JAW CRUSHER B4

Keestrack cannot be held liable for incorrect information!
**DIMENSIONS**

**OPERATION:**

**TRANSPORT:**

**Weight:** approx. 44 t (without options)

- Weight options:
  - Magnetic separator lift able: 1,500 kg
  - Hopper wear plates: 478 kg
  - Conveyor pre-screening: 1,120 kg

- Transport width: 2.700 mm (8'10")

**REMARK:** All pictures might show options, not included in the scope of supply.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<td>15590</td>
<td>3800</td>
<td>2965</td>
<td>5900</td>
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<td>9'2&quot;</td>
<td>13'4&quot;</td>
<td>12'6&quot;</td>
<td>51'3&quot;</td>
<td>12'6&quot;</td>
<td>9'9&quot;</td>
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<tr>
<td>H</td>
<td>I</td>
<td>J</td>
<td>K</td>
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<td>3290</td>
<td>30°</td>
<td>1200</td>
<td>18°</td>
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<td>9'8&quot;</td>
<td>47'7&quot;</td>
<td>10'10&quot;</td>
<td>3'0&quot;</td>
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</tr>
</tbody>
</table>

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1) FEED HOPPER
- Content 5 m³
- Design Wear resistant steel HB 450
- Feeding height 4.070 mm (13’4”)
- Feeding width 2.965 mm (9’9”)
- Feeding length 2.800 mm (9’2”)
- Hopper walls hydraulically foldable for transport

2) VIBRATING FEEDER
- Length 2.300 mm (7’7”)
- Width 1.000 mm (3’3”)
- Drive Hydraulic 11 kW (15 hp)

3) DOUBLE DECK SCALPER
- Length 2.300 mm (7’7”)
- Width 1.000 mm (3’3”)
- Top deck 2 step Hexagonal or long holes
  Punched plate Apertures: 20 - 100 mm; s= 15 - 20 mm (3/4” - 4”)
- Bottom deck 1.750 x 1.000 mm with square mesh of choice
  - see list (end tensioned)
  - Intermediate fraction either in crusher bypass or separately stockpiled (with option p/n 164021)
  (lower deck bigger mesh than upper deck)
- Drive Hydraulic motor 11 kW; 700 – 1000 U/min (15 hp)

4) JAW CRUSHER
- Model 72 JCR with hydraulic management (gap adjustment and safety release system, patented N.S.S. = Non Stop System)
- Feed opening 1.100 x 700 mm (44” x 28”)
- Outlet adjustment C.S.S. min. - max. 45 - 160 mm (1 ¾ “ – 6 1/3 “)
- Throughput (*) See page 10; the throughput is variable according to feeding material and jaw crusher setting
- Feed size 0/600 mm (<2’)
- Throw swing jaw 29 mm for hard stone; 32 mm for recycling
- Weight of jaw crusher 18,5 ton (20,4 st)
- Plate height fixed jaw Toothed static jaw 1.325 mm Material: 18Mn2Cr
- Plate height movable jaw Toothed swing jaw 1.835 mm Material: 18Mn2Cr
- Flywheel diameter 1.200 mm; 1.200 kg/pcs (3’11”)

- REMARK Full hydraulic gap setting during operation!!!
TECHNICAL SPECIFICATION

5) MAIN BELT CONVEYOR

- Discharge height 3,800 mm (12'6")
- Stockpile volume Approx. 170 t (γ=1,7; 37° angle of repose)
- Length AD 11,400 mm (37'5")
- Width BW 1,000 mm (3'3")
- Belt speed 1,56 m/s
- Belt RIP STOP 500/3+2; Metal shield in the top cover for increased belt service life under hard working conditions
- Discharge to belt heavy duty rubber plates for discharge from crusher to main belt conveyor
- Inclination 8 - 20°
- Drive Hydraulic 15 kW (20 hp)
- Transport Hydraulically foldable

6) TRACK - UNIT

- Length 3,800 mm
- Width track shoe 400 mm
- Total width 2,500 mm
- 2 speeds 1,1 km/h and 2 km/h
- Drive Hydraulic piston pump and planetary gears

7) ENGINE UNIT

- Drive Diesel / Hydraulic
  a) JOHN DEERE 6.8 HF G 82 200 fixed speed p/n 141003
  b) VOLVO TAD 873 VE p/n 103477
- Emission control
  a) Tier 3; EU STAGE IIIA
  b) Tier 4F; EU STAGE IV; SCR, cooled EGR
- Power ISO 14396
  a) 212 kW / 1.800 rpm;
  b) 235 kW at 1.800 rpm
- Max. torque
  a) 984 Nm at 1.400 R.P.M.
  b) 1.310 Nm at 1.400 R.P.M.
- Engine operating speed 1.750 R.P.M. for low noise emission
- Bore hole / stroke
  a) 106 x 127; b) 110 x 135 mm
- Combustion chamber a) 6.800; b) 7.700 cm³
- Fuel consumption a) 215 g/kWh, typical 26 - 28 l/h **
- Voltage 24 Volt (for improved cold start properties)
- Cooling Water cooled
- Fuel Tank 450 Litres; fuel code acc. to EN 590
- Air filter Cyclone pre filter – dual stage fine filter
- Drive crusher Engine → axial piston pump (closed circuit)
  → hydraulic motor → V-belt drive for crusher drive
  300 Litres
- Hydraulic oil tank

ATTENTION

Engine warranty expires in case non genuine Keestrack filters are used!

With „Load sensing“ hydraulic pumps, the fuel consumption is reduced by Approx. 20-25%, compared to standard gear pump and flow divider hydraulic systems.
TECHNICAL SPECIFICATION

8) CONTROL

- Type
- Display
- Operation
- Controller
  PLC – IP 67; dust and vibration proof
  LCD screen 7”
  Control panel
  Wired hand remote controller; or optional Radio
  remote controller (see option list)

- Level sensor hydraulic
- Temperature control of hydraulic oil
- Diesel fuel tank level sensor
- Cold start protection
- Speed sensor for crusher
  Included; with low level protection
  > 83° C protection; first feeder stops, later engine
  stops
  First low level warning, then feeder stops, then
  engine stops
  Below 0° C a warm-up is required
  Included

9) FRAME

- Ease of service
  To obtain good and easy maintenance, the feeding
  and scalping unit can be moved hydraulically for
  allowing an access opening of 600 mm.

(*) The throughput is based on crushing dry limestone with appropriate size, having bulk density of 1,6 t/m³ and 200 MPa compressive strength. Bulk waste material will tend to change considerably the output in relation to his conditioning, size and quantity of metallic components contained.

Smaller C.S.S. values can be used only in specific applications for specific product and must first be approved in writing by Keestrack Technical department.

N.B.: Availability of chosen variants and options must always be checked up

(**) The fuel consumption depends on the feed material, machine setting, condition of wear parts, ...
10) DUST SUPPRESSION SYSTEM p/n 164018

- **Type**: CAS 91
- **Drive**: Hydraulic motor 1,1 kW
- **Water consumption**: Max. 0,75 m³/h
- **Spraying areas**: Crusher outlet and middle (optional end) of main conveyor
- **Nozzles**: 5 + 5, Hole 1,1 mm; 1,2 l/min at 3 bar

11) NEODYM MAGNETIC SEPARATOR

- **Type**: MAGNET OVERBAND 10 KT-ND 65-183 p/n 101347
  - MAGNET OVERBAND 10 KT-FE 65-183 p/n 101359
- **Belt width**: 700 mm (2’2”)
- **Belt length (AD)**: 1.830 mm (6’)
- **Magnet L x W**: 1.070 x 600 mm (3’6” x 1’11”)
- **Magnetic power**: 650 (500) GAUSS at 200 mm
- **Drive**: Hydraulic motor 4 kW (5,5 hp)
- **Speed**: 2,0 m/s
- **Lift able and lower able**: Hydraulic 150 up to 345 mm
- **Weight**: ND: 760 kg; FE: 863 kg
- **Belt**: Endless rubber belt KT Flex 400/1; 4+2,5; Grade RS; cleats vulcanized T 35 (40) mm
- **Bearings**: Inside arranged bearings at drive and take up drum to avoid hanging-in of tramp iron. Bearings are lubricated for life time (10.000 hours); so no more lubrication is necessary; double sealing with radial ring and V-ring
- **Frame and cladding**: Made of stainless steel to avoid reduction of magnetic forces

12) RADIO REMOTE CONTROL – Level 2 p/n 100370

- **Order no.**: Remote 103162
  - Sticker 101473
- **Functions**: - Tracks forwards / backwards proportional with automatic speed control
  - Belt feeder start / stop and + / -
  - Crusher gap open / close (C.S.S.)
  - MCL start / stop and + / -
  - Magnetic separator up / down
  - Automatic start / stop
  - Machine stop button (blue)
  - Display Crusher gap, Speed, Feeder, Alarms
**TECHNICAL SPECIFICATION - OPTIONS**

### 13) BUILT ON SINGLE DECK SCREEN with OSR, RUB, FCO

**p/n 649691**

**SCREENBOX**

48 SCR 100-00

- **Width**: 1,200 mm (3'11")
- **Length**: 2,800 mm (9'2")
- **Drive**: Hydraulic 7,5 kW (10 hp)
- **Tensioning system**: 2 screen nets, mechanically tensioned
- **p/n 649700**: Frame for secondary screening unit

### OVERSIZE CONVEYOR

72 OSR 100-00H

- **Length AD**: 2,850 mm (9'4")
- **Width BW**: 500 mm (1'8")
- **Drive**: Hydraulic 4 kW (5 hp)
- **Transport**: hydraulically fold-able

### RECYCLING CONVEYOR

72 RUB 100-00H

- **Length AD**: 6,500 mm (21'4")
- **Width BW**: 500 mm (1'8")
- **Belt speed**: Adjustable; standard 1,15 m/s
- **Inclination**: 25°
- **Drive**: Hydraulic 5,5 kW (7 hp)
- **Rubber belt**: Steep inclination belt (Chevron)
- **Transport**: Separately transported
- **Transport length**: 10,860 mm (35'8")

### FINES CONVEYOR

48 FCO 100-00 (p/n 689050)

- **Length AD**: 4,200 mm (13'9")
- **Width BW**: 1,000 mm (3'3")
- **Discharge height**: 3,100 mm (10'2")
- **Belt speed**: Adjustable; standard 1,15 m/s
- **Inclination**: 25°
- **Drive**: Hydraulic 7,5 kW (10 hp)
- **Stockpile volume**: Approx. 70 t (y=1,7; 37°)
- **For transport / service**: Hydraulically fold-able

### 14) SIDE BELT CONVEYOR FOR PRE-SCREEN

p/n 164021

- **Type**: LSC
- **Length AD**: 5,000 mm (16'5")
- **Width BW**: 800 mm (2'7")
- **Discharge height**: 2,955 mm (9'8")
- **Belt speed**: 1,15 m/s
- **Inclination**: 22°
- **Drive**: Hydraulic 5,5 kW (7,5 hp)
- **Stockpile volume**: Approx. 80 t (y=1,7; 37°)
- **For transport**: Hydraulically foldable for transport
- **Weight**: 1,120 kg (2.469 lb)
- **Conveyor arrangement**: Can be built on to the left and right side
TECHNICAL SPECIFICATION - OPTIONS

15) FEED HOPPER WITH WEAR PLATES p/n 164019
- Wear plates set 8 mm HB 450, fitted in the feed hopper
- Weight 478 kg

16) FUEL FILLING PUMP p/n 701030
- Weight 10 kg
- Model F 80-24-1"; with automatic filling stop
- Capacity 80 l/min
- Filter 3 micron with water absorbant media
- Suction hose ¾" 1,5 m long
- Drive On board-electric 24 V DC

17) CENTRAL GREASING SYSTEM p/n 164017
- Weight 6 kg (13 lb)
- Type Central greasing, 24 Volt DC
- Remark with adjustable lubrication intervals

18) MCL KT FLEX BELT p/n 164035
- Type KT-Flex 630/1; GRADE RS
- Advantages - Superior impact resistance comparable to that of a 4-ply EP belt type 1600/4.
- Superior rip resistance four times greater
- Superior tear resistance.

19) MCL LIFTING / LOWERING SYSTEM
- Increasing clearance below the crusher Optionally, the feeding section (p/n 808771) and for recycling applications discharge section (p/n 805134) can be lowered hydraulically

20) WORKING LIGHTS
- Tower with 4 lamps p/n 701006
  LED lights 12/24 V; 45 W
  each lamp: 9 pcs. LED's (p/n 205147)
  4500 Lumen
- protection degree IP69K
- Weight 9 kg (20 lb)
TECHNICAL SPECIFICATION - OPTIONS

21) DEFLECTOR

Deflector plate for recycling application (manually foldable)
p/n 807570; with HB 450 wear plates; 94 kg

Deflector plate for recycling application (hydraulically foldable)
p/n 807571; with HB 450 wear plates; 114 kg

22) WEAR RESISTANT RUBBER DISCHARGE CHUTE p/n 805809

- Type Fixed rubber discharge chute
- Made of rubber
- Arrangement At the crusher discharge
- Weight 57 kg (+120 lb)

23) HEATING SYSTEM FOR ENGINE p/n 203460

- Heating power up to 9,1 kW
- Fuel consumption 0,19 - 1,1 l/h
- Voltage / Watt 24V; 37-90 W
- Operating temperature -40°C - + 80°C
- Weight 4,8 kg (+ 11 lb)
- Additional incl. timer for 3 starting times and temperature pre-selection
24) UMTS MODEM WITH GPS TRACKING SYSTEM “KEESTRACKER”
(without SIM card) p/n 102971

- Functions
  - WEB portal: position of the machine can be displayed on Google Maps; a geo-fence can be generated.

FOR DEALER ONLY:
- Real time access to Diesel engine, parameters of components and alarms.

- option
  International ROAMING SIMCARD
  1 year limited data volume – p/n 880884

TRANSFER MACHINE DATA THROUGH KEESTRACKER

The Buyer will not transfer personal data to KEESTRACK. As part of the service, KEESTRACK will receive the following data regarding the machine through “Keestracker”, the tracking and controlling system of the machine in question:

- Location data of the machine
- Machine usage data (such as: performance of the engine and other functions)

The Buyer acknowledges that this information does not constitute confidential business information of the Buyer. The Buyer provides its explicit consent for this data collection and takes appropriate technical and organizational measures to ensure that natural persons cannot be identified by these mechanical data.

The Buyer explicitly acknowledges that this information is provided free of charge to KEESTRACK for the delivery of services offered by KEESTRACK and to adapt or improve its services and/or products.
**25) SCREENS for TOP DECK of PRE-SCREEN**

Punched plates

<table>
<thead>
<tr>
<th>p/n</th>
<th>Dimensions</th>
<th>Thickness s= [mm]</th>
<th>Hardness</th>
</tr>
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<tbody>
<tr>
<td>697145</td>
<td>LONG 22x100 mm</td>
<td>15</td>
<td>HB 450</td>
</tr>
<tr>
<td>697110</td>
<td>Hexagonal 20 mm</td>
<td>15</td>
<td>HB 450</td>
</tr>
<tr>
<td>697115</td>
<td>Hexagonal 30 mm</td>
<td>15</td>
<td>HB 450</td>
</tr>
<tr>
<td>697120</td>
<td>Hexagonal 40 mm</td>
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<td>HB 450</td>
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<tr>
<td>697125</td>
<td>Hexagonal 50 mm</td>
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<td>679175</td>
<td>Hexagonal 55 mm</td>
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<tr>
<td>697130</td>
<td>Hexagonal 60 mm</td>
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<td>HB 450</td>
</tr>
<tr>
<td>697135</td>
<td>Hexagonal 70 mm</td>
<td>20</td>
<td>HB 450</td>
</tr>
<tr>
<td>697140</td>
<td>Hexagonal 80 mm</td>
<td>20</td>
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</tr>
<tr>
<td>679170</td>
<td>Hexagonal 100 mm</td>
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**26) SCREENS for BOTTOM DECK of PRE-SCREEN**

Square mesh

<table>
<thead>
<tr>
<th>p/n</th>
<th>Dimensions</th>
<th>Thickness s= [mm]</th>
<th>Hardness</th>
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<tr>
<td>202746</td>
<td>10 x 10 x 3 mm</td>
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<td>202680</td>
<td>12 x 12 x 3 mm</td>
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<td>202681</td>
<td>15 x 15 x 3 mm</td>
<td>15</td>
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</tr>
<tr>
<td>202682</td>
<td>20 x 20 x 4 mm</td>
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<td>202677</td>
<td>22 x 22 x 4 mm</td>
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<td>202683</td>
<td>25 x 25 x 5 mm</td>
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<td>202684</td>
<td>30 x 30 x 5 mm</td>
<td>15</td>
<td>HB 450</td>
</tr>
<tr>
<td>202700</td>
<td>35 x 35 x 7 mm</td>
<td>20</td>
<td>HB 450</td>
</tr>
<tr>
<td>202793</td>
<td>40 x 40 x 8 mm</td>
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<td>HB 450</td>
</tr>
<tr>
<td>202879</td>
<td>50 x 50 x 8 mm</td>
<td>20</td>
<td>HB 450</td>
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</table>

**27) SCREENS for TOP DECK (2-WAY-SPLIT)**

Square mesh

<table>
<thead>
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<th>Dimensions</th>
<th>Thickness s= [mm]</th>
<th>Hardness</th>
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<tbody>
<tr>
<td>201995</td>
<td>40 x 40 x 8 mm</td>
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<td>202449</td>
<td>45 x 45 x 8 mm</td>
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<td>202143</td>
<td>50 x 50 x 8 mm</td>
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<td>202256</td>
<td>55 x 55 x 8 mm</td>
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<td>202058</td>
<td>60 x 60 x 8 mm</td>
<td>15</td>
<td>HB 450</td>
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<tr>
<td>202647</td>
<td>70 x 70 x 8 mm</td>
<td>15</td>
<td>HB 450</td>
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<td>202833</td>
<td>80 x 80 x 8 mm</td>
<td>15</td>
<td>HB 450</td>
</tr>
<tr>
<td>202903</td>
<td>90 x 90 x 10 mm</td>
<td>15</td>
<td>HB 450</td>
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INDICATIVE PRODUCT GRADATION AT CRUSHING GAP (C.S.S.):

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Title: INDICATIVE PRODUCT GRADATION AT CRUSHING GAP (C.S.S.):
Date: 22.04.2015

<table>
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<th>Feed material</th>
<th>Granite</th>
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<td>Feed size</td>
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<tr>
<td>Feed capacity</td>
<td>600</td>
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<tr>
<td>Crusher Type</td>
<td>JAW CRUSHER</td>
</tr>
</tbody>
</table>

Humidity (%) | Weight (humid) | Weight (dry) |

C.S.S. 45 mm
C.S.S. 60 mm
C.S.S. 80 mm
C.S.S. 100 mm
C.S.S. 120 mm
C.S.S. 140 mm

Screen chute
C.S.S. 45 mm
C.S.S. 60 mm
C.S.S. 80 mm
C.S.S. 100 mm
C.S.S. 120 mm
C.S.S. 140 mm
C.S.S. 180 mm

Cumulated percentage

Legend

Keestrack cannot be held liable for incorrect information!
**INDICATIVE PRODUCTION CAPACITY:**

*Production capacity is depending and based on:*
- Medium hard feed material with specific gravity of 2.7 t/m³ (bulk density 1.7-1.8 t/m³)
- Proper and constant feed
- Adequate feed size distribution without oversize
- Proper discharge of the crushed material

**EXAMPLE:** Feed material is granite (Wi=16). If the crusher is set to a C.S.S. of 100 mm, the max. production will be between 168 and 200 t/h. Considering the bulk weight of the material of 1,6 t/m³ (see TECHNICAL INFO Page 3), the production capacity will be between 168 / 1,6 = 105 m³/h and 200 / 1,6 = 125 m³/h. For Granite (Wi=16), the production will be in the middle range = approx. 184 t/h.

The actual production depends on the material. If the Work Index Wi (see also TECHNICAL INFO Page 3) is low (10-14), the production will be on the higher range. If Wi is medium (14-18), the production will be in the middle range. If Wi is high (18-22), the production will be in the lower range.

<table>
<thead>
<tr>
<th>WORK INDEX (Wi)</th>
<th>CRUSHABILITY</th>
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<tbody>
<tr>
<td>&lt;10</td>
<td>very soft</td>
</tr>
<tr>
<td>10-14</td>
<td>soft</td>
</tr>
<tr>
<td>14-19</td>
<td>medium</td>
</tr>
<tr>
<td>18-22</td>
<td>hard</td>
</tr>
<tr>
<td>&gt;22</td>
<td>very hard</td>
</tr>
</tbody>
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