MEKA

MEKATRACK MTJ 1165

ENDURANCE, CAPACITY AND EFFICIENCY

MEKA CRUSHING SCREENING AND
CONCRETE BATCHING TECHNOLOGIES
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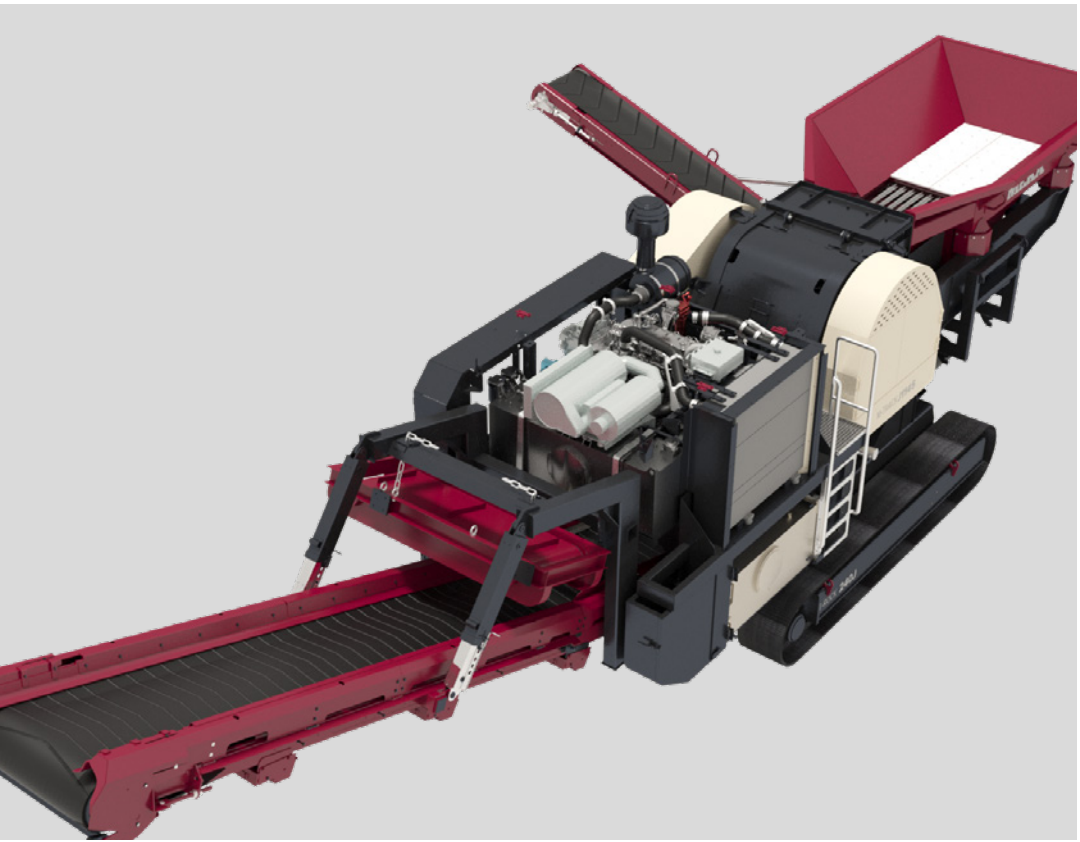
TRACK MOUNTED JAW CRUSHER



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

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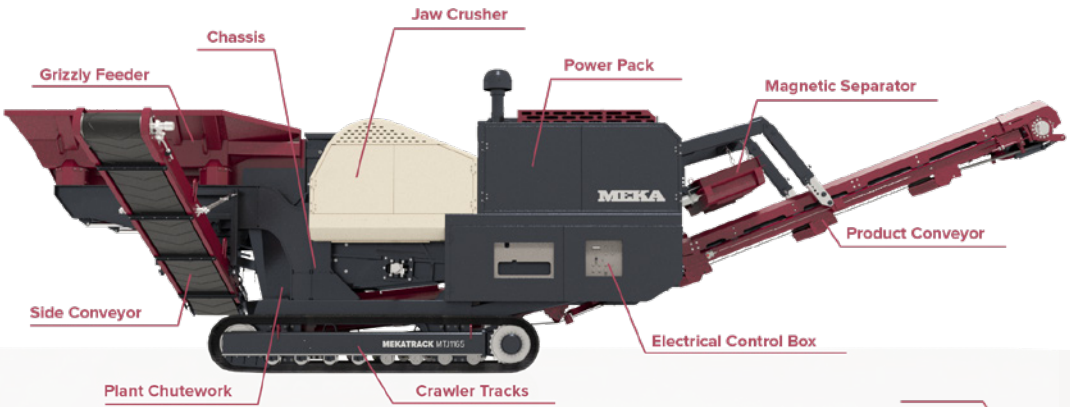
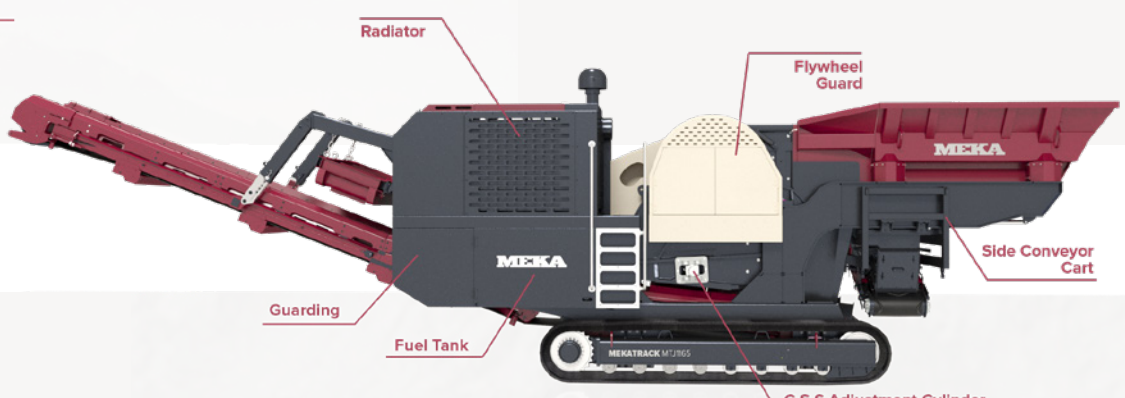
MAIN **COMPONENTS**





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GRIZZLY FEEDER

Type
Spring mounted vibrating pan and grizzly
Hopper volume
4.2 – 4.5 m^3
Hopper width
2550 mm
Feeder width
1046 mm
Feeder length
4070 mm
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)

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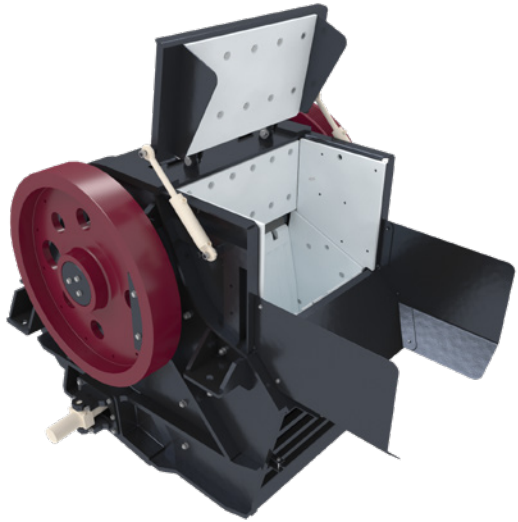

JAW CRUSHER

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.

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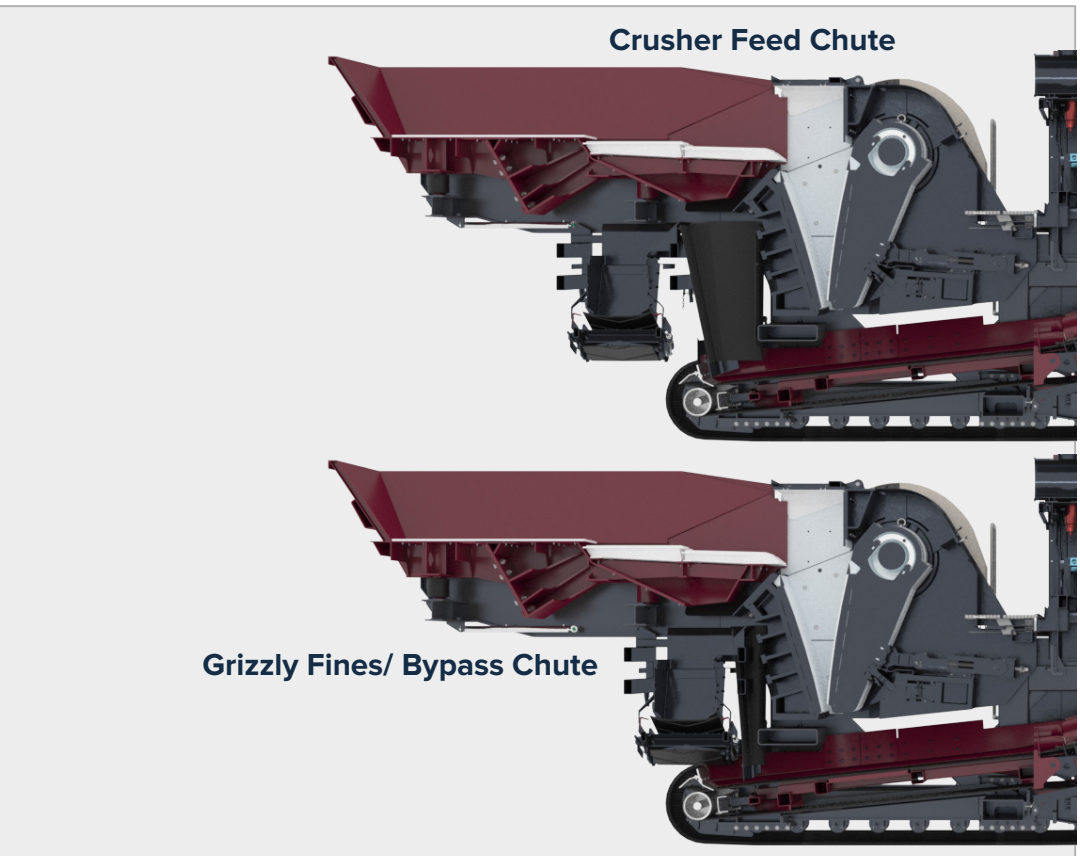


PLANT CHUTEWORK

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

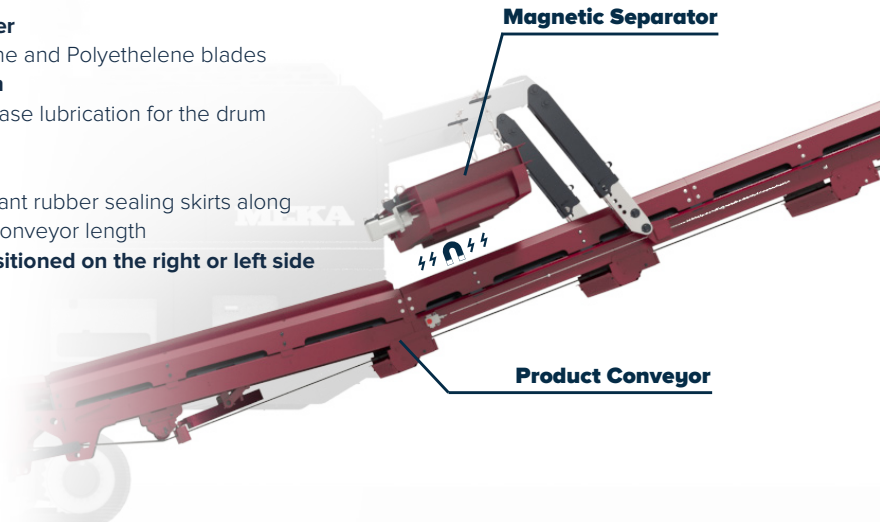
Design
Conveyor is designed to be lowered for the removal of trapped material and for transportation. The conveyor can be lowered and raised when crushing. Fully removable modular unit to aid access and maintenance.
Belt type
EP 500/3 ,with 10mm top and 3mm bottom heavy duty rubber covers with steel 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



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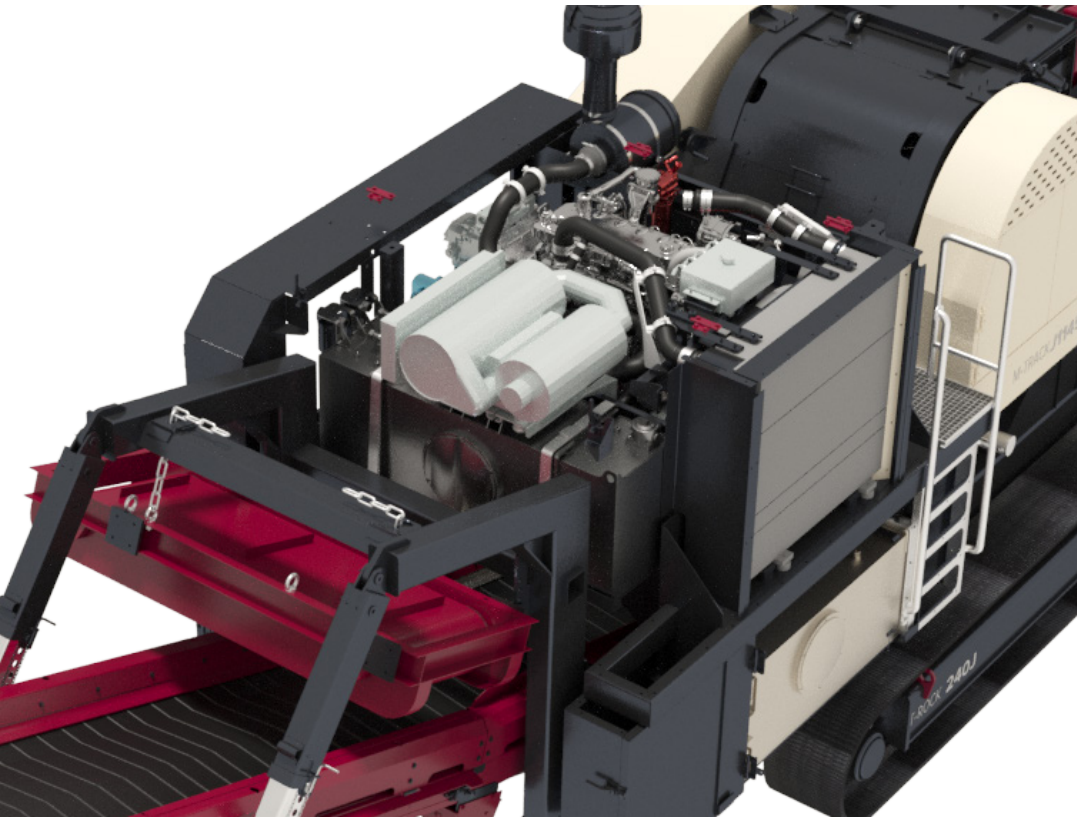

POWERPACK

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, self-adjusting coupling with gearbox
Drive
Direct drive hydraulic pumps
Access
Easy Access canopy for all engine services

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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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REMOTE CONTROL

Will control the tracking function and also optionally provides stop and start controls for the grizzly feeder.

ELECTRICAL CONTROL BOX WITH PLC

There are 2 display and related buttons on the electrical panel of the machine.

1. **Diesel engine display;**

   The engine is switched on and off by means of buttons on the screen. Also, the motor speed (rpm) and temperature value are displayed on the display.

2. **PLC screen;**
   - Alarms
   - Crusher speed

3. **The buttons on the board;**
   - System On Switch
   - Feeder (Start/Stop)
   - Hydraulic equipment (Start/Stop)
   - Crusher (Start/Stop)
   - Crusher operation (clockwise/anticlockwise)

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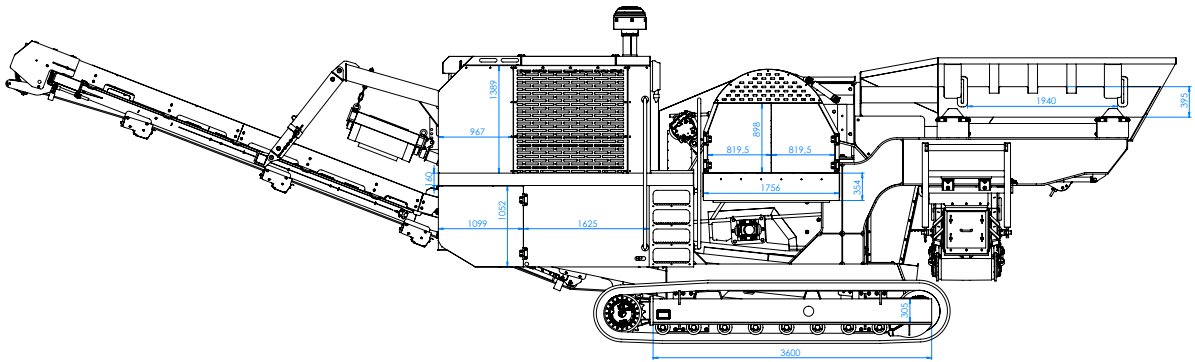

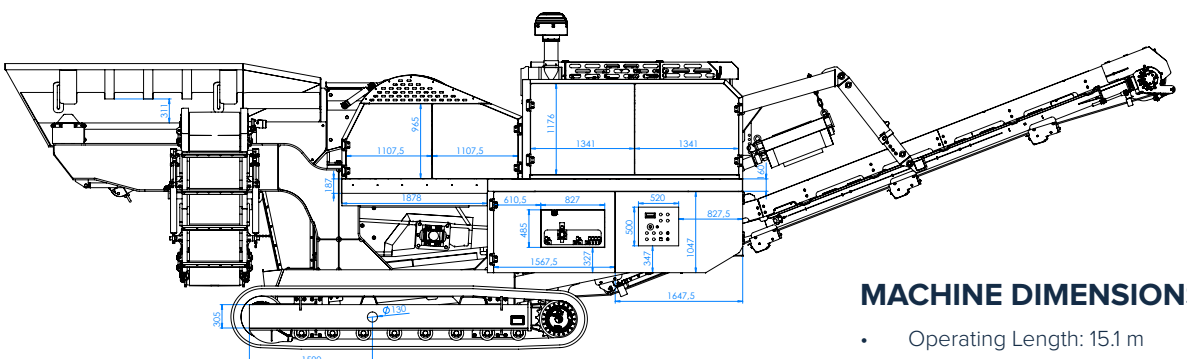

MACHINE DIMENSIONS

- 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 magneting conveyor)

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