

TECHNICAL DESCRIPTION

Mobile Crushing Plant Type JAWMAX® 400

Dimension Sheet No. 42 1793 49

A. GENERAL DATA

001 Application Data:

- Feed material: natural rock, reinforced concrete, building debris, asphalt
- Throughput capacity: up to 400 t/h (depending on feed material and gap width)
- Feed material size: space diagonal max. 0-700 mm

002 General Technical Data:

	<u>Operating Condition</u>	<u>Transport Condition</u>
- Length:	approx. 15.40 m	approx. 13.75 m
- Width:	approx. 5.70 m	max. 3.00 m
- Height:	approx. 4.00 m	approx. 3.60 m
- Total weight:	approx. 34,800 kg - without options	

003 Listing of Power Consumption:

- Vibrating feeder	2 x 4 kW
- Crusher drive	110 kW
- Main discharge conveyor belt	11 kW
- Conveyor belt for pre-screened material	3 kW (optionally)
- Magnet separator	1.5 kW (optionally)
- Pump drive for traction hydraulics	37 kW
- Pump drive for working hydraulics	4 kW
- Pump for sprinkler unit	0.75 kW (optionally)

Current supply by means of a three-phase diesel genset 200 kVA, which is fastened on the plant.

004 Painting:

- A two-coloured lacquer is standard: RAL 3016 (coral red)
RAL 9005 (black)

B. DESCRIPTION OF PLANT COMPONENTS

001/000 MOBILE CRUSHING PLANT ON CRAWLER UNDERCARRIAGE TYPE JAWMAX® 400

consisting of:

001/001 Feed Hopper (Rigid Construction)

Volume : approx. 3.5 m³ (7.0 m³ incl. option a) hopper extension)
Width : approx. 1.9 m (2.8 m incl. option a) hopper extension)
Length : approx. 3.9 m (4.4 m incl. option a) hopper extension)

including:

- Wear resistant welded steel construction

OPTION / Additional Equipment:

a) Hopper extension walls, hydraulically foldable with mechanical interlocking system

001/002 Vibrating Feeder with Grizzly

- Trough width : 1000 mm
- Trough length : 3500 mm
- Drive capacity : 2 x 4 kW (unbalance motors)
- Grid section : conical shape grizzly, gap width 30/60 mm

including:

- Material by-pass flap (3 positions)
- Wear lining made of HB 400, s=12 mm on wooden intermediate layer screwed
- 4 nos. spring supports with limiting of spring deflection

OPTIONS / Additional Equipment:

b) Wear lining at the bottom made of stainless steel
c) Conical shape grizzly, gap width 15/35 mm instead of 30/60 mm
d) Rod grid with heavy-duty tines, gap width 40/60 mm
e) Cover plate for grizzly s=8 mm, made of HB 400
f) Finger screen elements (lower deck) for additional separation, gap width 25 mm

001/003 Single-Toggle Jaw Crusher

Type STE 110-70 ASV

Feed opening	: 1100 mm x 700 mm
Gap width	: 35 mm up to 180 mm
Quick release opening	: max. gap width 280 mm (optionally)
Drive	: 3-phase squirrel cage motor, 110 kW/1500 rpm
Housing	: welded construction, stress-relieved
Bearings	: heavy-duty self aligning roller bearings
Lubrication	: grease lubrication; labyrinth seals to protect the bearings
Crusher swing	: welded construction, stress-relieved
Toggle plate	: hardened rolling surfaces
Crushing jaws	: cast of high-quality austenitic manganese steel; surface toothed; can be turned by 180° in case they are worn
Side wedges	: made of highly wear-resistant steel plates

including:

- Hydraulic gap adjustment via operation panel
- Drive parts
- Belt guard and fly-wheel protection device
- Regulation of crusher speed, 4 steps
- Bending zone, rigid execution

OPTION / Additional Equipment:

- g) Normal and reversing mode
- h) Automatic gap opening and resetting (entry of foreign bodies, overload protection)

001/004 Main Discharge Conveyor Belt

Belt width	: 1000 mm
Centre distance	: 11.4 m
Drive capacity	: 11 kW (drum motor)
Belt quality	: EP 500/3-10+3 (steel reinforced)
Scrapers	: plough scraper and hard metal strip
Discharge height	: 4.0 m

including:

- Hydraulically foldable for transport
- Hydraulically lowerable for maintenance purposes

001/005 Diesel Genset 200 kVA

Engine	: diesel engine EU-stage 5, capacity approx. 150 kW, with exhaust silencer and suction filter
Generator	: capacity 200 kVA, voltage 400/230 V, frequency 50 Hz
Display	: operation and status indicator
Housing	: housing with maintenance doors
Fuel tank	: executed as separate tank, content approx. 300 litres

OPTION / Additional Equipment:

- i) Diesel refuelling pump with automatic shut-off

001/006 Electrical Equipment with Control Unit and Cabling

- Switch cabinet as central control and monitoring unit
- 10" colour display with operator guidance and touch screen function for „human-machine communication“
- Easy plant operation with automatic start/stop device of the entire plant
- Automatic feeding regulation for uninterrupted operation
- Optimum crusher feeding due to selection of manual or automatic mode (
- Automatic start-up of the crusher even with filled crusher chamber
- Output of important machine data, indication of operating situations and malfunctions, operating hours and instructions in case of maintenance calls
- Frequency converter for vibrating feeder integrated in the switch cabinet
- Safety circuit with dual-channel emergency-off pushbuttons
- Flash warning light and signal horn to indicate important instructions for operation
- Energy supply via surge current generator with load regulation and temperature control

OPTIONS / Additional Equipment:

- j) 2 nos. LED-working lights
- k) „SBM Crush Control“- Monitoring via APP and web portal
- l) Mains/generator switch-over

001/007 Crawler Chassis FL6

- Crawler chain, width 400 mm, centre distance approx. 3310 mm
- Track gauge 2450 mm
- Travel speed approx. 20 m/min.
- Permitted gradient max. 30 %
- Hub planetary gear with axial piston motor

001/008 Hydraulics

Traction hydraulics with 2 axial-piston pumps
 37.0 kW electric motor for traction hydraulics
 4.0 kW electric motor for working hydraulics

including:

- Oil cooler
- Piping and tubing of the plant

001/009 Remote Control

for drive mode and control of the plant

001/010 OPTION / Additional Equipment:

m) Overbelt Magnet Separator Type CP 20/100

Permanent type, transverse parts removal,
 installed above the main discharge conveyor belt

Belt width : 800 mm
 Drive capacity : 1.5 kW
 Centre distance : 1970 mm
 Weight : 1100 kg

including

- Adjustable in height via remote control
- Discharge chute made of stainless steel
- Electrical connection and cabling pluggable

001/011 OPTION / Additional Equipment:

n) Discharge Conveyor Belt for Pre-screened Material

Belt width : 650 mm
 Centre distance : 4.7 m
 Drive capacity : 3 kW (drum motor)
 Scrapers : plough scraper and hard metal strip
 Discharge height : 2.8 m
 Weight : 670 kg

including:

- Hydraulically foldable for transport
- Electrical connection and cabling pluggable

001/012 Spaying Device

- Spaying tubes at inlet and outlet of the crusher

OPTIONS / Additional Equipment:

- o) Pump with electrical connection and cabling
- p) Additional dust suppression at the discharge of the conveyor belt

001/013 OPTION / Additional Equipment:

q) Belt Scale for Main Discharge Conveyor Belt