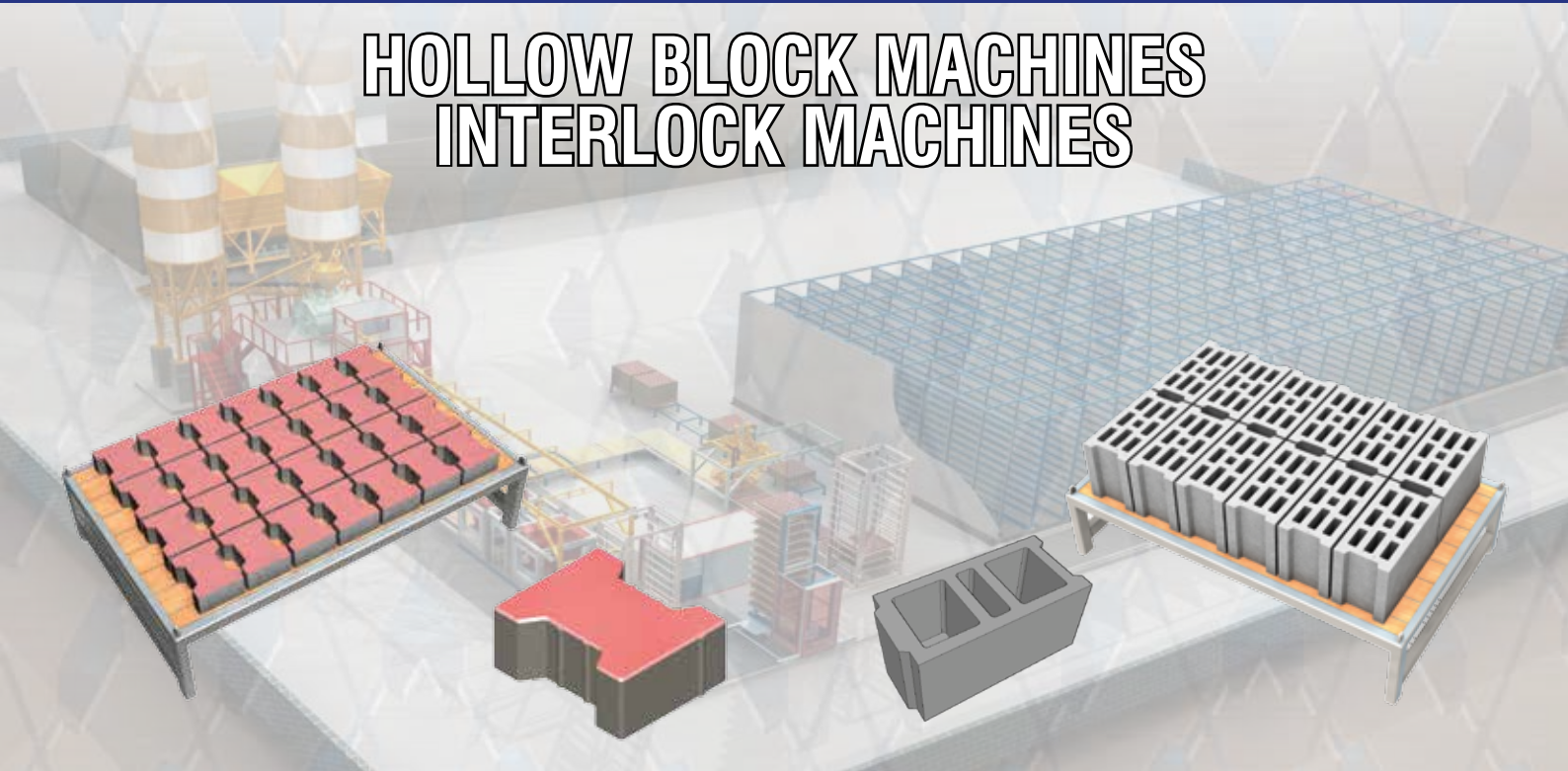




BETONSEN

HOLLOW BLOCK MACHINES
INTERLOCK MACHINES





ABOUT US

Founded in 2009 Betonsen Concrete Paver And Block Making Machines with it's 1 engineer and 20 workers serves Turkish Industry in his own factory with 1200 m2 of manufacture area. Beginning it's activity with manufacturing of construction equipments and facilities BETONSEN gave big quantity of concrete paver and block making machines by signing significant agreements with many institutions of sector. Today BETONSEN who has became to a situation of exporting %70 of his products, now is making distributorship and agency contracts with many suppliers around the world continuously by introducing it's products to everyone.

OUR QUALITY POLICY

BETONSEN designs, produces and delivers the concrete paving and block-making machines and plants in time in such a way to fulfil the requests and expectations of the customer in compliance with the national and international standards. It acts with the principle of continuous improvement, just in time production and zero-defect in order to increase productivity and quality. It achieves all of its objectives with the mentality of production respectful to human health and environment and considering the happiness of its employees.

Our Quality Elements:

Ship's command together with the certificates of conformity
Employee training

BETONSEN VISSION

Betonsen, to meet the need of it's customers, gives importance to R&D activities, owns strong projects and manufacturing subs-

tructure, owns large accumulation of knowledge.

Betonsen's biggest target is customer satisfaction by working customer-focused.

Betonsen by reaching to all around the world, increases of it's foreign market share continuously

Betonsen has the capacity to manufacture 20 concrete paver and block making machines per year and is aiming to increase it's capacity to 50 pieces per year coming 3 years to be known as world-wide company.

BETONSEN MISSION

With the aim of presenting more functional and advantageous concrete paver and block making machines to the customer "Quality Product"

With the aim of full satisfaction the strategy of improving customer-focused.

Special solutions for our customers about concrete paver and block making machines with our expert team.

Besides maintaining our leadership in the domestic market to be most known and preferred company in the world market.

Without compromising quality to develop long lasting based on trust relationships with our customers and suppliers.

GOAL OF BETONSEN

- 2 years mechanical parts warranty.
- Production on time.
- Unlimited technical support.
- 7/24 accesibility.
- Trust.



**ULAŞILABİLİRLİK
SINIRSIZ TEKNİK DESTEK
2 YIL MEKANİK AKSAM GARANTİSİ**



BS 20 Beton Parke ve Briket Makinaları



BS 25 Beton Parke ve Briket Makinaları



BS 30 Beton Parke ve Briket Makinaları



BS 36 Beton Parke ve Briket Makinaları



BS 42 Beton Parke ve Briket Makinaları



TOPLAMA ROBOTLARI



BETON SANTRALLERİ



BETON PARKE VE BİKİKET KALIP MODELLERİ



TAHTA PALETLER (ÜRÜN BASMA PANOLARI)



BETONSEN BS 36



INTERLOCK PAVING STONE
OVER ONE PALLET 36 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 950 M² PRODUCTION CAPACITY



ROAD CURBSTONE (BORDÜR) TYPE 1
OVER ONE PALLET 4 PCS
PRESSING TIME FOR ONE PALLET 40 seconds
IN 8 HOURS 2800 PCS PRODUCTION CAPACITY



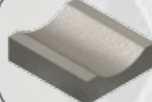
RECTANGULAR BLOCK
OVER ONE PALLET 55 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 1050 M² PRODUCTION CAPACITY



CURBSTONE (BORDÜR) TYPE 2
OVER ONE PALLET 12 PCS
PRESSING TIME FOR ONE PALLET 40 seconds
IN 8 HOURS 8600 PCS PRODUCTION CAPACITY



HEXAGONAL PAVING STONES
OVER ONE PALLET 24 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 800 M² PRODUCTION CAPACITY



RAIN GROOVE
OVER ONE PALLET 8 PCS
PRESSING TIME FOR ONE PALLET 35 seconds
IN 8 HOURS 6500 PCS PRODUCTION CAPACITY



DIAMOND-SHAPED STONES
OVER ONE PALLET 30 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 900 M² PRODUCTION CAPACITY



19 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



S PAVING STONES
OVER ONE PALLET 40 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 950 M² PRODUCTION CAPACITY



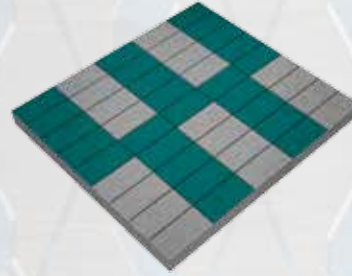
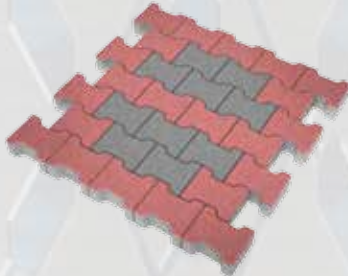
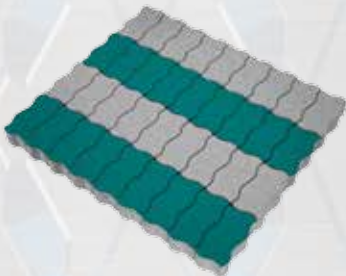
15 x 39 x 20 cm BLOCK
OVER ONE PALLET 16 PCS
PRESSING TIME FOR ONE PALLET 23 seconds
IN 8 HOURS 20000 PCS PRODUCTION CAPACITY



SINUS PAVING STONES
OVER ONE PALLET 21 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 800 M² PRODUCTION CAPACITY



10 x 39 x 20 cm BLOCK
OVER ONE PALLET 22 PCS
PRESSING TIME FOR ONE PALLET 23 seconds
IN 8 HOURS 27500 PCS PRODUCTION CAPACITY



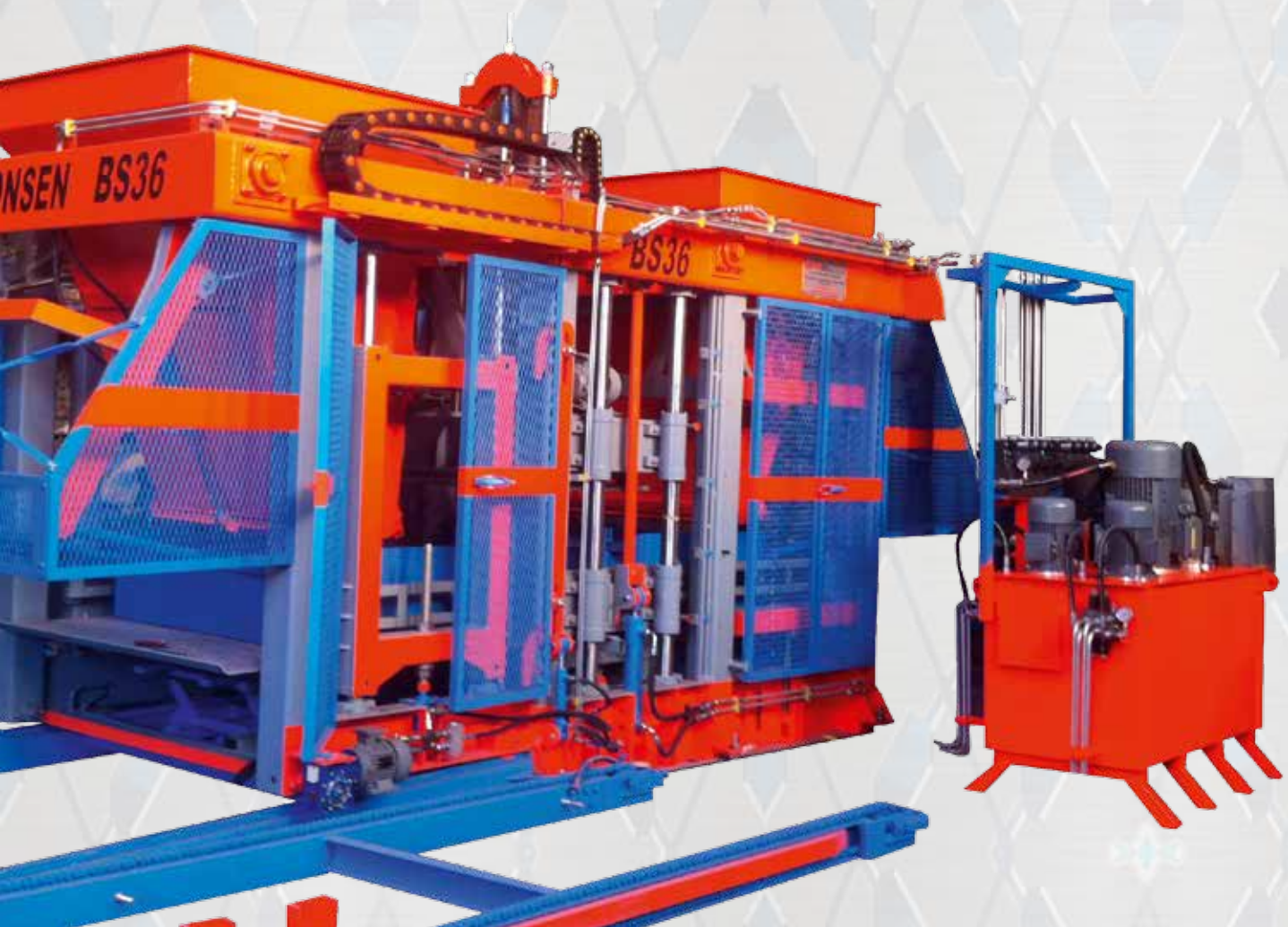
FACILITY



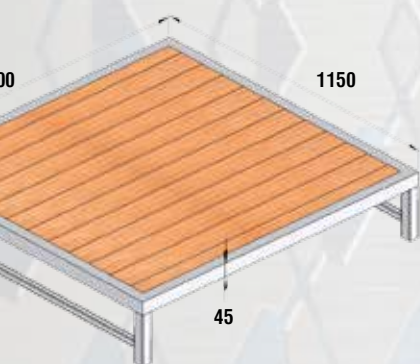
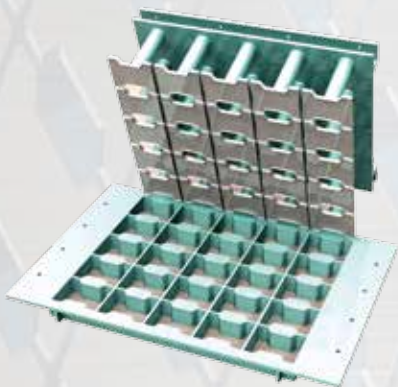
- 1- MACHINE
- 2- STACKING ROBOT
- 3- PICKING ROBOT
- 4- ELECTRIC CONTROL
- 5- MORTAR BAND
- 6- MIXER
- 7- SAND BAND
- 8- AGGREGATE HOPPER AND WEIGHTING BAND
- 9- CEMENT SILO AND EQUIPMENTS



CONCRETE PAVER AND BLOCK MACHINE



TECHNICAL SPECIFICATION



| | | |
|--|--|--|
| 1-MACHINE | Interlock pieces and printing time per pallet : | 36 pcs interlock ----30 sec |
| | Block pieces and printing time per pallet: | 12 pcs block ----23sec |
| | Pump power: | 82 lt / min Efficiency: 0,98 |
| | Hydraulic cooler capacity : | 90 lt/min , 0,18 kw |
| | Hydraulic system brand and oil capacity: | Tellus 46, 250 lt |
| | Machine working hydraulic pressure: | 120 bar |
| | Vibration compress strength: | 22 000 kgf |
| | Machine size and weight: | 2,2 x 7 x 2,5 m 13000 kg |
| | INTERLOCK MOULD | Oxygen cutting and CNC freze---- |
| BLOCK MOULD | corosion plate laser cutting system---- | 750 kg |
| 2-STACKING ROBOT | Pump power: | 39 lt / min x 2 pcs |
| | Robot size and weight: | 1,95 x 3 x 1,8 m 2100 kg |
| 3-PICKING ROBOT | Pump power: | 42 lt / dak verim: 0,98 |
| | Hydraulic cooler capacity: | 60 lt/min , 0,19 kw |
| | Hydraulic system brand: | Tellus 46 |
| | Machine working hydraulic pressure: | 120 bar |
| 4- ELECTRIC CONTROL | Size: | 5 x 2,5 x 2,5 m---3500 kg |
| | PLC and Moduls and screen: | Schneider (France) ,7 inch touch screen |
| 5-MORTAR BAND | Termique and condactor brand: | Schneider (France) , Weid Moeller (Germany) |
| | Size: | 8 m length, 70 cm width, 1000 kg |
| 6-MIXER | Mixer capacity: | 1000 dm3 |
| | Mixing produvt weight and mix time: | 1500 kg sand + 250 kg cement + 100 kg water,Average 2,5 minute |
| | Corosion conservation sheet iron: | Thickness: 15 mm, Model: st52 steel |
| | Mixer motor power and moment: | 18,5 kw, 40 rpm x 2 pcs 11500 Nm |
| 7-SAND BAND | Size: | 10 m length, 60 cm width, 1000 kg weight |
| | Hopper capacity and weight: | 15 m3 x 4 pcs---6200 kg |
| 8-AGGREGATE HOPPER AND WEIGHTING BAND | Valve type and power: | Vibration system ,0,5 kw x 4 pcs |
| | Band length: 13 m Bant width: 70 cm Weight: 1600 kg | |
| | Load tank weight equipments: | 4 pcs x 1t capacity |
| | Silo capacity and weight: | 45 t---5500 kg |
| 9-CEMENT SILO AND EQUIPMENTS | Silo size: | Diameter for container 2250 x 11500 mm , |
| | Safety valve and 24 m2 open area filter (airjetplus) | |
| | Cement weight capacity : | 300 kg |
| | Loadcell brand: | ESIT 1 pcs 500 kg loadcell |

PICKING ROBOT



The picking robots are designed in two ways.

- 1-The type which is connected to the main block making machine which has a less cost for the investor at the beginning,
- 2-The type which is free from the main block machine; this one needs one more from the same front and back stacking system robots. For this reason the cost becomes higher for the investor. But by this way the dried products can be packed continuesly as also the main machine can produce fresh products without stop. And both do not get effected from each other.

Transport paletfeuro palet);

This is put under the ready products which the transport is required to be made with euro pallets. Euro pallets are feeded under the ready products by hand or by an automatic feeder.



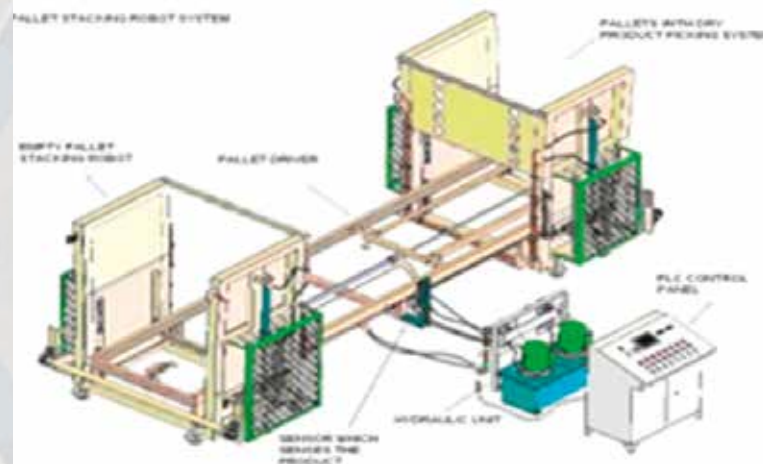
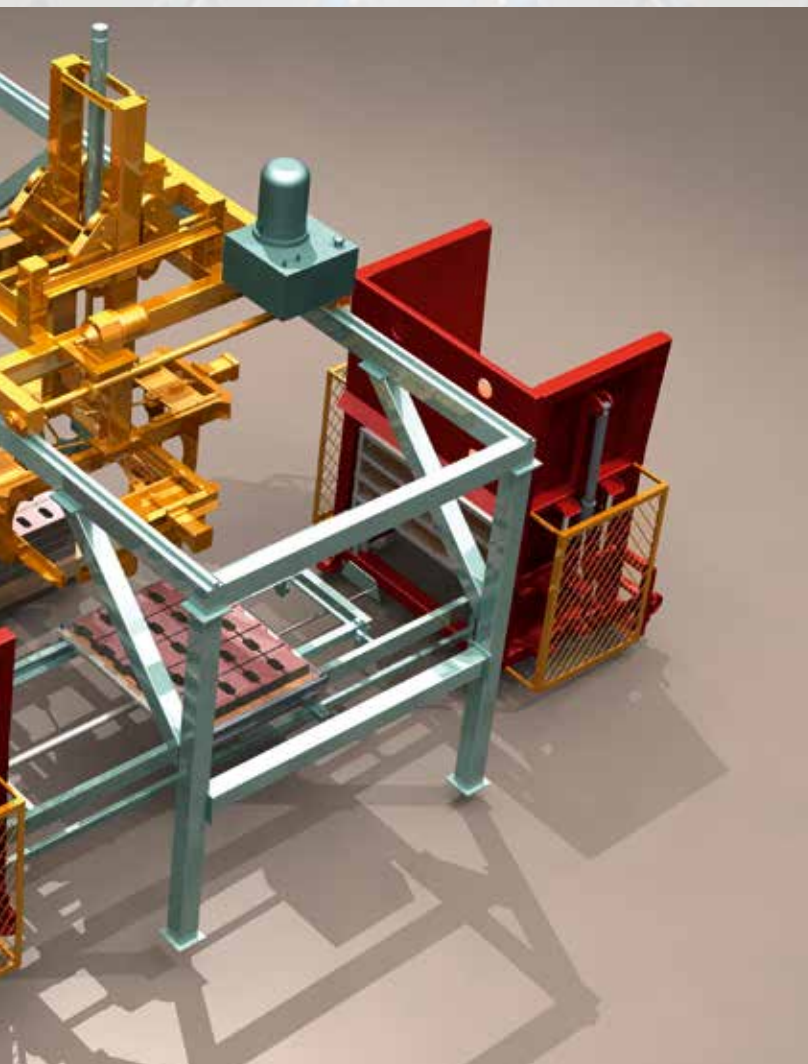
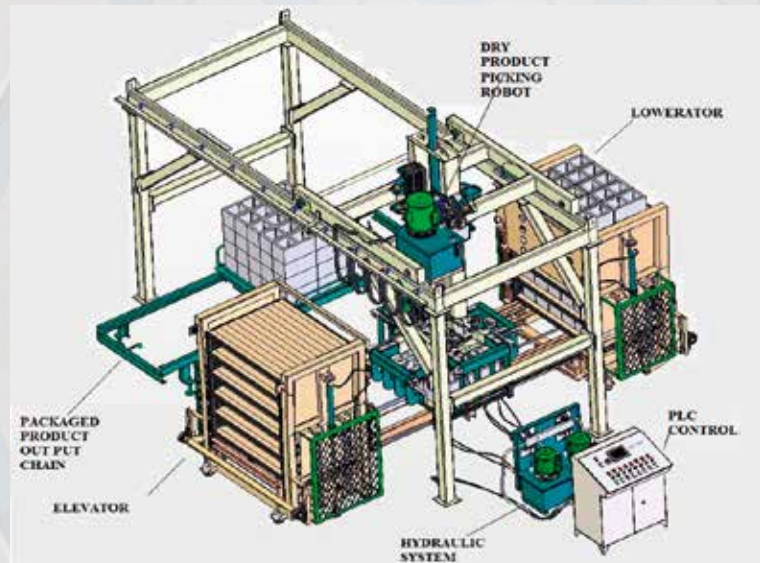
CONCRETE PAVER AND BLOCK MACHINE

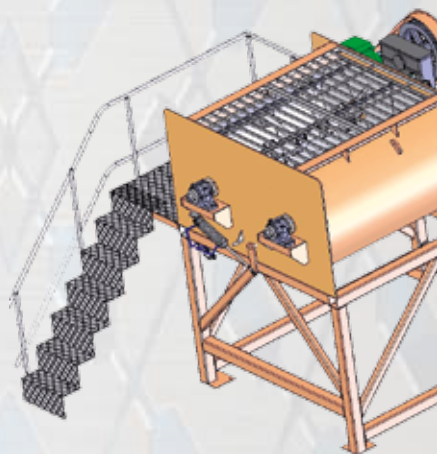
Machine-Dependent Dry Product Picking Robot Technical Specifications

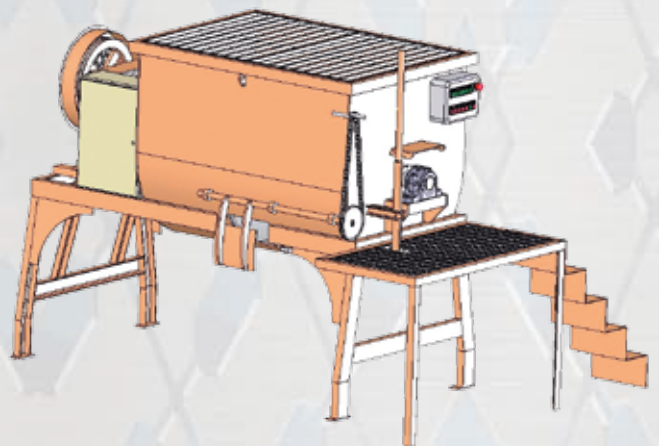
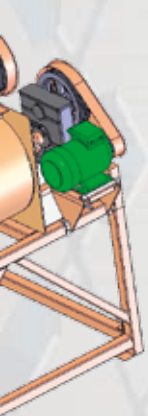
- Pump power :** 5,5 kw 45 lt/mm **Chasis :** 130 x 200 x 5 profile
- Walking motor power:** 1.5 kw 150 rpm Frequency inverter with brake
- Return motor power:** 2.75 kw 20 rpm with break
- Packed product out chain motor power:** 1.5 kw 23 rpm
- EURO palet driver motor power:** 3 kw 17 ltfmin

Machine-Independent Dry Product Picking Robot Technical Specifications

- Pump power:** 5,5 kw 45 lt/min **Chasis:** 100 x 200 x 5 profile
- Walking motor power:** 1,5 kw 150 rpm Frequency inverter with brake
- Return motor power :** 0.75 kw 20 rpm with break
- Packed product out chain motor power:** 1,5 kw 23 rpm
- Wooden palet discharge pump power:** 3 kw 17 lt /min Fresh product stacking







BETONSEN BS 30



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 3 PCS
PRESSING TIME FOR ONE PALLET 40 seconds
IN 8 HOURS 2150 PCS PRODUCTION CAPACITY



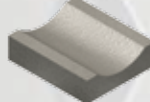
RECTANGULAR BLOCK
OVER ONE PALLET 50 PCS INTERLOCK
PRESSING TIME FOR ONE PALLET 30 seconds
IN 8 HOURS 960 M² PRODUCTION CAPACITY



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



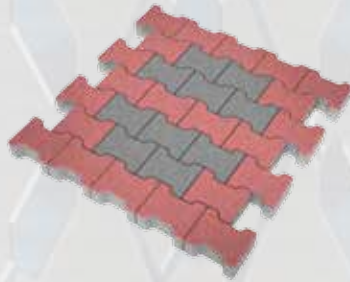
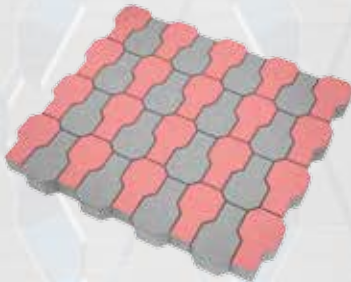
15 x 39 x 20 cm BLOCK
OVER ONE PALLET 12 PCS
PRESSING TIME FOR ONE PALLET 23 seconds
IN 8 HOURS 15000 PCS PRODUCTION CAPACITY



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



FACILITY



- 1- MACHINE
- 2- STACKING ROBOT
- 3- ELECTRIC CONTROL
- 4- MORTAR BAND
- 5- MIXER
- 6- SAND BAND
- 7- AGGREGATE HOPPER AND WEIGHTING BAND
- 8- CEMENT SILO AND EQUIPMENTS

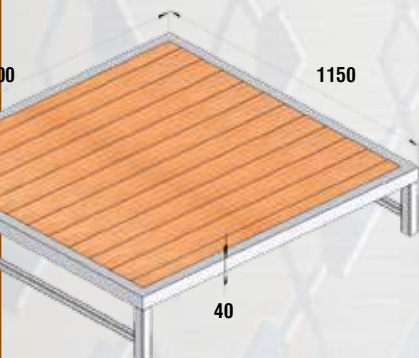
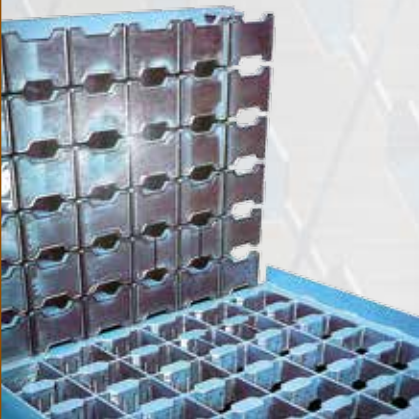
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40



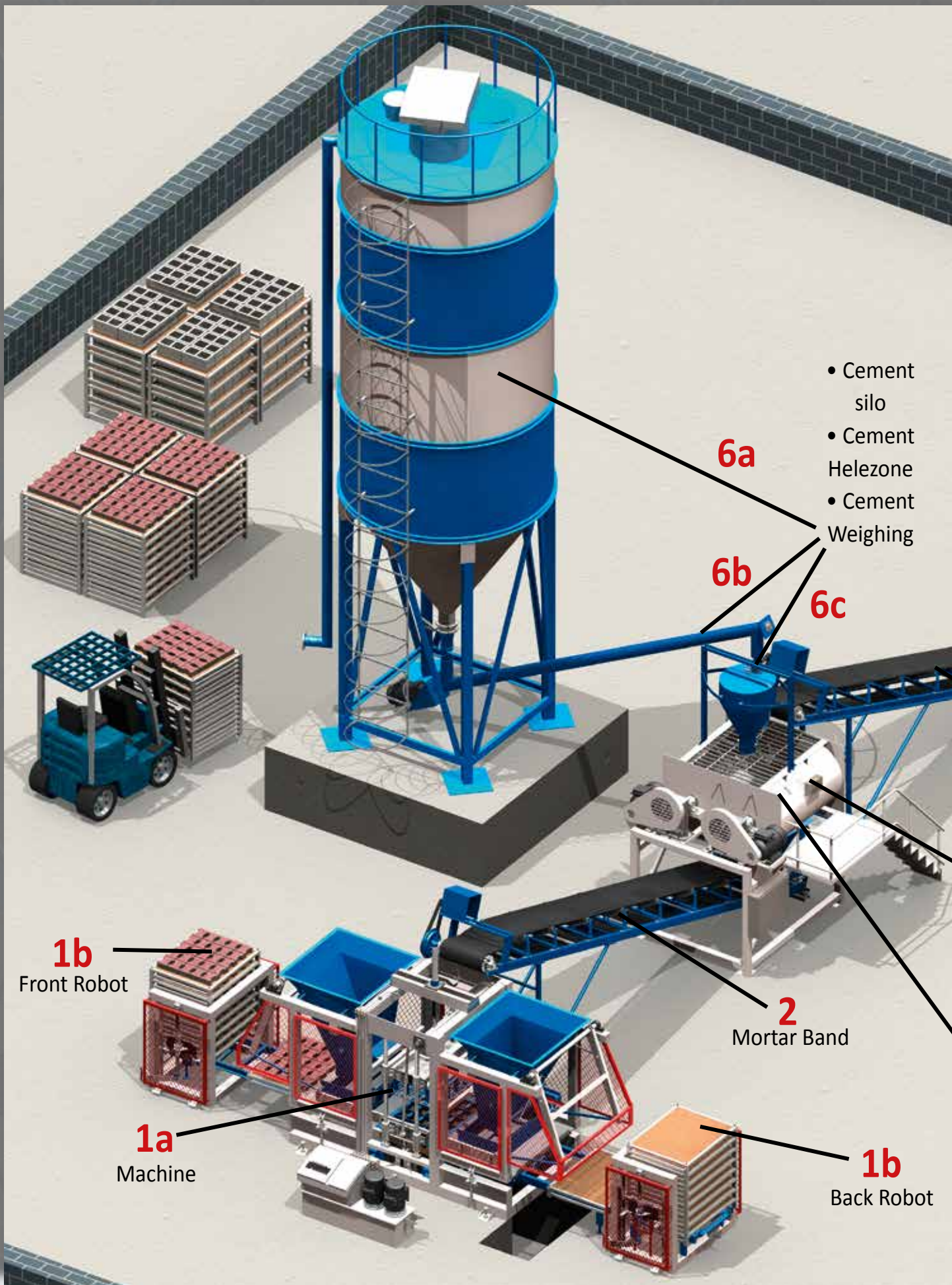
CONCRETE PAVER AND BLOCK MACHINE



TECHNICAL SPECIFICATION



| | | |
|--|--|---|
| 1-MACHINE | Interlock pieces and printing time per pallet : | 30 pcs interlock ----30 sec |
| | Block pieces and printing time per pallet: | 10 pcs block ----23sec |
| | Pump power: | 60 lt / min Efficiency: 0,98 |
| | Hydraulic cooler capacity : | 90 lt/min , 0,18 kw |
| | Hydraulic system brand and oil capacity: | Tellus 46, 250 lt |
| | Machine working hydraulic pressure: | 120 bar |
| | Vibration compress strength: | 15 000 kgf |
| | Machine size and weight: | 2,2 x 7 x 2,5 m 9000 kg |
| INTERLOCK MOULD BLOCK MOULD | Oxygen cutting and CNC freze---650 kg corosion plate laser cutting system--500 kg | |
| 2-STACKING ROBOT | Pump power: | 21 lt / min x 2 pcs |
| | Robot size and weight: | 1,45 x 3 x 1,5 m 1500 kg |
| 3- ELECTRIC CONTROL | PLC and Modul and screen: | Schneider (France) ,7 inch touch screen |
| | Termique and condactor brand: | Schneider (France), Weid Moeller (Germany) |
| 4-MORTAR BAND | Size: | 8 m length, 70 cm width, 1000 kg |
| 5-MIXER | Mixer capacity: | 750 dm ³ |
| | Mixing produvt weight and mix time: | 1200 kg sand + 190 kg cement + 75 kg water,Average 2,5 minute |
| 6-SAND BAND | Corosion conservation sheet iron: | Thickness: 15 mm, Model: st52 steel |
| | Mixer motor power and moment: | 18,5 kw, 40 rpm x 2 pcs 11500 Nm |
| 7-AGGREGATE HOPPER AND WEIGHTING BAND | Size: | 10 m length, 60 cm width, 1000 kg weight |
| | Hopper capacity and weight: | 12 m ³ x 3 pcs----4500 kg |
| 8-CEMENT SILO AND EQUIPMENTS | Valve type and power: | Vibration system, 0,5 kw x 3 pcs |
| | Band length: 10 m Bant width: 70 cm Weight: | 1400 kg |
| | Load tank weight equipments: | 4 pcs x 1t capacity |
| | Silo capacity and weight: | 45 t---5500 kg |
| | Silo size: | Diameter for container 2250 x 11500 mm , |
| | Safety valve and 24 m ² open area filter (airjetplus) | |
| Cement weight capacity : | 300 kg | |
| Loadcell brand: | ESIT 1 pcs 500 kg loadcell | |



- Cement silo
- Cement Helezone
- Cement Weighing

6a

6b

6c

1b

Front Robot

2

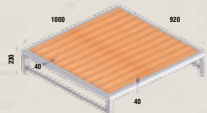
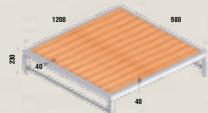
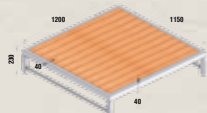
Mortar Band

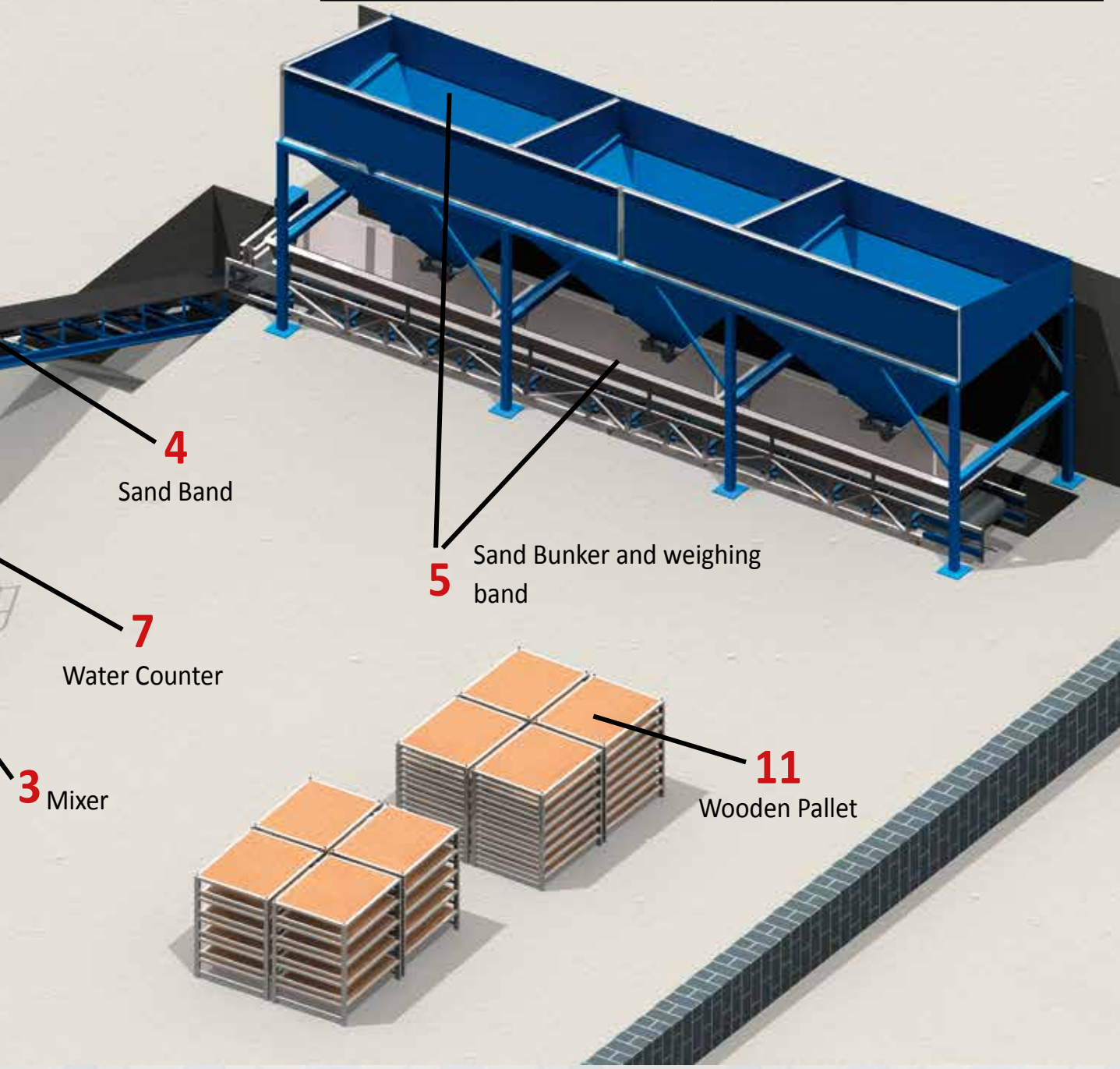
1a

Machine

1b

Back Robot

| AUTOMATIC SYSTEM | | | |
|-------------------------------------|---|--|---|
| | BS20 | BS25 | BS30 |
| 1 HOURLY PRODUCTION INTERLOCK | 62 M ² | 83 M ² | 100 M ² |
| 1 HOURLY PRODUCTION BLOCK 19*39*20 | 1250 pieces | 1560 pieces | 1560 pieces |
| TOTAL ELECTRIC POWER | 75 Kwh | 85 Kwh | 105 Kwh |
| VIBRATOR STRENGTH | 11000 Kgf | 13000 Kgf | 15000 Kgf |
| HYDRAULIC PRESSURE | 120 bar(kgf/cm ²) | 130 bar (kgf/cm ²) | 140 bar (kgf/cm ²) |
| TOTAL AREA | 3600 m ² | 4000 m ² | 4500 m ² |
| STAFF WORK | 3 operator | 3 operator | 3 operator |
| SHIP SHAPE AND PIECES | 3 pieces 40 HQ container | 4 pieces 40 HQ container | 4 pieces 40 HQ container |
| WOODEN PALLET DIMENSIONS |  |  |  |
| WOODEN PALLET SHIP SHAPE AND PIECES | 3 pieces 20 DC container | 2 pieces 40 HQ container | 2 pieces 40 HQ VE 1 pieces 20 DC container |



4

Sand Band

5

Sand Bunker and weighing band

7

Water Counter

3

Mixer

11

Wooden Pallet

BETONSEN BS 25



INTERLOCK PAVING STONE
 OVER ONE PALLET 25 PCS INTERLOCK
 PRESSING TIME FOR ONE PALLET 30 seconds
 IN 8 HOURS 665 M² PRODUCTION CAPACITY



ROAD CURBSTONE (BORDÜR) TYPE 1
 OVER ONE PALLET 3 PCS
 PRESSING TIME FOR ONE PALLET 40 seconds
 IN 8 HOURS 2160 PCS PRODUCTION CAPACITY



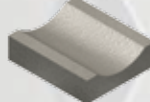
RECTANGULAR BLOCK
 OVER ONE PALLET 40 PCS INTERLOCK
 PRESSING TIME FOR ONE PALLET 30 seconds
 IN 8 HOURS 760 M² PRODUCTION CAPACITY



CURBSTONE (BORDÜR) TYPE 2
 OVER ONE PALLET 5 PCS
 PRESSING TIME FOR ONE PALLET 40 seconds
 IN 8 HOURS 3600 PCS PRODUCTION CAPACITY



HEXAGONAL PAVING STONES
 OVER ONE PALLET 15 PCS INTERLOCK
 PRESSING TIME FOR ONE PALLET 30 seconds
 IN 8 HOURS 500 M² PRODUCTION CAPACITY



RAIN GROOVE
 OVER ONE PALLET 6 PCS
 PRESSING TIME FOR ONE PALLET 35 seconds
 IN 8 HOURS 4500 PCS PRODUCTION CAPACITY



DIAMOND-SHAPED STONES
 OVER ONE PALLET 20 PCS INTERLOCK
 PRESSING TIME FOR ONE PALLET 30 seconds
 IN 8 HOURS 500 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 760 M² PRODUCTION CAPACITY



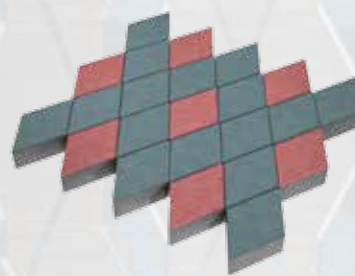
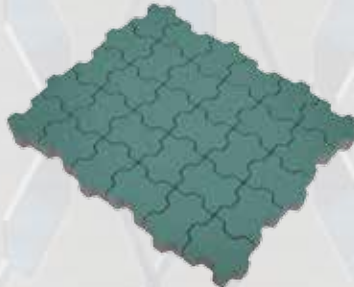
15 x 39 x 20 cm BLOCK
 OVER ONE PALLET 12 PCS
 PRESSING TIME FOR ONE PALLET 23 seconds
 IN 8 HOURS 15000 PCS PRODUCTION CAPACITY



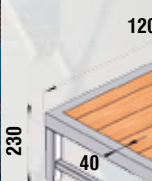
SINUS PAVING STONES
 OVER ONE PALLET 15 PCS INTERLOCK
 PRESSING TIME FOR ONE PALLET 30 seconds
 IN 8 HOURS 570 M² PRODUCTION CAPACITY



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



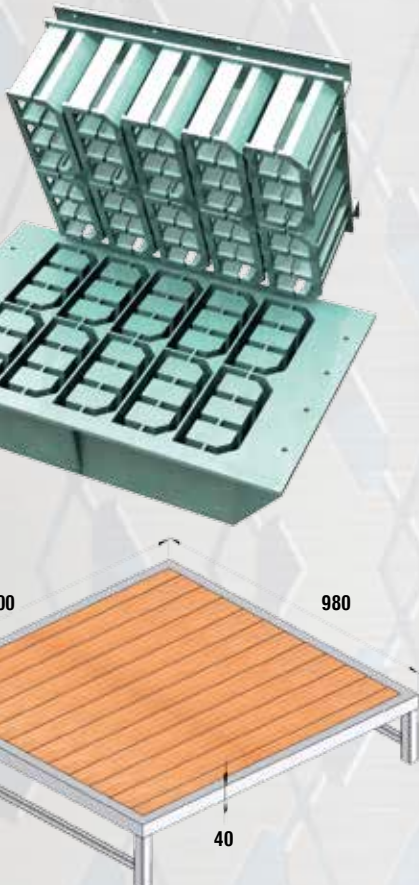
FACILITY



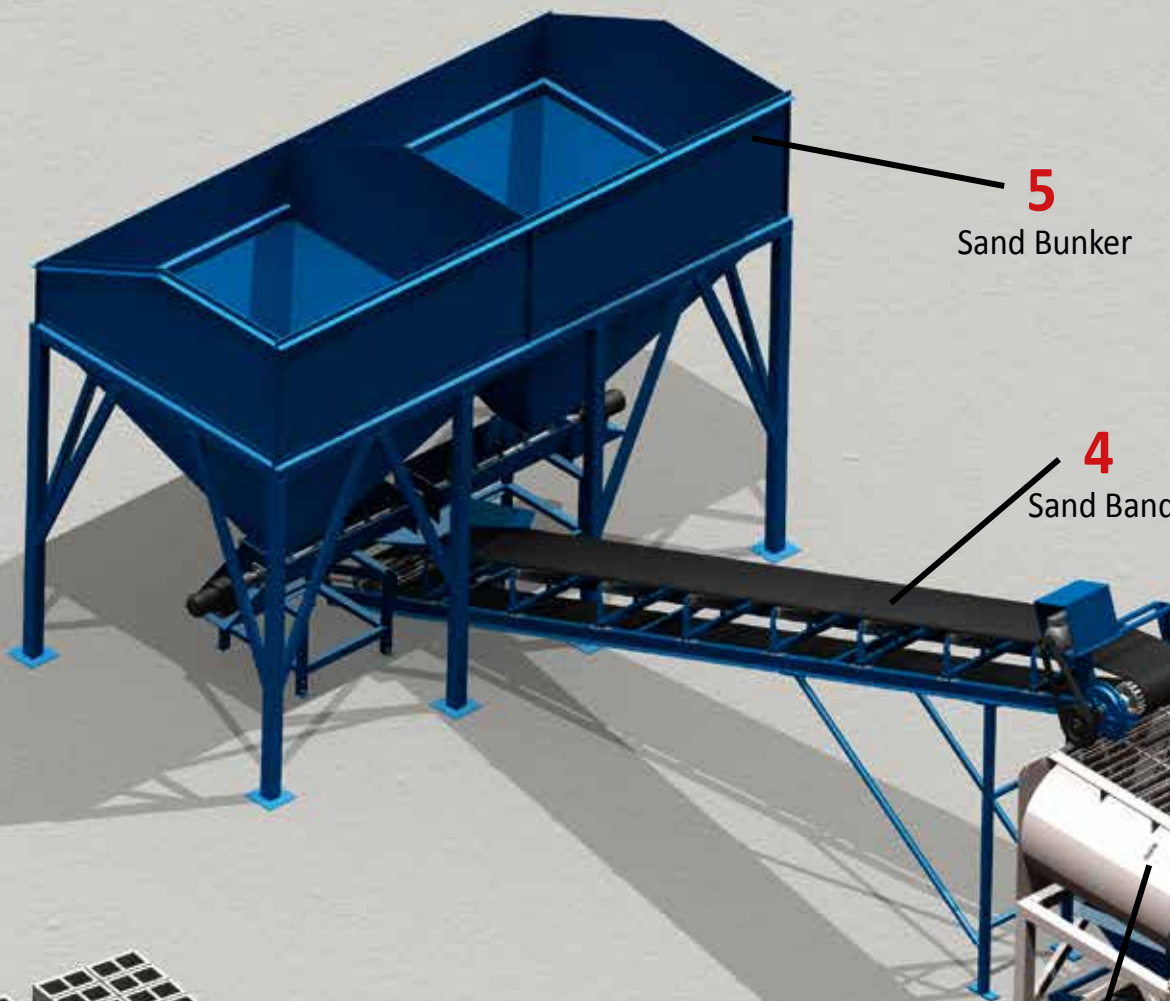
CONCRETE PAVER AND BLOCK MACHINE



TECHNICAL SPECIFICATION



| | | |
|--|---|--|
| 1-MACHINE | Interlock pieces and printing time per pallet : | 25 pcs interlock ----30 sec |
| | Block pieces and printing time per pallet: | 10 pcs block ----23sec |
| | Pump power: | 48 lt / min Efficiency: 0,98 |
| | Hydraulic cooler capacity : | 90 lt/min , 0,18 kw |
| | Hydraulic system brand and oil capacity: | Tellus 46, 180 lt |
| | Machine working hydraulic pressure: | 120 bar |
| | Vibration compress strength: | 13 000 kgf |
| | Machine size and weight: | 2,2 x 7 x 2,5 m 9000 kg |
| INTERLOCK MOULD BLOCK MOULD | Oxygen cutting and CNC freze---650 kg corosion plate laser cutting system---500 kg | |
| 2-STACKING ROBOT | Pump power: | 21 lt / min x 2 pcs |
| | Robot size and weight: | 1,45 x 3 x 1,5 m 1500 kg |
| 3- ELECTRIC CONTROL | PLC and Modul and screen: | Schneider (France) ,7 inch touch screen |
| | Termique and condactor brand: | Schneider (France), Weid Moeller (Germany) |
| 4-MORTAR BAND | Size: | 8 m length, 70 cm width, 1000 kg |
| 5-MIXER | Mixer capacity: | 500 dm ³ |
| | Mixing produvt weight and mix time: | 800 kg sand + 130 kg cement + 55 kg water,Average 2,5 minute |
| | Corosion conservation sheet iron: | Thickness: 15 mm, Model: st52 steel |
| 6-SAND BAND | Mixer motor power and moment: | 15 kw, 40 rpm x 2 pcs 9500 Nm |
| | Size: | 10 m length, 60 cm width, 1000 kg weight |
| 7-AGGREGATE HOPPER AND WEIGHTING BAND | Hopper capacity and weight: | 10 m ³ x 3 pcs----4500 kg |
| | Valve type and power: | Vibration system, 0,5 kw x 3 pcs |
| | Band length: 10 m Bant width: 70 cm Weight: | 1400 kg |
| 8-CEMENT SILO AND EQUIPMENTS | Load tank weight equipments: | 4 pcs x 1t capacity |
| | Silo capacity and weight: | 45 t---5500 kg |
| | Silo size: | Diameter for container 2250 x 11500 mm |
| | Safety valve and 24 m ² open area filter (airjetplus) | |
| | Cement weight capacity : | 300 kg |
| | Loadcell brand: | ESIT 1 pcs 500 kg loadcell |

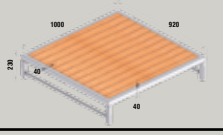
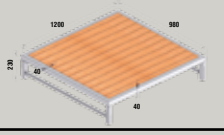
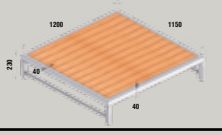


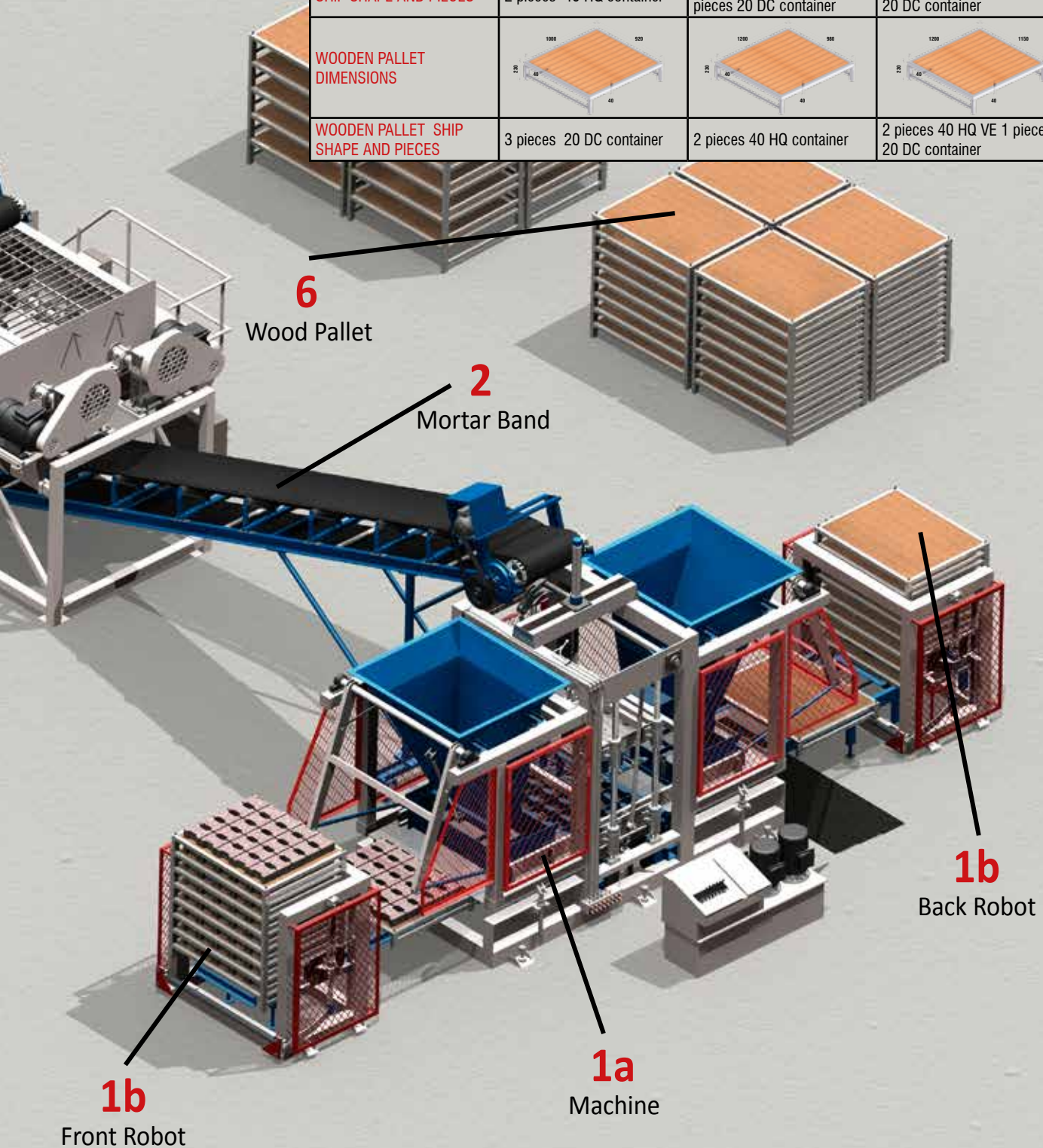
5
Sand Bunker

4
Sand Band



3
Mixer

| AUTOMATIC SYSTEM | | | |
|-------------------------------------|---|--|---|
| | BS20 | BS25 | BS30 |
| 1 HOURLY PRODUCTION INTERLOCK | 62 M ² | 83 M ² | 100 M ² |
| 1 HOURLY PRODUCTION BLOCK 19*39*20 | 1250 pieces | 1560 pieces | 1560 pieces |
| TOTAL ELECTRIC POWER | 60 Kwh | 75 Kwh | 80 Kwh |
| VIBRATOR STRENGTH | 11000 Kgf | 13000 Kgf | 15000 Kgf |
| HYDRAULIC PRESSURE | 120 bar(kgf/cm ²) | 130 bar (kgf/cm ²) | 140 bar (kgf/cm ²) |
| TOTAL AREA | 3400 m ² | 3550 m ² | 3550 m ² |
| STAFF WORK | 6 operator | 6 operator | 6 operator |
| SHIP SHAPE AND PIECES | 2 pieces 40 HQ container | 2 pieces 40 HQ and 1 pieces 20 DC container | 2 pieces 40 HQ and 1 pieces 20 DC container |
| WOODEN PALLET DIMENSIONS |  |  |  |
| WOODEN PALLET SHIP SHAPE AND PIECES | 3 pieces 20 DC container | 2 pieces 40 HQ container | 2 pieces 40 HQ VE 1 pieces 20 DC container |



BETONSEN BS 20



INTERLOCK PAVING STONE
 OVER ONE PALLET 20 PCS INTERLOCK
 PRESSING TIME FOR ONE PALLET 30 seconds
 IN 8 HOURS 500 M² PRODUCTION CAPACITY



ROAD CURBSTONE (BORDÜR) TYPE 1
 OVER ONE PALLET 2 PCS
 PRESSING TIME FOR ONE PALLET 40 seconds
 IN 8 HOURS 1400 PCS PRODUCTION CAPACITY



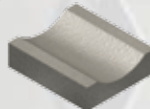
RECTANGULAR BLOCK
 OVER ONE PALLET 32 PCS INTERLOCK
 PRESSING TIME FOR ONE PALLET 30 seconds
 IN 8 HOURS 600 M² PRODUCTION CAPACITY



CURBSTONE (BORDÜR) TYPE 2
 OVER ONE PALLET 4 PCS
 PRESSING TIME FOR ONE PALLET 40 seconds
 IN 8 HOURS 2800 PCS PRODUCTION CAPACITY



HEXAGONAL PAVING STONES
 OVER ONE PALLET 12 PCS INTERLOCK
 PRESSING TIME FOR ONE PALLET 30 seconds
 IN 8 HOURS 400 M² PRODUCTION CAPACITY



RAIN GROOVE
 OVER ONE PALLET 3 PCS
 PRESSING TIME FOR ONE PALLET 35 seconds
 IN 8 HOURS 2450 PCS PRODUCTION CAPACITY



DIAMOND-SHAPED STONES
 OVER ONE PALLET 14 PCS INTERLOCK
 PRESSING TIME FOR ONE PALLET 30 seconds
 IN 8 HOURS 400 M² PRODUCTION CAPACITY



19 x 39 x 20 cm BLOCK
 OVER ONE PALLET 8 PCS
 PRESSING TIME FOR ONE PALLET 23 seconds
 IN 8 HOURS 10000 PCS PRODUCTION CAPACITY



S PAVING STONES
 OVER ONE PALLET 24 PCS INTERLOCK
 PRESSING TIME FOR ONE PALLET 30 seconds
 IN 8 HOURS 550 M² PRODUCTION CAPACITY



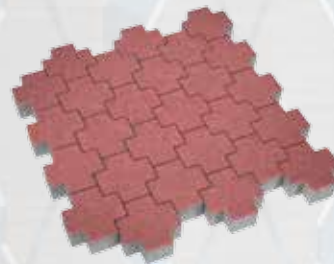
15 x 39 x 20 cm BLOCK
 OVER ONE PALLET 10 PCS
 PRESSING TIME FOR ONE PALLET 23 seconds
 IN 8 HOURS 12500 PCS PRODUCTION CAPACITY



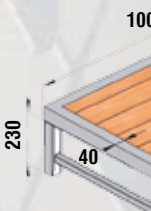
SINUS PAVING STONES
 OVER ONE PALLET 10 PCS INTERLOCK
 PRESSING TIME FOR ONE PALLET 30 seconds
 IN 8 HOURS 400 M² PRODUCTION CAPACITY



10 x 39 x 20 cm BLOCK
 OVER ONE PALLET 14 PCS
 PRESSING TIME FOR ONE PALLET 23 seconds
 IN 8 HOURS 17500 PCS PRODUCTION CAPACITY



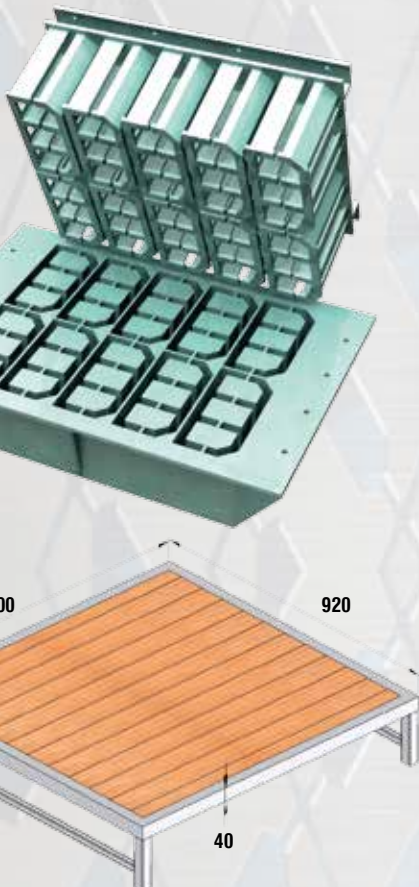
FACILITY



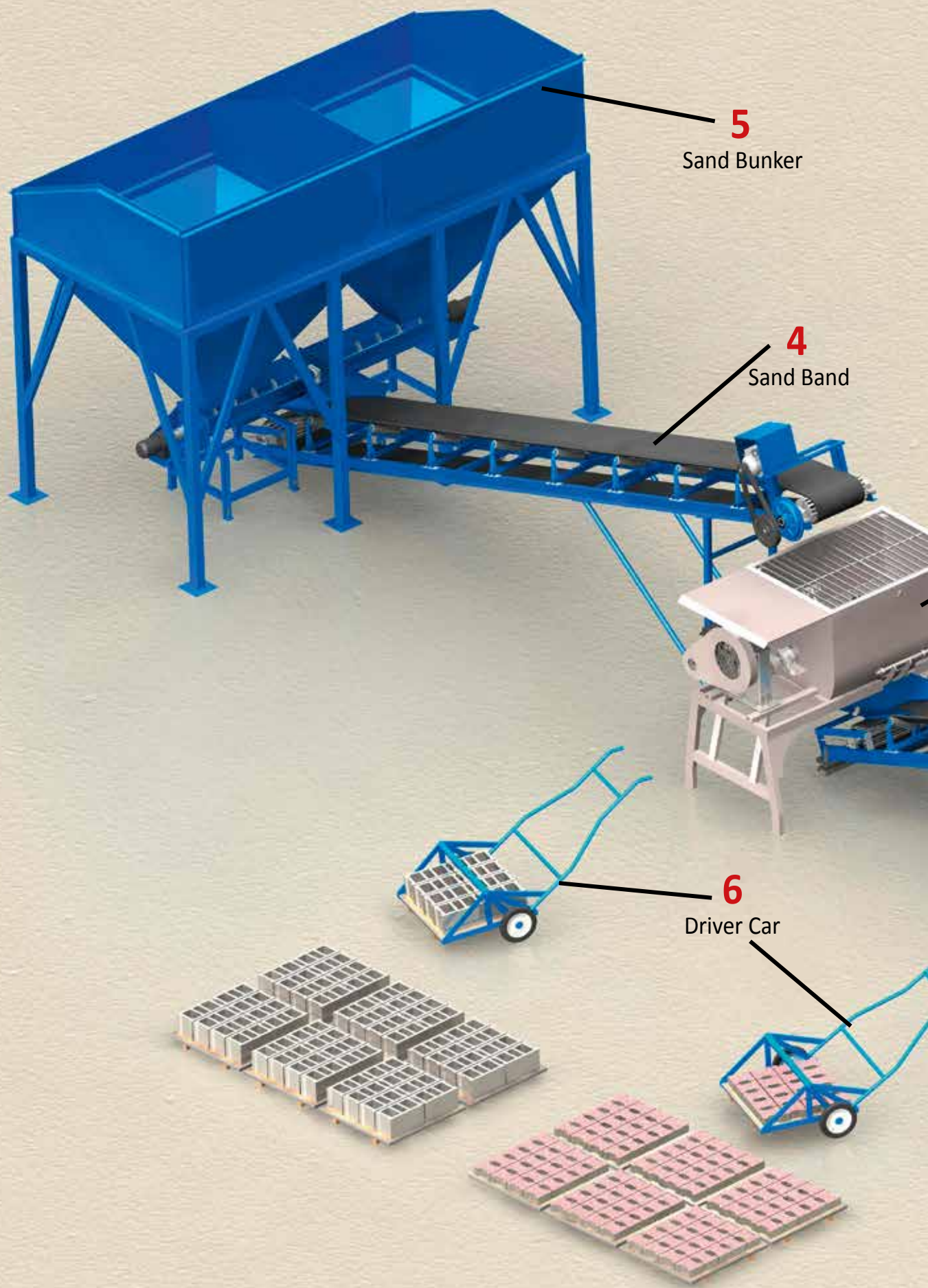
CONCRETE PAVER AND BLOCK MACHINE



TECHNICAL SPECIFICATION



| | | |
|--|---|---|
| 1-MACHINE | Interlock pieces and printing time per pallet : | 20 pcs interlock ----30 sec |
| | Block pieces and printing time per pallet: | 8 pcs block ----23sec |
| | Pump power: | 48 lt / min Efficiency: 0,98 |
| | Hydraulic cooler capacity : | 90 lt/min , 0,18 kw |
| | Hydraulic system brand and oil capacity: | Tellus 46, 180 lt |
| | Machine working hydraulic pressure: | 120 bar |
| | Vibration compress strength: | 11 000 kgf |
| | Machine size and weight: | 2,2 x 5,5 x 2,5 m 7500 kg |
| INTERLOCK MOULD BLOCK MOULD | Oxygen cutting and CNC freze---650 kg corosion plate laser cutting system---500 kg | |
| 2-STACKING ROBOT | Pump power: | 21 lt / min x 2 pcs |
| | Robot size and weight: | 1,45 x 3 x 1,5 m 1500 kg |
| 3- ELECTRIC CONTROL | PLC and Moduls and screen: | Schneider (France) ,7 inch touch screen |
| | Termique and condactor brand: | Schneider (France), Weid Moeller (Germany) |
| 4-MORTAR BAND | Size: | 8 m length, 70 cm width, 1000 kg |
| 5-MIXER | Mixer capacity: | 250 dm ³ |
| | Mixing product weight and mix time: | 400 kg sand + 65 kg cement + 30 kg water,Average 2,5 minute |
| | Corosion conservation sheet iron: | Thickness: 15 mm, Model: st52 steel |
| 6-SAND BAND | Mixer motor power and moment: | 15 kw, 40 rpm 4500 Nm |
| | Size: | 10 m length, 60 cm width, 1000 kg weight |
| 7-AGGREGATE HOPPER AND WEIGHTING BAND | Hopper capacity and weight: | 8 m ³ x 3 pcs----4500 kg |
| | Valve type and power: | Vibration system, 0,5 kw x 3 pcs |
| | Band length: 10 m Bant width: 70 cm Weight: | 1400 kg |
| 8-CEMENT SILO AND EQUIPMENTS | Load tank weight equipments: | 4 pcs x 1t capacity |
| | Silo capacity and weight: | 45 t---5500 kg |
| | Silo size: | Diameter for container 2250 x 11500 mm |
| | Safety valve and 24 m ² open area filter (airjetplus) | |
| | Cement weight capacity : | 300 kg |
| Loadcell brand: | ESIT 1 pcs 500 kg loadcell | |



5

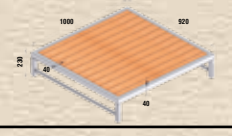
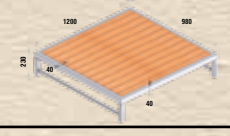
Sand Bunker

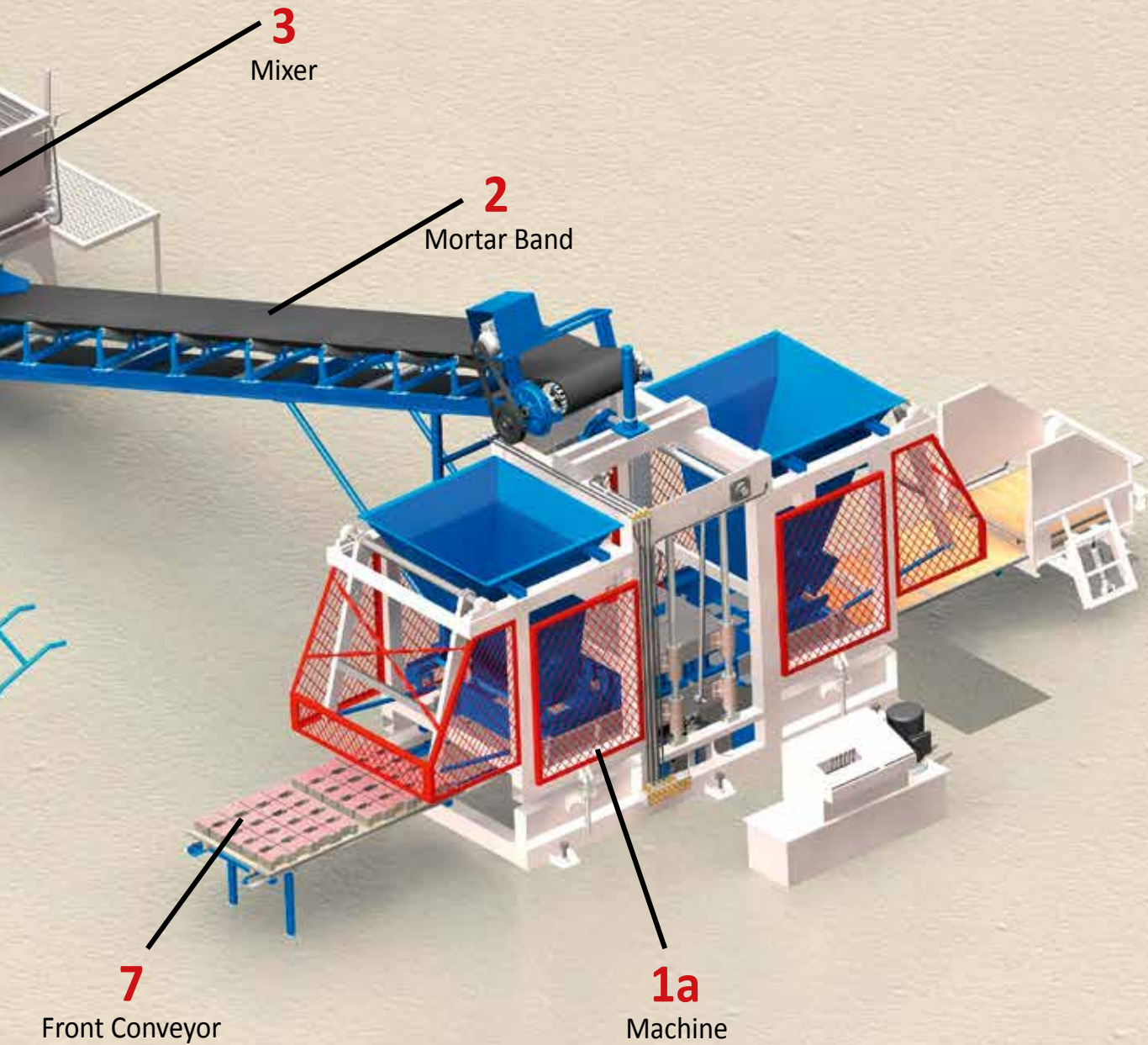
4

Sand Band

6

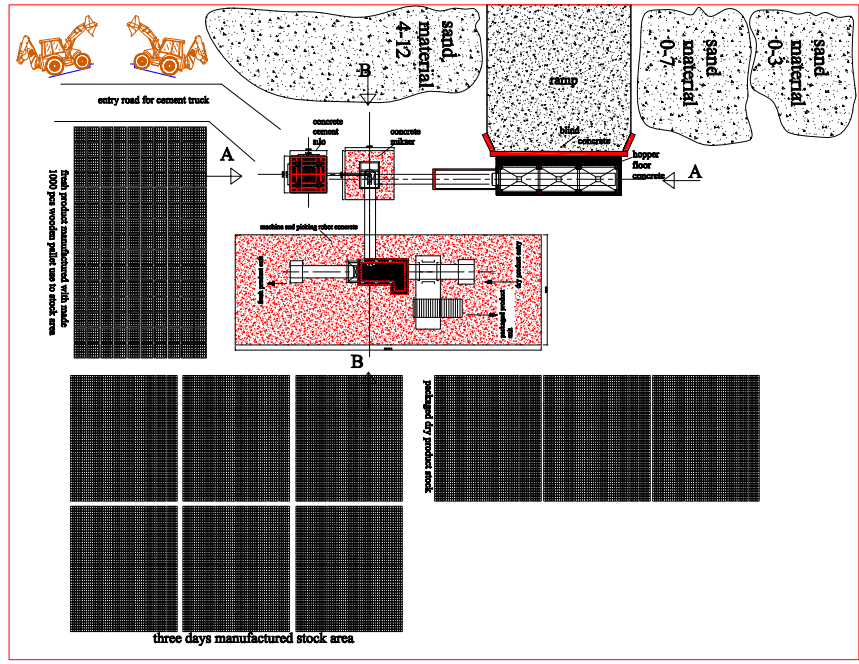
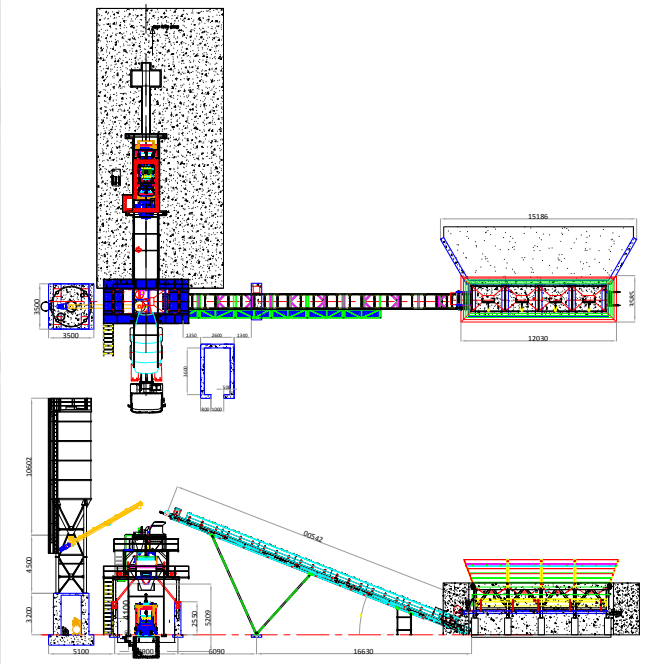
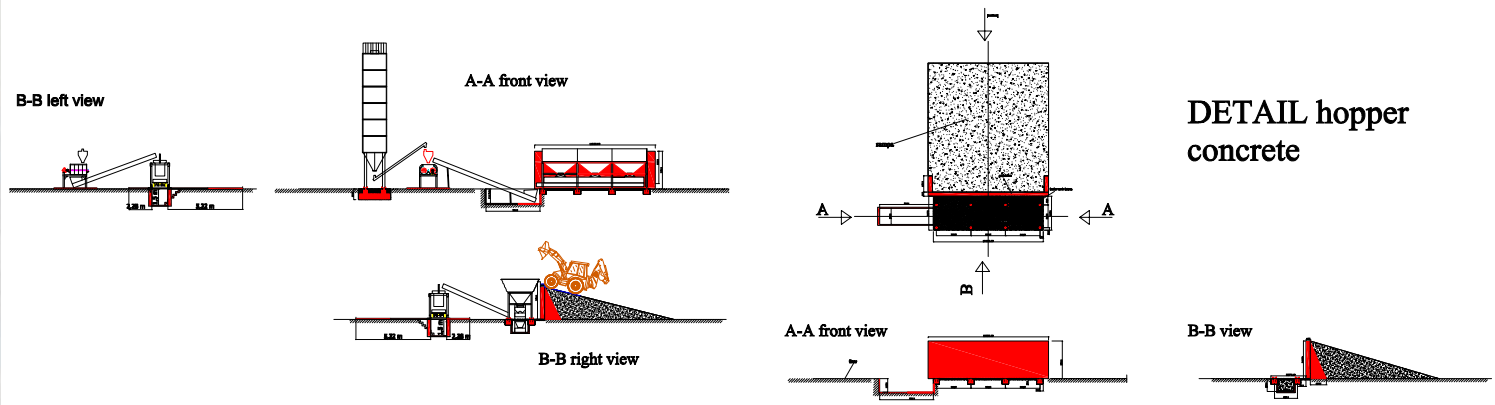
Driver Car

| MANUAL SYSTEM | | |
|-------------------------------------|--|---|
| | BS20 | BS25 |
| 1 HOURLY PRODUCTION INTERLOCK | 62 M ² | 83 M ² |
| 1 HOURLY PRODUCTION BLOCK 19*39*20 | 1250 pieces | 1560 pieces |
| TOTAL ELECTRIC POWER | 50 Kwh | 60 Kwh |
| VIBRATOR STRENGTH | 11000 Kgf | 13000 Kgf |
| HYDRAULIC PRESSURE | 120 bar(kgf/cm2) | 130 bar (kgf/cm2) |
| TOTAL AREA | 3400 m ² | 3550 m ² |
| STAFF WORK | 9 operator | 9 operator |
| SHIP SHAPE AND PIECES | 2 pieces 40 HQ container | 2 pieces 40 HQ container |
| WOODEN PALLET DIMENSIONS |  |  |
| WOODEN PALLET SHIP SHAPE AND PIECES | 1 pieces 40 HQ container | 1 pieces 40 HQ container |



THE PLANT AREA SPECIFICATION

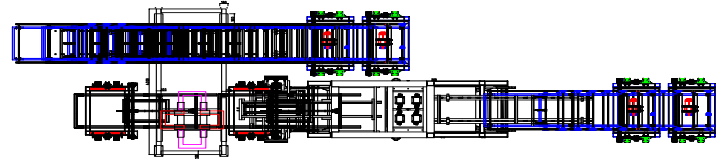
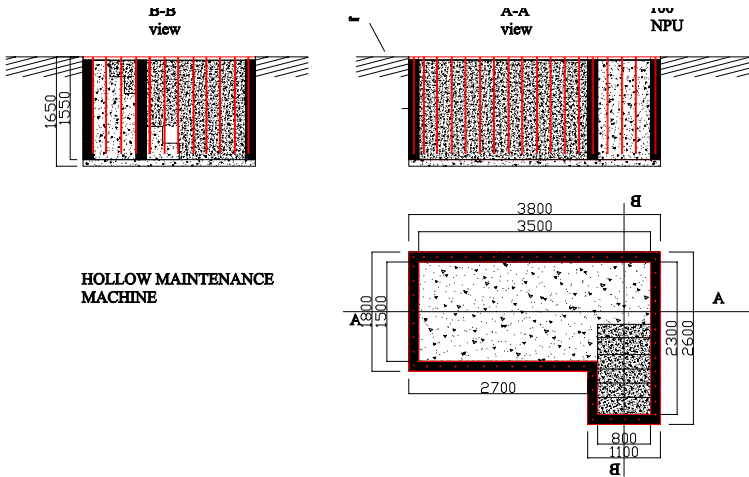
| THE PLANT AREA SPECIFICATION | BS 20 | BS 25 | BS 30 | BS 36 | BS 42 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| The required plant area in automatic systems: | 3600 M ² | 4000 M ² | 4500 M ² | 5500 M ² | 5500 M ² |
| The required plant area in semi automatic systems: | 3400 M ² | 3550 M ² | 3550 M ² | | |
| The total transformer or generator power required to be established in automatic systems should be | 100 kVa | 100 kVa | 150 kVa | 200 kVa | 200 kVa |
| The plant installed power shall be automatic system | 75 kw hour | 85 kw hour | 105 kw hour | 125 kw hour | 125 kw hour |
| The total transformer or generator power required to be established in semi automatic systems should be | 80 kVa | 80 kVa | 80 kVa | | |
| The plant installed power shall be semi automatic system | 50 kw hour | 50 kw hour | 50 kw hour | | |
| Betonsen Company shall recommend establishing minimum in order to project the machine, empty palette retention and fresh product drainage areas from bad weathwer conditions to the purchaser. | 600 m ² | 600 m ² | 1000 m ² | 1000 m ² | 1000 m ² |



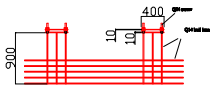
GENERAL INSTALLATION TERMS

- The forklift shall be provided by the purchaser. The purchaser should prepare the reinforced concrete substructure of the area on which the factory will be established. Betonsen Company shall prepare a detailed measurement plan regarding the area that the substructure will be set up.
- The concrete quality and the load that it will carry, that is Static calculation and the controls of the strength of the reinforced concrete structure shall be calculated and prepared by the construction engineers carefully.
- The electric wiring of the factory up to the control panel shall be made by the purchaser. Water installation and compressed air compressor and installation should have been made to the mixer unit of the factory.
- The number of required employer to operate the factory in automatic systems: 3 People (2 Operators and 1 forklift driver)
- The number of required employer to operate the factory in semi automatic systems: 9 People (2 Operators, 1 wood palette driver, 3 fresh product carriers and 3 aggregate suppliers)

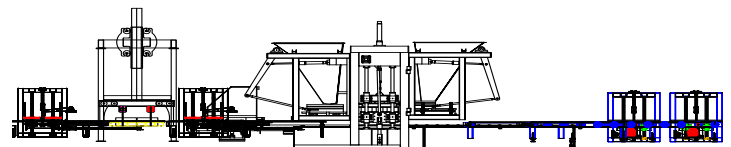
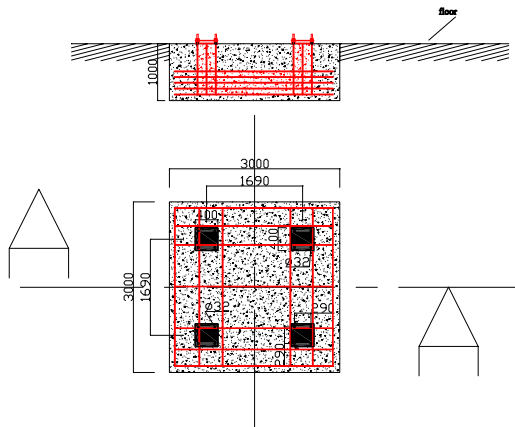
- Cement, Aggregate, water installation and water, concrete appropriate to the concrete project, compressed air compressor with minimum 500 l capacity, forklift, earth digger, telescopic, crane with minimum 10 tons lifting capacity, electric and distributor electric panel at the requested power and operators which will operate the machines and the equipment shall absolutely be ready in order to start montage.
- To keep the environment complying with the labour safety and worker health rules (Grounded and isolated electric and electric materials, safe and appropriate hand tools, workbenches and machines, safe scaffoldings and platforms etc.) and the labour safety elements (helmet, steel toe gumshoes of which sole does not transmit electricity, safety belts appropriate to be used at high, etc.) available for the personnel charged by the seller during the montage, to supervise and control the works carried out in this montage in terms of occupational health and safety and to eliminate the problems as soon as possible.



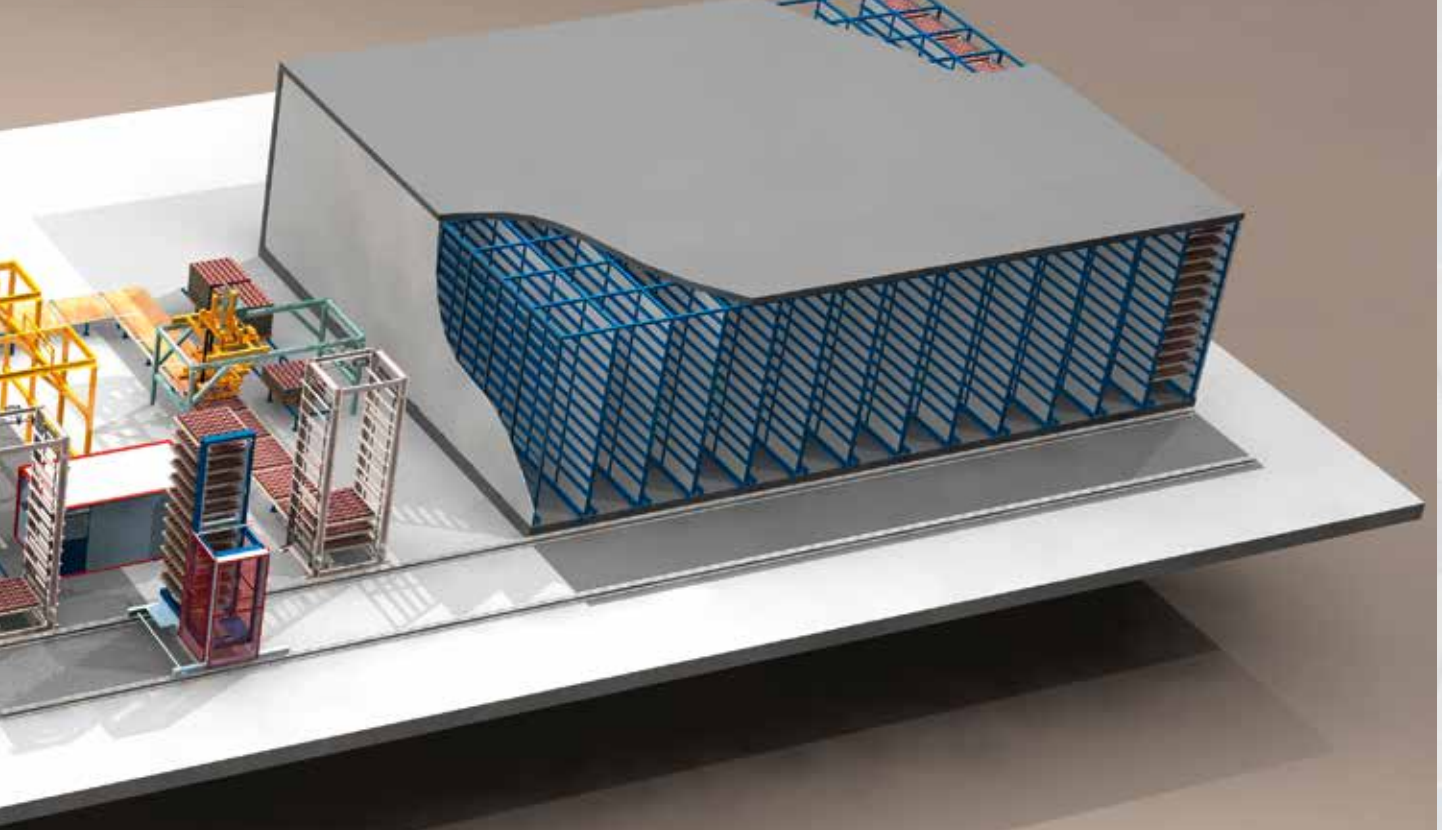
ANGRAJ and fibre in concrete



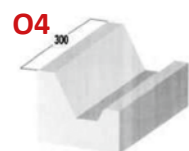
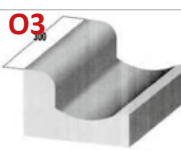
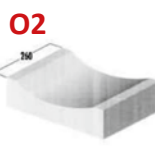
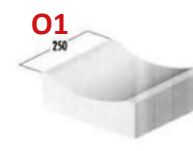
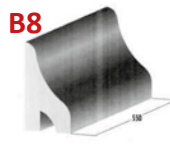
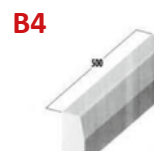
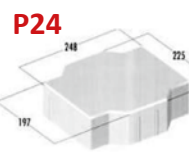
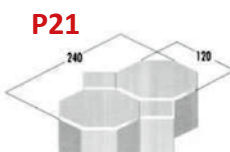
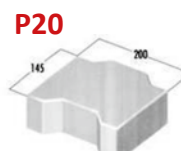
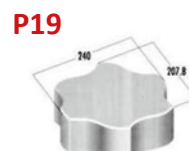
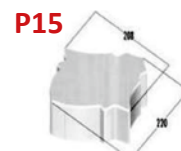
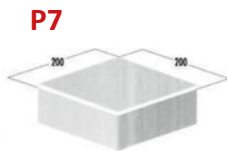
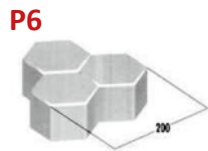
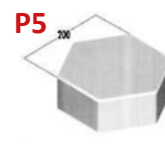
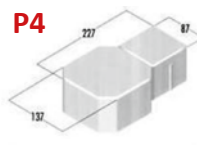
A-A view







CONCRETE PAVING STONE



CONCRETE HOLLOW BLOCK

BR1



BR2



BR3



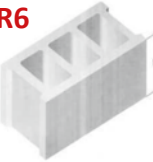
BR4



BR5



BR6



BR7



BR8



BR9



BR10



BR11



BR12



BR13



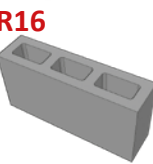
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BR15



BR16



BR17



BR18



BR19



BR20



BR21



BR30



BR31



BR32



BR33



BR34



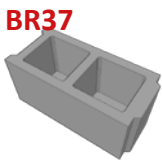
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BR36



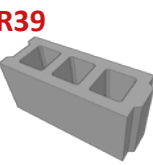
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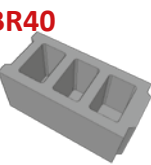
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BR39



BR40



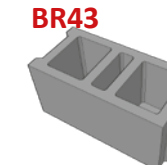
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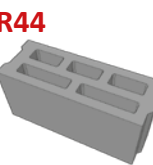
BR42



BR43



BR44



BR45



BR46



BR47



BR22



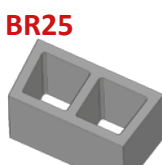
BR23



BR24



BR25



BR26



BR27



BR28



BR29



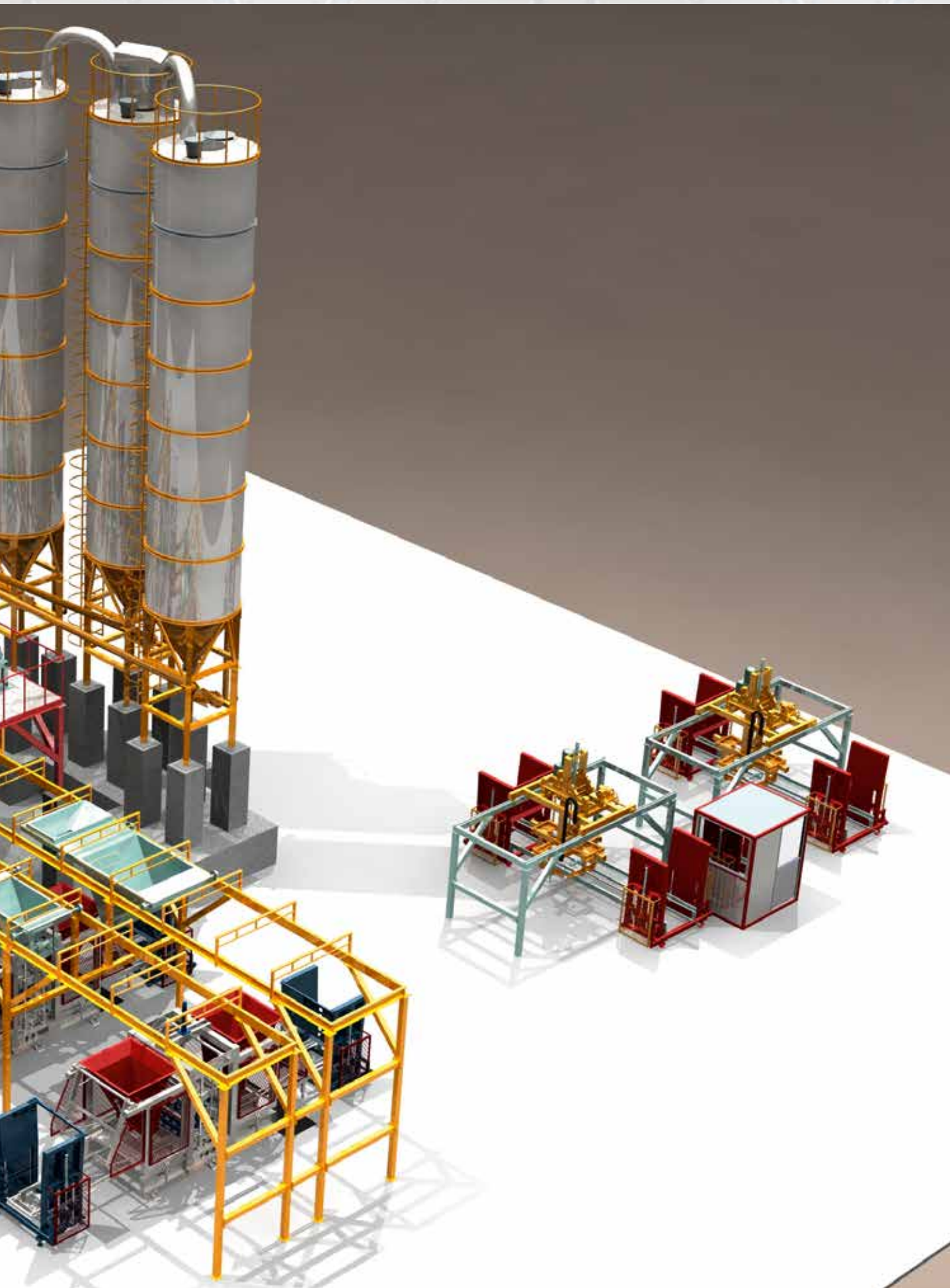
CONCRETE BATCHING PLANTS

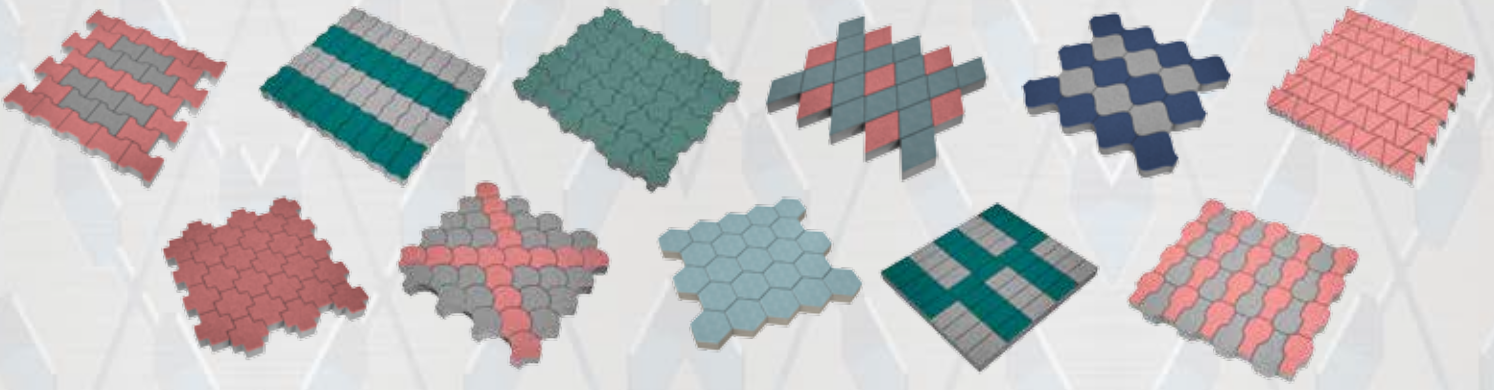


**CONCRETE BATCHING PLANTS COMPERATIVE TECHNICAL SPECIFICATIONS
BETON SANTRALLERİ KARŞILAŞTIRMALI TEKNİK ÖZELLİKLERİ**

| | | A-60 M3 BS | B-80 M3 BS | C- 100 M3 BS | D- 120 M3 BS |
|--------------------------------|------------------------------|--------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
| Mikser Yükleme Kapasitesi | Mixer loading capacity | 1500 lt | 2500 lt | 3000 lt | 3500 lt |
| Sıkıştırılmış Beton Kapasitesi | Compressed concrete capacity | 1000 lt 30kw | 1500 lt 37 kw | 2000 lt 2X37 kw | 3000 lt 2x37 kw |
| Agrega göz kapasite | Aggregate bunker capacity | 48 m3 | 80 m3 | 100 m3 | 120 m3 |
| Agrega göz adedi | Aggregate bunker amount | 4 X 12 m3 | 4 X 20 m3 | 4 X 25 m3 | 4 X 30 m3 |
| Agrega tartım konveyör | Aggregate Weighting Conveyor | 600 X 10000 mm 7,5 kw | 800 X 10000 mm 7,5 kw | 1000 X 10000 mm 11 kw | 1000 X 10000 mm 11 kw |
| Mikser yükleme konveyörü | Mixer Loading Conveyor | 800 X 24000 mm 22 kw | 900 X 26000 mm 22 kw | 1000 X 28000 mm 30 kw | 1000 X 30000 mm 30 kw |
| Agrega Bekleme bunkerı | Aggregate Waiting Bunker | 1.5 m3 | 2.5 m3 | 3 m3 | 3,5 m3 |
| Çimento tartım | Cement Weighting | 600 kg | 700 kg | 800 kg | 800 kg |
| Su tartım | Water Weighting | 500 kg | 650 kg | 800 kg | 800 kg |
| Katkı tartım | Contribution Weighting | 30 kg 0,37 kw pump | 30 kg 0,37 kw pump | 30 kg 0,37 kw pump | 30 kg 0,37 kw pump |
| Basınçlı Hava Kompresörü | Compressed Air Compressor | 1000 lt/min 7,5 kw | 1100 lt/min 7,5 kw | 1160 lt/min 7,5 kw | 1160 lt/min 7,5 kw |
| Çimento silo kapasitesi | Cement Silo Capacity | 50 t | 75 t 2pcs | 100 t 2pcs | 100 t 2pcs |
| Çimento helazonu | Cement Screw | 219 X 6000 mm 5,5 kw 75 t/h | 219X6000 mm 5,5 kw 75 t/h 2pcs | 273X6000 mm 9,2 kw 90 t/h 2pcs | 273X6000 mm 11,5 kw 75 t/h 2pcs |
| Otomasyon sistemi | Automation System | Siemens | Siemens | Siemens | Siemens |
| Otomasyon yazılımı | Automation Software | Scada | Scada | Scada | Scada |
| Kumanda kabini ebadı | Control Cabin Size | 2,4 X 4 X 2,5 m | 2,4 X 4 X 2,5 m | 2,4 X 4 X 2,5 m | 2,4 X 4 X 2,5 m |







BETONSEN MAKİNE METAL ÜRÜN. İML. İTH. İHR. SAN. VE TİC. LTD. ŞTİ.

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