

Keestrack

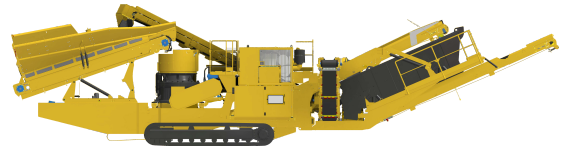


Performance in every detail

H4 CONE CRUSHER

| **Belgium** | **Czech** | **China** | **Italy** | **India** | **USA** |

H4 CONE CRUSHER



TECHNICAL SPECIFICATIONS

Feed hopper	
Capacity	8 m ³
Wear lining	HB 450
Height	3.400 mm
Belt feeder	
Dimension (width x length)	1.200 x 5.400 mm
Crusher	
Maximum feed size	185 mm
Throughput capacity	Up to 208 t / h
Setting C.S.S.	6 - 38 mm
Drive	Electric direct drive, 132 kW
Track-unit	
Dimension (width x length)	400 x 3.815 mm
2 speeds	0,75 - 1,5 km / h

Mainbelt conveyor	
Dimension (width x length)	1.000 x 10.500 mm
Discharge height	4.000 mm
Speed	1,6 m / s
For transport	Hydraulically foldable
Engine unit	
Power	313 kW / 1.500 rpm
Fuel tank	792 l
Hydraulic oil tank	120 l
Control	
Type	PLC - IP67
Display	12" LCD
Controller	Remote control

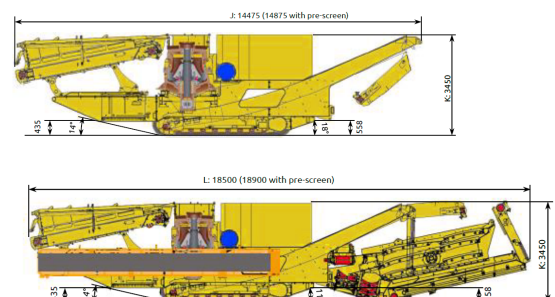
OPTIONS

After screen system	
Screen type	3 deck
Dimension (width x length)	1.500 x 3.600 mm
Return conveyor (width x length)	650 x 8.500 mm
Middle fraction fine conveyor (width x length)	500 x 6.000 mm
Middle fraction coarse conveyor (width x length)	500 x 6.000 mm
Fines conveyor (width x length)	1.200 x 6.800 mm
Discharge height	3.760 mm
Pre-screen	
Screen type	Single deck
Dimension (width x length)	1.200 x 1.800 mm

Dust suppression system	
Spraying area	Main conveyor discharge
Water pump	1,1 kW
Metal detector	
Detection sensitivity	Adjustable
Heating system lube oil tank	
Power	Up to 9,1 kW
Fuel filling pump	
Flow capacity	80 l / min
Radio remote control	
Type	Handheld, multi functions remote control
Working light	
No. of lamps	4 pieces

TRANSPORT DIMENSIONS AND WEIGHT

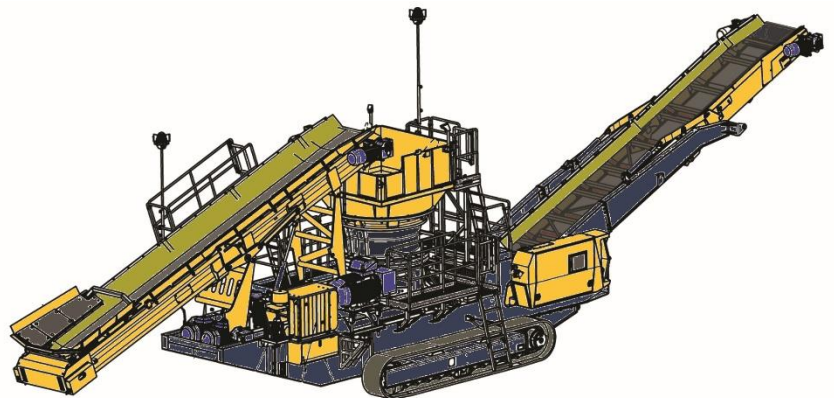
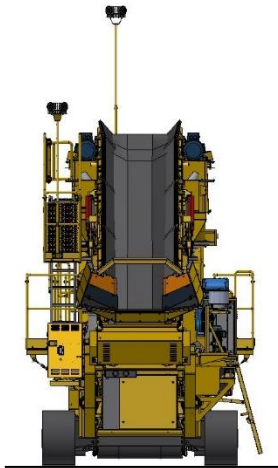
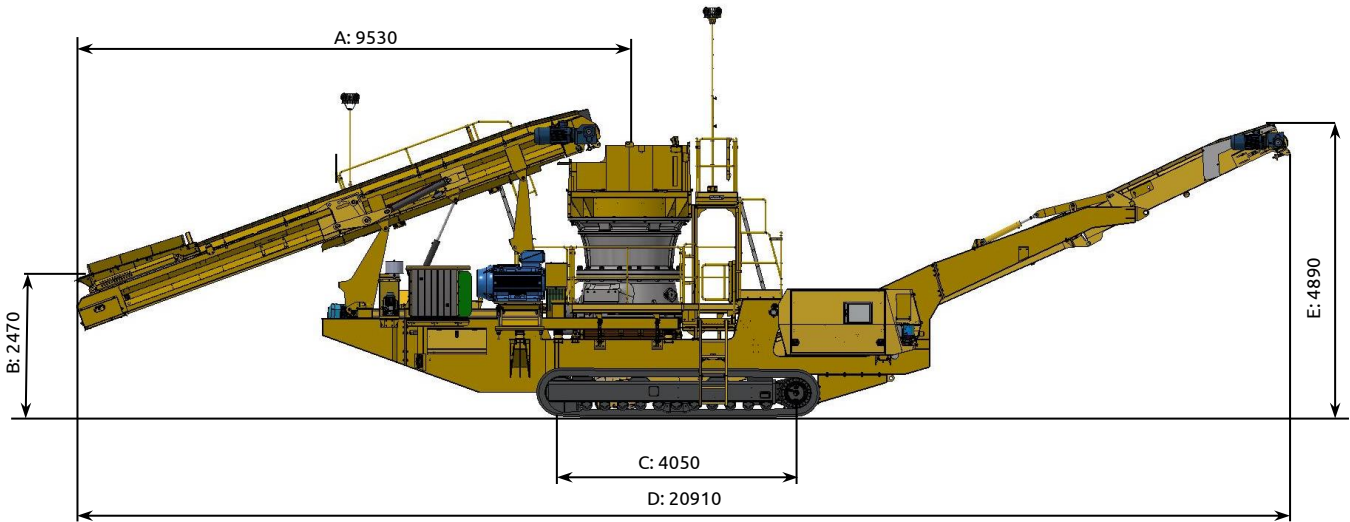
Length	: 14.475 mm / 18.500 mm (with screen)
Height	: 3.450 mm
Width	: 3.000 mm
Weight	: 35 t / 46 t (with options)



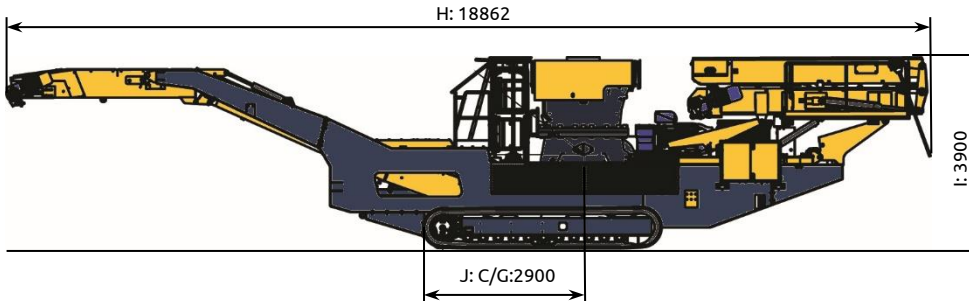
CONE CRUSHER H6_{se}



DIMENSIONS



TRANSPORT DIMENSIONS



Weight: approx. 45,5 t (without options)

Weight options:

Engine unit

5.500 kg

Transport width

2.995 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
9530	2470	4050	20910	4890	1800	3670	18862	3900	2900
31'3"	8'1"	13'3"	68'7"	16'1"	5'11"	12'	61'11"	12'10"	9'6"

TECHNICAL SPECIFICATION

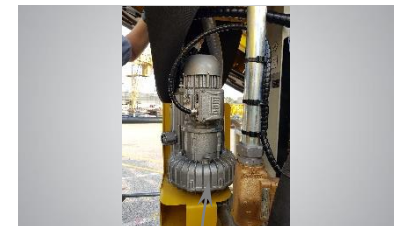
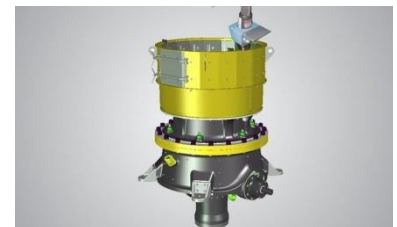
1) BELT FEEDER

- Type	84 BFC 100-00-00	
- Feed capacity	600 t.p.h.	
- Axle distance AD	9.000 mm	(29'6")
- Belt width BW	1.000 mm	(3'3")
- Drive	E-gear motor 2 x 11 kW with gearbox; with frequency inverter 0,7 – 1,6 m/s	(2 x 15 hp)
- Inclination	20°	
- Metal detector	System EGE 3000 with MDV amplifier, sensitivity adjustment 1 - 10 (Option)	
- Transport	hydraulically foldable	



2) CONE CRUSHER

- Type	KT-H6s, contract manufactured by SANDVIK	
- Max. feed size	EC: 500 mm; C: 440 mm; MC: 335 mm;	(1'8"; 1'5"; 1'1")
- Weight	19,3 ton	(21,3 st)
- Capacity	245 - 503 t/h	
- Setting C.S.S.	EC: 35-54 mm; C: 32-51; MC: 29-51 mm;	(1,4-2,1")
- Throw	Standard bushing 20/25/30/36 mm	
- Safeties	Automatic release system for uncrushable, Rotational indication of drive for cone crusher, Slip control of drive for cone crusher	
- Filling level	Measured with ultrasonic sensor (2 nd sensor optional)	
- Capacity control	Automatically acc. to filling level, and engine load	
- Wear indication	Automatic, on the display	
- Pressurised crusher housing	prevent entry of dust	



pressurising system

3) MAIN BELT CONVEYOR

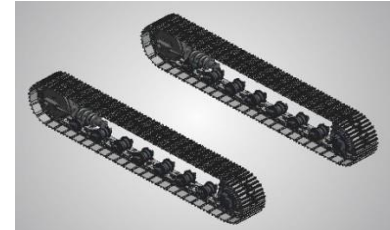
- Type	84 MCL 100-00	
- Feed capacity	600 t.p.h.	
- Discharge height	4.890 mm	(16'1")
- Stockpile volume	approx. 350 t; $\gamma=1,7$; 37° angle of repose	
- Length AD	12.440 mm	(41')
- Width BW	1.200 mm	(3'3")
- Belt speed	1,6 m/s	
- Inclination	25°	
- Drive	E-drum motor 2 x 11 kW	(2 x 15 hp)
- Speed control	rotational indication via pinch roll	
- Rubber belt quality	FLEXIFER EP 630/4 6+2	
- Transport	hydraulically fold-able	



TECHNICAL SPECIFICATION

4) TRACK - UNIT

- Type	83 TRA 100-00	
- Length	4.055 mm	(13'4")
- Width track shoe	500 mm	(1'8")
- Total width	2.995 mm	(9'10")
- 2 speeds	1 km/h and 2 km/h	(0,6 / 1,2 mph)



5) CONTROL

- Type	PLC – IP 67; dust and vibration proof
- Display	TFT Display 12", IP 67
- 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
- Control cone crusher	The Hydrosset system provides safety and setting adjustment functions, and incorporates a heavy-duty hydraulic cylinder which supports the main shaft and adjusts its position.



The Hydrosset 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.

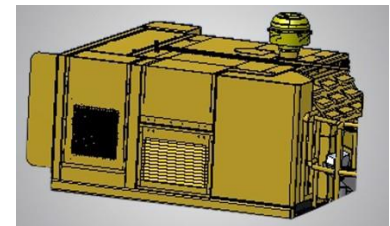
TECHNICAL SPECIFICATION - OPTIONS

6) ENGINE UNIT

EU = Europe / US = United States
REM = ROW - Rest of World (except China and India)

Legend:
(a) = actual; (s) = standard; (o) = optional

- Diesel engine, Type	a) CUMMINS X12 (EU + US) - (s) b) CUMMINS X12 (REM) - (s)	p/n P100395 p/n
- Emission control	a) Tier 4f; EU STAGE V; DOC / SCR / DPF b) Tier 3; EU STAGE IIIA	
- Power ISO 14396	a) 352 kW @ 1.500 R.P.M.; 382 kW @ 1.800 R.P.M. b) 352 kW @ 1.500 R.P.M.; 382 kW @ 1.800 R.P.M.	(479 / 520 hp) (479 / 520 hp)
- Max. torque	a) 2.240 Nm @ 1.500 R.P.M.; 2.030 Nm @ 1.800 R.P.M. b) 2.240 Nm @ 1.500 R.P.M.; 2.030 Nm @ 1.800 R.P.M.	(1.652 and 1.497 lbft)
- Engine revolution	1.500 R.P.M.	
- Bore hole / stroke	a + b) 132 x 144 mm	
- Combustion chamber	a + b) 11.800 cm ³	(720 cu in)
- Diesel consumption	a + b) 206 g/kWh @ 1.800 R.P.M.	
- Voltage	24 Volt (for improved cold start properties)	
- Cooling	Combi cooler (water, air, diesel, hydraulic)	
- Fuel	Tank 425 Litres; fuel code acc. to EN 590	(112 gal)
- Air filter	Cyclone pre-filter + dual stage fine filter	
- Drive crusher	Motor → alternator → E-motor 220 kW for crusher drive via V-belts;	
- Drive Hydraulic	E-motors 2 x 45 kW for track drive, fans drive, 3-deck screen and BFR	
- Alternator	450 kVA (IP 67); 50 Hz - 1.500 U/min; for driving all other operating components except fans, SCR and BFR	
- Plug-out	plug connection 125 A	
- 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; 400 kVA	
- DROP-OFF UNIT	lower service costs due to less dust emission to filters; lower noise level at the machine; perfect access for maintenance	
ATTENTION	<i>Engine warranty expires in case non genuine Keestrack filters are used!</i>	
Weight	5.500 kg	(12.100 lb)



Plug In:
Power Lock
4 Lines L1; L2;
L3; Earth



DROP-OFF Unit

TECHNICAL SPECIFICATION - OPTIONS

7) DUST SUPPRESSION SYSTEM (p/n 657580)

- Type	CA 91 A	
- Spraying area	Main conveyor discharge	
- Drive	E-motor 0,75 kW	(1,0 hp)
- Water consumption	Max. 0,75 m³/h	
- Weight	45 kg	(99 lb)



8) METAL DETECTOR p/n 654450

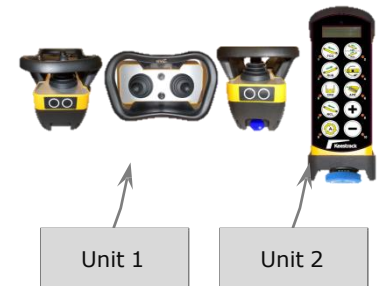
- Type	EGE 3000 with MDV amplifier, sensitivity adjustment 1-10	(22 lb)
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9) RADIO REMOTE CONTROL DUO 10F PRO + JOYSTIC

- Order no.	Remote 102995
	Sticker 103340

Functions	<p>Unit 1:</p> <ul style="list-style-type: none"> - Tracks forwards / backwards proportional with automatic speed control <p>Unit 2:</p> <ul style="list-style-type: none"> - Crusher gap C.S.S. +/- - Belt feeder start / stop and +/- - FCO start / stop - LSC start / stop - RSC start / stop - RUB start / stop - SCR start / stop - MCL start / stop - Automatic start / stop - Machine stop button (blue) - Display
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TECHNICAL SPECIFICATION – OPTIONS

10) HEATING SYSTEM LUBE OIL TANK p/n 203460

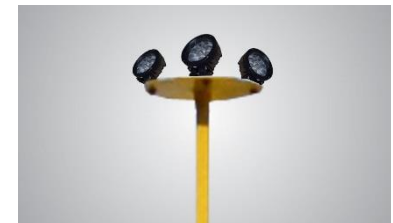
	for pre-heating of the lub oil if the temperature is below zero (up to 10°C)	
- Heating power	up to 9,1 kW;	(12,4 hp)
- Fuel consumption	0,19 - 1,1 l/h	
- Voltage	24V	
- Power consumption	37-90 W	
- Operating temperature	-40°C - + 80°C	
- Weight	5,3 kg	
- Additional	Incl. timer for 3 starting times and temperature pre-selection	



HEATING SYSTEM FOR LUBE OIL TANK

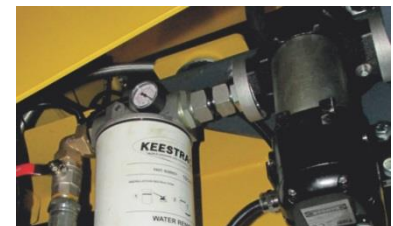
11) WORKING LIGHTS p/n 701006

	p/n 701006	
- Tower with 4 lamps	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)



12) FUEL FILLING PUMP p/n 101945 or 701030

- with automatic stop	p/n 701030	
- Weight	10 kg	(22 lb)
- Model	F 80-24-1"	
- 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	



13) UMTS MODEM WITH GPS TRACKING SYSTEM "KEESTRACKER" p/n 102971

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

- Real time access to Diesel engine, parameters of components and alarms
- SIM Card integrated, for 1 year free of charge



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 - CAPACITY

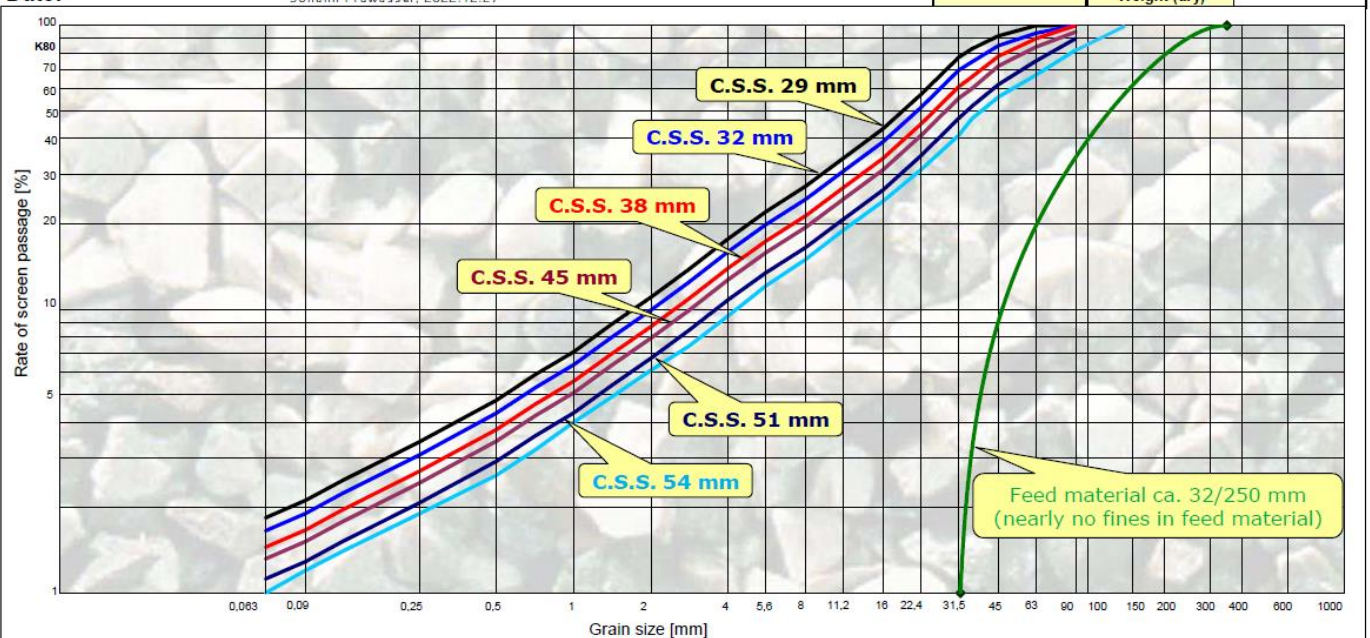
Concave type	Max. feed size [mm]	Capacity [T.P.H.]*) at C.S.S. [mm]									
		29	32	35	38	41	44	48	51	54	
EC	500			273-318	285-434	297-452	309-470	325-495	337-447	349-406	
C	440		291	304-463	317-483	331-503	344-456	362-421	375		
MC	335	245	257-391	269-409	281-427	292-445	304-403	320-372	332		

*) 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/m³. 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_i), the size analysis of the feed, the design of any re-crushing circuit and the moisture content in the feed all affect performance of the crusher.

Estimated screening analysis cone crusher (Data can vary acc. to actual feed material and machine setting parameters)	Feed material		Hard stone; bulk weight 1,7 kg/dm ³	
	Feed size		32	350
	Crusher Type		H6s	
	Humidity (%)		Weight (humid)	
			Weight (dry)	

Date: Jonann Pruwasser, 2022.12.27



Cumulated percentage	Screen size	0,063	0,09	0,125	0,25	0,5	0,71	1	1,4	2	2,8	4	5,6	8	11,2	16	22,4	31,5	35,5	45	63	90	Legend
Grading curve I	Screen size	1,6	2,1	2,5	3,4	4,8	5,9	7,1	8,8	11,0	13,6	17,8	22,1	27,1	34,0	43,2	57,0	77,3	82,8	82,0	100,0	100,0	Legend
Grading curve II	Screen size	1,7	1,9	2,2	3,1	4,3	5,3	6,4	7,9	9,9	12,4	16,0	19,9	24,4	30,8	38,9	51,3	69,0	74,5	85,0	84,0	100,0	Legend
Grading curve III	Screen size	0,063	0,09	0,125	0,25	0,5	0,71	1	1,4	2	2,8	4	5,6	8	11,2	16	22,4	31,5	35,5	45	63	90	Legend
Grading curve IV	Screen size	1,4	1,7	2,0	2,7	3,8	4,6	5,6	7,0	8,7	10,6	14,0	17,4	21,4	26,8	34,1	44,9	60,8	66,0	78,0	80,0	100,0	Legend
Grading curve V	Screen size	0,063	0,09	0,125	0,25	0,5	0,71	1	1,4	2	2,8	4	5,6	8	11,2	16	22,4	31,5	35,5	45	63	90	Legend
Grading curve VI	Screen size	1,3	1,5	1,8	2,4	3,4	4,2	5,1	6,3	7,9	9,9	12,7	15,8	19,4	24,4	31,0	40,9	55,4	60,0	72,0	84,0	95,0	Legend
Grading curve VII	Screen size	0,063	0,09	0,125	0,25	0,5	0,71	1	1,4	2	2,8	4	5,6	8	11,2	16	22,4	31,5	35,5	45	63	90	Legend
Grading curve VIII	Screen size	1,1	1,3	1,5	2,1	2,9	3,6	4,3	5,4	6,7	8,4	10,8	13,4	16,5	20,7	26,3	34,7	47,1	52,0	62,0	75,0	90,0	Legend
Grading curve IX	Screen size	0,063	0,09	0,125	0,25	0,5	0,71	1	1,4	2	2,8	4	5,6	8	11,2	16	22,4	31,5	35,5	45	63	90	Legend
Grading curve X	Screen size	1,0	1,2	1,4	1,9	2,6	3,2	4,0	4,8	5,1	7,4	9,5	12,1	15,0	19,0	24,0	31,0	41,0	47,0	58,0	67,0	82,0	Legend

Keestrack



Performance in every detail

H6 CONE CRUSHER

| Belgium | Czech | China | Italy | India | USA |

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TECHNICAL SPECIFICATIONS

Feed hopper

Capacity	8 m ³
Wear lining	HB 450
Height	3.700 mm

Belt feeder

Dimension (width x length)	1.200 x 5.360 mm
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Crusher

Maximum feed size	215 mm
Throughput capacity	Up to 395 t / h
Setting C.S.S.	16 - 44 mm
Drive	Electric direct drive, 220 kW

Track-unit

Dimension (width x length)	500 x 4.055 mm
2 speeds	1 - 2 km / h

Mainbelt conveyor

Dimension (width x length)	1.200 x 12.440 mm
Discharge height	4.800 mm
Speed	1,6 m / s
For transport	Hydraulically foldable

Engine unit

Power	313 kW / 1.500 rpm
Fuel tank	425 l
Hydraulic oil tank	120 l

Control

Type	PLC - IP67
Display	12" LCD
Controller	Remote control

OPTIONS

After screen system

Screen type	3 deck
Dimension (width x length)	1.800 x 4.500 mm
After screen conveyor (width x length)	650 x 10.400 mm
Middle fraction fine conveyor (width x length)	650 x 5.920 mm
Middle fraction coarse conveyor (width x length)	650 x 5.920 mm
Fines conveyor (width x length)	1.200 x 6.800 mm
Discharge height	4.160 mm

Dust suppression system

Spraying area	Main conveyor discharge
Water pump	1,1 kW

Metal detector

Detection sensitivity	Adjustable
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Heating system lube oil tank

Power	Up to 9,1 kW
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Fuel filling pump

Flow capacity	80 l / min
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Radio remote control

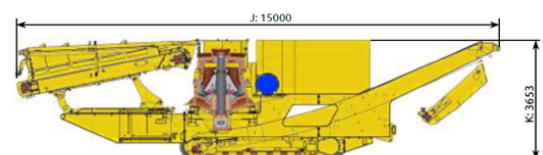
Type	Handheld, multi functions remote control
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Working light

No. of lamps	4 pieces
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TRANSPORT DIMENSIONS AND WEIGHT

Length	: 15.000 mm / 20.330 mm (with screen)
Height	: 3.650 mm
Width	: 3.000 mm
Weight	: 51,4 t / 62,1 t (with options)

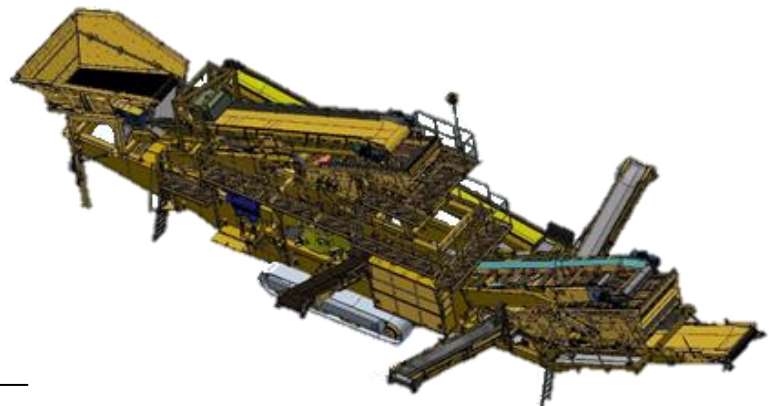
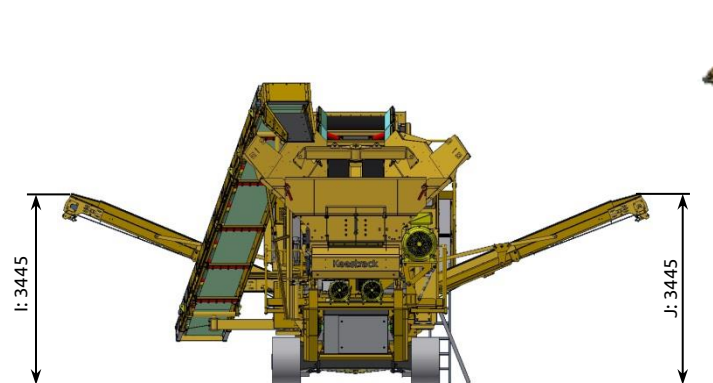
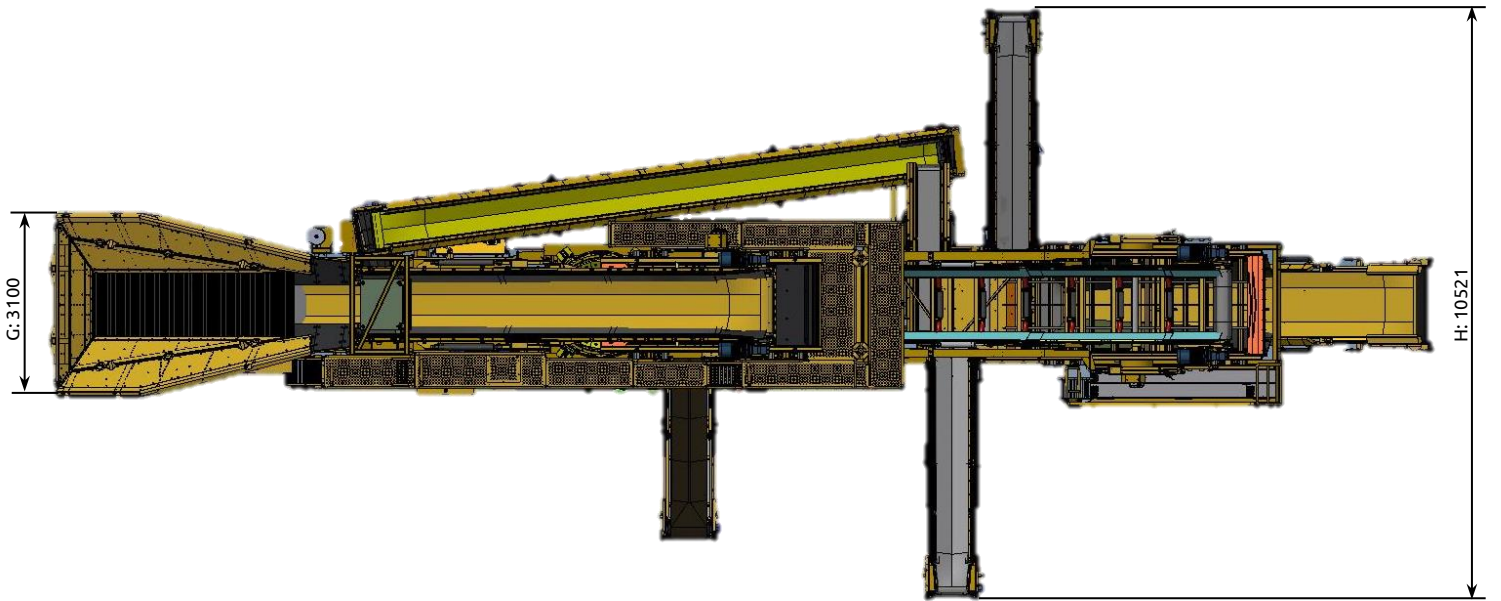
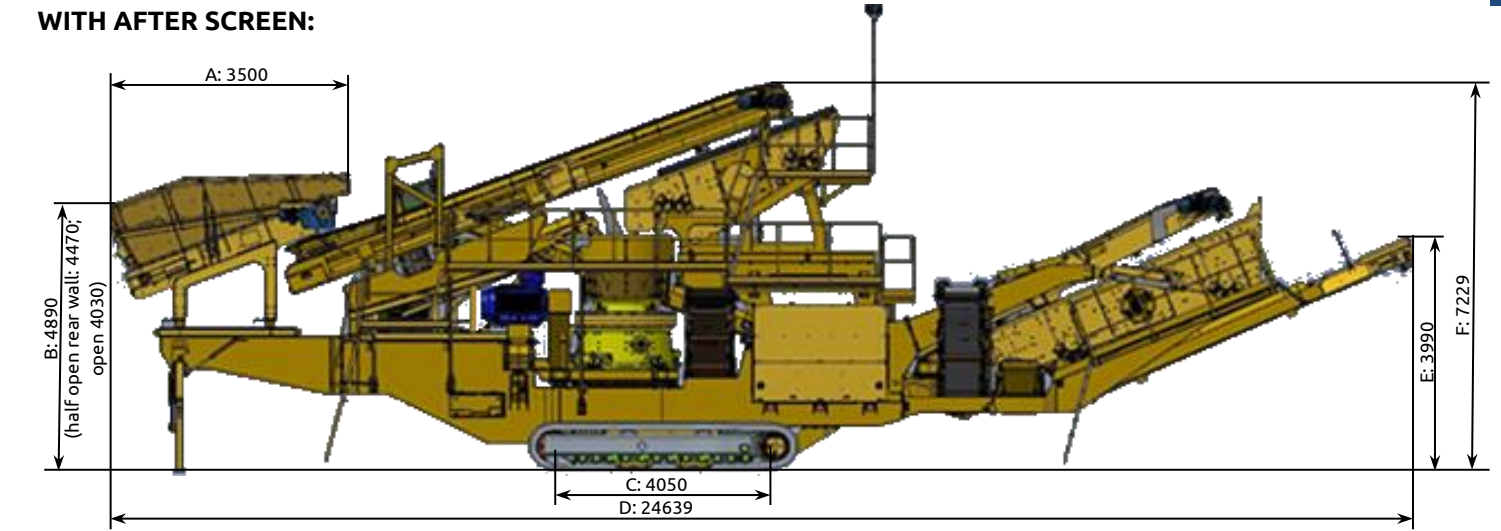


CONE CRUSHER H7e



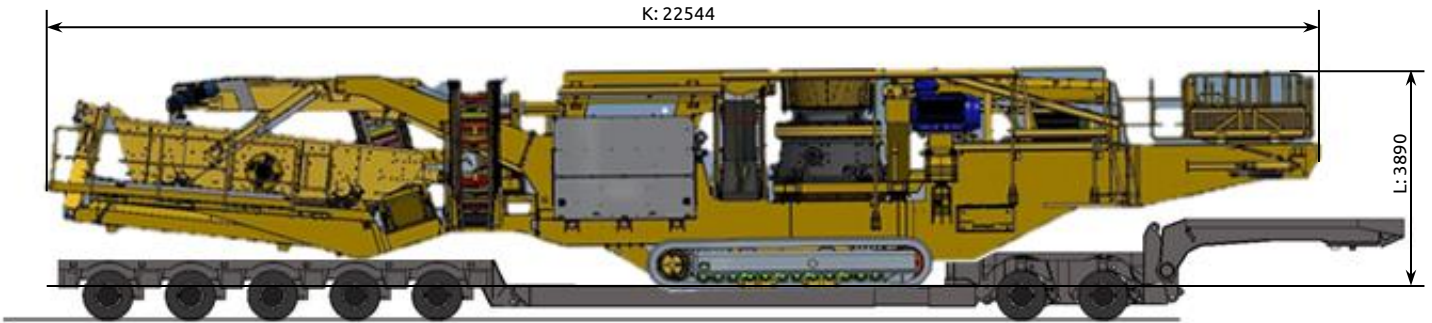
DIMENSIONS

WITH AFTER SCREEN:

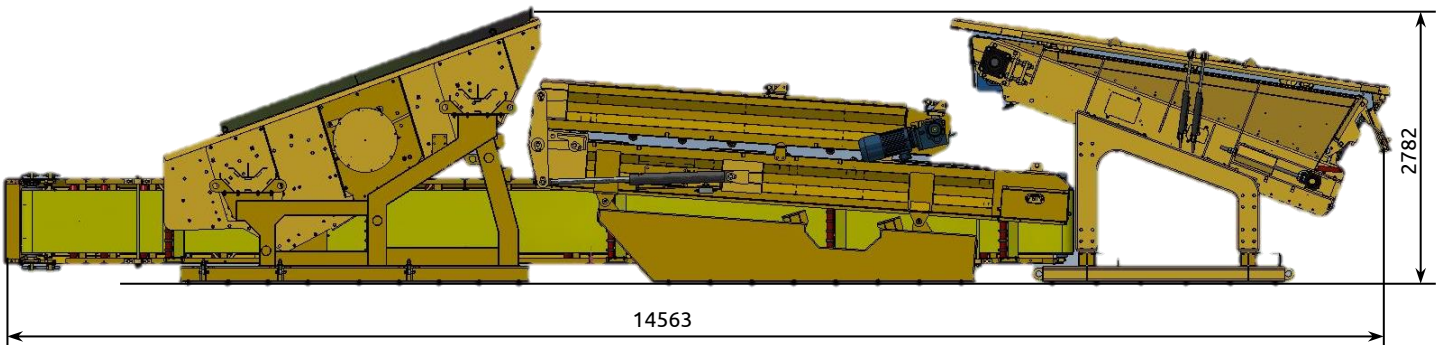


TRANSPORT DIMENSIONS

TRANSPORT CRUSHING UNIT WITH OPTIONAL AFTER SCREEN (68 t, width 3.100 mm)



TRANSPORT REMAININGS (22 t, width 2.600 mm)



Weight: approx. 80 t (without options)

Weight options:

3 Deck screen with conveyors	7.500 kg
Oversize return conveyor	1.850 kg
Hopper wear plates	570kg
Hopper extensions XXXL	1.081kg
Fines conveyor for pre-screened	1.120kg

Total weight with options **approx. 92,1 t**

Transport width **3.100 mm (10'2")**

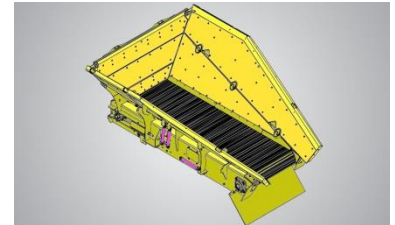
A	B	C	D	E	F	G	H	I	J	K	L
3500	4890	4050	24639	3990	7229	3100	10521	3445	3445	22544	3890
11'6"	16'1"	13'3"	80'10"	13'1"	23'9"	10'2"	34'6"	11'4"	11'4"	74'	12'9"

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

TECHNICAL SPECIFICATION

1) FEED HOPPER

- Content	8 m ³	(10,5 yard ³)
- Design	Wear resistant steel HB 450	
- Feeding height	4.890 mm (4.030 mm open rear wall)	(16'1"; 13'3")
- Feeding width	3.100 mm	(10'2")
- Feeding length	3.500 mm	(11'6")
- Hopper load release	for transport easy disassembled	
- Transport	hopper extensions for transport hydraulically fold-able	



2) APRON FEEDER

- Axle distance AD	3.560 mm	(11'8")
- Belt width BW	1.300 mm	(4'3")
- Drive	E-motor 11 kW with gearbox and frequency inverter (20 – 100 Hz)	(15 hp)
- Speed adjustable	3,2 – 16,2 m/min	
- Capacity	600 t/h	



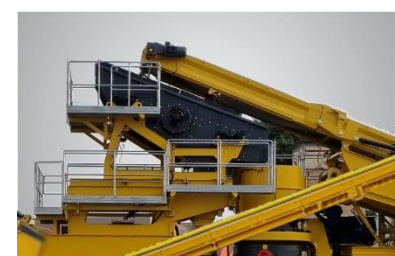
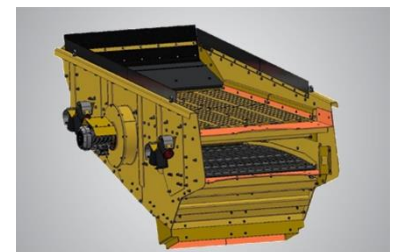
3) BELT FEEDER

- Axle distance AD	9.430 mm	(30'11")
- Belt width BW	1.000 mm	(3'3")
- Drive	2 pcs. E-Gearmotors each 7,5 kW with frequency inverter	(2 x 10 hp)
- Belt speed	1,04 m/s	
- Ease of Service	BFR is lift-able	
- Metal detector	System EGE 3000 with MDV amplifier, sensitivity adjustment 1 - 10 (Option)	



4) 2 DECK PRE-SCREEN

- System	Two deck screen with feeding tray for distribution (TD for load release of BD); Middle fraction and oversize into cone crusher
- Tensioning	TD side tensioned; BD end tensioned
- Length	TD=3.000 mm; BD= 2.400 mm (TD 4,5 m ² ; BD 3,5 m ²)
- Width	W=1.500 mm
- Drive	Permanent magnetic E- motor 11 kW; with frequency inverter
- Walkway	Walkway: on the left, rear and right side
- Screens	TD punched plate, opening 22-65 mm, side tensioned BD mesh, opening 10-45 mm, end tensioned
- Fines discharge	Standard in crusher bypass via a chute to the main belt conveyor or optionally separate stockpiled



TECHNICAL SPECIFICATION

5) CONE CRUSHER

- Type	KT-H7, contract manufactured by SANDVIK	
- Max. feed size	EC: 250 mm; C: 205 mm; MC: 159 mm; M: 121 mm; F: 92 mm;	(10"; 8"; 6") (5"; 4")
- Weight	20.278 t	(22,35 st)
- Capacity	65 - 415 t/h	
- Crusher drive	E-motor 330 kW and V-belts	(449 hp)
- Setting C.S.S.	EC + MC: 16-48 mm; C: 16-44 mm; M: 13-35 mm; F: 8-32 mm	(1-2") (0,3-1,3")
- Throw	Standard bushing 36 (standard), 40 or 44 mm	(1,4"; 1,6"; 1,7")
- Safeties	- Automatic release system for uncrushables - Rotational indication of drive for cone crusher - Slip control of drive for cone crusher	
- Filling level	Measured with two ultrasonic sensors	
- Capacity control	Automatically acc. to filling level and engine load	
- Wear indication	Automatic, on the display	
- Pressurised crusher housing	prevent entry of dust	



pressurising system

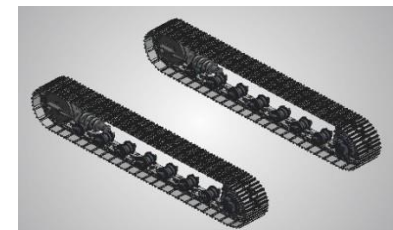
6) MAIN BELT CONVEYOR

- Discharge height	4.950 mm	(16'3")
- Stockpile volume	approx. 380 t; $\gamma=1,7$; 37° angle of repose	
- Length AD	12.440 mm	(41')
- Width BW	1.200 mm	(3'11")
- Belt speed	1,75 m/s	
- Inclination	24°	
- Drive	2 pcs. E-gear motors each 7,5 kW	(2 x 10 hp)
- Speed control	rotational indication via pinch roll	
- Rubber belt quality	FLEXIFER EP 630/4 6+2	
- Material guiding chutes	Over total length	
- Transport	hydraulically fold-able	



7) TRACK - UNIT

- Length	4.166 mm	(13'8")
- Width track shoe	500 mm	(1'8")
- Total width	2.995 mm	(9'10")
- 2 speeds	0,5 km/h and 0,8 km/h	(0,3 / 0,5 mph)

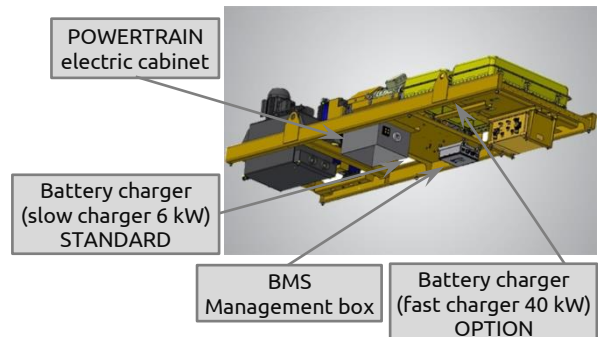
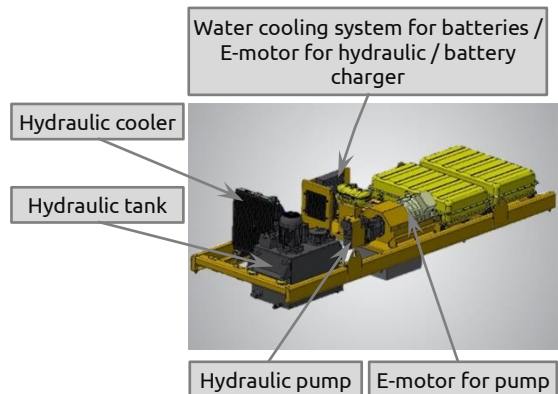
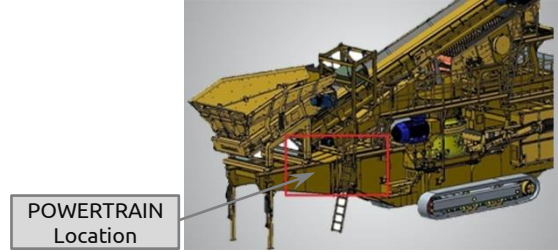


TECHNICAL SPECIFICATION

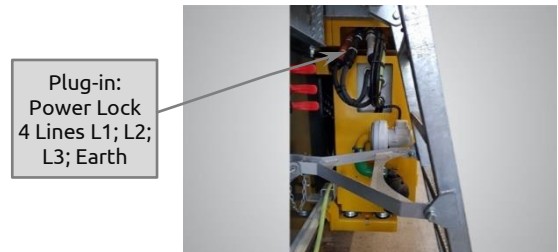
8) POWERTRAIN

Battery pack for driving the tracks and hydraulic folding's

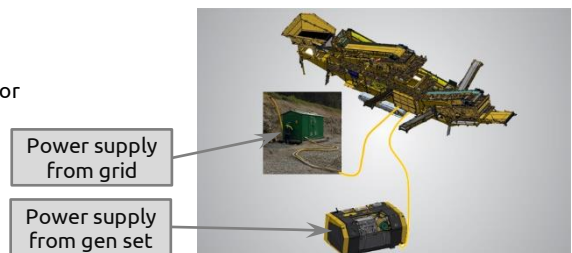
- Model: HYT
- Total capacity: Double battery pack; 62 kWh
- Operation: Estimated driving time 1h. It is always possible to bypass the batteries and drive the machine with a 400V/50Hz source (480/60Hz for North America)
- Drive: 60 kW (110 kW peak) electric motor for driving the hydraulic pump
- Estimated charging time: with slow charger (6 kW): 10 h
with fast charger (40 kW): 1,5 h



- Power plug-in: For drive of the crusher from external power sources (grid) a plug-in is foreseen:
3 Phase, 400V; 50 Hz;
approx. 550 kVA



- Power supply: The H7e either is plugged – in from grid or separate gen set
The gen set always is separated from the H7e (also for transport)
Gen set min. 550 kVA with CUMMINS X 15



TECHNICAL SPECIFICATION

9) CONTROL

- Type PLC – IP 67; dust and vibration proof
- Display LCD Display 12", IP 67
- 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

- 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.



TECHNICAL SPECIFICATION - OPTIONS

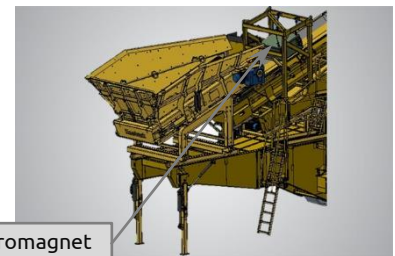
10) DUST SUPPRESSION SYSTEM (p/n 657580)

- Type	CA 91 A	
- Spraying area	Main conveyor and Fines conveyor	
- Drive	E-motor 0,75 kW	(1,0 hp)
- Water consumption	Max. 0,75 m³/h	
- Weight	45 kg	(99 lb)



11) MAGNETIC SEPARATOR

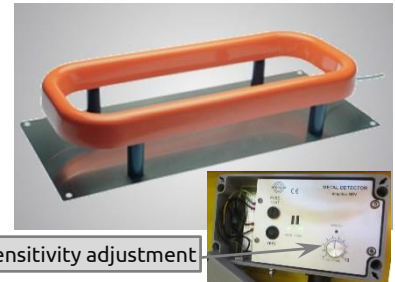
- Type	Electromagnet EP7	
- Length	910 mm	(3')
- Width	810 mm	(2'8")
- Magnetic power	870 GAUSS @ 200 mm distance	
- Operating method	FE-parts are lifted, but not discharged	



Electromagnet

12) METAL DETECTOR p/n 654450

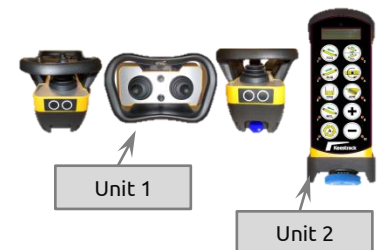
- Type	EGE 3000 with MDV amplifier, sensitivity adjustment 1-10 Double protection against metal parts: MAG (electrically operated) and metal detector. In case, a piece of metal is separated by the magnet system, it is possible to release it via radio remote control and then it can be manually removed by the operator on the walkway	(22 lb)
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sensitivity adjustment

13) RADIO REMOTE CONTROL DUO 10F PRO + JOYSTIC

- Order no.	Remote 103107 Sticker 103340	
Functions	<p>Unit 1:</p> <ul style="list-style-type: none"> - Tracks forwards / backwards proportional with automatic speed control <p>Unit 2:</p> <ul style="list-style-type: none"> - Crusher gap C.S.S. +/- - Apron feeder start / stop and +/- - FCO start / stop - LSC start / stop - RSC start / stop - RUB start / stop - SCR start / stop - MCL start / stop - Automatic start / stop - Machine stop button (blue) - Display 	



TECHNICAL SPECIFICATION – OPTIONS

14) HEATING SYSTEM LUBE OIL TANK p/n 203460

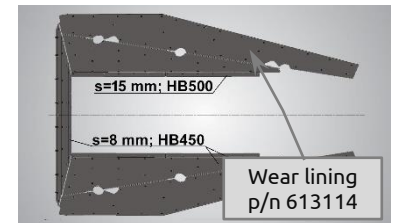
	for pre-heating of the lub oil if the temperature is below zero (up to 10°C)	
- Heating power	up to 9,1 kW;	(12,4 hp)
- Fuel consumption	0,19 - 1,1 l/h	
- Voltage	24V	
- Power consumption	37-90 W	
- Operating temperature	-40°C - + 80°C	
- Weight	5,3 kg	
- Additional	Incl. timer for 3 starting times and temperature pre-selection	



HEATING SYSTEM FOR LUBE OIL TANK

15) WEAR LINING HOPPER

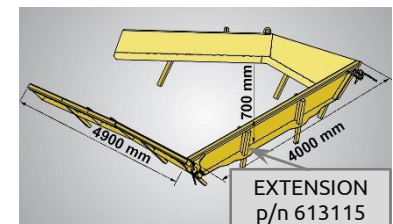
WEAR LINING HOPPER	Wear lining HB 450/500; s=8 mm at the top and bottom; p/n 613114; + 640 kg	(+ 1.411 lb)
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Wear lining p/n 613114

16) FEED HOPPER EXTENSIONS p/n 613115

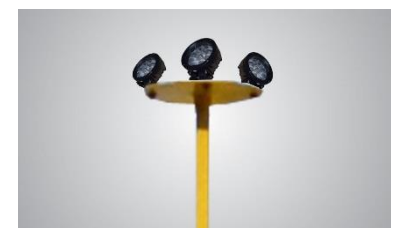
HOPPER EXTENSIONS	Both sides H=450 mm + rear H=700 mm;	
- Left + right + rear side + 2 hydr. Cylinders	p/n 619310; Approx. + 1.081 kg Instead of 1 cylinder for folding hopper walls p/n 701015; + 22 kg	(+ 2.383 lb) (50 lb)



EXTENSION p/n 613115

17) WORKING LIGHTS p/n 103409

- Towers with 8 lamps	LED lights 12/24 V; 35 W each lamp: 9 pcs. LED's (p/n 205147) 2100 Lumen	
- protection degree	IP69K	
- Weight	9 kg	(20 lb)



TECHNICAL SPECIFICATION – OPTIONS

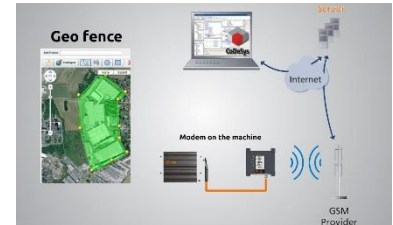
18) UMTS MODEM WITH GPS TRACKING SYSTEM “KEESTRACKER”

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.
- SIM Card integrated, for 1 year free of charge



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:

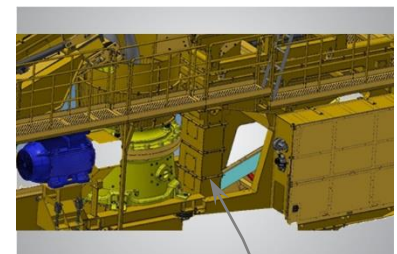
- Location data of the machine
- Machine usage data (such as: performance of the engine and other functions)

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.

19) FINES STOCKPILE CONVEYOR FOR PRE-SCREENED MATERIAL

- Axle distance 4.340 mm (14'3")
- Belt width 650 mm (2'2")
- Discharge height 3.250 mm (10'8")
- Drive E-drum motor 5,5 kW (7,5 hp)
- Inclination 9,5°
- Belt speed 1,3 m/s
- For transport Hydraulically foldable
- Weight 1.150 kg (2.500 lb)

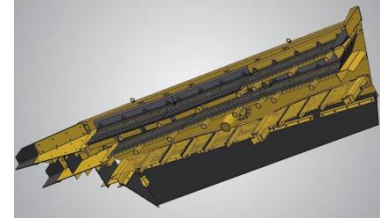


Standard bypass chute

TECHNICAL SPECIFICATION – OPTIONS

20) BUILT ON 3 DECK SCREEN with OSR, RUB, UFC, RSC, LSC and FCO

SCREENBOX	83 SCR 100-00 – p/n X102154	
- Length x width	TD: L=4.640 mm; MD+BD: L=4.500 mm x 1.800 mm	(15'3") (14'9" x 5'10")
- Effective screen area	TD: 8,3 m ² ; MD+BD: 8,1 m ²	
- Screens	Steel wire: TD: 3+1/3 pcs. side tensioned MD: 3 pcs. side tensioned; BD: 2 pcs. end tensioned (optional PU-Elements: 300 x 1.000 mm)	(1' x 3'3")
- Drive	2 pcs. E-motors 7,5 kW; with frequency inverter	(2 x 10 hp)
- Walkway	600 mm on the right side; for transport hydraulically fold-able	(2')
- screen inclination	adjustable 9°-24°	



OVERSIZE CONVEYOR	83 OSC 100-00; left side	
- Length AD	2.850 mm	(9'4")
- Width BW	500 mm	(1'8")
- Drive	E-drum motor 2,2 kW	(3 hp)
- Belt speed	1,25 m/s	
- Discharge height	3.210 mm	(10'6")
- Transport	hydraulically fold-able	

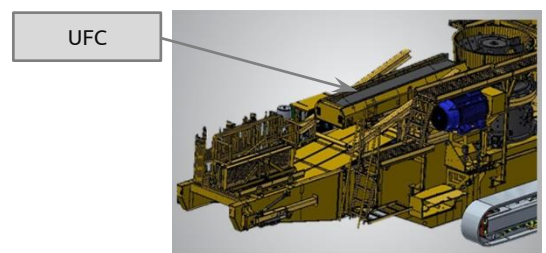


RECYCLING CONVEYOR	83 RUB 100-00; left side	
- Length AD	10.835 mm	(35'7")
- Width BW	650 mm	(2'2")
- Belt speed	1,5 m/s	
- Inclination	26°	
- Drive	E-drum motor 7,5 kW with frequency inverter	(10 hp)
- Max capacity	120 t/h	
- Rubber belt	EP 400/3 4+2 V-450 (Chevron)	
- Transport	Transport separately	



UNDER FEEDER CONVEYOR – UFC

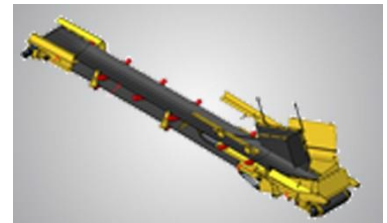
OVERSIZE FRACTION		
- Length AD	3.710 mm	
- Width BW	650 mm	
- Belt speed	1,1 m/s	
- Drive	E-drum motor 4 kW	
- Operation	Belt conveyor to transfer oversize directly into the cone crusher; to avoid overflow in case of APR stop and to distribute the material flow to the cone to all sides; also less wear to the pre-screen	
- Ease of service	For service the cone crusher hydraulically slide-able	



TECHNICAL SPECIFICATION – OPTIONS

20) BUILT ON 3 DECK SCREEN with OSR, RUB, UFC, RSC, LSC and FCO

MIDDLE FRACTION - FINE CONVEYOR	83 LSC 100-00; left side	
- Length AD	5.920 mm	(19'5")
- Width BW	650 mm	(2'6")
- Drive	E-drum motor 5,5 kW	(7,5 hp)
- Discharge height	3.450 mm	(11'4")
- Stockpile volume	approx. 130 t ($\gamma=1,7$; 37° angle of repose)	
- Transport	hydraulically fold-able	
MIDDLE FRACTION COARSE CONVEYOR	83 RSC 100-00; right side	
- Length AD	5.920 mm	(19'5")
- Width BW	650 mm	(2'6")
- Drive	E-drum motor 5,5 kW	(7,5 hp)
- Belt speed	1,3 m/s	
- Discharge height	3.450mm	(11'4")
- Stockpile volume	approx. 130 t ($\gamma=1,7$; 37° angle of repose)	
- Transport	hydraulically fold-able	
FINES CONVEYOR	81 FCO 105-00	
- Length AD	6.800 mm	(22'4")
- Width BW	1.300 mm	(4'3")
- Discharge height	4.160 mm	(13'8")
- Belt speed	1,4 m/s	
- Drive	E-drum motor 5,5 kW	(7,5 hp)
- Stockpile volume	approx. 220 t ($\gamma=1,7$; 37° angle of repose)	
- For transport	hydraulically fold-able (also for service)	



TECHNICAL SPECIFICATION - CAPACITY

Con-cave type	Max. feed size [mm]	Capacity [T.P.H.]*) at C.S.S. [mm]													
		8	10	13	16	19	22	25	29	32	35	38	41	44	48
EC	250				162-193	174-272	186-290	198-309	214-334	226-352	259-356	250-366	261-335	273-324	289
C	205				177-210	190-297	203-317	216-337	233-364	246-384	274-427	272-349	285-312	298	
MC	159				187-254	201-313	214-334	228-356	246-384	260-406	245	287-421	301-385	315-374	333
M	121			155-213	167-261	180-280	192-299	204-299	220-282	233-254					
F	92	103-132	109-170	119-185	128-200	137-214	147-215	156-214	169-200	178					

*) based on bulk density 1,6 kg/dm³

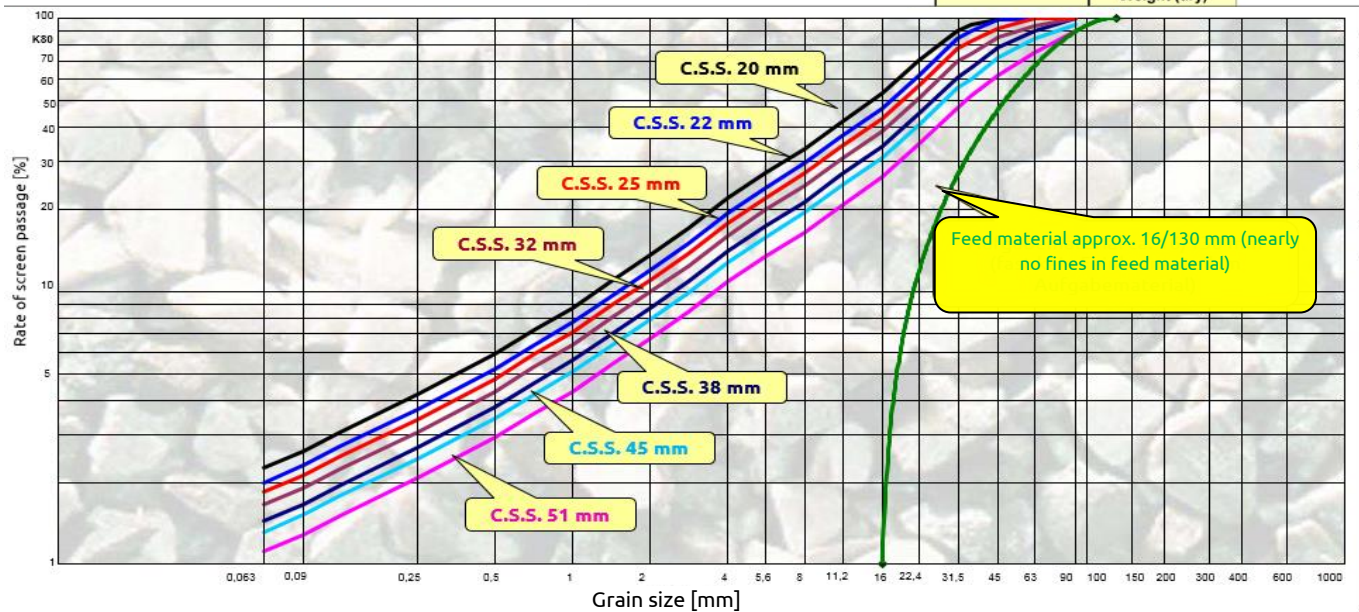
*) Performance figures are approximate and give an indication of what the crusher can produce. They apply to open circuit crushing of dry material with a bulk density of 1600 kg/m³. It is assumed that material much finer than the crusher's closed side setting (CSS) is removed from the feed.

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.

Estimated screening analysis cone crusher
(Data can vary acc. to actual feed material and machine setting parameters)

Feed material	Hard stone; bulk weight 1,6 kg/dm ³	
Feed size	16	130
Crusher Type	H7	
Humidity (%)		
Weight (humid)		
Weight (dry)		

Date: Johann Prüwasser, 2015.04.23



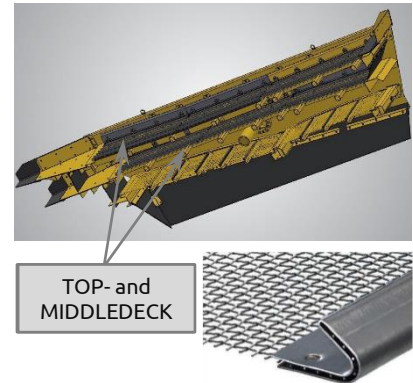
Kumulierte Anteile	0,063	0,09	0,125	0,25	0,5	0,71	1	1,4	2	2,8	4	5,6	8	11,2	16	22,4	31,5	35,5	45	63	100,0	Legende				
Siebgröße	2,3	2,6	3,1	4,2	5,3	7,3	8,7	10,3	13,6	17,0	21,3	27,2	33,4	41,3	53,3	70,3	90,3	95,3	99,5	100,0	0,0	Legende				
Siebgröße I	0,063	0,09	0,125	0,25	0,5	0,71	1	1,4	2	2,8	4	5,6	8	11,2	16	22,4	31,5	35,5	45	63	90	Legende				
Siebgröße II	2,0	2,3	2,7	3,7	5,2	6,4	7,7	9,6	12,0	15,0	19,3	24,0	29,5	37,0	47,0	62,0	84,0	90,0	98,6	100,0	0,0	Legende				
Siebgröße III	1,5	2,1	2,5	3,4	4,3	5,3	7,1	8,8	11,0	13,8	17,8	22,1	27,1	34,0	43,2	57,0	77,3	82,3	90,0	100,0	0,0	Legende				
Siebgröße IV	1,1	1,3	1,5	2,2	3,1	4,3	5,3	6,4	7,9	9,9	12,4	15,3	19,3	24,4	30,6	38,9	51,3	63,6	74,5	85,0	94,0	100,0	Legende			
Siebgröße V	0,8	1,0	1,2	1,8	2,5	3,4	4,6	5,6	7,0	8,7	10,9	13,4	16,4	20,4	25,8	34,1	44,3	56,3	68,0	78,0	90,0	100,0	Legende			
Siebgröße VI	0,6	0,8	1,0	1,5	2,1	2,8	3,6	4,4	5,4	6,6	8,1	9,9	12,1	14,6	18,0	22,4	28,0	34,5	41,5	48,0	58,0	70,0	80,0	Legende		
Siebgröße VII	0,4	0,6	0,8	1,2	1,7	2,2	2,8	3,4	4,1	5,0	6,1	7,4	8,9	10,7	12,8	15,6	19,4	24,4	30,0	36,0	43,0	52,0	63,0	75,0	90,0	Legende

TECHNICAL SPECIFICATION – SCREEN CHOICE

01) TOP and MIDDLE DECK

WOVEN WIRE MESH

p/n	Description
202189	10 x 10 x 2,8 mm
202183	18 x 18 x 4 mm
202200	20 x 20 x 4 mm
202199	25 x 25 x 5 mm
202610	30 x 30 x 6 mm
202217	35 x 35 x 7 mm
202184	40 x 40 x 8mm
202236	45 x 45 x 8 mm
202237	50 x 50 x 8 mm
202239	55 x 55 x 9 mm
202197	60 x 60 x 10 mm
202238	70 x 70 x 10 mm
202198	80 x 80 x 12,5 mm



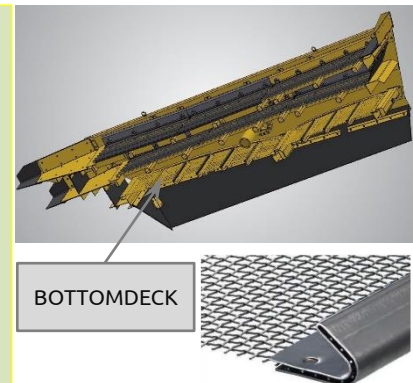
02) BOTTOM DECK

WOVEN WIRE MESH

Spi 2610 + 1810 mm

Spl 1760 mm

p/n	Description
202401	BD MESH 4 x 4 x 1,5 mm
202334	BD MESH 5 x 5 x 2 mm
202226	BD MESH 6 x 6 x 2 mm
202591	BD MESH 7 x 7 x 2 mm
202044	BD MESH 8 x 8 x 2,5 mm (stainless 202607)
202045	BD MESH 10 x 10 x 2,5 mm
202046	BD MESH 12 x 12 x 3 mm
202048	BD MESH 14 x 14 x 2,5 mm
202047	BD MESH 15 x 15 x 3 mm
202085	BD MESH 16 x 16 x 3 mm
202581	BD MESH 17 x 17 x 3 mm
202205	BD MESH 18 x 18 x 4 mm
202048	BD MESH 20 x 20 x 4 mm
202551	BD MESH 20 x 20 x 5 mm
202220	BD MESH 22 x 22 x 4 mm
202060	BD MESH 24 x 24 x 5 mm
202049	BD MESH 25 x 25 x 5 mm
202203	BD MESH 28 x 28 x 5 mm
202050	BD MESH 30 x 30 x 5 mm
202469	BD MESH 32 x 32 x 6 mm
202204	BD MESH 35 x 35 x 7 mm
202051	BD MESH 40 x 40 x 8 mm
202104	BD MESH 45 x 45 x 8 mm
202052	BD MESH 50 x 50 x 8 mm



ELONGATED HARP SCREENS

Advantages:

- high percentage of open screening area
- less danger of clogging

p/n	Description
202208	BD HARP 3 x 200 x 1,2 mm
202672	BD HARP 4 x 100 x 2 mm
202031	BD HARP 4 x 200 x 2 mm
202181	BD HARP 5 x 100 x 1,6 mm
202032	BD HARP 5 x 200 x 2 mm
202391	BD HARP 6 x 40 x 2 mm
202426	BD HARP 6 x 150 x 3 mm
202033	BD HARP 6 x 200 x 2 mm
202537	BD HARP 8 x 50 x 2,5 mm
202034	BD HARP 8 x 200 x 2 mm
202416	BD HARP 10 x 50 x 2 mm
202035	BD HARP 10 x 200 x 2,8 mm
202036	BD HARP 12 x 200 x 3 mm
202219	BD HARP 15 x 40 x 2 mm

SERPA DIAMOND

202698	BD HARP-SERPA 6 x 200 x 2,5 mm
202259	BD HARP-SERPA 12 x 200 x 3 mm
202136	BD HARP-SERPA 15 x 200 x 3 mm
202834	BD HARP-SERPA 25 x 200 x 3 mm

S-WAVE WIRE SCREEN MESH

202258	BD S-WAVE 10 x 200 x 2,5 mm
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