

A large, dark grey and red tracked machine, the MEKA MTJ 1165, is positioned in front of a large industrial building with a corrugated metal facade. The machine features a large red conveyor belt system and a white hopper. The building's facade has the word 'MEKA' in large, blue, three-dimensional letters. The machine's side panel also displays 'MEKA-TRACK MTJ 1165' and 'MEKA'. The tracks have 'MTJ 1165' and 'WWW.MEKAGLOBAL.COM' printed on them.

# MEKA

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## MEKATRACK

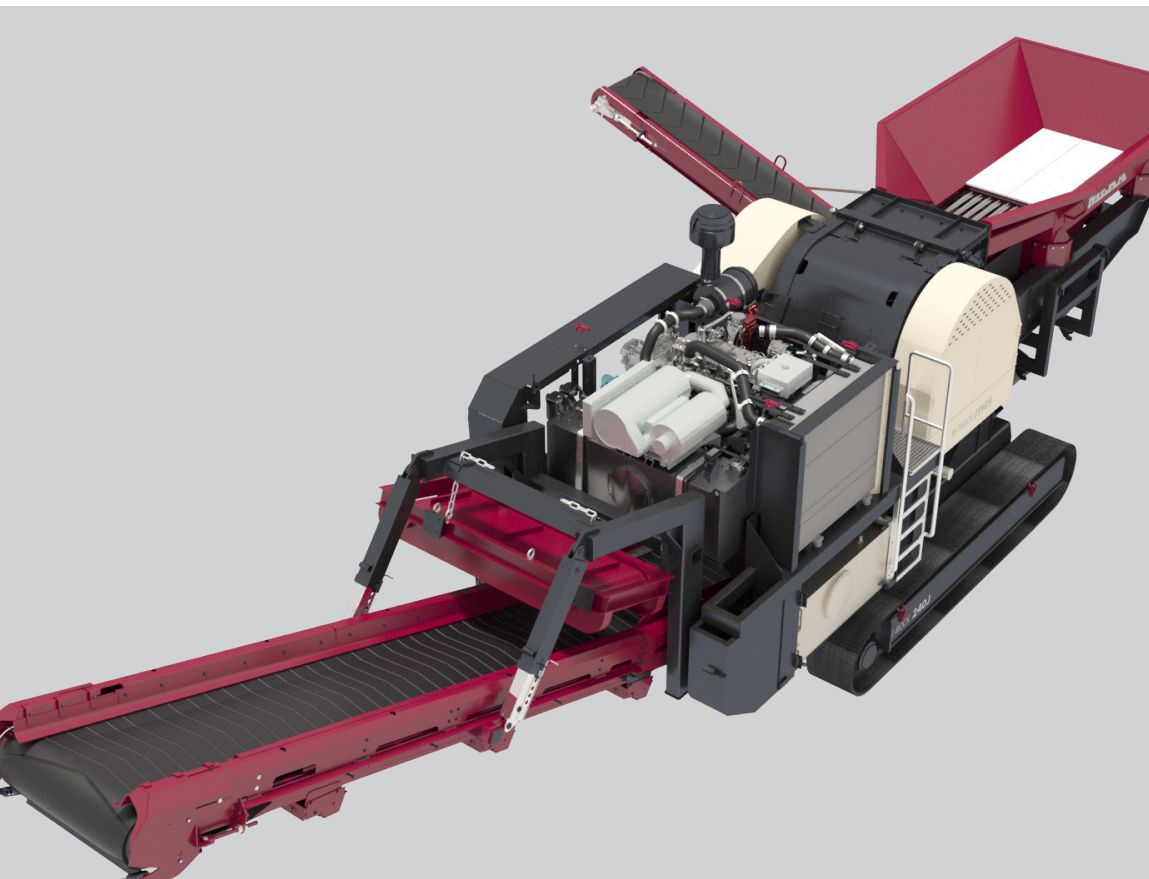
### MTJ 1165

ENDURANCE, CAPACITY AND  
EFFICIENCY

MEKA CRUSHING SCREENING AND  
CONCRETE BATCHING TECHNOLOGIES  
[www.mekaglobal.com](http://www.mekaglobal.com)

# MEKA

## TRACKED MOBILE CRUSHER

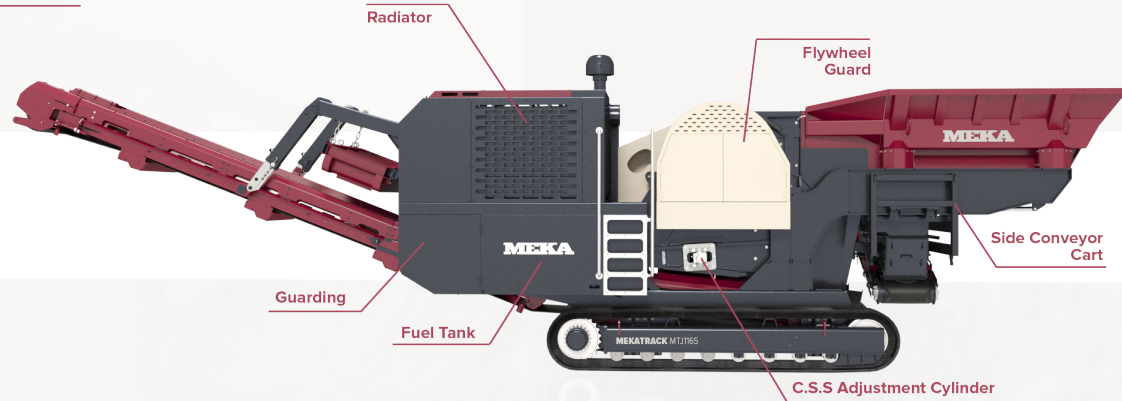
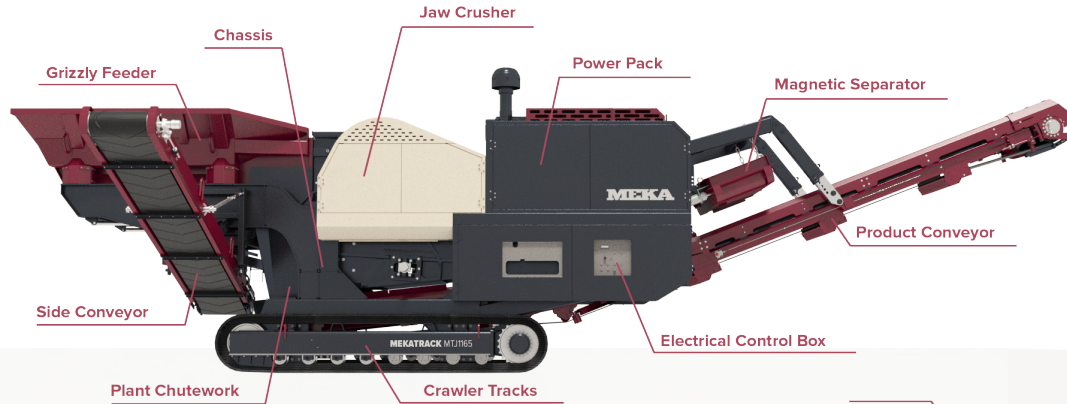


## FEATURES

MEKA J Series mobile jaw crushers provide following advantages;

- True mobility with compact dimensions
- Easy to transport between sites
- Fast set-up time and low operational costs
- Built around the high performance J1165 jaw crusher
- Excellent crushing capacity
- Single unit for hard rock and recycle materials
- Built with proven components
- Unbeatable recycling versatility
- Advanced user friendliness and safety
- Safe and reliable process with easy control system
- High efficiency power package to ensure maximum productivity
- Environmentally friendly diesel motor
- Unmatched reliability provides maximum machine availability

## MAIN COMPONENTS





## GRIZZLY FEEDER

### Type

Spring mounted vibrating pan and grizzly

### Hopper volume

4.2 – 4.5 m<sup>3</sup>

### Hopper width

2550 mm

### Feeder width

1046 mm

### Feeder length

4070mm

### Maximum feed size

520 mm

### Vibrating Unit

Twin heavy-duty cast eccentric shafts running in spherical roller bearings, gear coupled at drive end

### Drive

Flange mounted hydraulic motor

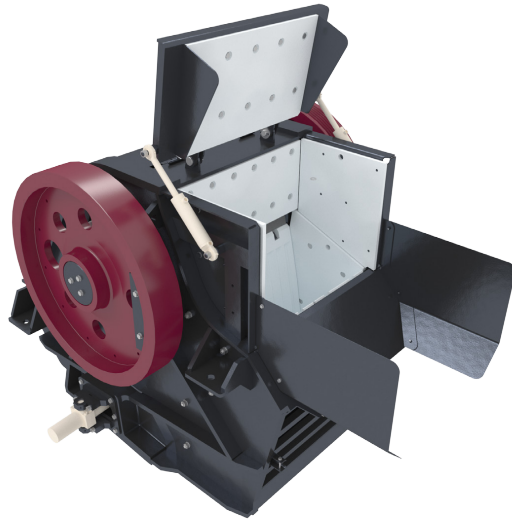
### Grizzly

Two replaceable 1760mm long stepped grizzlies with nominal 60mm aperture tapered from front to back.

### Operating principle

With hydraulic motor, operating speed can be adjusted from the control panel (maximum 1100 rpm)





## JAW CRUSHER

### Model: J1165

**Crusher type:** Single toggle with hydraulic setting adjustment system

**Feed opening:** 1100x650 mm

**Drive:** V-Belt, flywheel and hydraulic motor

**Crusher rotation:** Reversible(clockwise/anticlockwise)

Normal operation: Anticlockwise

**Closed side setting:** 60mm standard, can be adjusted between 55-150mm

**Speed:** 190-220 rpm

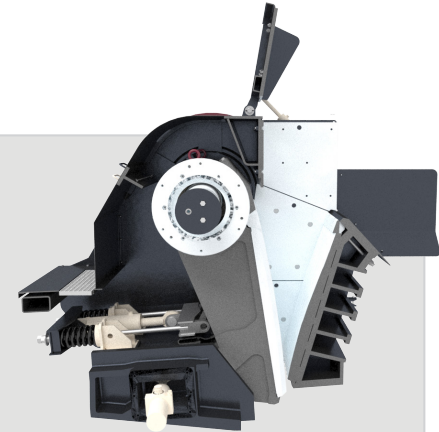
**Bearings:** Self aligning spherical roller type

**Spring adjustment:** With hydraulic cylinders

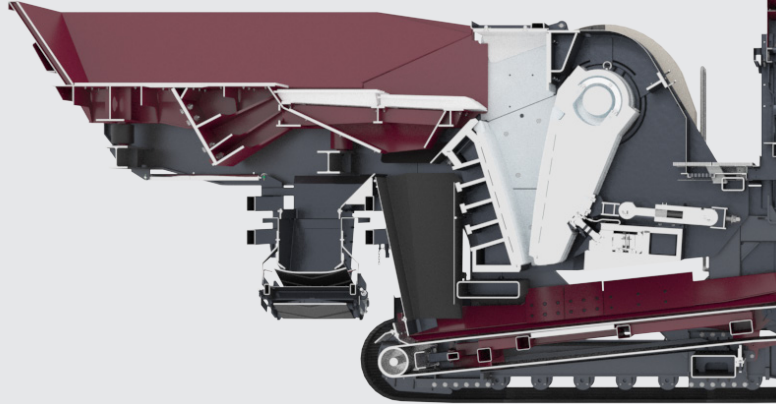
**Lubrication:** Grease, manually (Optional automatic lubrication)

### Features

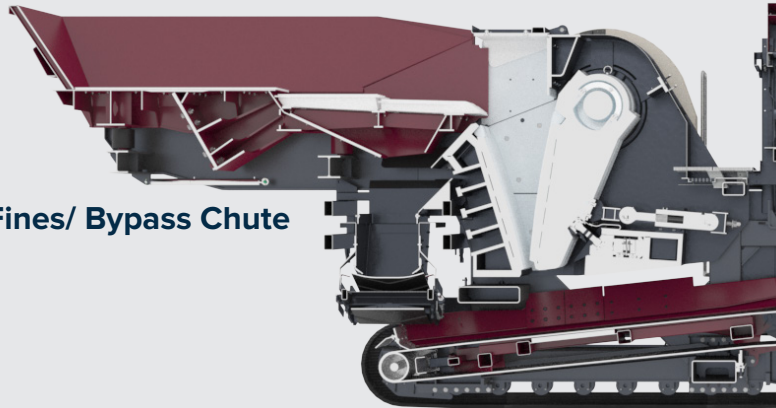
1. Quick and easy setting adjustment,
2. Fixed and swing jaws are common and can be changed rapidly
3. Strong frame construction with no welding in critical areas, heat treatment after welding
4. Eccentric shaft arrangement for lower stresses
5. Cartridge type bearing arrangement
6. Improved manganese liner retention
7. Side plates: Wear resistant steel
8. Reversible operation is possible incase of blockage
9. Improved design and upward positioning of the toggle plate, provides a more aggressive crushing action compared to regular jaw crushers. Material fed to the upper section of the crushing chamber is forced to the lower section of the chamber and the quad motion at the discharge end pushes the crushed material upwards back into the crushing chamber. The material will be crushed again and will result in production of cubical products.



**Crusher Feed Chute**



**Grizzly Fines/ Bypass Chute**



## PLANT CHUTEWORK

### Crusher Feed Chute

One piece fabrication with 25 mm thick on the side and 20mm thick on the top and bottom parts with wear resistant steel plate.

### Grizzly Fines/Bypass Chute

A two-way dirt chute is provided to discharge to the product conveyor or the dirt conveyor. Fabricated in 6mm mild steel plate, complete with flap door to direct grizzly fines to either the side dirt conveyor or the main product conveyor.

## PRODUCT CONVEYOR

### Design

Conveyor is designed to be lowered for the removal of trapped material and for transportation. The conveyor can be lowered and raised when crushing. Fully removable modular unit to aid access and maintenance.

### Belt type

EP 500/3 ,with 10mm top and 3mm bottom heavy duty rubber covers with steel reinforcement and with vulcanised joint.

### Belt width

1200 mm

### Belt length

12000 mm

### Maximum discharge height

3950 mm (Adjustable with hydraulic mechanism)

### Maximum clearance

510 mm (Jaw to belt when lowered)

### Drive

Direct drive hydraulic motor

### Belt adjustment

Belt tensioning by screw at the drive and tail drum

### Belt Scraper

Polyurethane and Polyethelene blades

### Lubrication

Manual grease lubrication for the drum bearings

### Skirting

Wear resistant rubber sealing skirts along the entire conveyor length

## ON PLANT SIDE/DIRT CONVEYOR

### Belt type

EP 400/3 ,with 10mm top and 4mm bottom heavy duty rubber covers with vulcanised joint.

### Belt width

650 mm

### Belt length

6000 mm

### Discharge height

3110 mm

### Drive

Direct drive hydraulic motor

### Belt adjustment

Belt tensioning by screw at the drive and tail drum

### Belt Scraper

Polyurethane and Polyethelene blades

### Lubrication

Manual grease lubrication for the drum bearings

### Skirting

Wear resistant rubber sealing skirts along the entire conveyor length

**Can be positioned on the right or left side of the unit**

## MAGNETIC SEPARATOR

### Type

Suspended self-cleaning overband

### Magnet Width

550 mm

### Magnet Length

1268 mm

### Drive

Hydraulic motor

### Control

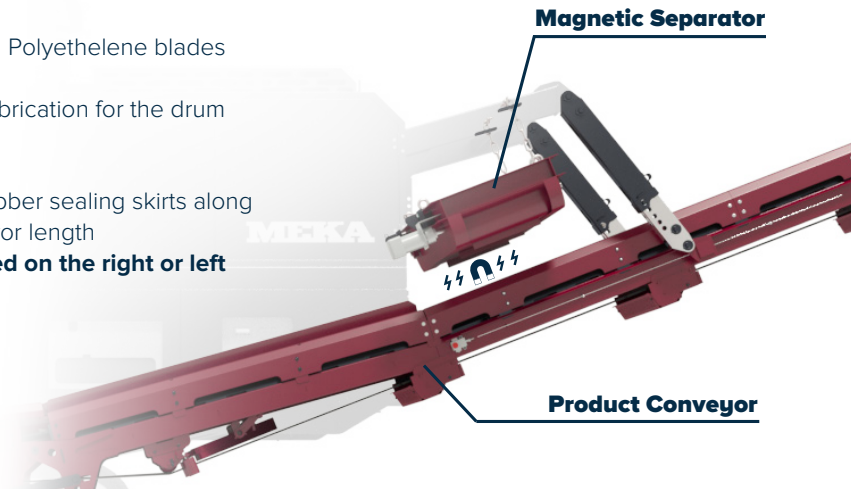
Pre-set variable speed

### Discharge Chute

Via stainless steel shedder plate

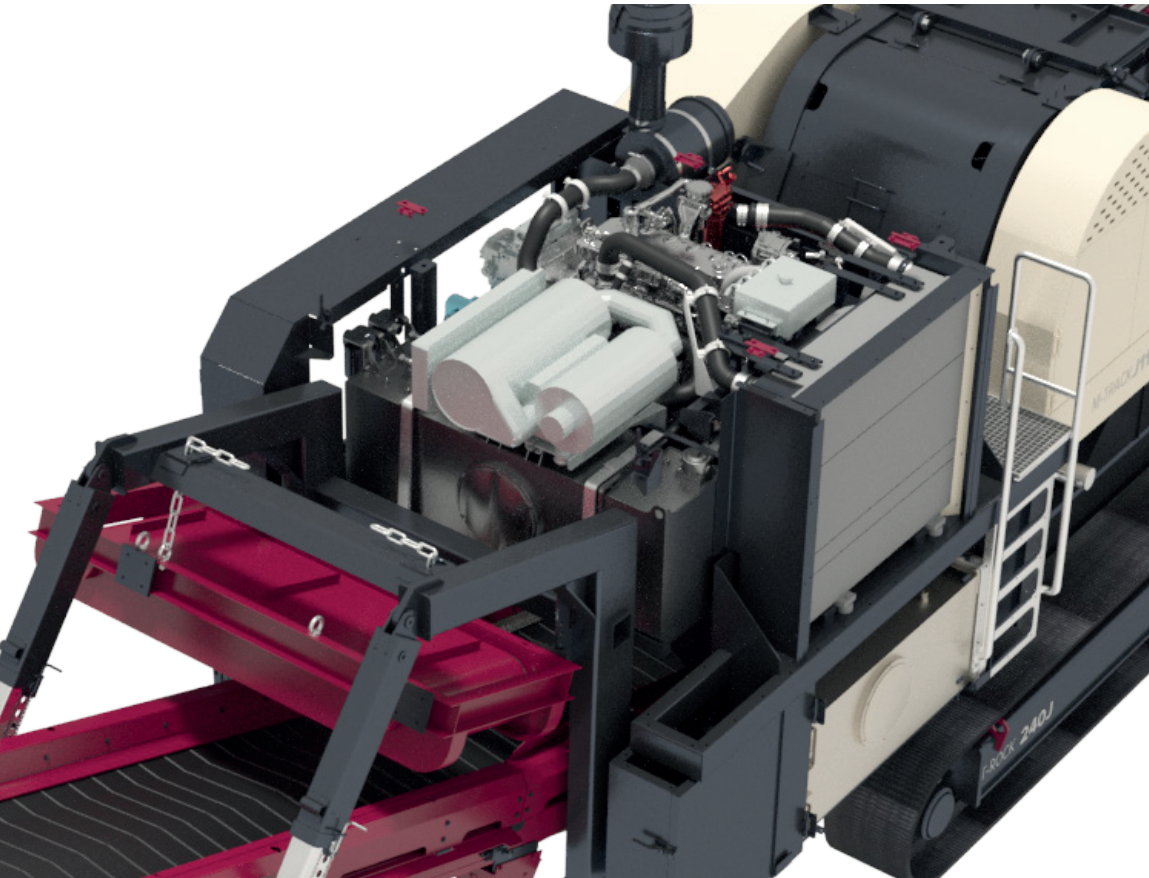
### Magnetic strength

450 Gauss at 250mm



# MEKA

## TRACKED MOBILE CRUSHER



### POWERPACK

#### Type

CAT™ C9.3 ACERT™ (TIER 4)

#### Performance

242 kW (325 HP) at 1700 rpm at sea level

#### Fuel tank capacity

450 Litres nominal

#### Fuel consumption

30-35 lt/hr

#### Clutch type

Highly efficient, Centamax coupling with gearbox

#### Drive

Direct drive hydraulic pumps

#### Access

Easy Access canopy for all engine services



### PLATFORMS AND LADDER

A detachable access ladder with double row handrails is provided to gain access to the powerpack and the crusher. A platform with special grating is also included to gain access to the crusher and the powerpack.

### CHASSIS

Heavy-duty fabricated I section of welded construction. (Stress relieved with heat treatment)



### GUARDING

1. Sheet metal guards are provided for all drives, flywheels, pulleys and couplings.
2. The guards provided are designed and manufactured to meet CE standards.
3. Hinged access guards are provided on the top, side ends of the engine, flywheels, hydraulic equipment and control panel.

### CRAWLER TRACKS

**Type:** Heavy-duty tracks fitted as standard

**Pitch:** 171.5 mm

**Longitudinal centers:** 3800 mm

**Track width:** 500 mm

**Climbing grade:** 27.4° maximum

**High speed:** 1,2 km/hr

**Slow speed:** 0.6 km/hr

**Drive:** Hydraulic integral motors

**Track tensioning:** Hydraulic adjuster, grease tension

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## TRACKED MOBILE CRUSHER



## REMOTE CONTROL

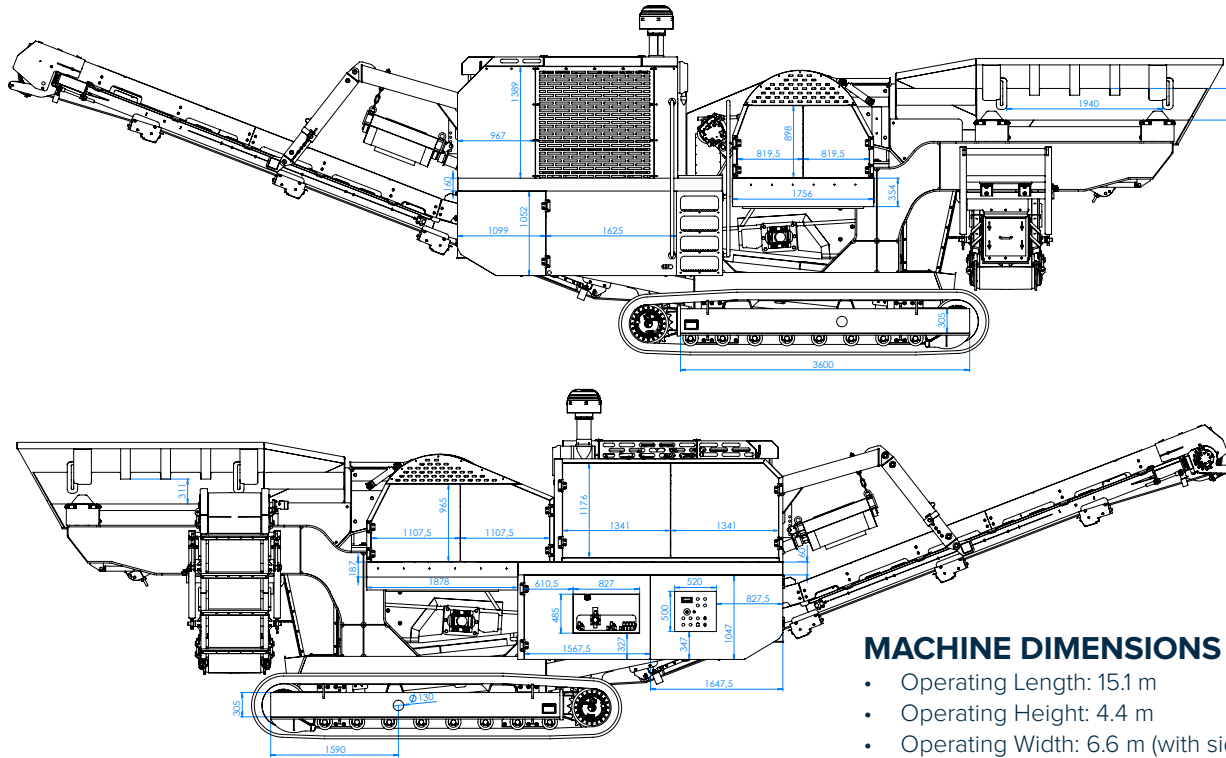
Will control the tracking function and also optionally stop and start controls for the grizzly feeder can be provided.



## ELECTRICAL CONTROL BOX WITH PLC

A combined PLC control system is fitted onto the plant with auto start facility (optional) to operate the following units;

- Engine
- Feeder (Start/Stop)
- Hydraulic equipment (Start/Stop)
- Product conveyor(Start/Stop)
- Crusher operation (clockwise/anticlockwise)
- Side Conveyor Adjustment (forwards/backwards)



### MACHINE DIMENSIONS

- Operating Length: 15.1 m
- Operating Height: 4.4 m
- Operating Width: 6.6 m (with side conveyor)
- Transport Length: 15.3 m (with lowering of main conveyor)
- Transport Height: 3.73 m (with disassembled air cleaner)
- Transport Width: 2.97 m (with disassembled side conveyor)
- Total Plant Weight: 44000 kg (approximately, with side and magnetizing conveyor)



# MEKA

CRUSHING  
SCREENING AND  
CONCRETE BATCHING  
TECHNOLOGIES

#### HEAD OFFICE

Camlica Mah. Anadolu Bulvari  
147. Sokak Atlas Is Merkezi  
No:5/9 Gimat ANKARA - TURKEY  
+90 312 397 91 33-34-35  
Fax: +90 312 397 10 34  
sales@mekaglobal.com

[www.mekaglobal.com](http://www.mekaglobal.com)