



NOVAL

MACHINE SYSTEMS

Size Özel Tasarım Fırsatlarıyla Hayallerinizi Gerçekleştirelim
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Noval Company started its activities through the manufacture of construction and construction machines with over 25 years of experience in the manufacture of machinery through its production facilities of 5000 m2 and based on its trained cadres with high expertise and through the manufacture of machines. The company has signed important agreements with many institutions in this sector. Today, Noval Company exports more than 90% of its manufactured products, as well as agency and distribution agreements to continue to promote its products worldwide.

Machines manufactured by the company as follows:

- CONCRETE INTERLOCK MACHINES AND MOLDS
- CONCRETE BLOCK MACHINES AND MOLDS
- CONCRETE CEMENT (FIXED - MOBILE - BUILT)
- MIXERS

Faaliyetlerine iş ve inşaat makinaları imalatı ile başlayan **NOVAL A.Ş.**, 25 yılı aşan tecrübesi ile konusunda uzman ve deneyimli kadrosu ile 5000 m2 modern üretim tesislerinde, sektörün birçok kuruluşuna üretmiş olduğu makinaları ile önemli anlaşmalara imza atmıştır.

Bugün ürettiği ürünlerin % 90 ini ihrac eder hale gelen **NOVAL A.Ş.** , dünyanın dört bir tarafında acentelik ve distribütörlük anlaşmaları ile ürünlerini tanıtmaya devam etmektedir.

Üretimini gerçekleştirdiği makinalar şunlardır.

- BETON PARKE MAKİNALARI VE KALIPLARI
- BRİKET MAKİNALARI VE KALIPLARI
- BETON SANTRALLERİ (SABİT, MOBİL, KOMPAKT)
- TRANSMİKSERLER
- BETON POMPALARI
- TAŞ KIRMA VE ELEME TESİSLERİ VE BUNLARIN YEDEK PARÇA VE EKİPMANLARI.





DIFFERENCE SYSTEMS IN HOLLOW BLOCK AND INTERLOCK MACHINE



NBM7042

*Plc Otomasyon olarak kontrol edilen hidrolik sistemli bir makinedir
is a hydraulic system machine, automatic controlled by PLC.*

Otomatik sistemlerde gerekli tesis alanı: Minimum 5500 m² (Makine ve ekipmanları için 1000 m², kurutma alanı 1700m², kuru hazır ürün depolama alanı 1300 m², agrega depolama alanı 1200 m², boş palet bekletme alanı 300 m²)
Otomatik sistemlerde kurulması gerekli toplam transformator veya jeneratör gücü 250 kVA olmalıdır. Tesis kurulu gücü 160 kwsaattir. Otomatik sistemlerde fabrikayı çalıştırmak için gerekli personel sayısı : 2 kişi (operator ve 1 forklift sürücüsü)

Required plant area in NBM7042: Minimum 5500 m², (1000 m² for machinery and equipment, drying area 1700 m², dry ready storage area 1300m², aggregate storage area 1200 m², empty pallet holding area 300 m²) The total transformer or generator power required to be installed in FULL automatic systems must be 250 kVA. The installed capacity is 160 kw. Number of personnel required to operate the factory in FULL automatic systems: 2 persons (operator and FORKLIFT).



20x40x20

75x30x15

50x20x12

MACHINE SIZE & WEIGHT	PRESS TIME	QUANTITY IN ONE PRESS				PRODUCTIVITY IN 8 HOURS			
	15 sec block	block	interlock	Road curbstone	Garden curbstone	block	interlock	Road curbstone	Garden curbstone
2.4*9*2.5 52000 KG	24 sec interlock	18 pcs	42 pcs	10 pcs	20 pcs	34500 pcs	50400 pcs	10270 pcs	20550 pcs
	28 sec curbstone								

NBM6036

*Plc Otomasyon olarak kontrol edilen hidrolik sistemli bir makinedir
is a hydraulic system machine, automatic controlled by PLC.*

Otomatik sistemlerde gerekli tesis alanı: Minimum 4000 m² (Makine ve ekipmanları için 800 m², kurutma alanı 1300m², kuru hazır ürün depolama alanı 1000 m², agrega depolama alanı 600 m², boş palet bekletme alanı 300 m²) Otomatik sistemlerde kurulması gerekli toplam transformator veya jenerator gücü 250 kVA olmalıdır. Tesis kurulu gücü 160 kwsaattir. Otomatik sistemlerde fabrikayı çalıştırmak için gerekli personel sayısı: 2 kişi (operator ve 1 forklift sürücüsü)

Required plant area in NBM6036: Minimum 4000 m², (800 m² for machinery and equipment, drying area 1300 m², dry ready storage area 1000m², aggregate storage area 600 m², empty pallet holding area 300 m²) The total transformer or generator power required to be installed in FULL automatic systems must be 250 kVA. The installed capacity is 160 kw. Number of personnel required to operate the factory in FULL automatic systems: 2 persons (operator and FORKLIFT).



20x40x20

75x30x15

50x20x12

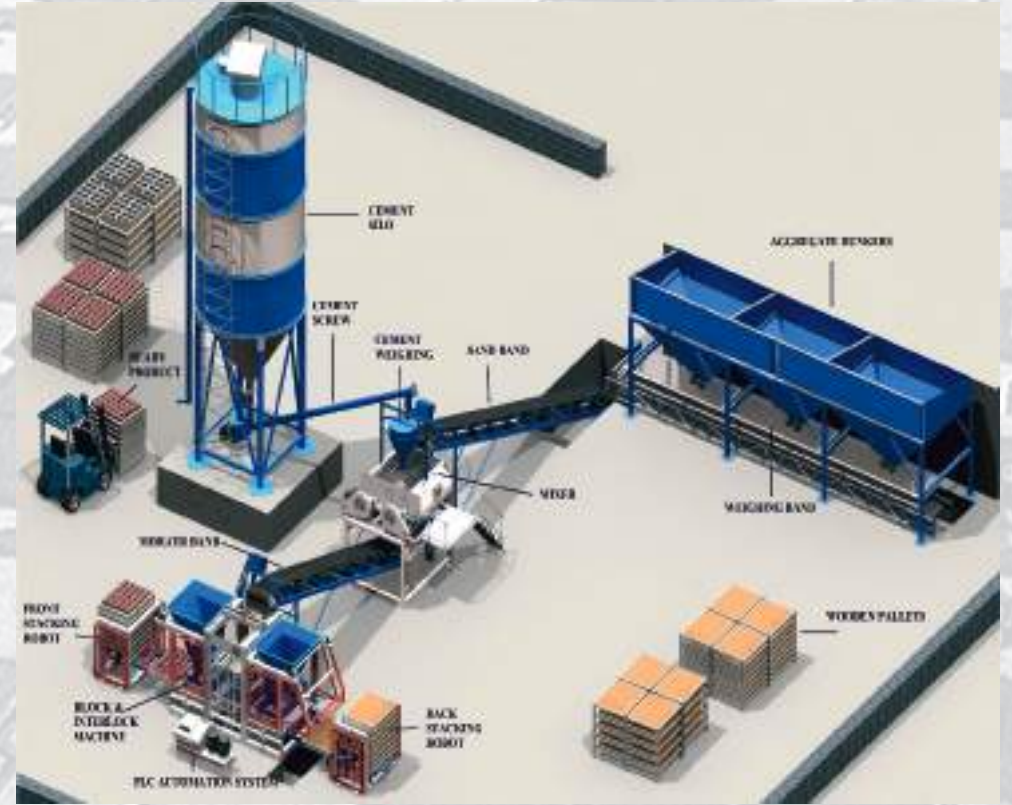
MACHINE SIZE & WEIGHT	PRESS TIME		QUANTITY IN ONE PRESS				PRODUCTIVITY IN 8 HOURS			
	15 sec block	24 sec interlock	block	interlock	Road curbstone	Garden cubstone	block	interlock	Road curbstone	Garden cubstone
2.5*7.5*2.4 45000 KG	28 sec curbstone		15 pcs	36 pcs	9 pcs	18 pcs	28750 pcs	43200 pcs	9245 pcs	18500 pcs

NBM5030

*Plc Otomasyon olarak kontrol edilen hidrolik sistemli bir makinedir
is a hydraulic system machine, automatic controlled by PLC.*

Otomatik sistemlerde gerekli tesis alanı: Minimum 3000 m² (Makine ve ekipmanları için 600 m², kurutma alanı 1000m², kuru hazır ürün depolama alanı 700 m², agrega depolama alanı 500 m², boş palet bekletme alanı 200 m²)
Otomatik sistemlerde kurulması gerekli toplam transformator veya jeneratör gücü 110 kVA olmalıdır. Tesis kurulu gücü 100 kwsattir. Otomatik sistemlerde fabrikayı çalıştırmak için gerekli personel sayısı : 2 kişi (operator ve 1 forklift sürücüsü)

Required plant area in NBM5030: Minimum 3000 m², (600 m² for machinery and equipment, drying area 1000 m², dry ready storage area 700m², aggregate storage area 500 m², empty pallet holding area 200 m²) The total transformer or generator power required to be installed in FULL automatic systems must be 110 kVA. The installed capacity is 100 kw. Number of personnel required to operate the factory in FULL automatic systems: 2 persons (operator and FORKLIFT).



20x40x20

75x30x15

50x20x12

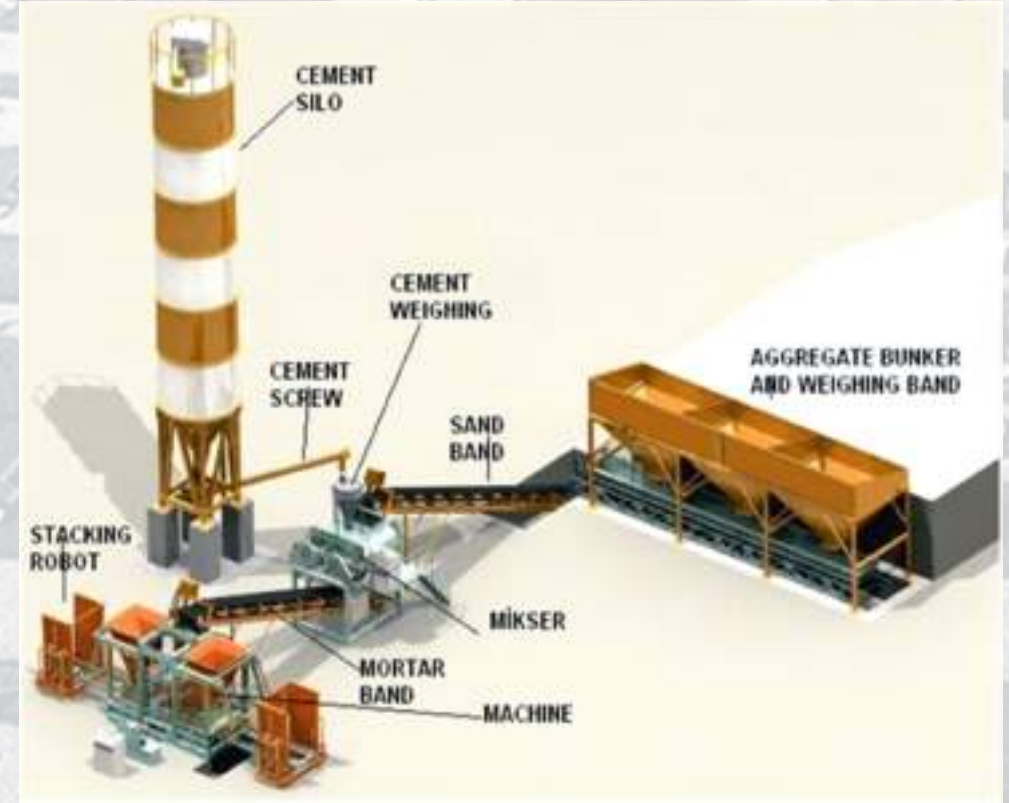
MACHINE SIZE & WEIGHT	PRESS TIME	QUANTITY IN ONE PRESS				PRODUCTIVITY IN 8 HOURS			
	15 sec block	block	interlock	Road curbstone	Garden curbstone	block	interlock	Road curbstone	Garden curbstone
2.2*7*2.5 37000 KG	24 sec interlock	12 pcs	30 pcs	8 pcs	16 pcs	23000 pcs	36000 pcs	28200 pcs	16440 pcs
	28 sec curbstone								

NBM5025

*Plc Otomasyon olarak kontrol edilen hidrolik sistemli bir makinedir
is a hydraulic system machine, automatic controlled by PLC.*

Otomatik sistemlerde gerekli tesis alanı: Minimum 3000 m² (Makine ve ekipmanları için 600 m², kurutma alanı 1000m², kuru hazır ürün depolama alanı 700 m², agrega depolama alanı 500 m², boş palet bekletme alanı 200 m²) Otomatik sistemlerde kurulması gerekli toplam transformator veya jeneratör gücü 110 kVA olmalıdır. Tesis kurulu gücü 100 kwsaattir. Otomatik sistemlerde fabrikayı çalıştırmak için gerekli personel sayısı : 2 kişi (operator ve 1 forklift sürücüsü)

Required plant area in NBM5025: Minimum 3000 m², (600 m² for machinery and equipment, drying area 1000 m², dry ready storage area 700m², aggregate storage area 500 m², empty pallet holding area 200 m²) The total transformer or generator power required to be installed in FULL automatic systems must be 110 kVA. The installed capacity is 100 kw. Number of personnel required to operate the factory in FULL automatic systems: 2 persons (operator and FORKLIFT).



20x40x20

75x30x15

50x20x12

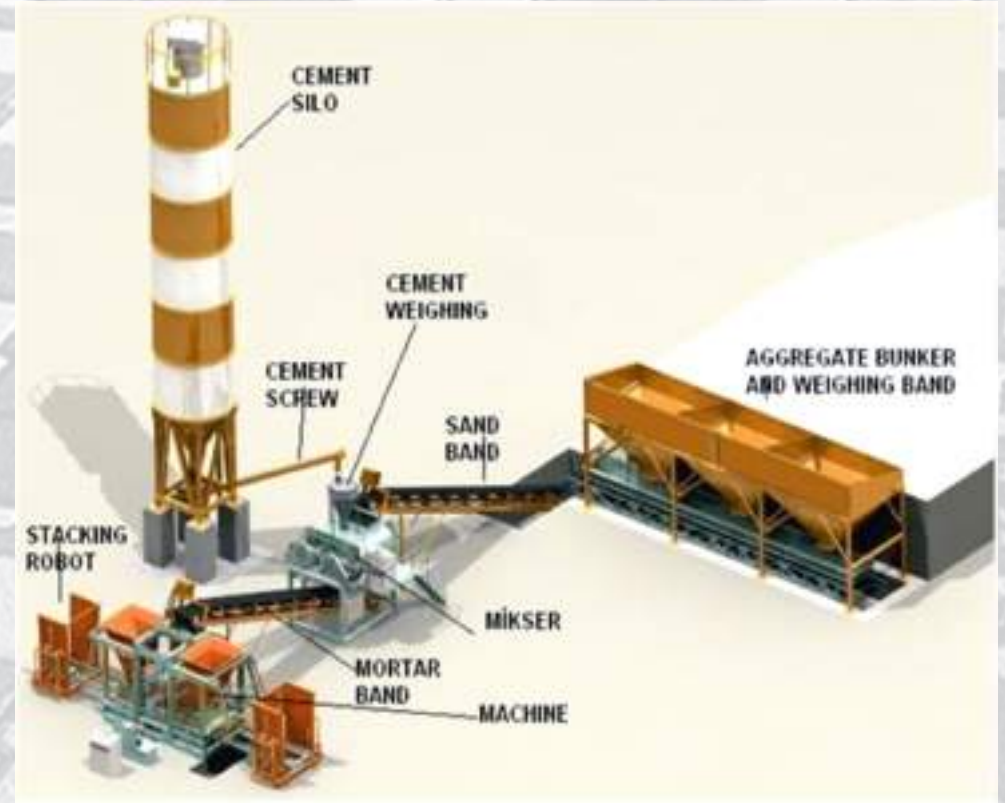
MACHINE SIZE & WEIGHT	PRESS TIME	QUANTITY IN ONE PRESS				PRODUCTIVITY IN 8 HOURS			
	15 sec block	block	interlock	Road curbstone	Garden cubstone	block	interlock	Road curbstone	Garden cubstone
2.25*6*2.5 35500 KG	24 sec interlock	10 pcs	25 pcs	6 pcs	12 pcs	19200 pcs	30000 pcs	6165 pcs	13335 pcs
	28 sec curbstone								

NBM4020

*Plc Otomasyon olarak kontrol edilen hidrolik sistemli bir makinedir
is a hydraulic system machine, automatic controlled by PLC.*

Otomatik sistemlerde gerekli tesis alanı: Minimum 2500 m² (Makine ve ekipmanları için 600 m², kurutma alanı 700m², kuru hazır ürün depolama alanı 600 m², agrega depolama alanı 400 m², boş palet bekletme alanı 200 m²) Otomatik sistemlerde kurulması gerekli toplam transformator veya jeneratör gücü 100 kVA olmalıdır. Tesis kurulu gücü 100 kwsattir. Otomatik sistemlerde fabrikayı çalıştırmak için gerekli personel sayısı : 2 kişi (operator ve 1 forklift sürücüsü)

Required plant area in NBM4020: Minimum 2500 m², (600 m² for machinery and equipment, drying area 700 m², dry ready storage area 600m², aggregate storage area 400 m², empty pallet holding area 200 m²) The total transformer or generator power required to be installed in FULL automatic systems must be 100 kVA. The installed capacity is 100 kw. Number of personnel required to operate the factory in FULL automatic systems: 2 persons (operator and FORKLIFT).



20x40x20

75x30x15

50x20x12

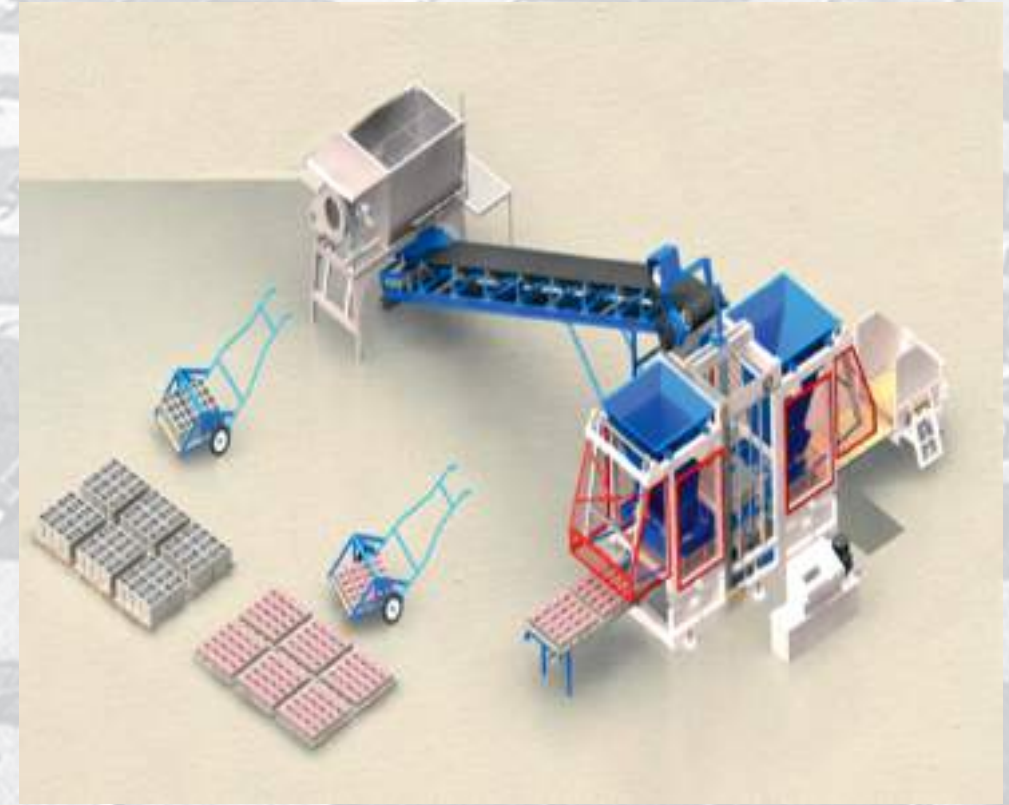
MACHINE SIZE & WEIGHT	PRESS TIME	QUANTITY IN ONE PRESS				PRODUCTIVITY IN 8 HOURS			
	15 sec block	block	interlock	Road curbstone	Garden curbstone	block	interlock	Road curbstone	Garden curbstone
2*5.5*2.5 31000 KG	24 sec interlock	8 pcs	20 pcs	5 pcs	8 pcs	15360 pcs	24000 pcs	5140 pcs	8225 pcs
	28 sec curbstone								

NBM3012

*Plc Otomasyon olarak kontrol edilen hidrolik sistemli bir makinedir
is a hydraulic system machine, automatic controlled by PLC.*

MANUEL sistemlerde gerekli tesis alanı: Minimum 1500 m² (Makine ve ekipmanları için 300 m², kurutma alanı 500 m², kuru hazır ürün depolama alanı 400 m², agrega depolama alanı 200 m², boş palet bekletme alanı 100 m²) Otomatik sistemlerde kurulması gerekli toplam transformator veya jenerator gücü 80 kVA olmalıdır. Tesis kurulu gücü 50 kwsattir. Otomatik sistemlerde fabrikayı çalıştırmak için gerekli personel sayısı : 3 kişi (2 operator ve 1 forklift sürücüsü)

Required plant area for semi-automatic NBM3012: Minimum 1500 m², (300 m² for machinery and equipment, drying area 500 m², dry ready storage area 400m², aggregate storage area 200 m², empty pallet holding area 100 m²) The total transformer or generator power required to be installed in semi-automatic systems must be 80 kVA. The installed capacity is 50 kw. Number of personnel required to operate the factory in semi-automatic systems: 9 people (2 operator and 1 wooden pallet drive, 3 fresh product carriers, 3 aggregate feeders)



20x40x20

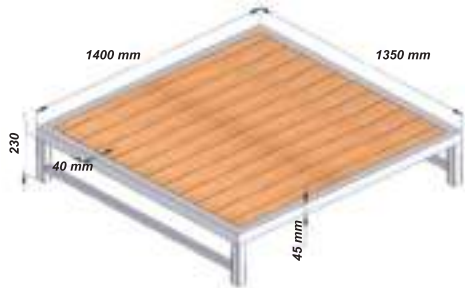
75x30x15

50x20x12

MACHINE SIZE & WEIGHT	PRESS TIME	QUANTITY IN ONE PRESS				PRODUCTIVITY IN 8 HOURS			
	15 sec block	block	interlock	Road curbstone	Garden curbstone	block	interlock	Road curbstone	Garden curbstone
1.5*4*2.5 27250 KG	24 sec interlock	4 pcs	12 pcs		6 pcs	7680 pcs	14400 pcs		6170 pcs
	28 sec curbstone								

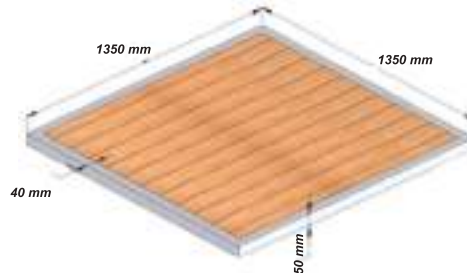


MACHINE PRODUCTION PALLET



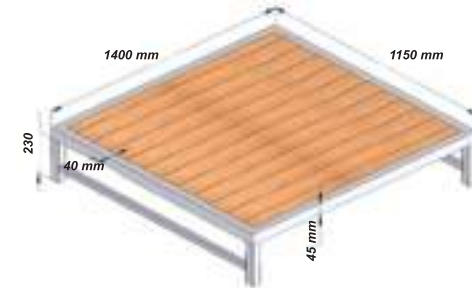
NBM7042 AUTOMATIC MACHINE PALLET

It is the wooden pallet which produces 42 pcs interlocks and 18 pcs (20x40x20) blocks in one press.



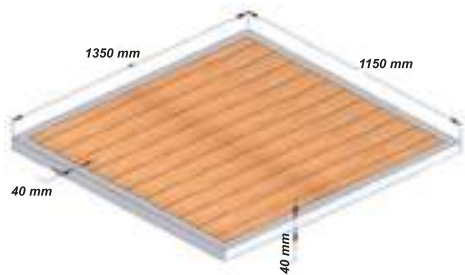
NBM7042 AUTOMATIC FINGER CAR PALLET

It is the wooden pallet which produces 18 pcs (20x40x20) blocks in one press.



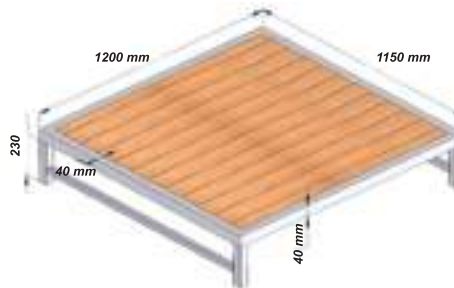
NBM6036 AUTOMATIC MACHINE PALLET

It is the wooden pallet which produces 36 pcs interlocks and 15 pcs (20x40x20) blocks in one press.



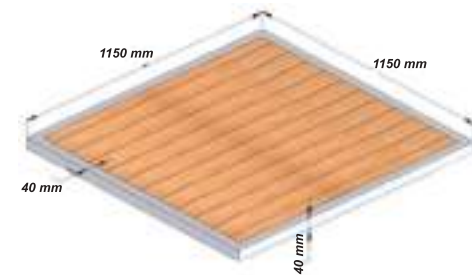
NBM6036 FINGER CAR PALLET

It is the wooden pallet which produces 15 pcs (20x40x20) blocks in one press.



NBM5030 AUTOMATIC MACHINE PALLET

It is the wooden pallet which produces 30 pcs interlocks and 10 pcs (20x40x20) blocks in one press.

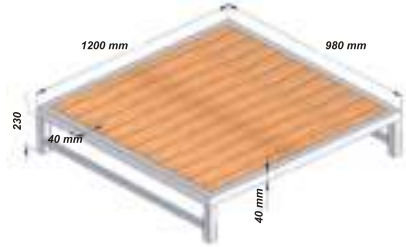


NBM5030 SEMI - AUTOMATIC MACHINE PALLET

It is the wooden pallet which produces 10 pcs (20x40x20) blocks in one press.

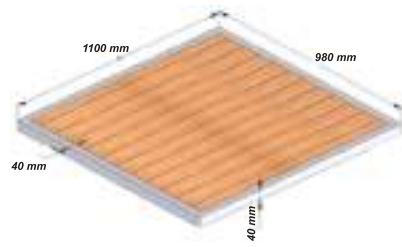


MACHINE PRODUCTION PALLET



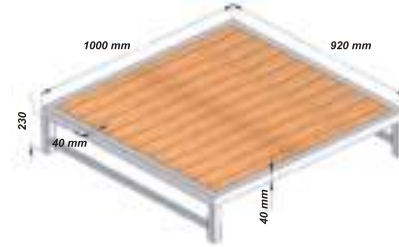
NBM5025 AUTOMATIC MACHINE PALLET

It is the wooden pallet which produces 25 pcs interlocks and 10 pcs (20x40x20) blocks in one press.



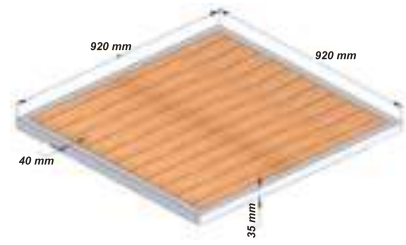
NBM5025 SEMI - AUTOMATIC MACHINE PALLET

It is the wooden pallet which produces 10 pcs (20x40x20) blocks in one press.



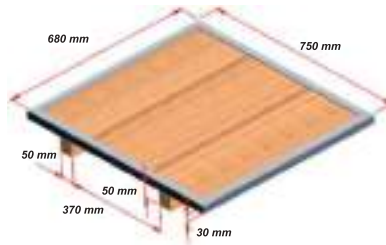
NBM4020 AUTOMATIC MACHINE PALLET

It is the wooden pallet which produces 20 pcs interlocks and 8 pcs (20x40x20) blocks in one press.



NBM4020 SEMI-AUTOMATIC MACHINE PALLET

It is the wooden pallet which produces 8 pcs (20x40x20) blocks in one press.



NBM3012 SEMI-AUTOMATIC MACHINE PALLET

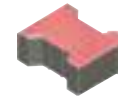
It is the wooden pallet which produces 12 pcs interlocks and 3 pcs (20x40x20) blocks in one press.



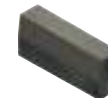
Size Özel Tasarım Fırsatlarıyla Hayallerinizi Gerçekleştirelim
Let's make your dreams come true with special design opportunities



KIND OF STONE THAT OUR MACHINES PRODUCE



INTERLOCK PAVING STONE
OVER ONE PALLET 30 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 800 M² PRODUCTION CAPACITY



ROAD CURBSTONE (BORDÜR) TYPE 1
OVER ONE PALLET 30 PCS
PRESSING TIME FOR ONE PALLET 40 seconds
IN 8 HOURS 2150 PCS PRODUCTION CAPACITY



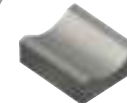
RECTANGULAR BLOCK
OVER ONE PALLET 50 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 960 M² PRODUCTION CAPACITY



CURBSTONE (BORDÜR) TYPE 2
OVER ONE PALLET 10 PCS
PRESSING TIME FOR ONE PALLET 40 seconds
IN 8 HOURS 7200 PCS PRODUCTION CAPACITY



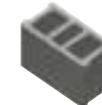
HEXAGONAL PAVING STONES
OVER ONE PALLET 20 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 680 M² PRODUCTION CAPACITY



RAIN GROOVE
OVER ONE PALLET 6 PCS
PRESSING TIME FOR ONE PALLET 35 seconds
IN 8 HOURS 4900 PCS PRODUCTION CAPACITY



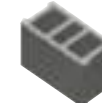
DIAMOND-SHAPED STONES
OVER ONE PALLET 25 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 600 M² PRODUCTION CAPACITY



19 x 39 x 20 cm BLOCK
OVER ONE PALLET 10 PCS
PRESSING TIME FOR ONE PALLET 23 seconds
IN 8 HOURS 12500 PCS PRODUCTION CAPACITY



S PAVING STONES
OVER ONE PALLET 32 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 750 M² PRODUCTION CAPACITY



15 x 39 x 20 cm BLOCK
OVER ONE PALLET 12 PCS
PRESSING TIME FOR ONE PALLET 23 seconds
IN 8 HOURS 15000 PCS PRODUCTION CAPACITY



SINUS PAVING STONES
OVER ONE PALLET 17 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 650 M² PRODUCTION CAPACITY



10 x 39 x 20 cm BLOCK
OVER ONE PALLET 18 PCS
PRESSING TIME FOR ONE PALLET 23 seconds
IN 8 HOURS 22500 PCS PRODUCTION CAPACITY





PICKING ROBOT (CUBER ROBOT)



Paketlenen ürünler robot tarafından toplandıktan sonra zincirli konveyör ile otomatik paketlenme makinesine aktarılır. Plastik kasnak sıkılmadan önce kolonlar ve sıralar belirlenen ürün modeline göre sabitlenir. Plastik çemberler, nakliye sırasında herhangi bir müdahale olmaksızın, otomatik ve dikkatli bir şekilde satın alan kişiye teslim edilir. Plastik yaka kasnağı çalışmadığında plastik kasnak kullanılmaz ve ürünler otomatik olarak gerilmiş naylon ile paketlenir ve nakliye sırasında herhangi bir zarar görmeden belirtilen yerlere taşınır. Paketleme, ürünlerin güvenli bir şekilde taşınmasını sağlar. Ürünlerin ahşap paletlerden alınarak nakliyeye hazır hale getirilmesidir. Toplama robotu paletlerin ileri doğru hareket ettiğini fark ettiğinde, kuru ürünleri ileri ve geri hareket eden çeneler aracılığıyla sıkıştırır. Ahşap paletler üzerine kuru ürünler üst üste konur. Farklı boyutlar uygun şekilde dağıtılmıştır. Paketleme tamamlandıktan sonra konveyör bant, bitmiş ürünü taşıyan taşıma platformlarını sağlar. Ayrıca kaldırma ekipmanı, bitmiş ürünü nakliye kamyonlarına yükler.

After collecting the packaged products by the robot, they are transferred to the automatic binding machine by a chain conveyor. Before tightening the plastic hoop, the columns and rows are fixed based on the product model determined. Plastic hoops are automatically and cautiously delivered to the designated areas without interference during transportation. When the plastic collar hoop is not in operation, the plastic hoop is not used and the products are automatically packaged with stretched nylon and is transported to designated places, avoiding any damage during transportation. Packing ensures that the products are going to be securely and safely transported.

It is the collection of products from wooden pallets to the next product for preparing them for transportation. When the picking robot notes that the pallets are moving forward, it compresses the dry products through mandibles moving forward and backward. On wooden pallets, the dry products are placed on top of each other. The different sizes are properly distributed. Upon completing packaging the conveyor belt provides the transportation platforms transporting the finished product. In addition, the lifting equipment load the finished product to the transportation trucks.



S-60 NBS

Mixer Capacity	1 m ³ (1000 lt) 37 kw single shaft
Aggregate Bunker Capacity	80 m ³ (4 x 20m ³)
Aggregate Weighing Conveyor	800 x 11700 mm 7,5 kw
Mixer Loading Conveyor	800 x 14500 mm 15 kw
Aggregate Waiting Bunker	1.5 m ³
Cement / Water / Contribution Weighing	550 kg / 300 kg / 40 kg
Compressed Air Compressor	1000 lt / min 7,5 kw
Cement Silo/Cement screw	
Automation System / Software	
Control Cabin Size	

S-100 NBS

Mixer Capacity	2 m ³ (2000 lt) 2x37 kw single shaft
Aggregate Bunker Capacity	100 m ³ (4x25 m ³)
Aggregate Weighing Conveyor	1000 x 11700 mm 18,5 kw
Mixer Loading Conveyor	1000 x 22000 mm 22 kw
Aggregate Waiting Bunker	3.5 m ³
Cement / Water / Contribution Weighing	1500 kg / 1000 kg / 40 kg
Compressed Air Compressor	1300 lt / min
Cement Silo/Cement screw	100 t -Ø273 x 7000 mm 11 kw
Automation System / Software	Siemens / Scada
Control Cabin Size	2,35 x 3 x 2,2 m

S-120 NBS

Mixer Capacity	3 m ³ (3000 lt) 2x55 kw twn shaft
Aggregate Bunker Capacity	120 m ³ (4 x 30 m ³)
Aggregate Weighing Conveyor	1000 x 11700 mm 22 kw
Mixer Loading Conveyor	1000 x 26000 mm 30 kw
Aggregate Waiting Bunker	3.5 m ³
Cement / Water / Contribution Weighing	2500 kg / 1500 kg / 40 kg
Compressed Air Compressor	7,5 kw
Cement Silo/Cement screw	
Automation System / Software	
Control Cabin Size	



NBS-60 M

Mixer Capacity
Feeder Aggregate Capacity
Material Weightlifting Belt
Material Conveyer
Aggregate Weighing Bunker
Cement / Water / Weight Ratio
Compressed Air Compressor
Cement Silo/Cement Screw Conveyor
Automation System / Software
Operator's Control Room
Aggregate Feeding System

1 m³ (1000 lt) 37 kw single shaft
40 m³ (4 x 10m³)
2500 kg
800 x 11000 mm 15 kw
550 kg / 400 kg / 40 kg
100 t - Ø273 x 7000 mm 11 kw
2,4 x 1,7 x 2,1 m
Bunker capacity: 6 m³

NBS-100 M

2 m³ (2000 lt) 2x37 kw single shaft
45 m³ (4x11,25 m³)
4300 kg
1000 x 13000 mm 15 kw
950 kg / 550 kg / 40 kg
1000 lt / min 5.5 kw
100 t ---- Ø273 x 7000 mm 11 kw.....2 SET
Siemens / Scada
2,35 x 3 x 2,1 m
Transfer Belt: 800 x 16.500 mm

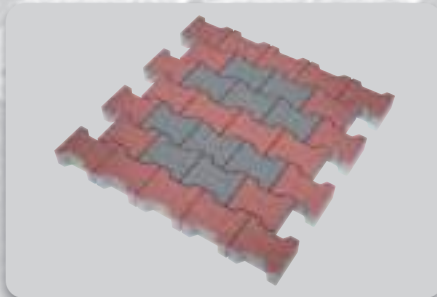
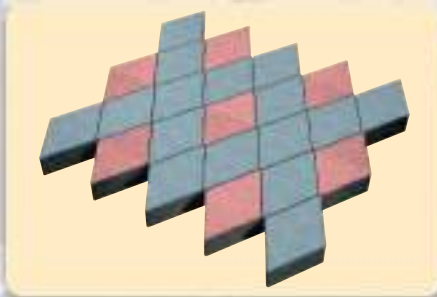
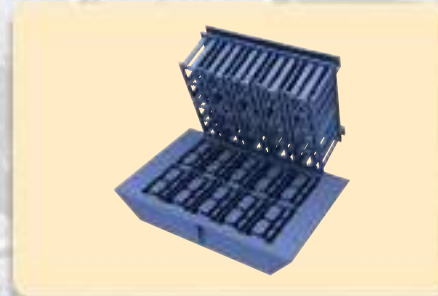
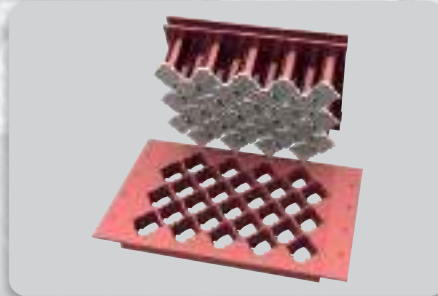
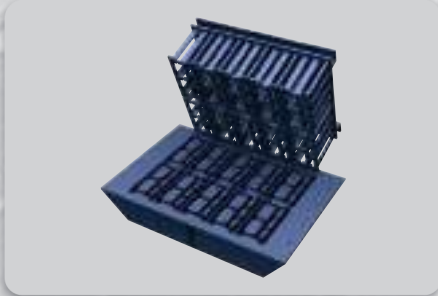
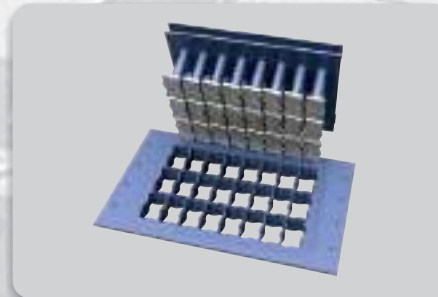
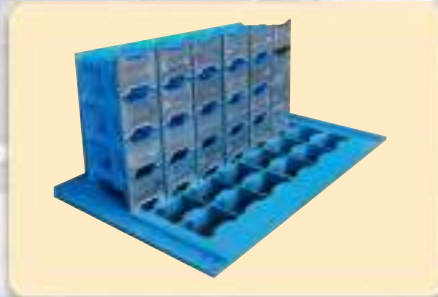
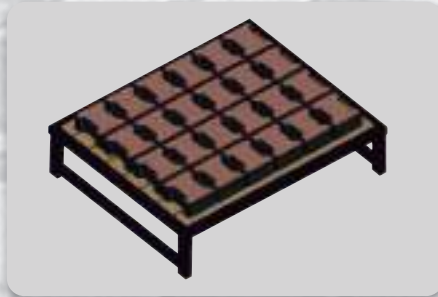
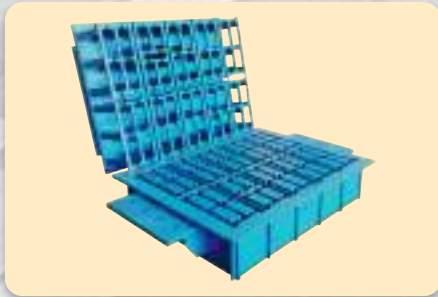
NBS-120 M

3 m³ (3000 lt) 2x55 kw twin shaft
120 m³ (4 x 30 m³)
1000 x 13000 mm 18,5 kw
1000 x 16000 mm 22 kw
2000 kg / 1200 kg / 40 kg



DIFFERENCE MOULDS TYPE

INTERLOCK MOULD: Oxygen cutting and CNC freze --- 650 kg
BLOCK MOULD: Corosion plate laser cutting system --- 750 kg



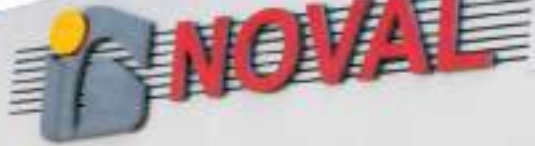


OUR REFERENCES





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