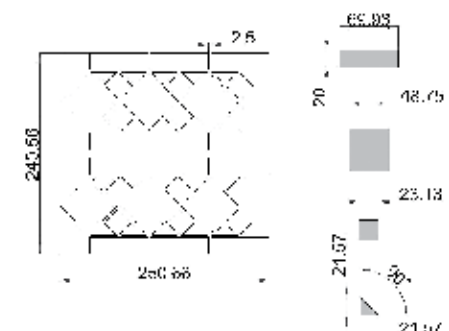
DK 525



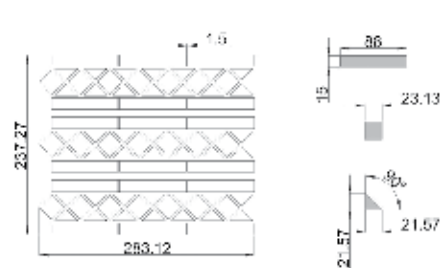
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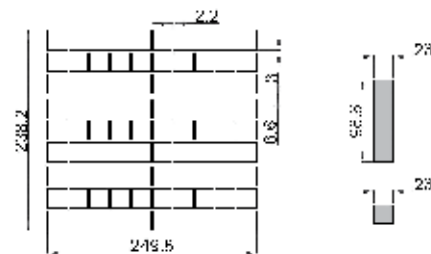
DK 527



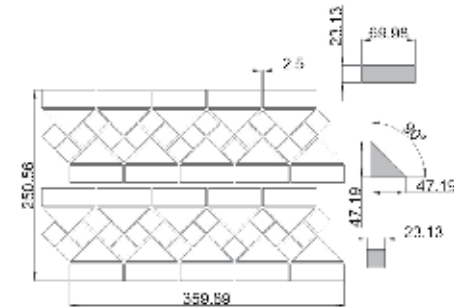
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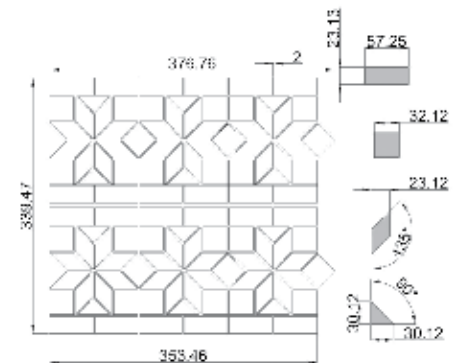
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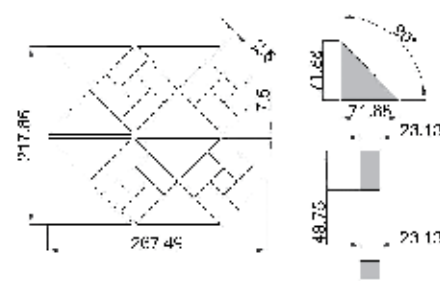
DK 530



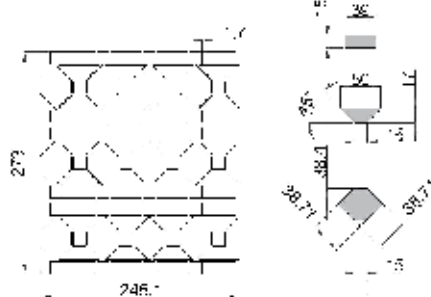
DK 531



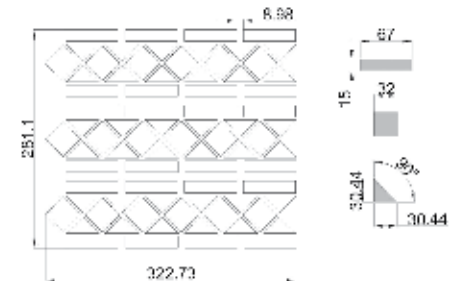
DK 532



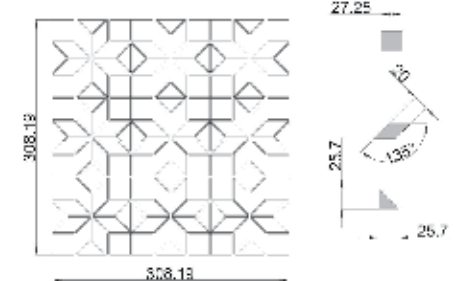
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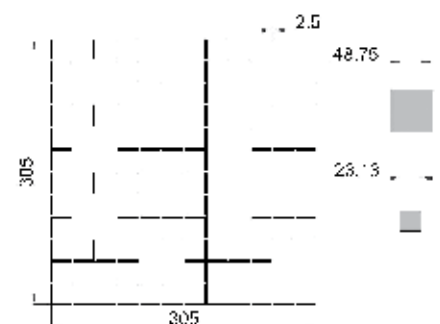
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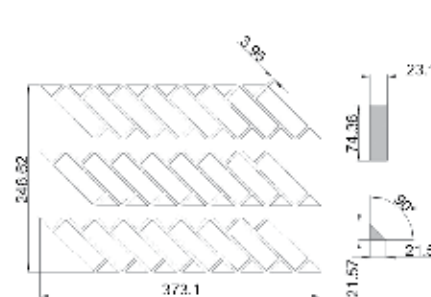
DK 535



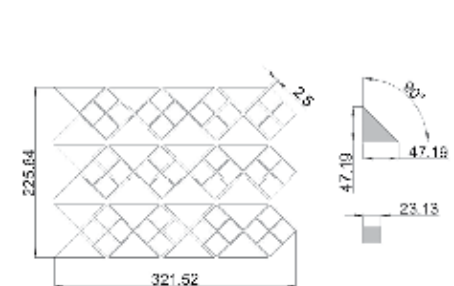
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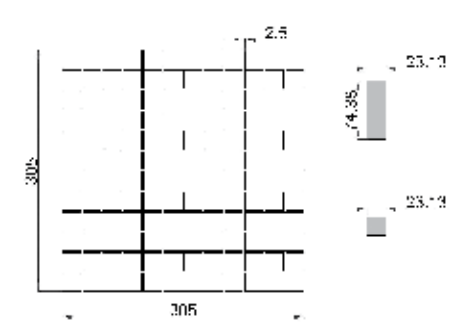
DK 537



DK 538

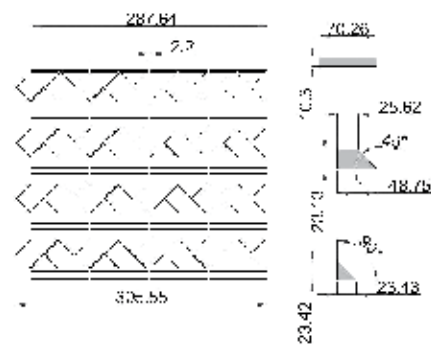


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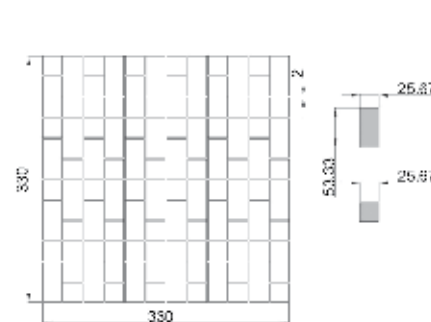


DK 540

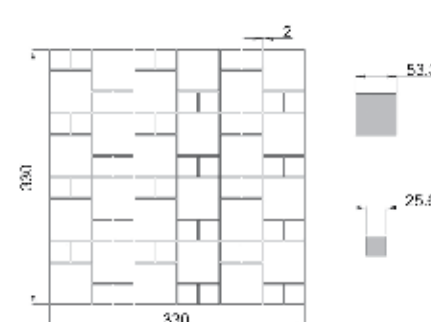
DİZGİ KALIPLARI
THE STRING MOULDS



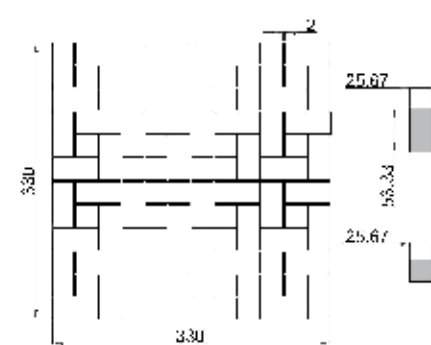
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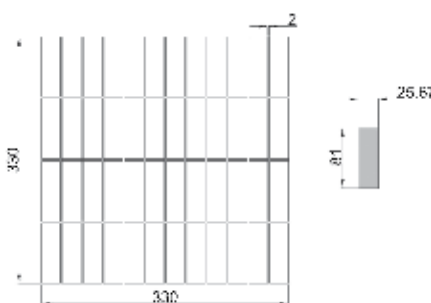
DK 542



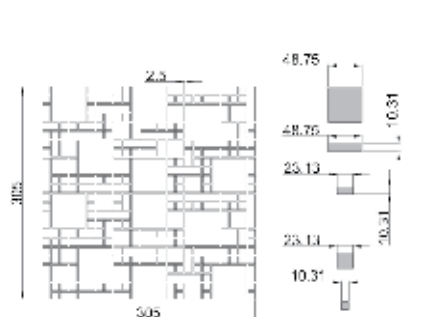
DK 543



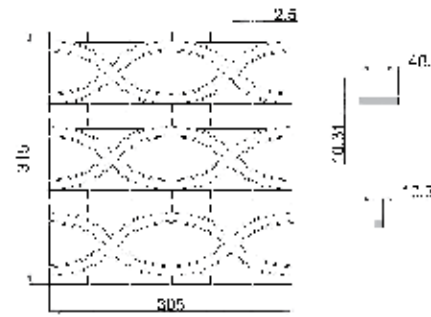
DK 544



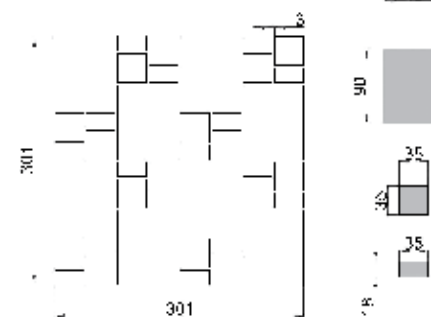
DK 545



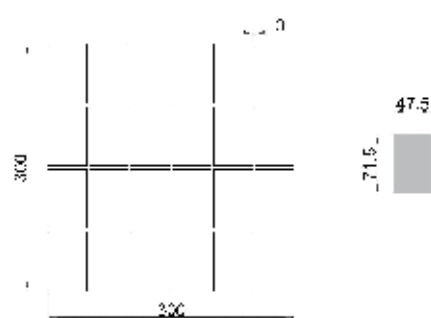
DK 546



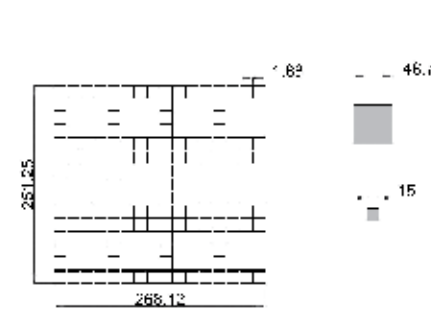
DK 547



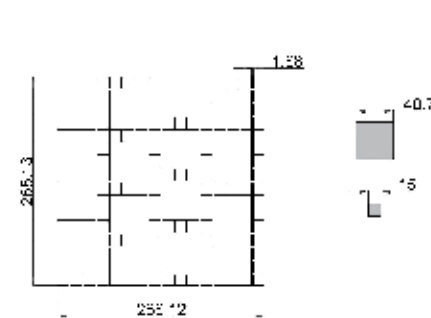
DK 548



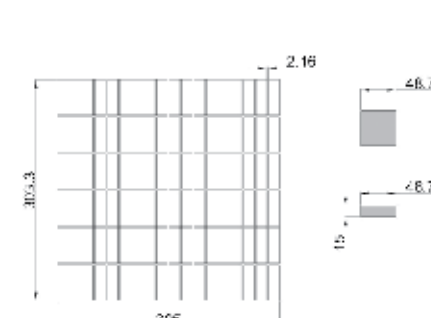
DK 549



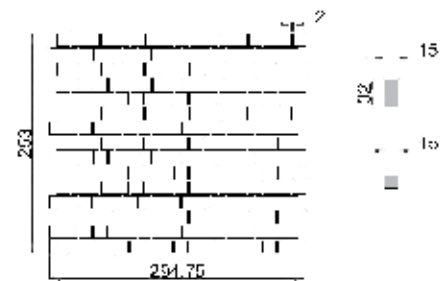
DK 550



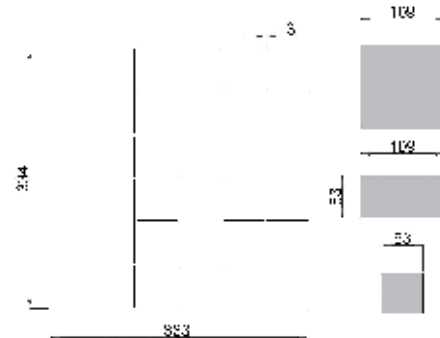
DK 551



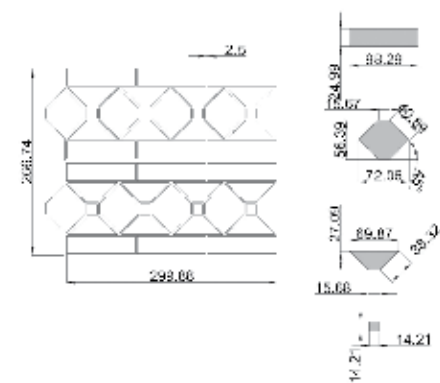
DK 552



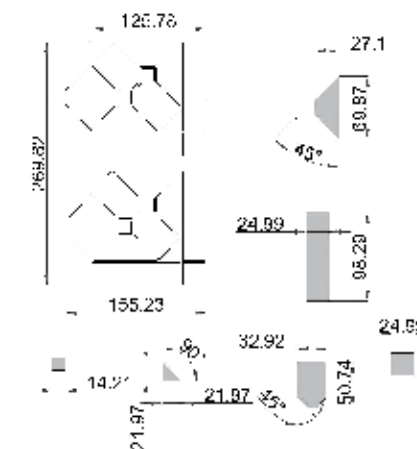
DK 553



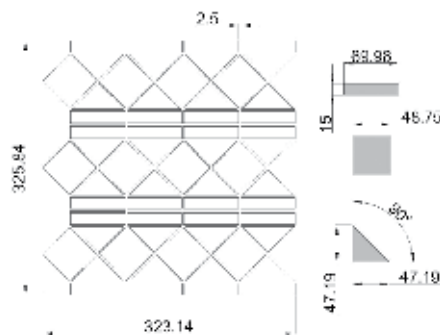
DK 554



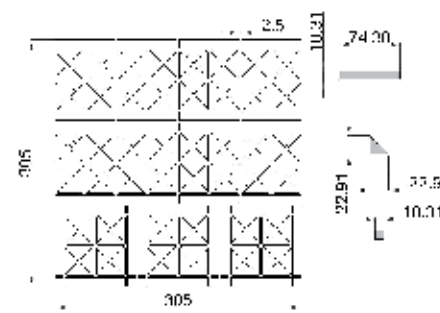
DK 555



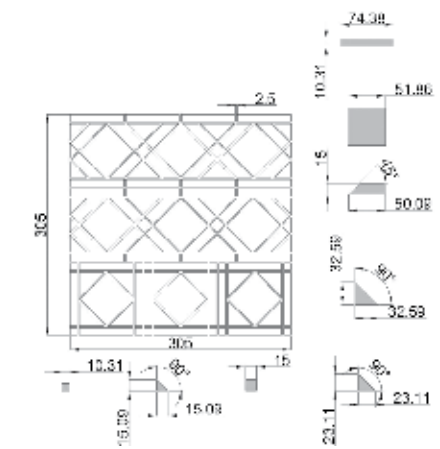
DK 555 K



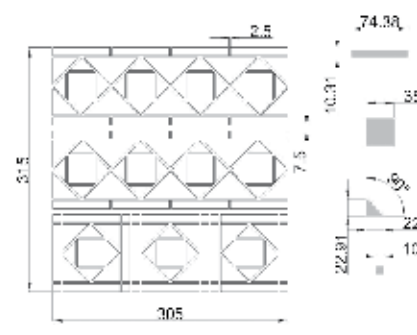
DK 556



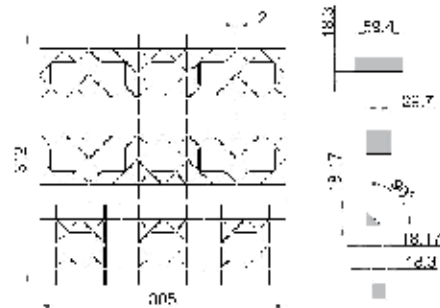
DK 557



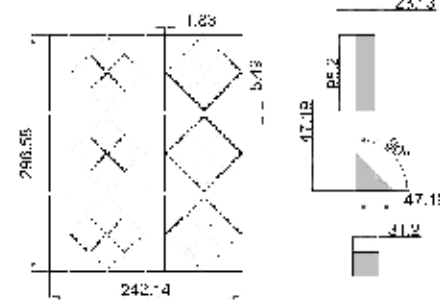
DK 558



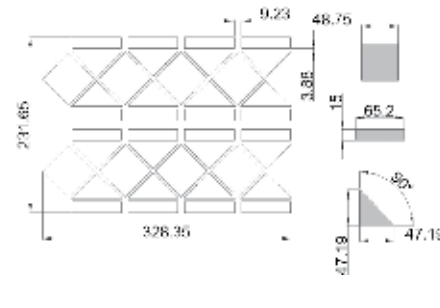
DK 559



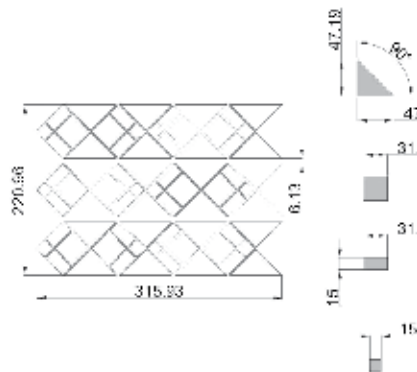
DK 560



DK 561



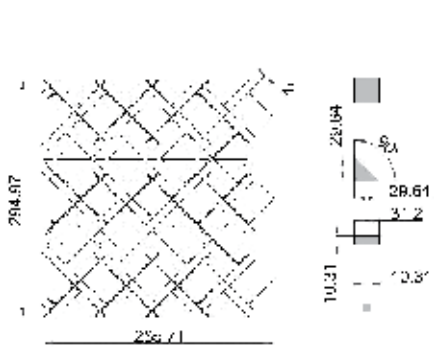
DK 562



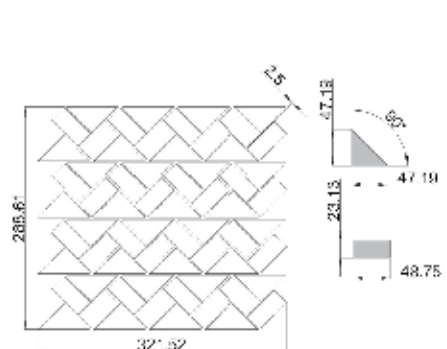
DK 563

DİZGİ KALIPLARI

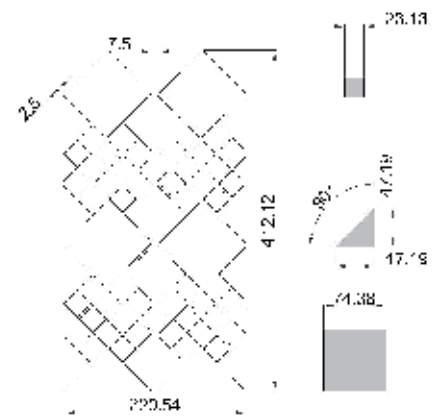
THE STRING MOULDS



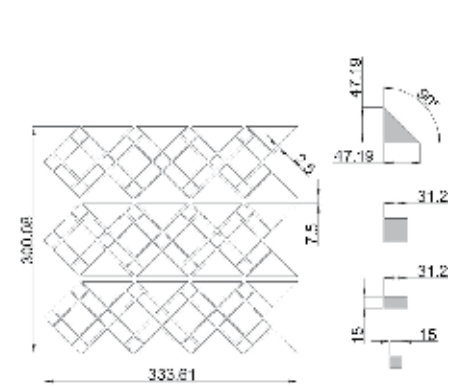
DK 564



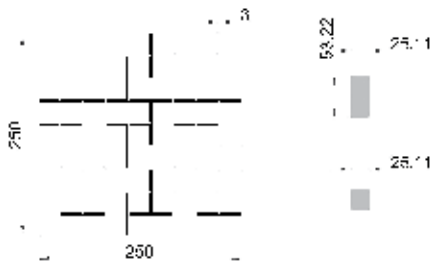
DK 565



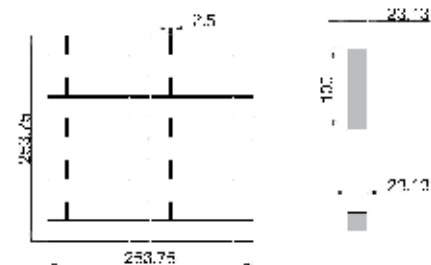
DK 566



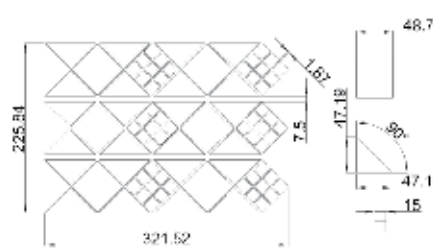
DK 567



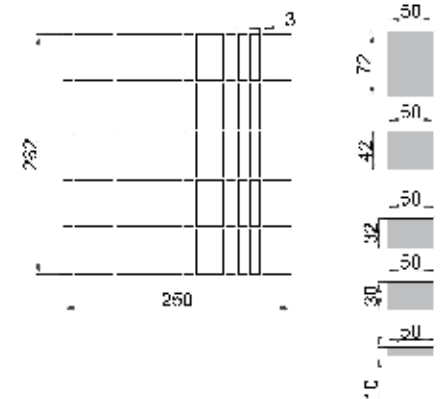
DK 568



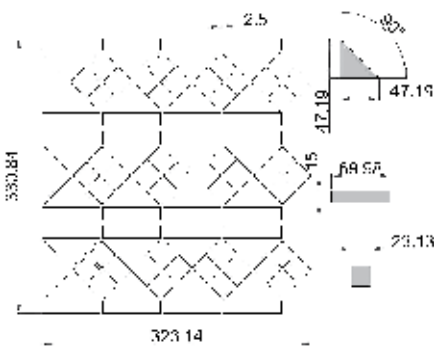
DK 569



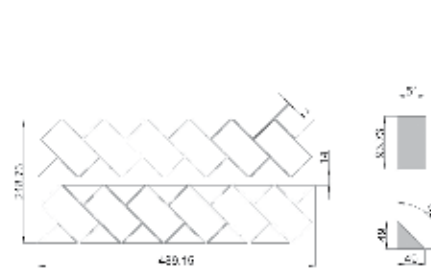
DK 570



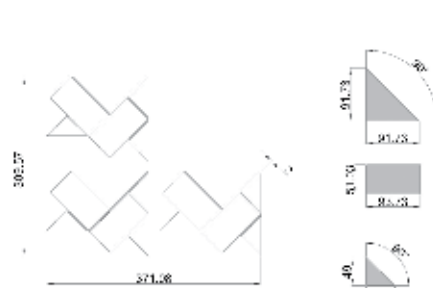
DK 571



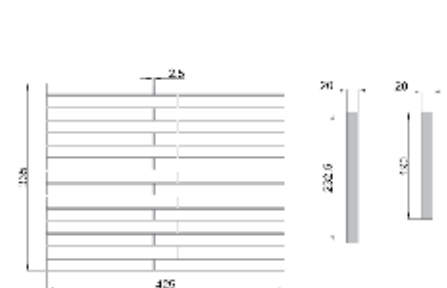
DK 572



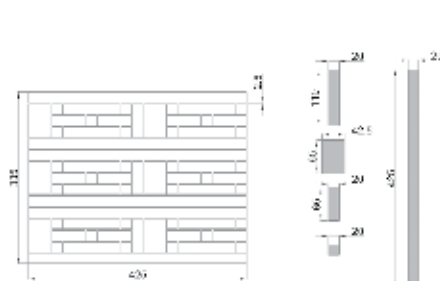
DK 573



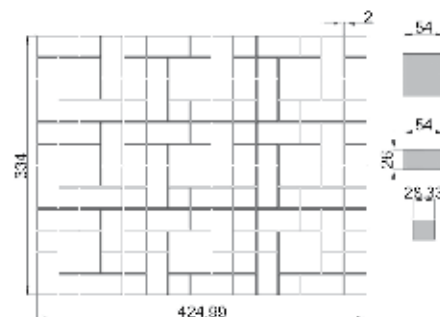
DK 573 K



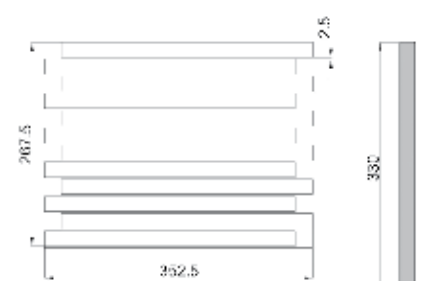
DK 574



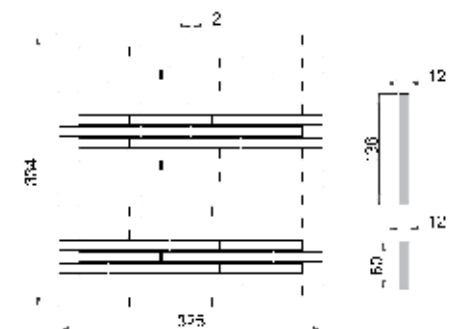
DK 575



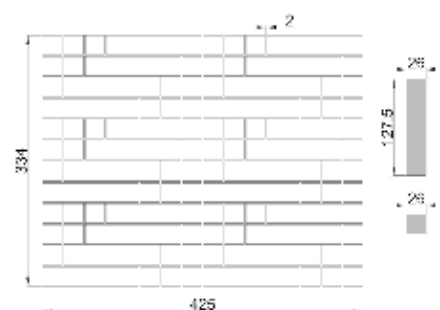
DK 576



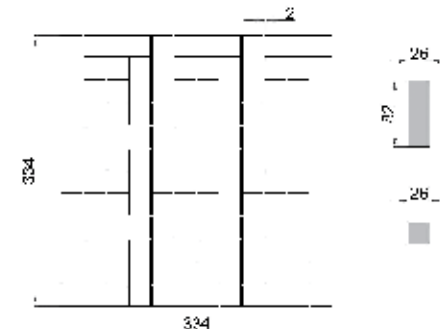
DK 577



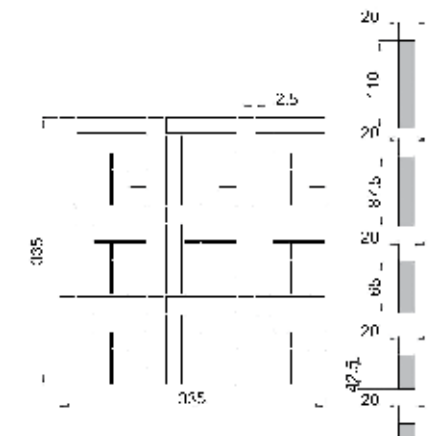
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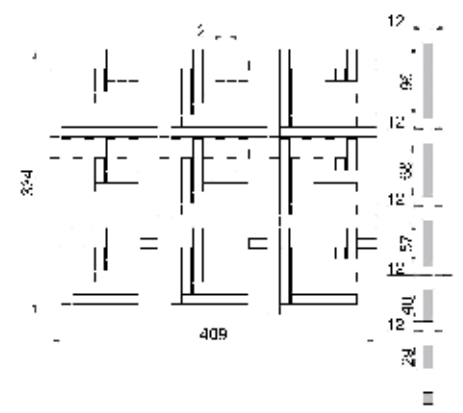
DK 579



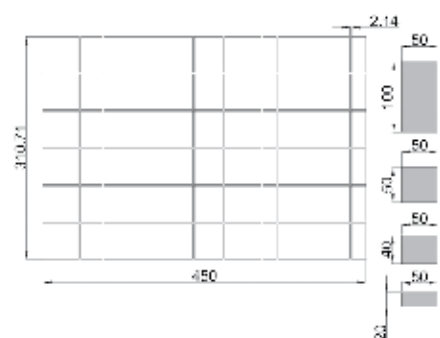
DK 580



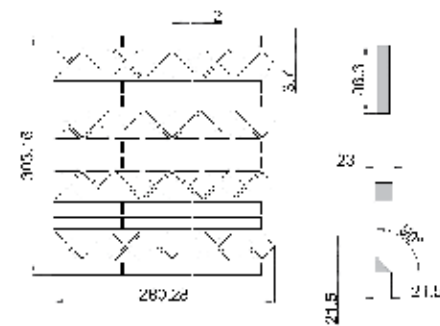
DK 581



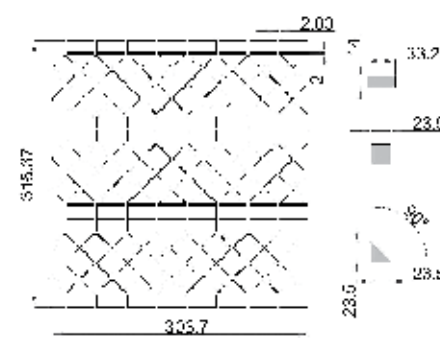
DK 582



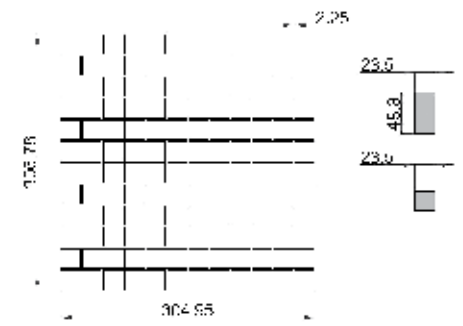
DK 583



DK 584



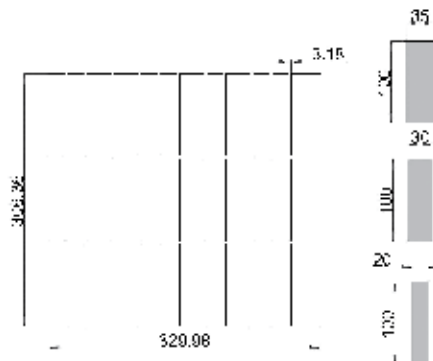
DK 585



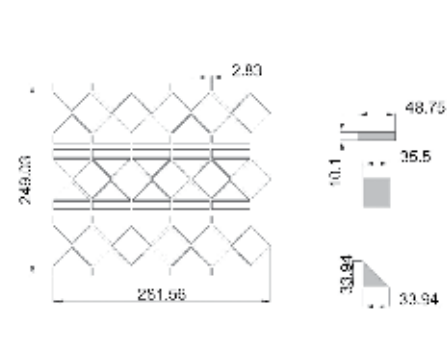
DK 586

DİZGİ KALIPLARI

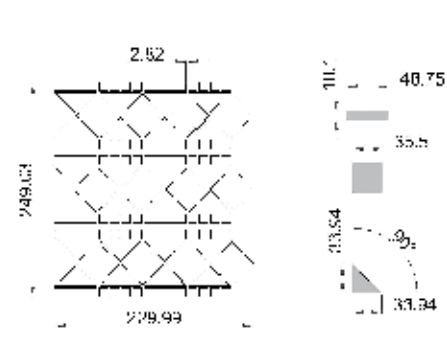
THE STRING MOULDS



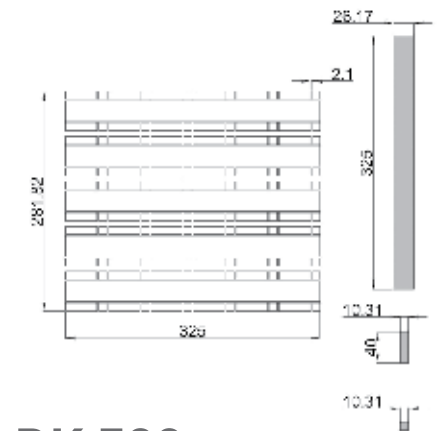
DK 587



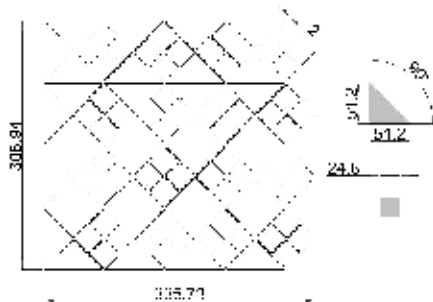
DK 588



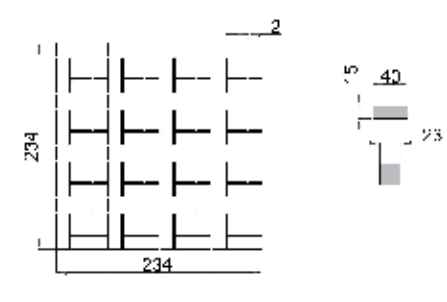
DK 589



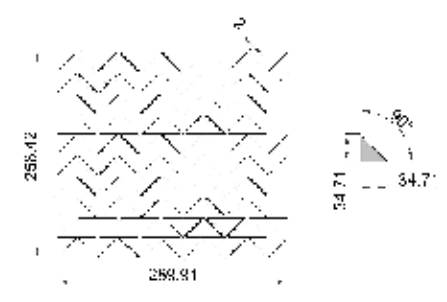
DK 590



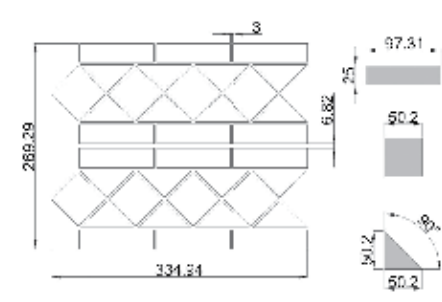
DK 591



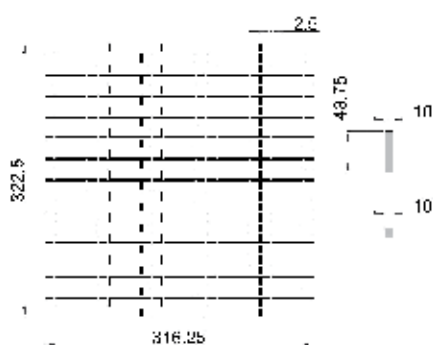
DK 592



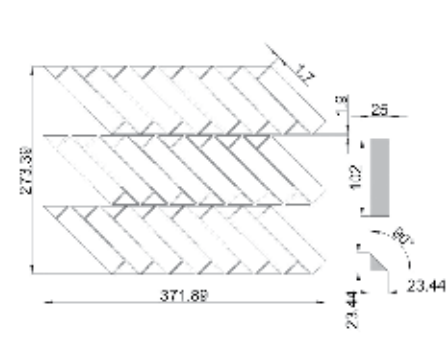
DK 593



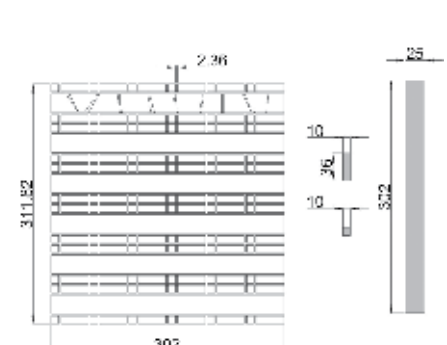
DK 594



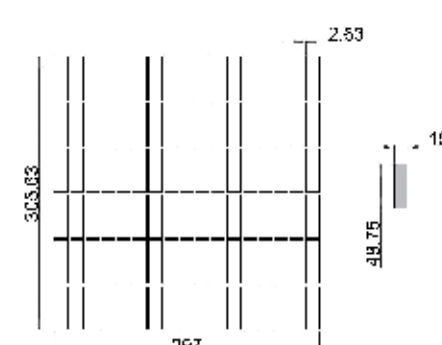
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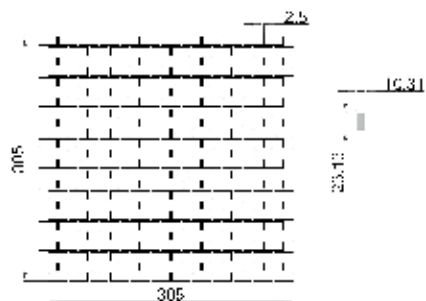
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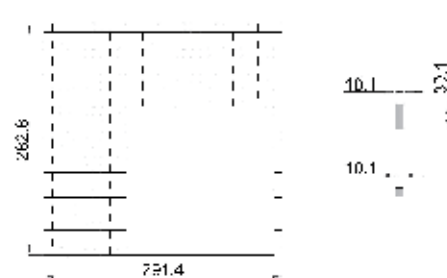
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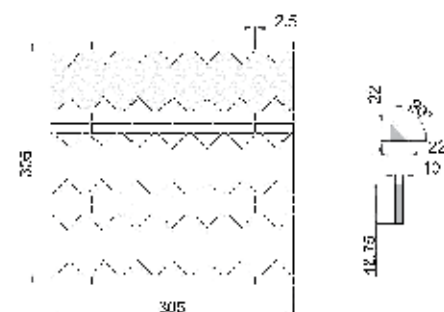
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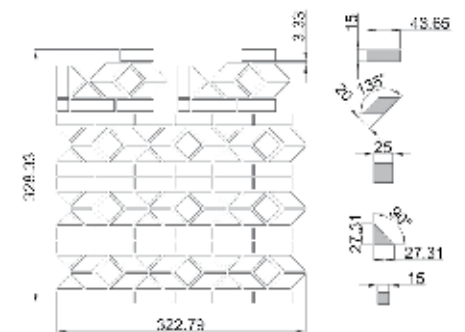
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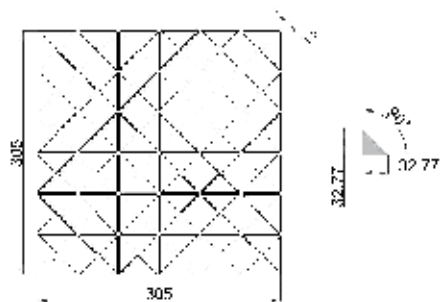
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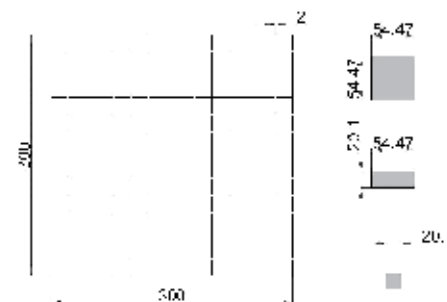
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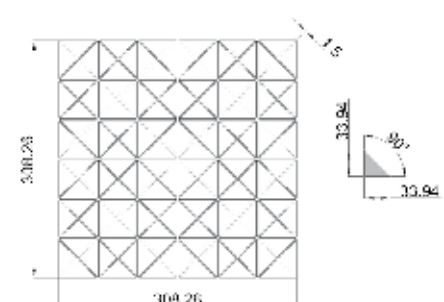
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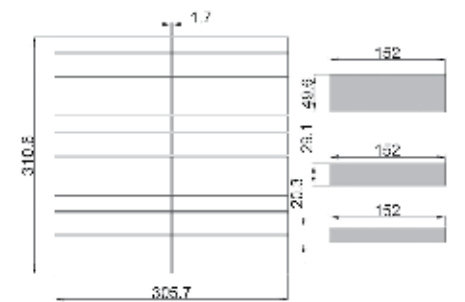
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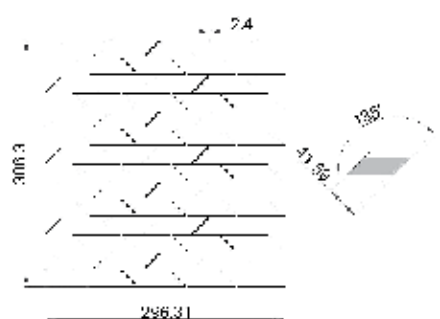
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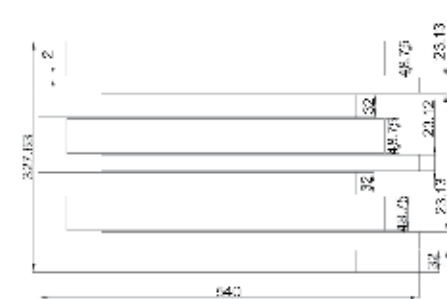
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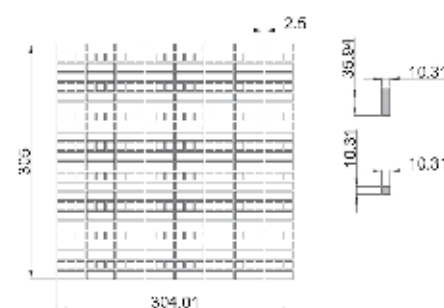
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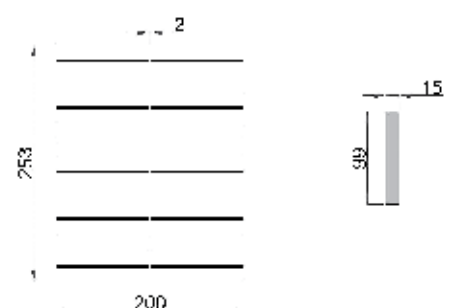
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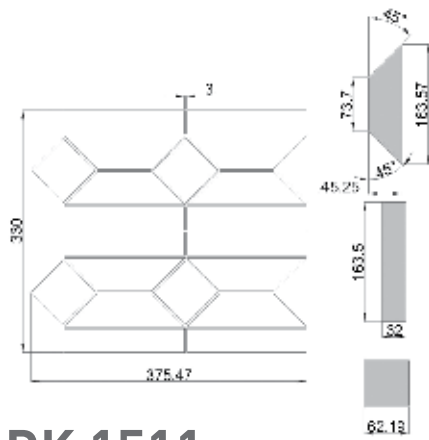
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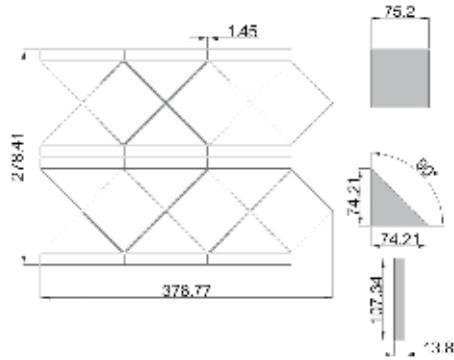
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DİZGİ KALİPLARI

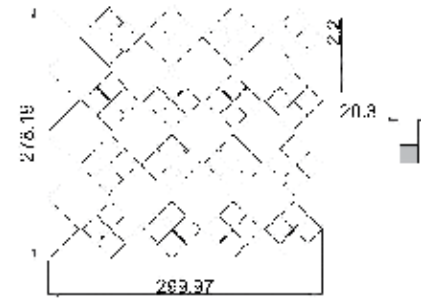
THE STRING MOULDS



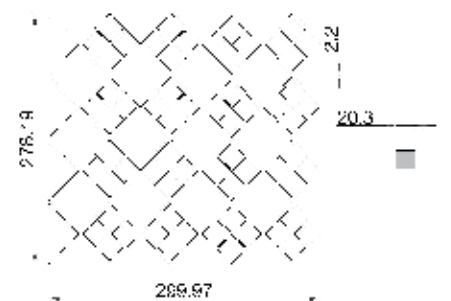
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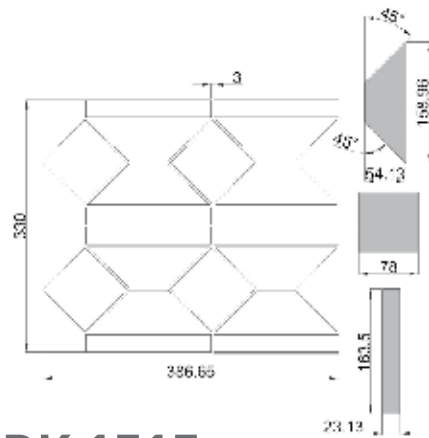
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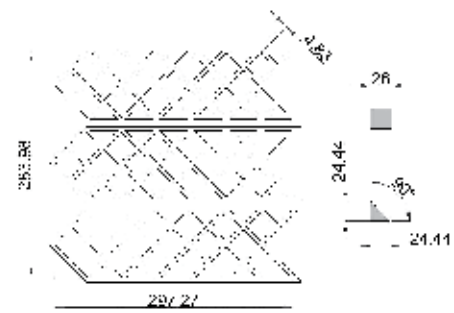
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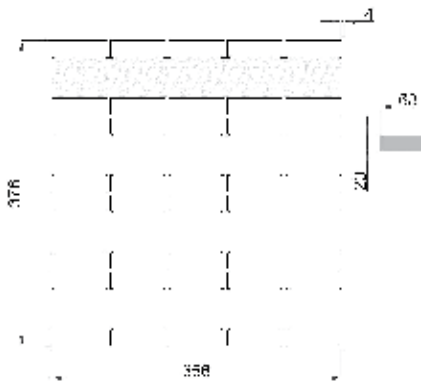
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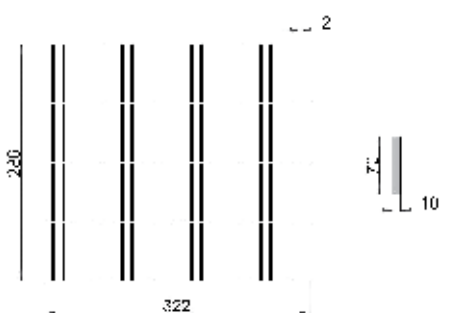
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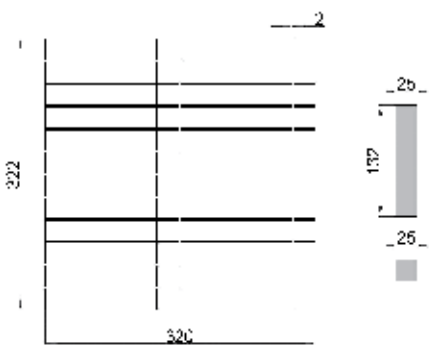
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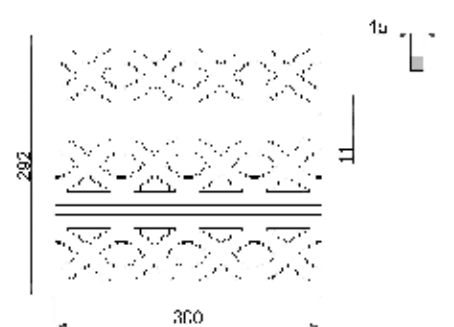
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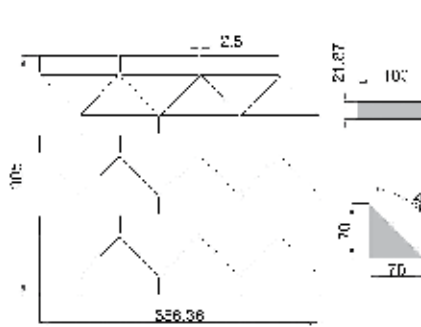
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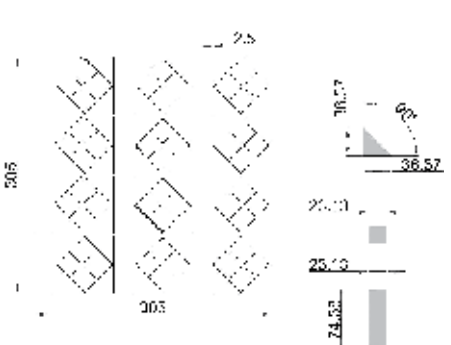
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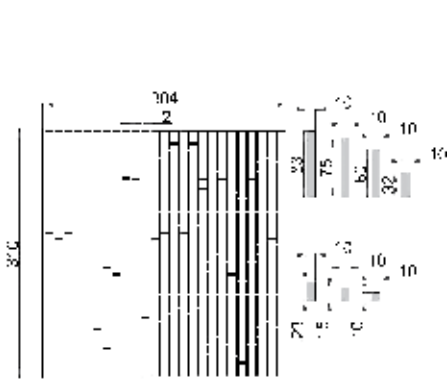


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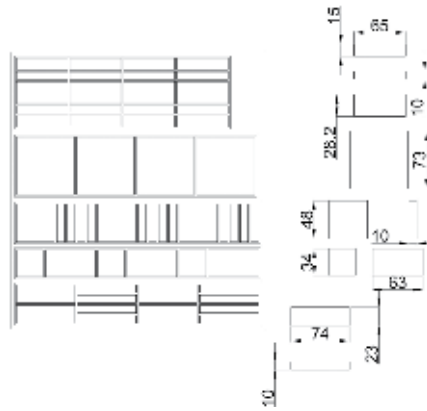


DİZGİ KALIPLARI

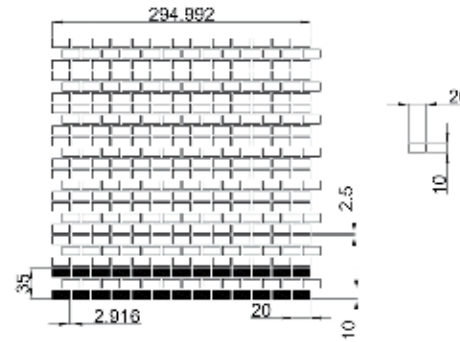
THE STRING MOULDS



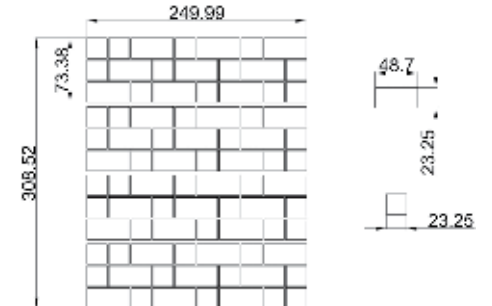
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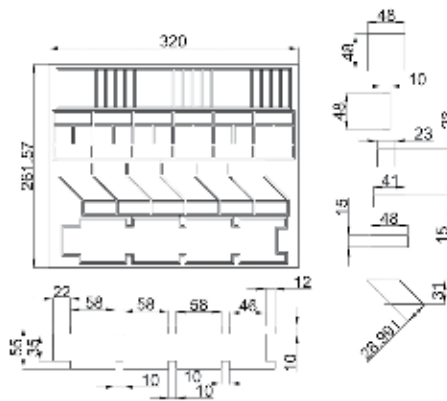
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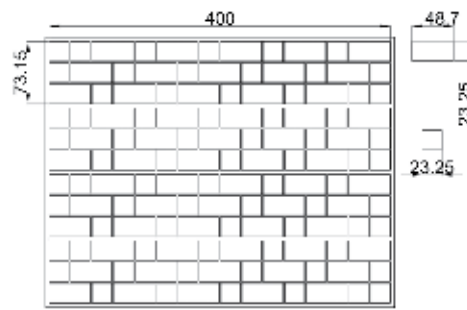
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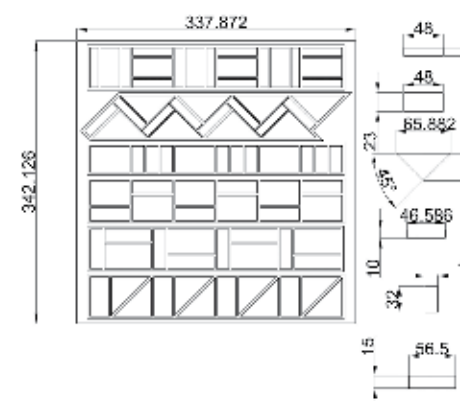
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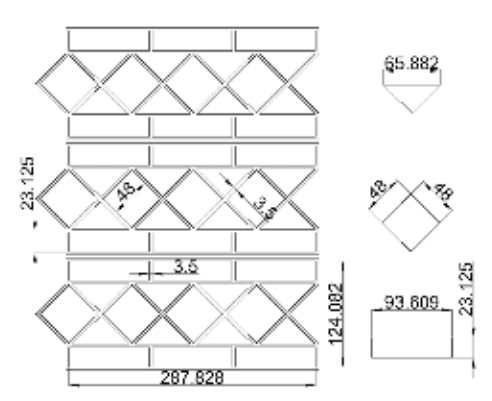
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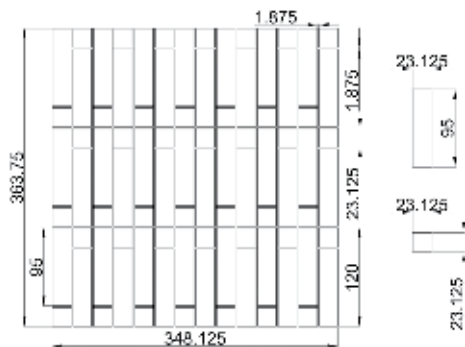
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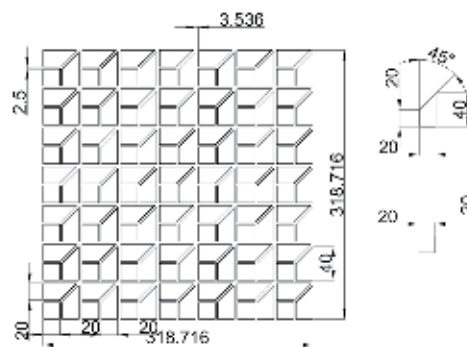
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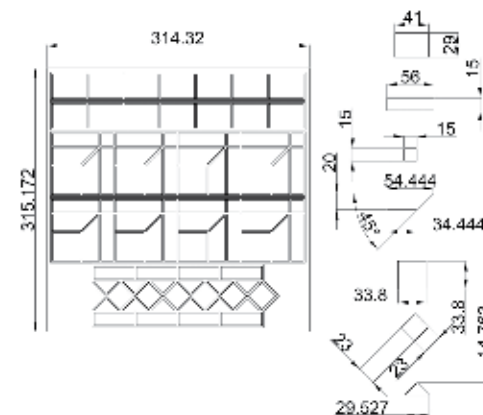
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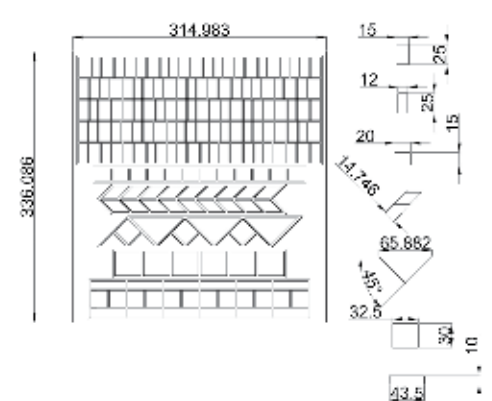
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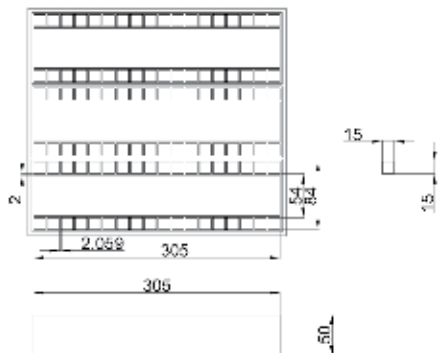
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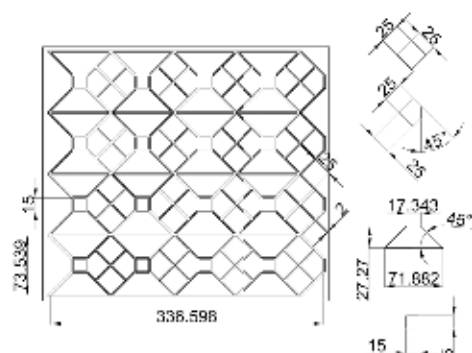
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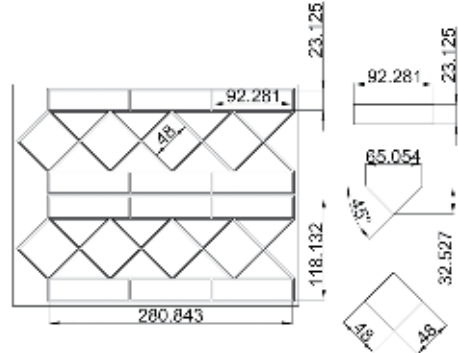
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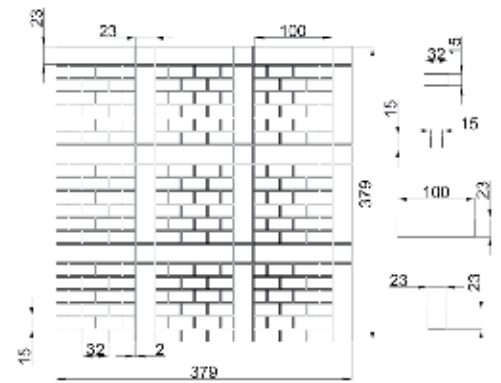
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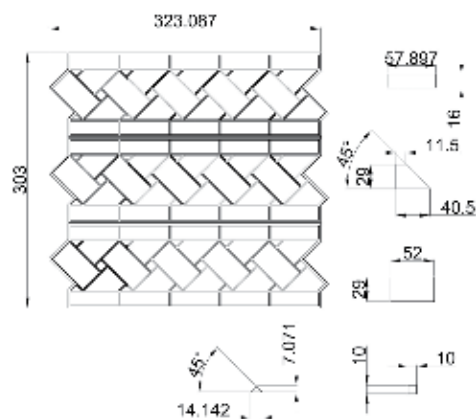
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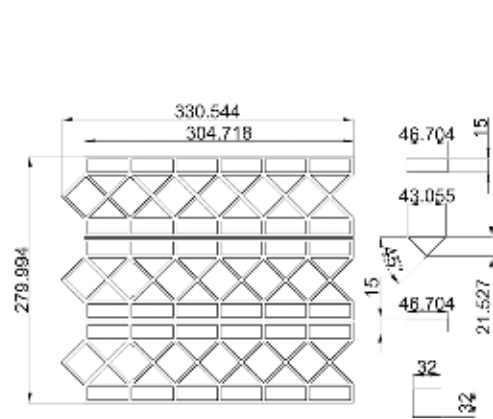
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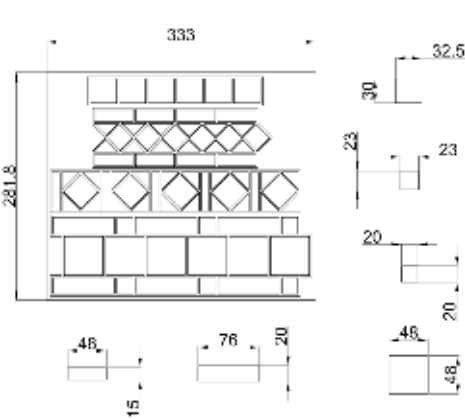
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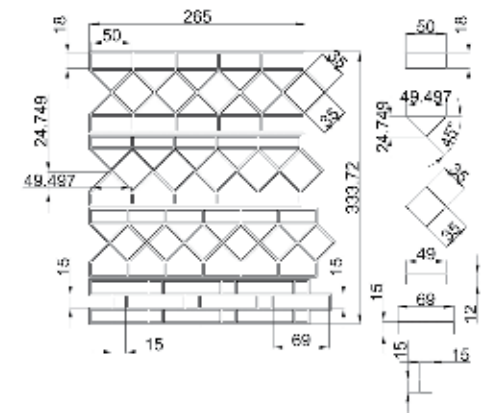
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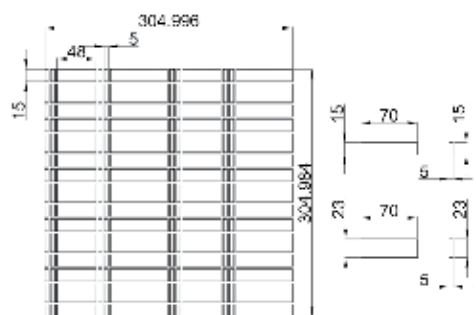
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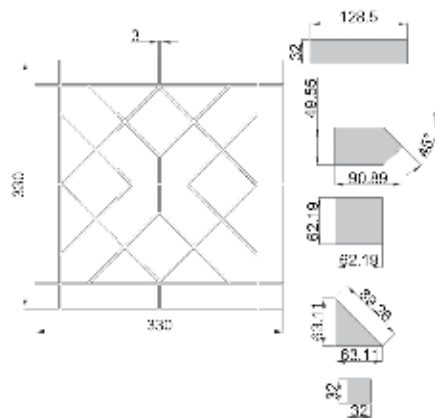
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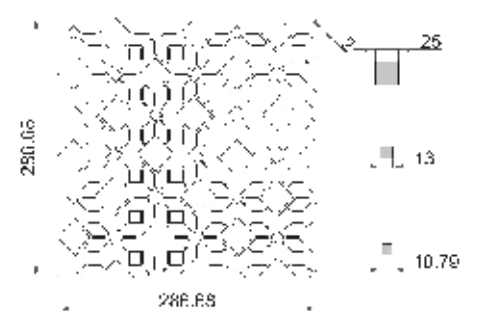
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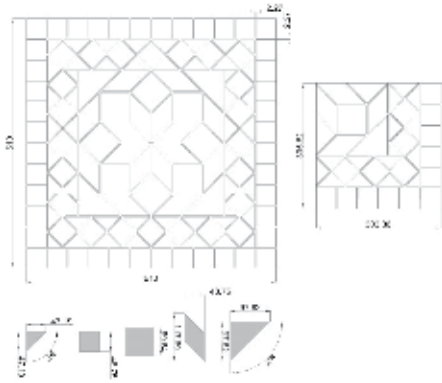
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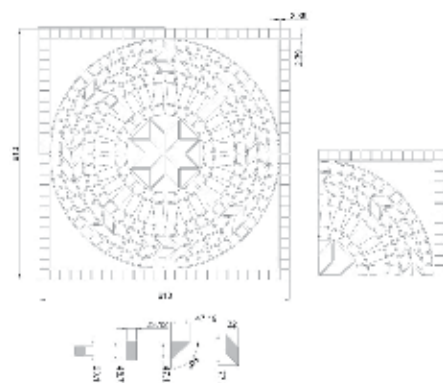
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DİZGİ KALİPLARI

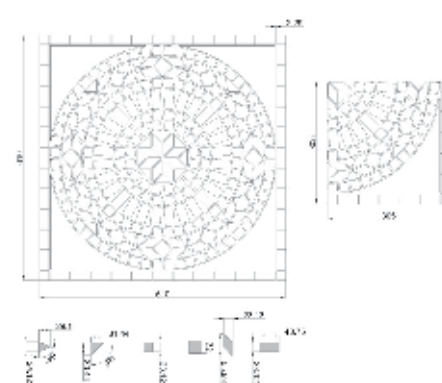
THE STRING MOULDS



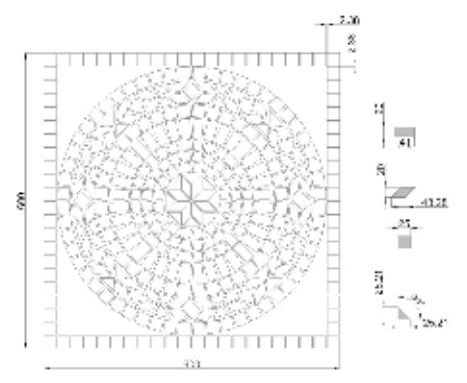
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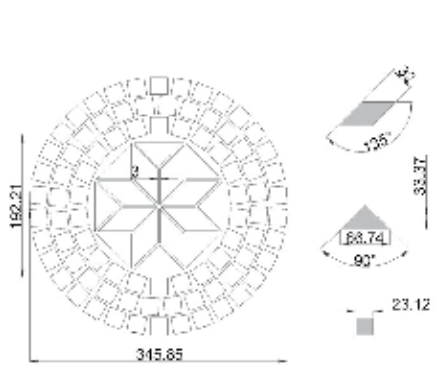
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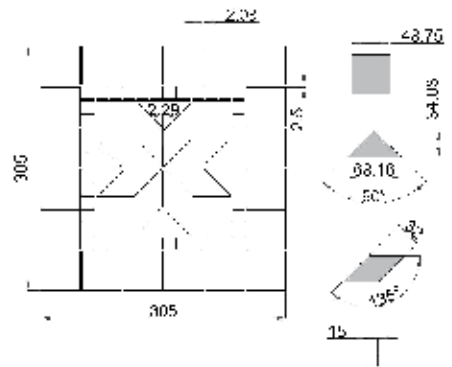
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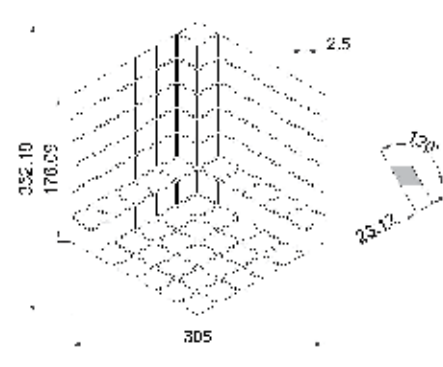
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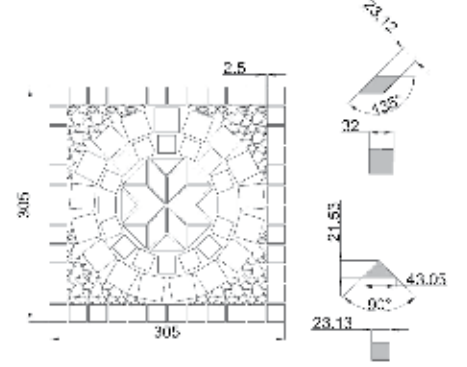
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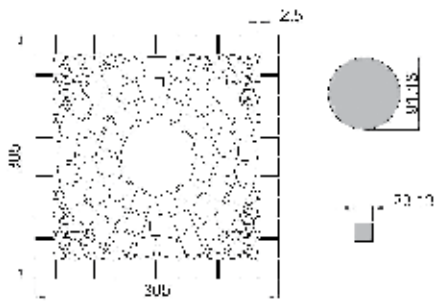
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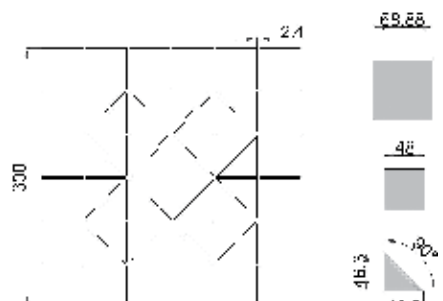
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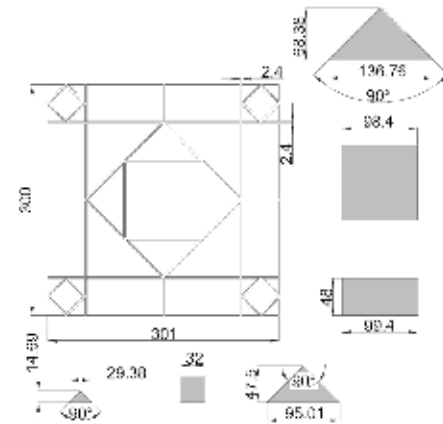
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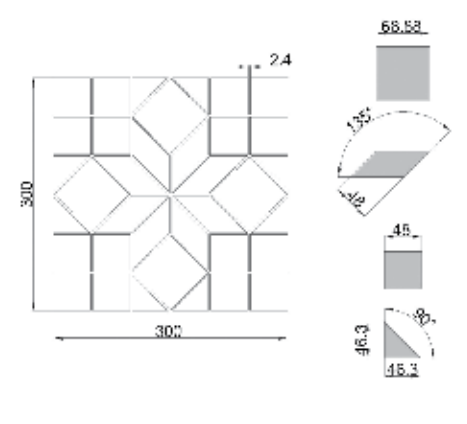
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DK 705



DK 706

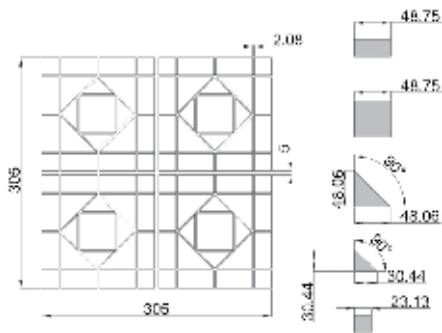


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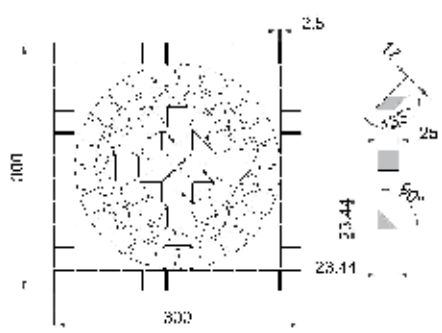


DİZGİ KALIPLARI

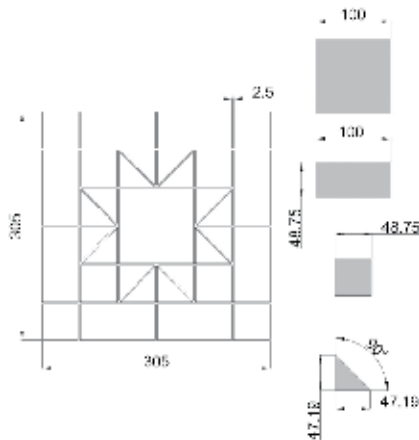
THE STRING MOULDS



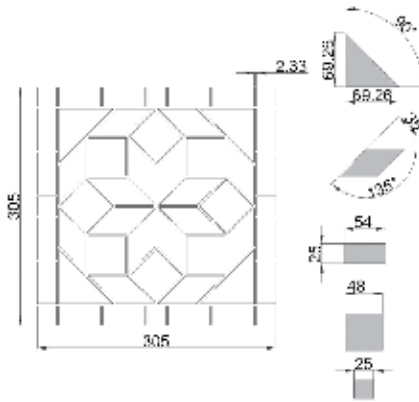
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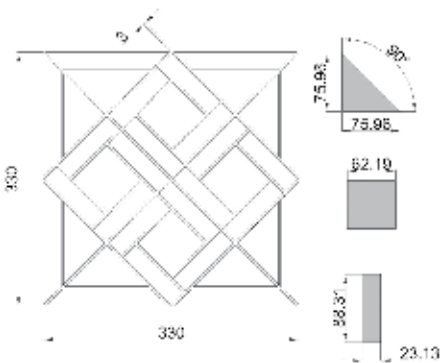
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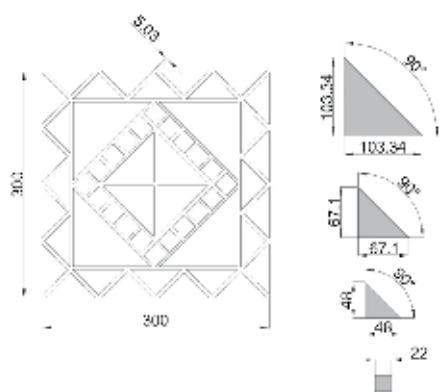
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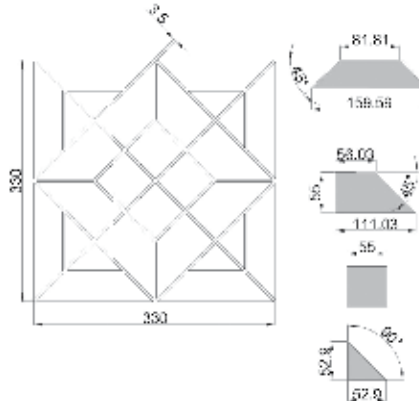
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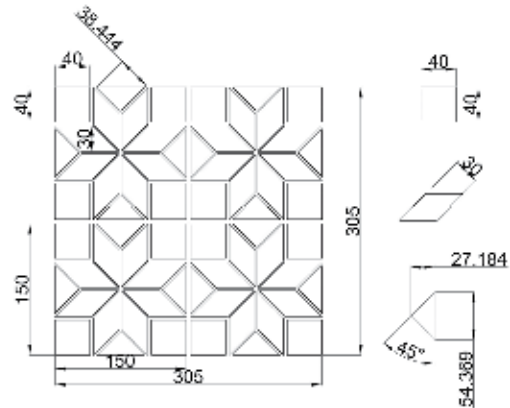
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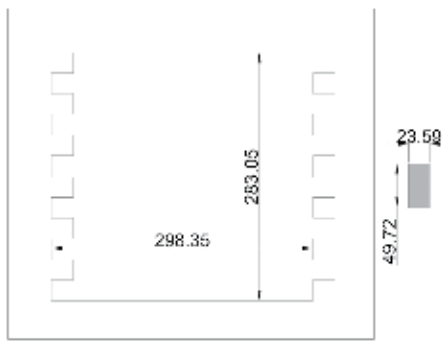
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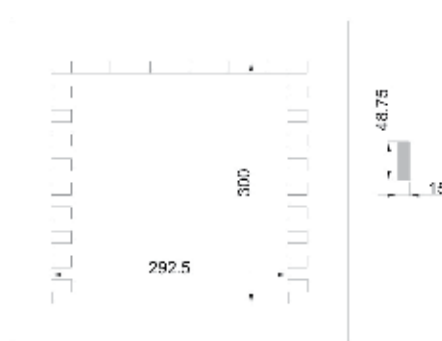
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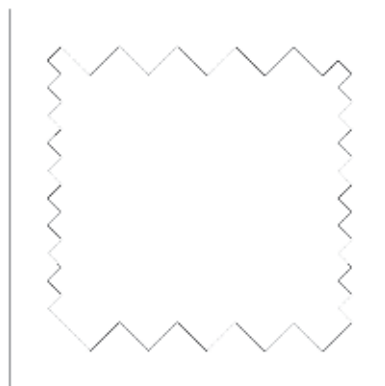
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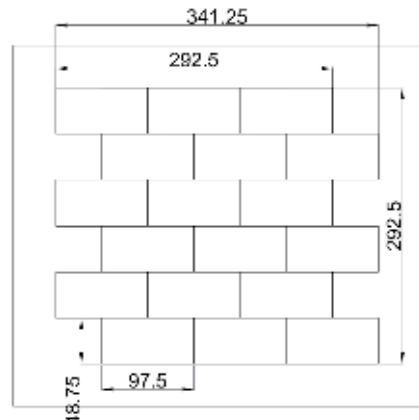
P 01



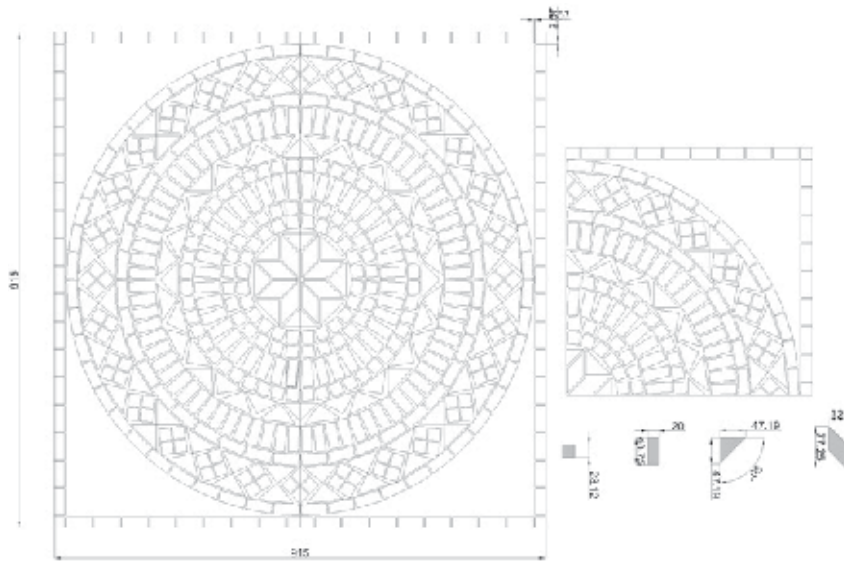
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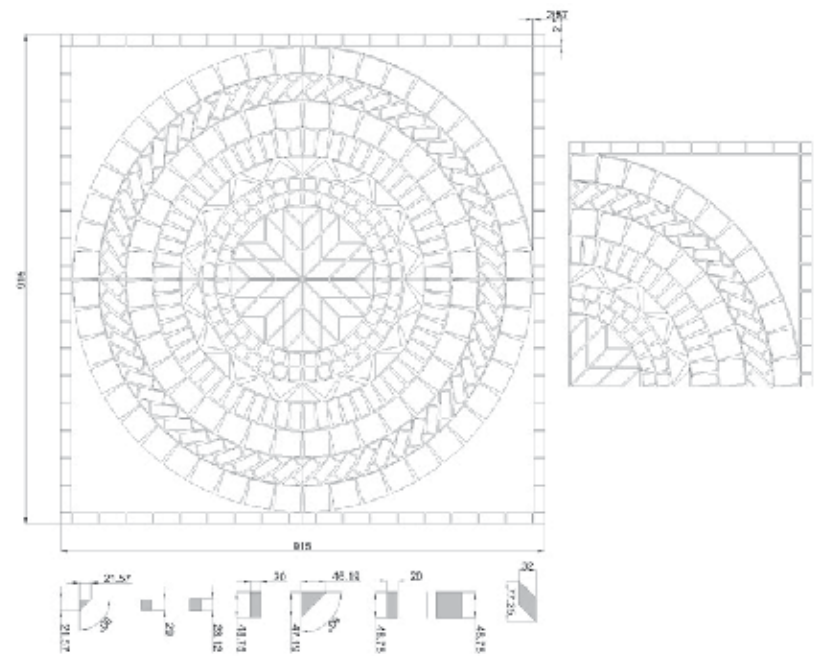
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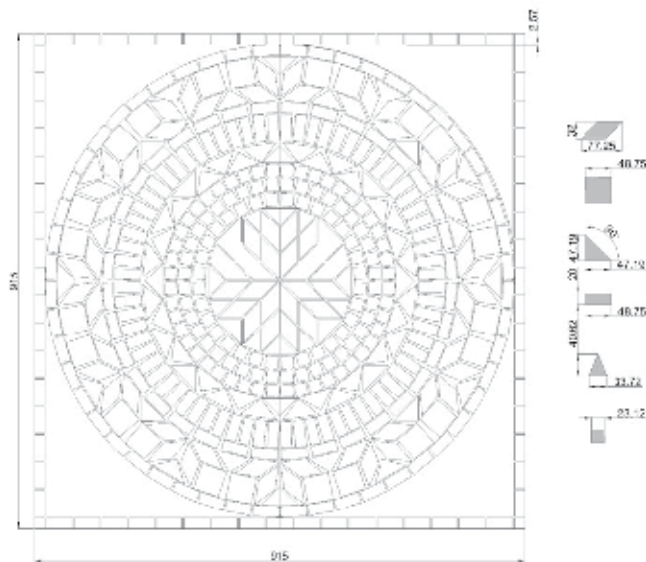
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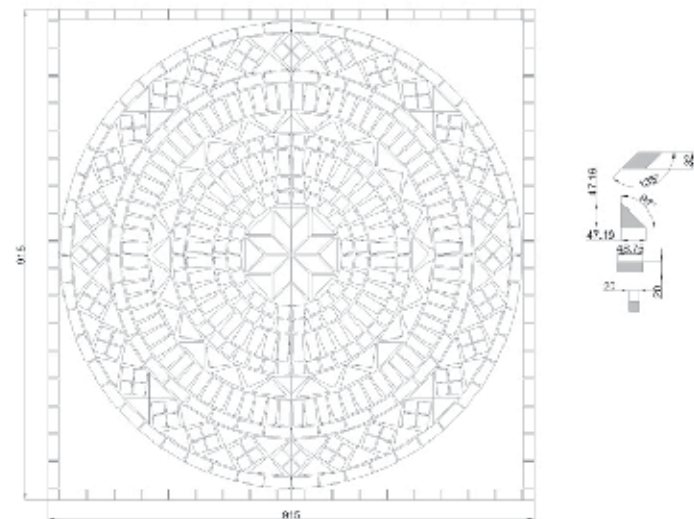
DK 900



DK 901



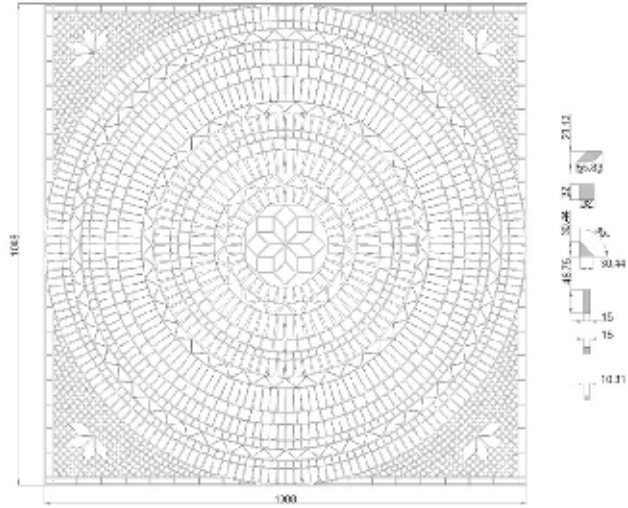
DK 902



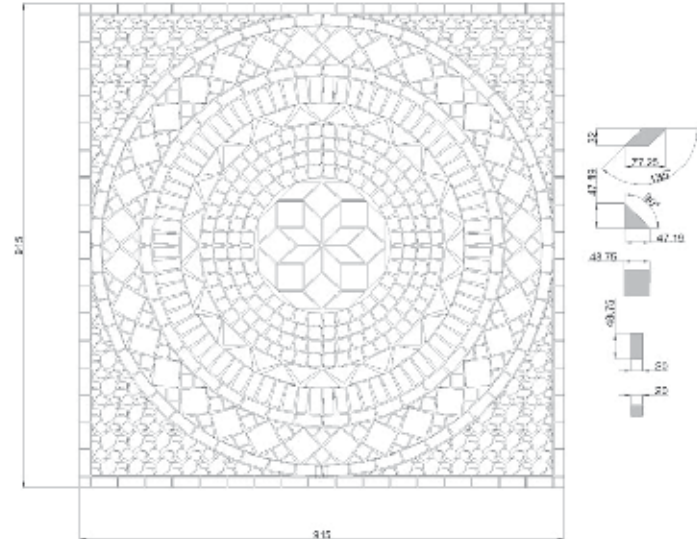
DK 903

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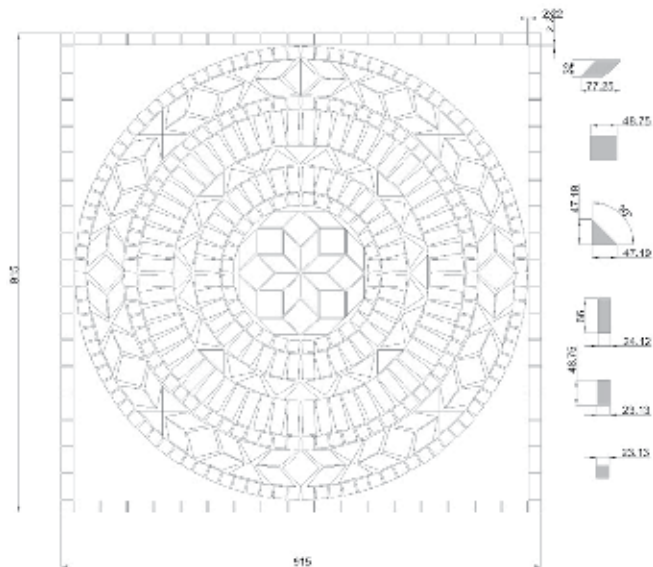
DİZGİ KALIPLARI MADALYON
THE STRING MOULDS - MEDALLION



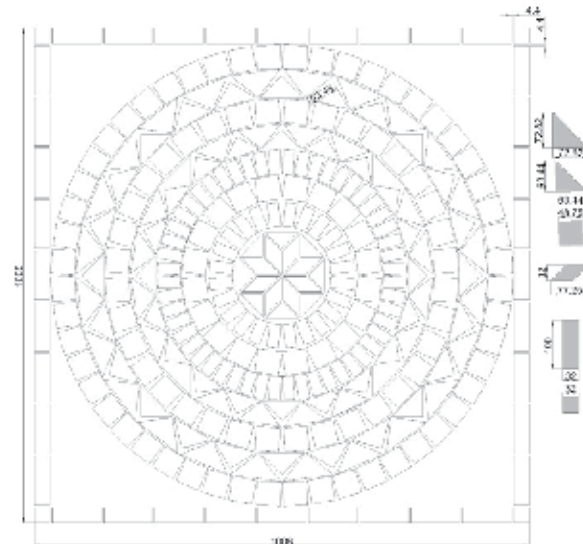
DK 904



DK 905

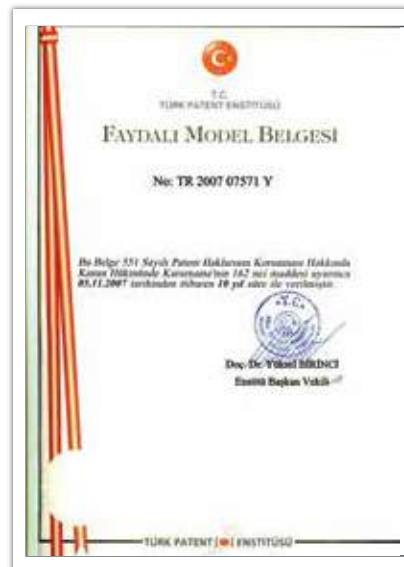


DK 906



DK 907

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