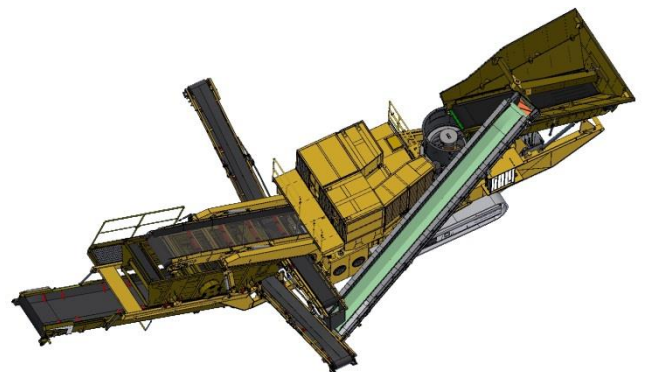
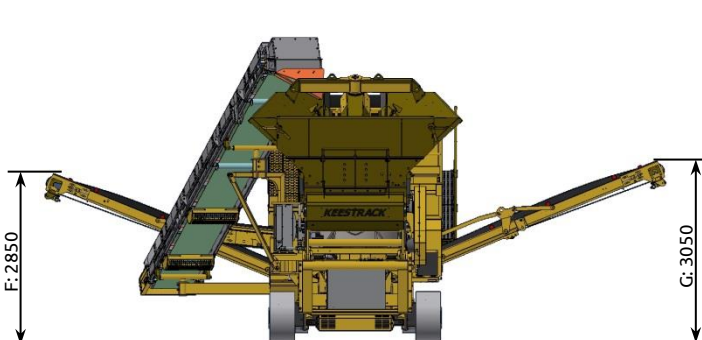
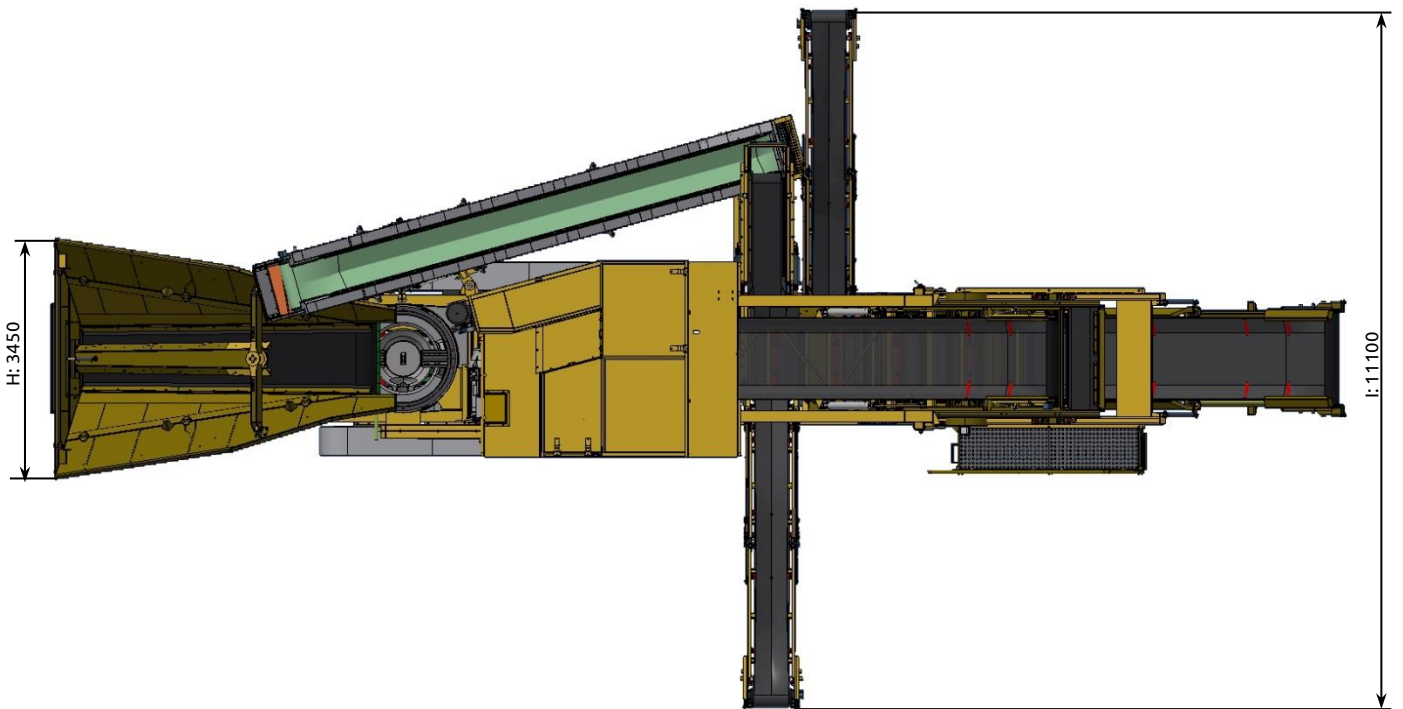
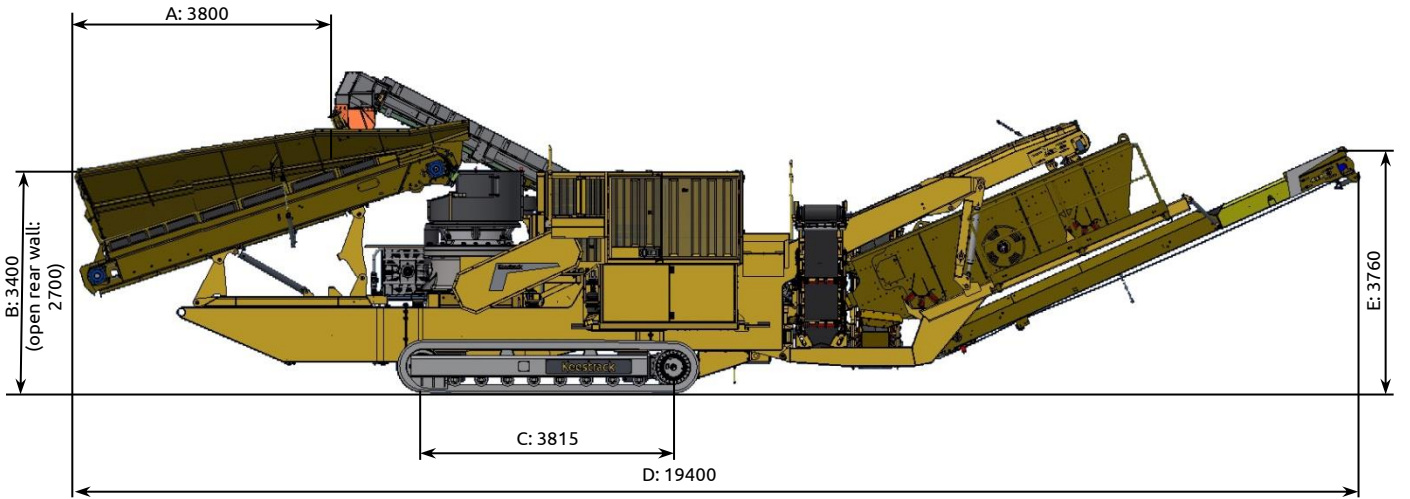


# CONE CRUSHER H4e



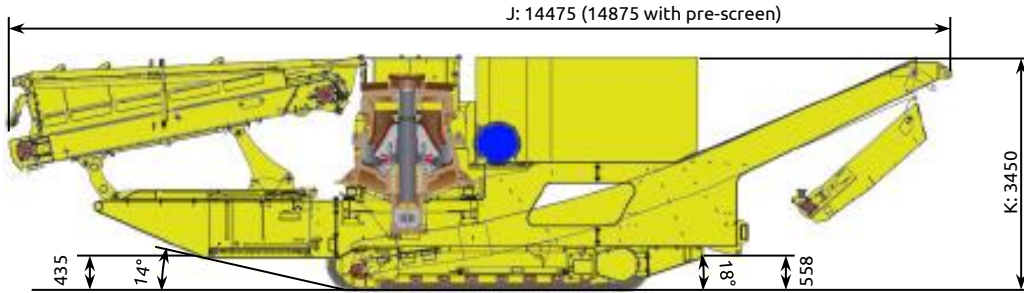
# DIMENSIONS

WITH 3-DECK SCREEN:

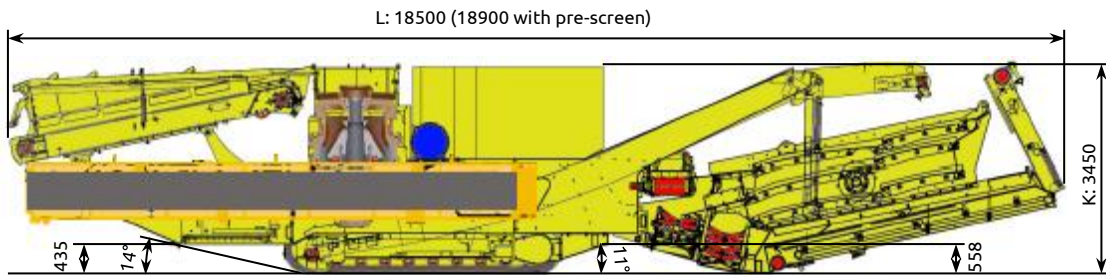


## TRANSPORT DIMENSIONS

### TRANSPORT WITHOUT 3-DECK SCREEN



### TRANSPORT WITH 3-DECK SCREEN



**Weight: approx. 35 t (without options)**

Weight options:	
Pre-screen with fines stockpile conveyor	2.500 kg
3 Deck screen with conveyors	5.430 kg
Oversize return conveyor	1.870 kg
Hopper wear plates	618 kg
Hopper extension	715 kg

**Transport width** **3.000 mm (9'10")**

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

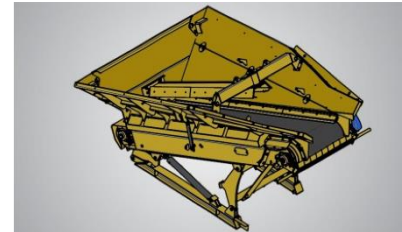
A	B	C	D	E	F	G	H	I	J
3800	3400	3815	19400	3760	2850	3050	3450	11100	14475
12'6"	11'2"	12'6"	63'8"	12'4"	9'4"	10'0"	11'3"	36'5"	47'6"
K	L								
3450	18500								
11'4"	60'8"								



## TECHNICAL SPECIFICATION

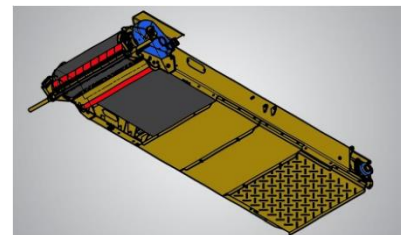
### 1) FEED HOPPER

- Type	57 BFR 3 020000-000	
- Content	8 m <sup>3</sup>	(9 yard <sup>3</sup> )
- Design	Wear resistant steel HB 450	
- Feeding height	3.400 mm (2.700 mm open rear wall)	(11'2"; 8'10")
- Feeding width	3.450 mm	(11'3")
- Feeding length	3.800 mm	(12'6")
- Hopper load release	Longitudinal bar (for transport dismantled)	



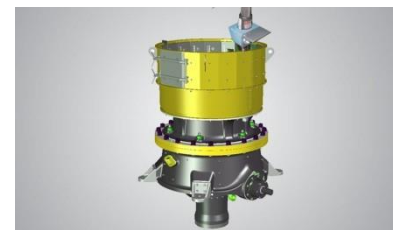
### 2) BELT FEEDER

- Type	57 BFR 3 000000-000	
- Axle distance	5.400 mm	(17'9")
- Belt width	1.200 mm	(3'11")
- Drive	Hydraulic motor 7,5 kW with gearbox; speed adjusted acc. to crusher load 0-16 m/min 20 - 100 Hz; 2,6 - 13,2 m/min	(11 hp)
- Metal detector	System EGE 3000 with MDV amplifier, sensitivity adjustment 1 - 10 (Option)	



### 3) CONE CRUSHER

- Type	KT-H4, contract manufactured by SANDVIK	
- Max. feed size	EC: 185 mm; C: 145 mm; MC: 115 mm; M: 90 mm; MF: 75 mm; F: 50 mm; EF: 35 mm	(7")
- Weight	9,2 ton	(14 st)
- Capacity	27 - 208 t/h	
- Setting C.S.S.	EC+C: 13-38 mm; MC+M: 10-32 mm; MF: 8-25 mm; F: 6-25 mm; EF: 80%<5,6	(3'0") (3/4-1,5")
- Throw	Standard bushing 22/25/29 mm; optional 16/20/22 or 29/32/34/36 mm bushing	
- Safeties	Automatic release system for uncrushables Rotational indication of drive for cone crusher Slip control of drive for cone crusher	
- Filling level	Measured with ultrasonic sensor	
- Capacity control	Automatically acc. to filling level, and engine load	
- Wear indication	Automatic, on the display	



### 4) MAIN BELT CONVEYOR

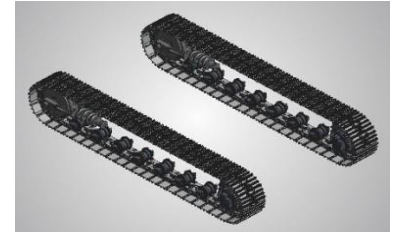
- Discharge height	4.000 mm	(11'0")
- Stockpile volume	approx. 200 t; $\gamma=1,7$ ; 37° angle of repose	
- Length AD	10.500 mm	(34'5")
- Width BW	1.000 mm	(3'3")
- Belt speed	1,6 m/s	
- Inclination	20°	
- Drive	E-drum motor 11 kW	(15 hp)
- Speed control	Rotational indication via pinch roll	
- Rubber belt quality	FLEXIFER EP 500/4 5+2	
- Transport	Hydraulically fold-able	



## TECHNICAL SPECIFICATION

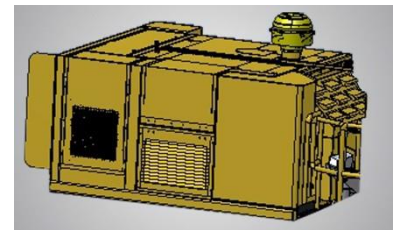
### 5) TRACK - UNIT

- Type	55 TRA 000000-000	
- Length	3.815 mm	(12'6")
- Width track shoe	400 mm	(1'4")
- Total width	2.770 mm	(9'1")
- 2 speeds	0,75 km/h and 1,5 km/h	(0,5 / 0,8 mph)



### 6) ENGINE UNIT

- Diesel engine, Type	a) VOLVO TAD 1354 GE fixed speed b) VOLVO TAD 1371 VE	(p/n101615) (p/n101617)
- Emission control	a) Tier 3 EU STAGE IIIA; int. EGR b) Tier 4f EU STAGE IV; EGR, SCR add blue	
- Power ISO 14396	a) 328 kW / 1.500 rpm b) 285 kW / 1.200 – 1.900 rpm;	(446 hp) (388 hp)
- Max. torque	a) approx. 2.090 Nm at 1.500 R.P.M. b) 1.965 Nm at 1.200 R.P.M.	
- Engine revolution	1.500 R.P.M.	
- Bore hole / stroke	131 x 158 mm	(5,2" x 6,2")
- Combustion consumption	a) 12.800 cm <sup>3</sup> ; b) 12.800 cm <sup>3</sup>	(780 in <sup>3</sup> )
- Diesel consumption	b) 199 g/kWh at 1.600 R.P.M.	
- Voltage	24 Volt (for improved cold start properties)	
- Cooling	Combi cooler (water, air, diesel, hydraulic) For cleaning purpose fold-out easily	
- Fuel	Tank 792 Litres; fuel code acc. to EN 590	(206 gal)
- Air filter	Cyclone pre-filter + dual stage fine filter	
- Drive crusher	Engine → power transmission gear (ratio 1/1,2; Pump with oil filter for lubrication of gear) → alternator → E-motor 132 kW for crusher drive via V-belts	
- Drive Hydraulic	E-motor 45 kW for track drive, fans drive, 3-deck screen and BFR	
- Alternator	330 kVA at 50 Hz - 1.500 R.P.M.; for driving all other operating components except fans	
- External power supply	plug connection 63 A (Approx. 38 kW)	
- Hydraulic oil tank	120 Litres	(32 gal)
- Power plug-in	For drive of the crusher from external power sources (net), a plug-in is foreseen: 3 Phase, 400V; 50 Hz; 200 kVA	



Combi cooler fold-out



Power Lock  
5 Lines L1; L2;  
L3; N; Earth

### - DROP-OFF UNIT

lower service costs due to less dust emission to filters; lower noise level at the machine; perfect access for maintenance

### ATTENTION

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



**DROP-OFF Unit**

## TECHNICAL SPECIFICATION

### 7) CONTROL

- Type PLC – IP 67; dust and vibration proof
- Display LCD screen 12"
- Operation Control panel
- Controller Wired hand remote controller; or optional Radio remote controller (see option list)
  
- Temperature control of hydraulic oil > 83° C protection; first feeder stops, later engine stops
- Diesel fuel tank level sensor First low level warning, then feeder stops, then engine stops
- Cold start protection Below 0° C a warm-up is required with installed E-heaters 2 x 1.500 W
  
- Control cone crusher
 

The Hydroset system provides safety and setting adjustment functions, and incorporates a heavy-duty hydraulic cylinder which supports the main shaft and adjusts its position.

The Hydroset system provides automatic overload protection to permit the passage of tramp iron or other uncrushable material. The system then automatically returns the main shaft smoothly to its original position.

The cone crusher is equipped with the automatic setting system. The actual crushing load inside the crusher is continuously monitored. This makes it possible to optimize crusher utilization allowing you to squeeze the ultimate performance from your machine at all times.



### 8) HEATING SYSTEM LUBE OIL TANK p/n 701017

- Heating power Up to 9,1 kW; (12,4 hp)
- Fuel consumption 0,19 - 1,1 l/h
- Voltage 24V
- Power consumption 37-90 W
- Operating temperature -40°C - + 80°C
- Weight 5,3 kg
- Additional Incl. timer for 3 starting times and temperature pre-selection

HEATING SYSTEM FOR LUBE OIL TANK



### 9) METAL DETECTOR p/n 654450 (STANDARD)

- Type EGE 3000 with MDV amplifier, sensitivity adjustment 1-10 (22 lb)



## TECHNICAL SPECIFICATION - OPTIONS

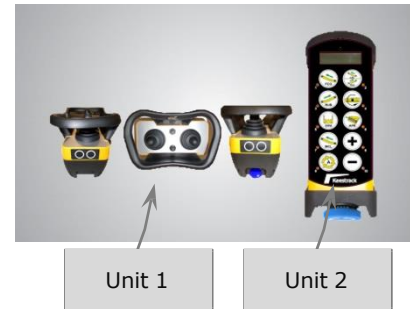
### 10) DUST SUPPRESSION SYSTEM (p/n 204726)

- Type	CA 91 A	
- Spraying area	Main conveyor discharge	
- Drive	E-motor 0,75 kW; 2.900 R.P.M.	(1,0 hp)
- Water consumption	Max. 0,75 m³/h	
- Weight	45 kg	(100 lb)



### 11) RADIO REMOTE CONTROL DUO 10F PRO + JOYSTICK – Level 3

- Order no.	Remote 102995 Sticker 103340
- Functions	<p>Unit 1:</p> <ul style="list-style-type: none"> <li>- Tracks forwards / backwards proportional with automatic speed control</li> </ul> <p>Unit 2:</p> <ul style="list-style-type: none"> <li>- Crusher gap C.S.S. +/-</li> <li>- Belt feeder start / stop and + / -</li> <li>- FCO start / stop</li> <li>- LSC start / stop</li> <li>- RSC start / stop</li> <li>- RUB start / stop</li> <li>- SCR start / stop</li> <li>- MCL start / stop</li> <li>- Automatic start / stop</li> <li>- Machine stop button (blue)</li> <li>- Display</li> </ul>

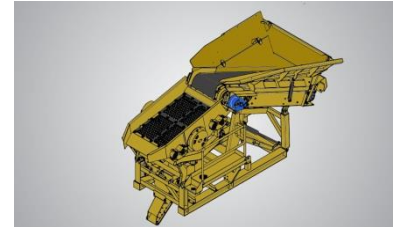


## TECHNICAL SPECIFICATION – OPTIONS

### 12) PRE-SCREEN with FINES CHUTE p/n 645060

#### HOPPER

- Type	57 BFS 000000-000	
- Content	5 m <sup>3</sup>	(5,5 yard <sup>3</sup> )
- Design	Wear resistant steel HB 450	
- Feeding height	3.900 mm (3.300 mm open rear wall)	(11'10" - 10')
- Feeding width	3.720 mm	(12'2")
- Feeding length	2.550 mm	(8'4")



#### BELT FEEDER

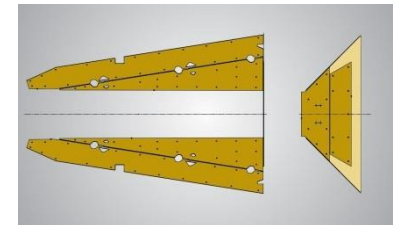
- Type	57 BFS 2 010000-000	
- Axle distance	3.080 mm	(10'1")
- Belt width	1.000 mm	(3'3")
- Drive	E-motor with gear 7,5 kW	(11 hp)

#### 1 DECK PRE-SCREEN

- Type	57 SCS 100-00	
- Width	1.200 mm	(4')
- Length	1.800 mm (with feeding tray 2000 mm)	(6')
- Drive	E-motor 7,5 kW with V-belts and joint shaft	(11 hp)
- Deck	punched plate, opening 22-45 mm	(2")
- Fines discharge	rubber skirt for feeding in crusher bypass to the main discharge conveyor	
- Weight	1.700 kg (additional weight feeder, screen)	(3.750 lb)
- Transport length	+400 mm	(+1'4")

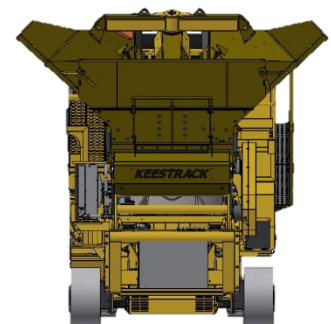
### 13) FEED HOPPER WITH WEAR PLATES p/n 664770

- Wear plates	set 8 mm HB 450; bolted on the feed hopper	
- Weight	618 kg	(1.362 lb)



### 14) FEED HOPPER EXTENSIONS p/n 806657 (X101801; X101825; X101826)

- Sides	Left, and right side, rear side	
- Height	approx. 530 mm	(1'9")
- Length	approx. 2.300 mm	(7'7")
- Weight	approx. 400 kg	(880 lb)
- Volume	approx. 8 m <sup>3</sup> + 4 m <sup>3</sup> = approx. 12 m <sup>3</sup>	(15 yard <sup>3</sup> )
- Material	HB 450	(10'3")
- Feeding width rear	approx. 4.100 mm	(13'5")

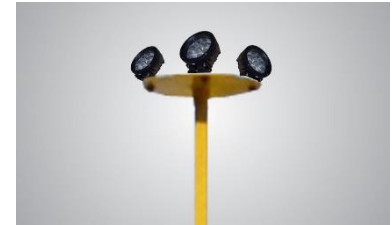




## TECHNICAL SPECIFICATION – OPTIONS

### 15) WORKING LIGHTS

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



### 16) FUEL FILLING PUMP p/n 701030

- |                       |                                     |         |
|-----------------------|-------------------------------------|---------|
| - with automatic stop |                                     |         |
| - Weight              | 10 kg                               | (22 lb) |
| - Model               | F 80-24-1"                          |         |
| - Capacity            | 80 l/min                            |         |
| - Filter              | 3 micron with water absorbant media |         |
| - Suction hose        | 3/4" 1,5 m long                     |         |
| - Drive               | On board-electric 24 V DC           |         |



### 17) 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.



### 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)

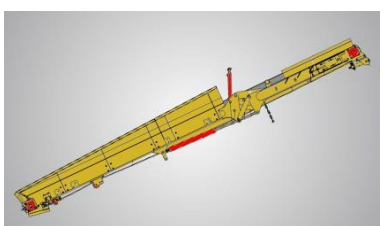
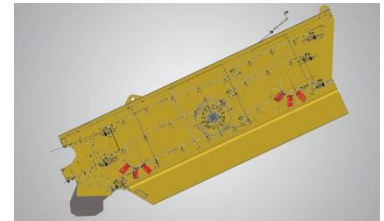
The Buyer acknowledges that this information does not constitute confidential business information of the Buyer. The Buyer provides its explicit consent for this data collection and takes appropriate technical and organizational measures to ensure that natural persons cannot be identified by these mechanical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

## TECHNICAL SPECIFICATION – OPTIONS

### 18) BUILT ON 3 DECK SCREEN with OSR, RUB, RSC, LSC and FCO

<b>SCREENBOX</b>	p/n 807890	
- Length x width	3.600 mm x 1.500 mm	(12' x 5')
- Effective screen area	3 x 5,4 m <sup>2</sup>	
- Screen	Steel wire: Each deck 2 pcs. end tensioned	
- Drive	Hydraulic motor 11 kW, 1.460 R.P.M with V-belts and joint shaft for 1.080 R.P.M.	(15 hp)
- Access walkway	On the right side; for transport hydraulically foldable; width 600 mm; with ladder	
<b>OVERSIZE CONVEYOR</b>	Left side	
- Length AD	2.850 mm	(9' 4")
- Width BW	500 mm	(1' 8")
- Drive	E-drum motor 3 kW	(4 hp)
- Transport	Hydraulically foldable	
<b>RECYCLING CONVEYOR</b>	Left side	
- Length AD	8.500 mm	(27' 11")
- Width BW	650 mm	(2' 1")
- Belt speed	1,7 m/s	
- Inclination	26°	
- Drive	E-drum motor 5,5 kW	(7,5 hp)
- Max capacity	120 t/h	
- Rubber belt	EP 400/3 4+2 V-450 (Chevron)	
- Transport	On the machine, fixed by using wheel loader	
<b>MIDDLE FRACTION FINE CONVEYOR</b>	Left side	
- Length AD	6.000 mm	(19' 8")
- Width BW	500 mm	(1' 8")
- Drive	E-drum motor 5,5 kW	(7,5 hp)
- Discharge height	2.850 mm	(9' 4")
- Stockpile volume	Approx. 70 t (y=1,7; 37°)	
- Transport	Hydraulically foldable	
<b>MIDDLE FRACTION COARSE CONVEYOR</b>	Right side	
- Length AD	6.000 mm	17' 9")
- Width BW	500 mm	(1' 8")
- Drive	E-drum motor 5,5 kW	(7,5 hp)
- Discharge height -	3.050 mm	(10' 0")
Stockpile volume -	Approx. 90 t (y=1,7; 37°)	
Transport	Hydraulically foldable	
<b>FINES CONVEYOR</b>		
- Length AD	6.800 mm	(22' 3")
- Width BW	1.200 mm	(4' 0")
- Discharge height	3.760 mm	(12' 4")
- Belt speed	1,6 m/s	
- Drive	E-drum motor 5,5 kW	(11 hp)
- Stockpile volume	Approx. 165 t (y=1,7; 37°)	
- For transport	Hydraulically fold-able (also for service)	



## TECHNICAL SPECIFICATION – SCREEN CHOICE

### 18) SCREENS for PRE-SCREEN

Punched plates

p/n	Dimensions	
665090	22 mm hexagonal	HB 450
644875	28 mm hexagonal	HB 450
816053	33 mm hexagonal	HB 450
643783	45 mm hexagonal	HB 450



### 19) SCREENS for AFTER SCREEN TOP DECK

Square mesh set

p/n	Dimensions
202659	24 x 24 x 5 mm
202110	25 x 25 x 5 mm
202560	28 x 28 x 6 mm
882248	33 x 33 x 7 mm
202155	35 x 35 x 7 mm
202113	50 x 50 x 8 mm
202398	70 x 70 x 10 mm



### 20) SCREENS for AFTER SCREEN MIDDLE and BOTTOM DECK

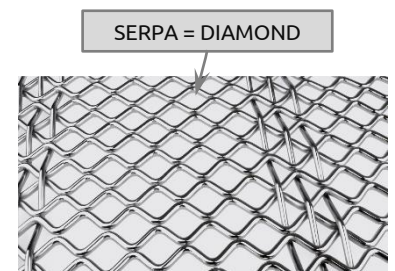
Square mesh set

p/n	Dimensions
202230	6 x 6 x 2 mm
202621	9 x 9 x 2,5 mm
202107	12 x 12 x 2,5 mm
202726	12 x 12 x 4 mm
202153	18 x 18 x 4 mm
202109	20 x 20 x 4 mm
202659	24 x 24 x 5 mm
202110	25 x 25 x 5 mm
202560	28 x 28 x 6 mm
882248	33 x 33 x 7 mm
202155	35 x 35 x 7 mm
202113	50 x 50 x 8 mm
202398	70 x 70 x 10 mm



SERPA DIAMOND

p/n	Dimensions
202263	HARP SERPA 12 x 200 x 3 mm



## TECHNICAL SPECIFICATION - CAPACITY

Con-cave type	Max. feed size [mm]	Capacity [T.P.H.]* at C.S.S. [mm]									
		6	8	10	13	16	19	22	25	32	38
EC	185				69-108	75-150	80-161	86-171	91-182	104-208	115-208
C	145				66-131	71-142	76-152	81-162	86-173	98-197	109-150
MC	115			57	62-140	67-151	72-162	77-173	82-184	93-145	
M	90			64-84	69-131	75-142	80-152	86-162	91-154	104	
MF	75		61	65-106	70-115	76-124	81-126	87-114	92		
F	50	48-78	51-83	54-88	59-96	63-103	68-105	72-95	77		
EF	35	70-90 T.P.H. with ca. 80% finer than 5-5,6 mm									

\*) Performance figures are approximate and give an indication of what the crusher can produce. They apply to open circuit crushing of dry material with a bulk density of 1600 kg/m<sup>3</sup>. It is assumed that material much finer than the crusher's closed side setting (CSS) is removed from the feed.

Consult us regarding the application of the crusher since the chosen eccentric throw, degree of reduction, the material's crushability (W), the size analysis of the feed, the design of any recrushing circuit and the moisture content in the feed all affect performance of the crusher.

