

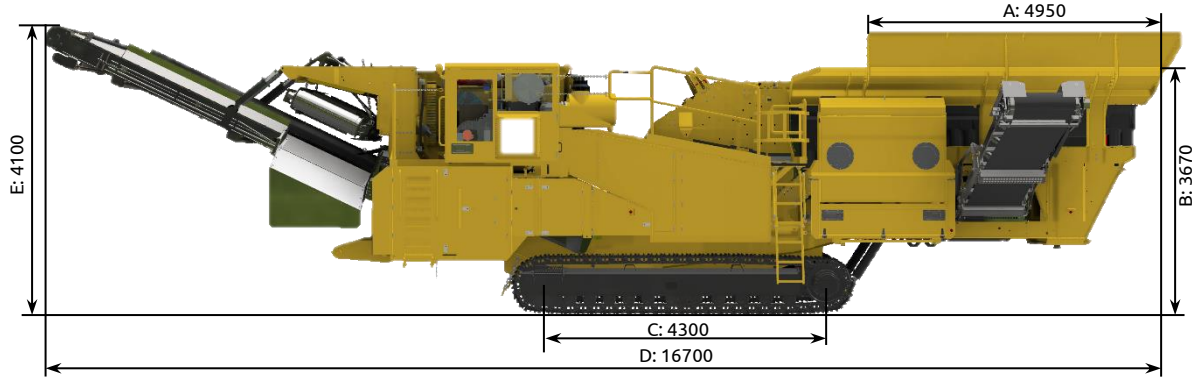
## IMPACT CRUSHER R6d



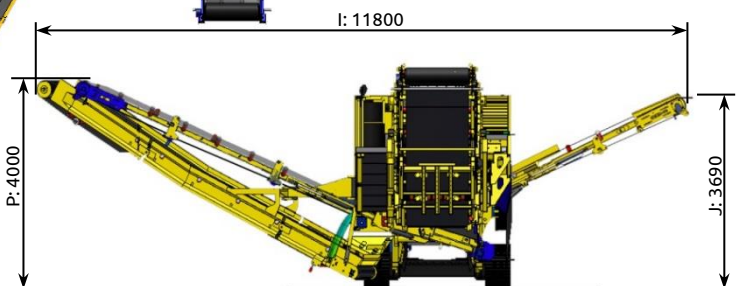
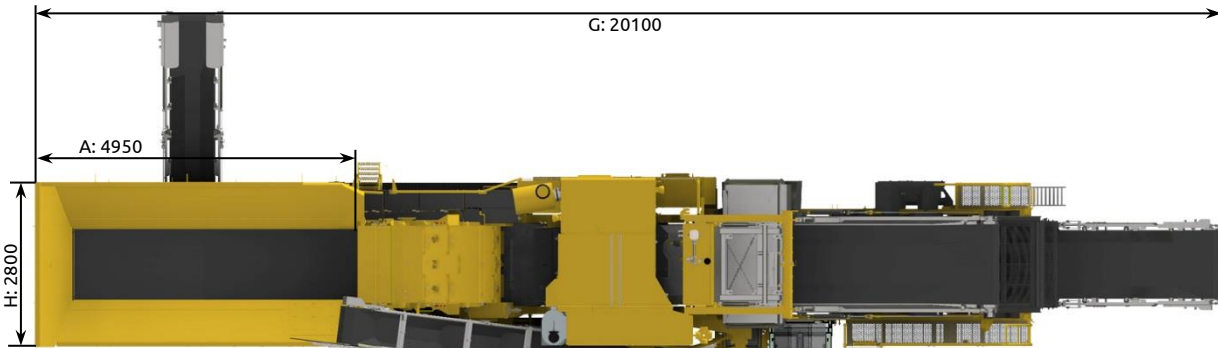
IMPACT CRUSHERS



## DIMENSIONS WITHOUT SCREEN:



## WITH SCREEN:



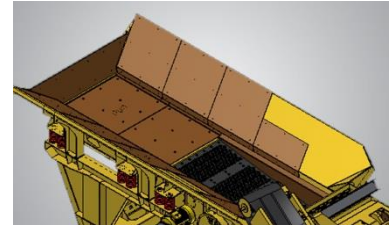




## TECHNICAL SPECIFICATION

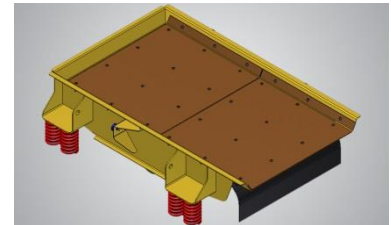
### 1) FEED HOPPER

- Type	54 FEH 100-00	
- Content	7 m <sup>3</sup>	(8,75 yard <sup>3</sup> )
- Wear lining	Wear resistant steel HB 500 (RUB discharge + bottom); Top: HB 450	
	HB 500 (over total length); welded	
- Feeding height	3.670 mm right side; 3.870 mm left side	(12'1")
- Feeding width	2.800 mm	(9'2")
- Feeding length	4.950 mm	(16'3")



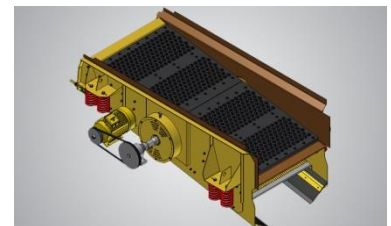
### 2) VIBRATING FEEDER

- Type	54 VIF 200-00	
- Length	2.400 mm	(7'10")
- Width	1.250 mm	(4'1")
- Drive	Unbalanced E- motors 2 x 4 kW with frequency converter 582 (30 Hz) – 1.164 (60 Hz) R.P.M.	(2 x 5,5 hp)
- Capacity	Up to 450 t/h	



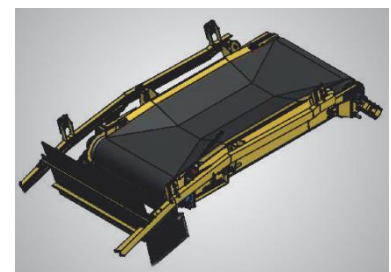
### 3) DOUBLE DECK PRE-SCREEN

- Type	54 SCS 100-00	
- Length	3.100 mm	(10'2")
- Width	1.250 mm	(4'1")
- Top deck 2 step	Hexagonal aperture: 55 mm - 80 mm ZIG ZAG aperture: 20 mm – 45 mm	(2"-3") (0,8"-1,8")
- Bottom deck	2.610 x 1.250 mm with square mesh of choice (end tensioned)	(8'7" x 4'1")
- Material flow	- fine fraction either in crusher bypass or separately stockpiled (with p/n 669460) - Intermediate fraction either in crusher bypass (lower deck bigger mesh than upper deck) or separately stockpiled (with option p/n 669460)	
- Drive	E- motor 18,5 kW with V-belts; 1.020 R.P.M. at 50 Hz	(26 hp)



### 4) UNDERSCREEN CONVEYOR – GALVANIZED

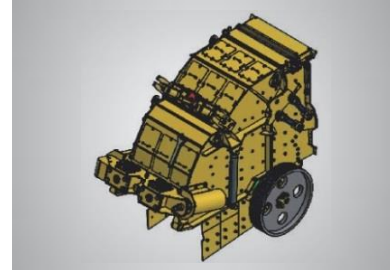
- Type	54 REC 100-00	
- Length	2.850 mm	(9'4")
- Width	1.000 mm	(3'4")
- Speed	1,00 m/s	
- Max. capacity	200 t/h	
- Drive	E-drum motor 5,5 kW reversible	(4 hp)
- Reversible belt	To feed the pre-screened material under the crusher in bypass or to the side conveyor	
- Ease of service	The conveyor can slide out for ease of service purposes.	



## TECHNICAL SPECIFICATION

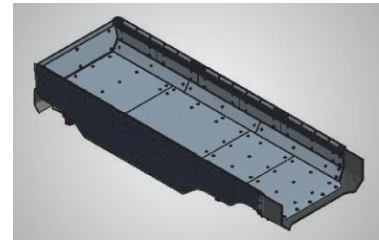
### 5) IMPACT CRUSHER

- Type	54 ICR 100-00	
- Inlet opening	970 x 1.300 mm (H x W)	(2'11" x 4'3")
- Weight impact crusher	Approx. 17.200 kg	(38.000 lb)
- Rotor width	1.250 mm	(4'1")
- Rotor diameter	1.267 mm	(4'2")
- Drive	Direct via elastic clutch, transmission gear, Turbo clutch and V-belts	
- Blow bars	2 pcs. each 315 kg + 2 pcs. each 242 kg	(700 + 530 lb)
- Rotor speed	487 RPM (32,2 m/s) to 578 RPM (38,2 m/s)	
- Pulley diameter	Rotor 1.100 mm; motor 335 mm	(3'7"; 1'1")
- Weight rotor	Approx. 6.100 kg (without bearings)	(12.800 lb)
- Throughput capacity	up to 450 t/h	
- Impact aprons	2 pcs. with hydraulic gap setting	
- Gap upper apron	(new tools) -40 / 345 mm; Dodging max. 400 mm	(-1,5" / 1'2") (1'4")
- Gap lower apron	(new tools) -115 / 140 mm; Dodging max. 280 mm	(-4,5" / 5,5") (11")
- Distance rotor / feeder	340 mm	(1'2")



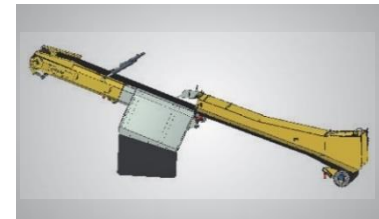
### 6) VIBRATING DISCHARGE FEEDER (Belt saving feeder)

- Type	53 DCF 200-00	
- Length	3.180 mm	(10'4")
- Width	1.300 mm	(4'3")
- Capacity	Up to 450 t/h	
- Drive	7,5 kW hydraulic motor	(10,2 hp)
- Wear lining	HB 450 + 500; s = 10 mm	(1/2")



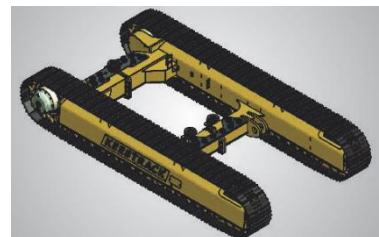
### 7) MAIN BELT CONVEYOR – GALVANIZED

- Type	54 MPC 100-00	
- Discharge height	4.100 mm	(13'5")
- Stockpile volume	Approx. 210 t ( $\gamma=1,7$ ; 37° angle of repose)	
- Length AD	8.500 mm	
- Width BW	1.400 mm	(27'10")
- Belt speed	1,6 m/s	(4'7")
- Inclination	24°	
- Drive	E-drum motor 22 kW	(20 hp)
- Rubber belt quality	Belt KT-Flex 630/1 6+3 Grade RS	



### 8) TRACK UNIT and TILTING CHASSIS

- Type	56 TRA 100-00	
- Length	4.300 mm	(14'1")
- Width track shoe	500 mm	(1'8")
- Total width	2.850 mm	(9'0")
- 2 speeds	0,72 km/h and 1,27 km/h	(0,5 / 0,8 mph)
- Drive	Hydraulic motor and planetary gears	
- Tilting chassis (patented)	For increased access to maintenance and inspection and for linking the machine to the DOLLY respectively to the truck. In addition, the tilting can be used for operation to increase the feed capacity in case of sticky material or hard coal crushing.	



## TECHNICAL SPECIFICATION

### 9) ENGINE UNIT

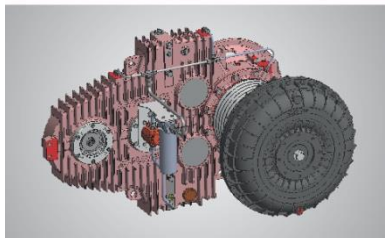
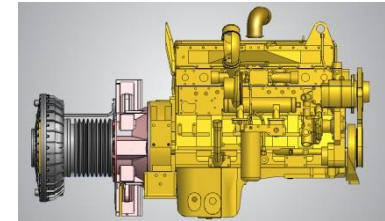
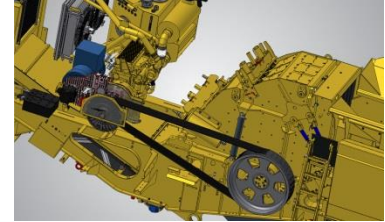
- Type	58 ENU 200-00; Diesel engine, 6 cylinder in line	
- Diesel Motor, Type	a) VOLVO TAD 1650 GE, fixed speed b) VOLVO TAD 1671 VE	(p/n 100650) (p/n 101646A)
- Emission control	a) Tier 3; EU STAGE IIIA b) Tier 4f, EU STAGE IV	<b>Latest technology</b>
- Power ISO 14396	a) 439 kW (with fan) prime power w/o fan for 402 kW at 1.500 R.P.M. b) 450 kW / 1.800 R.P.M	(597/617 hp) (612 hp)
- Max. torque	a) 2.814 Nm/1.500 R.P.M.; b) 2.387 Nm/1.800 R.P.M.	(2.007/1.760)
- Motor revolution	a) 1.500 R.P.M. b) 1.600 R.P.M. – 1.900 R.P.M.	
- Bore hole / stroke	a+b) 144 x 165 mm	(5,7" x 6,5")
- Combustion chamber	a+b) 16.120 cm <sup>3</sup>	(984 cuin)
- Diesel consumption	a) 202 g/kWh; b) 201 g/kWh / 1.800 R.P.M.	
- Voltage	24 Volt (for improved cold start properties)	
- Cooling	Combi cooler (water, air, diesel, hydraulic) separate hydraulic variable piston pump valve for reversing fans and fixed piston motor For cleaning purpose fold-out easily	Combi cooler fold-out
- Fuel	Tank 925 Litres; fuel code acc. to EN 590	(244 gal)
- Air filter	Cyclone pre - filter + dual stage fine filter	
- Engine operation	4-stroke Diesel; Direct injection, Turbo-charged and Charge Air Cooled;	
- Drive crusher	Engine → power transmission gear (ratio 1,2/1; Pump with oil filter for lubrication of gear ) → Turbo clutch → V-belts for crusher direct drive	
- Power transmission gear	Flange for elastic coupling for damping engine vibrations; Flange for hydraulic pump (track drive, DCF drive, fans drive, dust suppression system drive) and for driving the generator; switchable toothed clutch (for emergency and service only)	
- Generator	150 kVA at 50 Hz - 1.500 R.P.M.; for driving all other operating components except crusher, discharge feeder and fans	
- External power supply (plug-out)	Plug connection 125 A; 400V; 50 Hz; 3-phase (CE; CCC for China)	
- Hydraulic oil tank	240 Litres	(63 gal)

#### ATTENTION

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

### 10) CONTROL

- Type	PLC – IP 67; dust and vibration proof
- Display	LCD screen 7"
- 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
- Speed sensor for rotor	Included



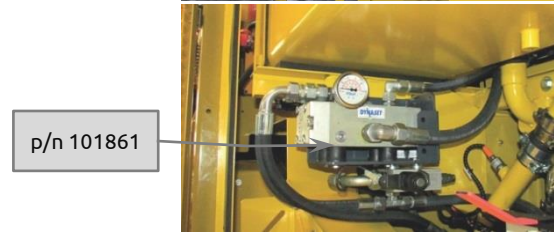
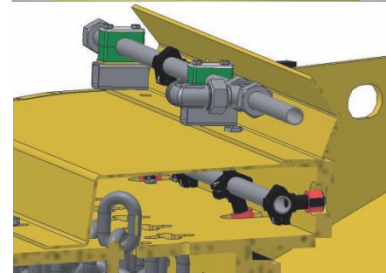
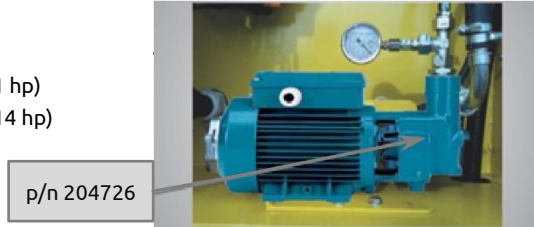
## TECHNICAL SPECIFICATION - OPTIONS

### 11) DUST SUPPRESSION SYSTEM

a) p/n 204726

b) HIGH PRESSURE p/n 101861

- Type	a) CA 91 A	
	b) HPW 200/30 - 45	
- Drive	a) E-motor 0,75 kW; 2.900 R.P.M.	(1 hp)
	b) 10 kW	(14 hp)
- Water consumption	Max. 0,75 m <sup>3</sup> /h	
- Spraying areas	Crusher inlet and outlet (optional end of main or fines conveyor)	

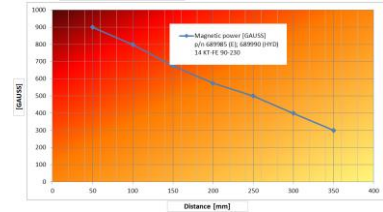
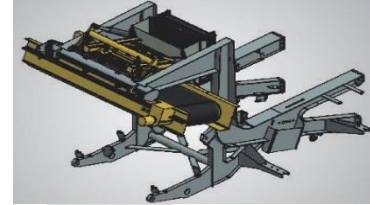


IMPACT CRUSHERS

## TECHNICAL SPECIFICATION - OPTIONS

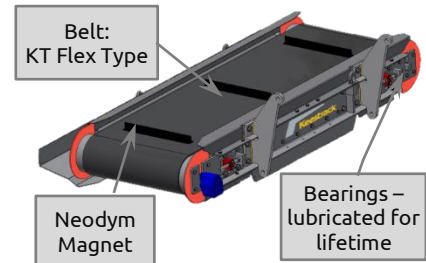
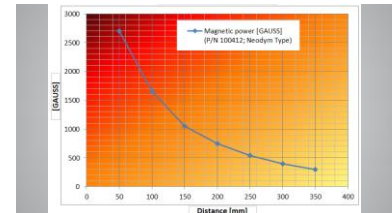
### 12) MAGNETIC SEPARATOR p/n X102669

- Type	14 KT-FE 90-230	
- Length	2.300 mm	(7'6")
- Width	950 mm	(2'11")
- Magnetic power	575 GAUSS at 200 mm distance	(4'11" x 2'11")
- Magnet dimensions	1.490 x 885	
- Speed	2,5 m/s	
- Drive	E-gear motor 5,5 kW	(7,5 hp)
- Height adjustment	Hydraulic height adjustment 150 - 345 mm	
- Weight	1.950 kg	(4.300 lb)



### 13) NEODYM MAGNETIC SEPARATOR p/n X102756

- Type	14 KT-ND 90-230	
- Belt width	950 mm	(2'11")
- Belt length (AD)	2.300 mm	(7'6")
- Magnet L x W	1.490 x 885 mm	(4'11" x 2'11")
- Magnetic power	825 GAUSS at 200 mm	
- Drive	E-gear motor 5,5 kW	(7,5 hp)
- Speed	2,5 m/s	
- Lift able and lower able	Hydraulic 150 up to 345 mm	
- Weight	<b>1.400 kg</b>	<b>(3.086 lb)</b>
- Remark:	Required if DOLLY is supplied for transport weight reasons	



### 14) CENTRAL GREASING SYSTEM incl. AFTERSCREEN

- KT	p/n 102027	
- Lincoln	p/n 103213	
- Cycle time	adjustable	
- Drive	On board electric, 24 V DC	
- Weight	6 kg	(13 lb)





## TECHNICAL SPECIFICATION - OPTIONS





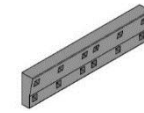
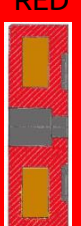
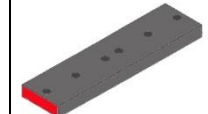

### 15) RADIO REMOTE CONTROL DUO 10 F PRO + JOYSTICK – Level 3

- Order no.	Remote	101453 (433 MHz for Europe) 103026 (915 MHz for Indonesia, China, USA)
	Sticker	101474
- Functions	Unit 1:	- Tracks forwards / backwards proportional with automatic speed control
	Unit 2:	- Upper apron up / down - Release of crusher inlet - RUB +/- proportional - SCR start / stop - MPC start / stop - DCF start / stop - Vibrating feeder start / stop and +/- proportional - Magnetic separator auf / ab - Automatic start / stop - Engine stop - Machine stop button (blue) - Display



## TECHNICAL SPECIFICATION - OPTIONS

### 16) BLOW BARS and APRON LINERS

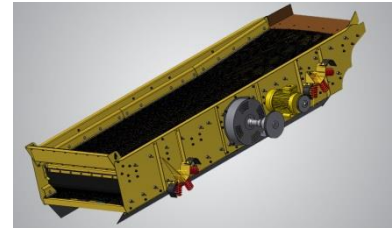
For Crusher	P/N	Material	Colour	Ca. Hardness [HRC] *	Weight [kg/pcs.]**	Application	Picture
1313 ECO EP, ECO FS, ECO-D-EP	KP X114979	Martensitic + Master ceramic (Inlay extra high)	BLUE  RAL 5010	54 - 58	320	Feed size < 500 mm; concrete with medium reinforcements of steel	
1313 ECO EP, ECO FS, ECO-D-EP	KP X116365	High Chrome + Master ceramic	RED 	60 - 65	320	Asphalt, secondary crushing, feed size < 150 mm	
1313 ECO EP, ECO FS, ECO-D-EP	102527	Apron liner Mn 18 Cr2	No colour		235	Concrete with reinforcement	
1313 ECO EP, ECO FS, ECO-D-EP	100821	Apron liner FX 25 Cr High Cr + Ceramic Inlay	RED 	60 - 65	256	Asphalt, secondary crushing, feed size < 150 mm Attention: 6 holes only! Apron has to be amended!	
1313 ECO EP, ECO FS, ECO-D-EP	102530	Apron liner High Manganese Mn18Cr2	No colour		78		

## TECHNICAL SPECIFICATION - OPTIONS

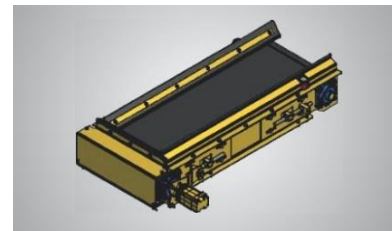
### 17) BUILT ON DOUBLE DECK SCREEN with OSR, RUB, FCO

p/n 643700

<b>SCREENBOX</b>	<b>53 SCR 500-00 E</b>	
- Width	1.500 mm	(5'0")
- Length	4.500 mm (without feeding tray)	(14'9")
- Drive	E-motor 11 kW, 1.460 R.P.M. with V-belts and joint shaft for 1.080 R.P.M	(15 hp)
- Tensioning system	Each deck 3 screen nets, mechanically side tensioned	
- Decks	2 Decks	



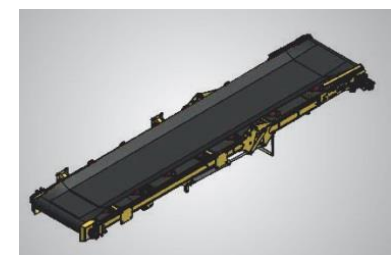
<b>OVERSIZE CONVEYOR</b>	<b>54 OSR 100-00 – GALVANIZED</b>	
- Length AD	1.900 mm	(6'3")
- Width BW	650 mm	(1'2")
- Belt speed	1,25 m/s	
- Drive	E-drum motor 3 kW	(5,5 hp)



<b>RECYCLING CONVEYOR</b>	<b>54 RUB 100-00 – GALVANIZED</b>	
- Length AD	7.680 mm	(25'2")
- Width BW	650 mm	(2'1")
- Belt speed	0,7 - 1,7 m/s	
- Inclination	26°	
- Drive	E-drum motor 7,5 kW with Freq. inverter	(10,2 hp)
- Max capacity	170 t/h	
- Rubber belt	EP 400/3 4+2 (Chevron)	
- Application	The conveyor can either be used for oversize recycling for crusher or as stockpile conveyor for the oversize fraction. Hydraulic swivelling mechanism.	



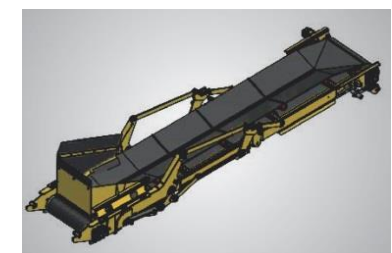
<b>FINES CONVEYOR</b>	<b>54 FCO 100-00 E – GALVANIZED</b>	
- Length AD	6.800 mm	(22'3")
- Width BW	1.200 mm	(4'0")
- Discharge height	4.150 mm	(13'7")
- Belt speed	1,6 m/s	
- Inclination	25°	
- Drive	E-drum motor 11 kW	
- Stockpile volume	Approx. 220 t (y=1,7; 37°)	(15 hp)
- For transport / service	Hydraulically fold-able	



### 18) PRE-SCREENING STOCKPILE CONVEYOR LEFT or RIGHT SIDE – GALVANIZED

p/n 689600

- Type	54 LSC 100-00 E	
- Length AD	5.400 mm	(17'9")
- Width BW	800 mm	(2'7")
- Discharge height	3.690 mm	(12'1")
- Belt speed	1,3 m/s	
- Inclination	22°	
- Drive	E-drum motor 5,5 kW	(7 hp)
- Stockpile volume	approx. 150 t (y=1,7; 37°)	
- For transport	hydraulically fold-able	
- weight	1.011 kg	(2.229 lb)



## TECHNICAL SPECIFICATION - OPTIONS

### 19) RIGHT SIDE CONVEYOR FOR MIDDLE FRACTION – GALVANIZED

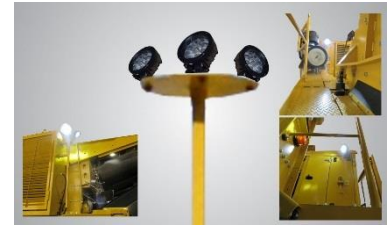
p/n X116508

- Type	54 RSC 100-00	
- Length AD	6.500 mm	(21'4")
- Width BW	650 mm	(2'2")
- Belt	EP 400/3 3+1,5 L63 CHEVRON	
- Discharge height	4.000 mm	(13'1")
- Belt speed	1,7 m/s	
- Inclination	22°	
- Drive	E-drum motor 5,5 kW	(10 hp)
- Stockpile volume	Approx. 200 t (γ=1,7; 37°)	
- For transport	Hydraulically fold-able	



### 20) WORKING LIGHTS

- Standard: 6 lamps	p/n 701006 (Tower 4 + 1 + 1)	
- Option: 6 + 6 lamps	p/n 103409 (2 x Tower 4 + 1 + 1)	
	LED lights 12/24 V; 45 W	
	each lamp: 9 pcs. LED's (p/n 205147)	
- protection degree	4500 Lumen	
- optional	IP69K	
- Weight	9 kg	(20 lb)



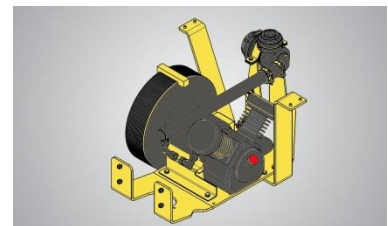
### 21) FUEL FILLING PUMP

- 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	



### 22) AIR COMPRESSOR p/n 644290

- Type	Electrically driven 4 kW	(5,5 hp)
- Air volume	590 l/min at 6 bar	
- Suction air volume	840 l/min with air filter	
- Air pressure	Max. 10 bar	
- Tank volume	60 l	(16 gal)
- Weight	135 kg	(298 lb)



### 23) WHEELED DOLLY (4 axles) p/n 101843

- Total axle load	40 t	
- Machine load on Dolly	35 t machine weight	
- king pin load	22,5 t	
- first 2 axles	fix	
- last 2 axles	trailer steered	
- Weight	5.200 kg	(11.000 lb)
- Remark	For transport, the right side conveyor and RUB, and the side dirt conveyor have to be removed	



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by TÜV NL/BE/DE



## TECHNICAL SPECIFICATION - OPTIONS

### 24) WHEELED DOLLY (4 axles) p/n 103223

- Total axle load	max. 48 t, each axle 12 t	
- 1 axle	fix	
- 3 axles	trailer steered with VSE-control	
- Remark	without certification costs	
- weight	6.000 kg	(13.227 lb)

### 25) PREPARATION FOR DOLLY p/n 103189

- Contains	Lights, air pressure pipework, air pressure tank, ...	
- Weight	50 kg	(110 lb)

### 26) BELT SCALE for FCO p/n 101392; LSC p/n X105176

- System	Weight recording
- Display	Feed capacity summary, daily feed capacity, actual capacity, belt speed
- Components	Roller station for weight take-up Speed take-up station Display with electronic unit with printer and data transfer



### 27) WINDSIFTING (AIR KNIFE) for OVERSIZE FRACTION p/n X105187

- Fan diameter	710 mm	
- Installed power	E-motor 15 kW @ 2.800 R.P.M.	
- Hoses	2 pieces dia. 114 mm	
- Air volume	39 m³/min @ 10.000 Pa	
- Weight	282 kg	(622 lb)



IMPACT CRUSHERS

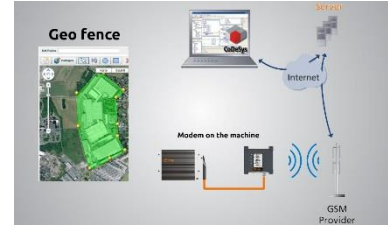
## TECHNICAL SPECIFICATION - OPTIONS

### 28) 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.



- International roaming SIM-card 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:

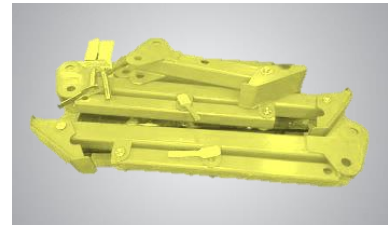
- Location data of the machine
- Machine usage data (such as: performance of the engine and other functions)

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.

### 29) SUPPORTING LEGS FOR AFTER SCREEN p/n 101468

- application 4 pcs. supporting legs
- weight 100 kg (220 lb)



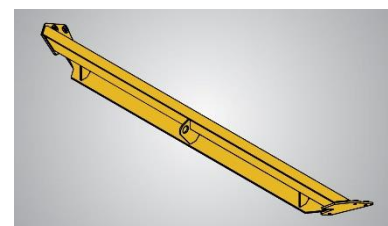
### 30) WALKWAY FOR SCREEN - LEFT SIDE p/n 101468

- description additional walkway on the left side
- weight 143 kg (315 lb)



### 31) HOPPER WALL EXTENSION REAR + LEFT SIDE p/n X115404

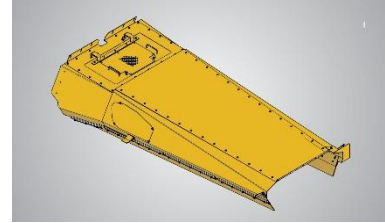
- dimensions H = 500 mm; HB450
- weight 335 kg (739 lb)



## TECHNICAL SPECIFICATION - OPTIONS

### 32) DUST COVER MPC p/n 666855

- length 3.900 mm (13')
- weight 360 kg (794 lb)



### 33) HEATING SYSTEM for ENGINE UNIT p/n 203460

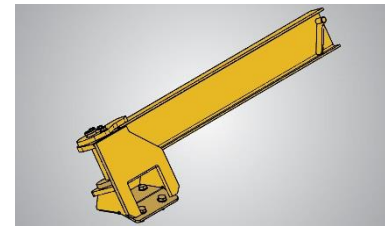
- Heating power up to 9,1 kW;
- Fuel consumption 0,19 - 1,1 l/h
- Voltage / Watt 24V; 37-90 W
- Operating temperature -40°C - + 80°C
- Weight 4,8 kg
- Additional Incl. timer for 3 starting times and temperature pre-selection



HEATING SYSTEM FOR ENGINE

### 34) SWIVELLING HOIST p/n X109590

- description for changing blow bars (without crane)
- weight 69 kg (152 lb)



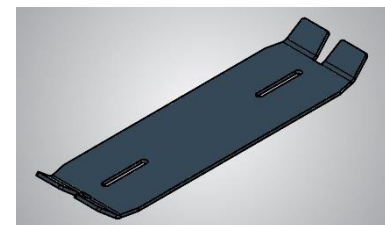
### 35) SALT SPRAY PROTECTION COAT p/n 103572

- Type WAX KX100

### 36) CUSTOMIZED PAINTING p/n 605281

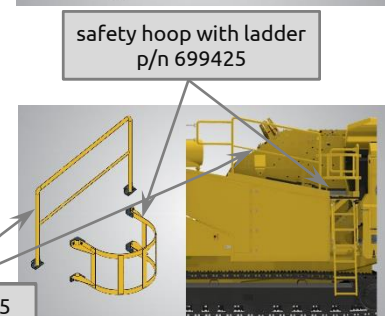
### 37) TRACK PADS FOR CRAWLERS p/n X105422

- Type s= 5 mm; HB 500
- weight 273 kg (602 lb)



### 38) SAFETY KIT p/n 699425 and p/n 668375

- safety hoop with ladder for access platform 12 kg; p/n 699425 (26 lb)
- railing 14 kg; p/n 668375 (31 lb)



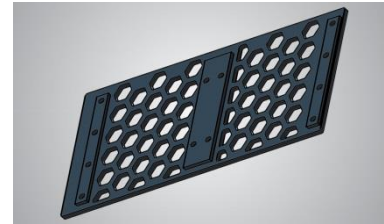
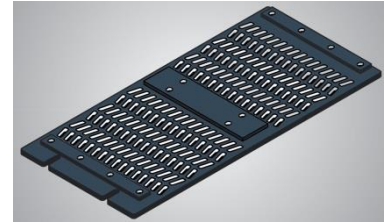
safety hoop with ladder p/n 699425

railing p/n 668375

## TECHNICAL SPECIFICATION – SCREEN CHOICE

### 39) SCREENS for TOP DECK of PRE-SCREEN

	p/n	Dimensions	Thick-ness [mm]	Hard-ness
BLINDPLATE	X111423	BLINDPLATE	12	HB 450
ZIG ZAG	X111424	ZIG ZAG 20 x 65 mm	20	HB 450
	X111425	ZIG ZAG 25 x 70 mm	20	HB 450
	X111426	ZIG ZAG 30 x 95 mm	20	HB 450
	X111427	ZIG ZAG 38 x 130 mm	20	HB 450
	X111428	ZIG ZAG 45 x 125 mm	20	HB 450
HEXAGONAL	X113921	HEXAGONAL 55 mm	20	HB 450
	X111429	HEXAGONAL 64 mm	20	HB 450
	X111430	HEXAGONAL 70 mm	20	HB 450
	X111431	HEXAGONAL 80 mm	20	HB 450



### 40) SCREENS for BOTTOM DECK of PRE-SCREEN

	p/n	Dimensions
Square mesh	202803	15 x 15 x 3 mm
	202801	20 x 20 x 4 mm
	202765	22 x 22 x 4 mm
	202769	25 x 25 x 7 mm
	202802	30 x 30 x 5 mm
	202890	40 x 40 x 7 mm
	202795	50 x 50 x 8 mm
	202739	BLINDPLATE PU
	BLINDPLATE PU	202739



### 41) SCREENS for AFTER SCREEN

Square mesh  
(TD and BD is the same; for each deck 3 screens are necessary)

p/n	Dimensions
202770	8 x 8 x 2,5 mm
202782	12 x 12 x 3 mm
202781	17 x 17 x 4 mm
202825	22 x 22 x 4 mm
202771	25 x 25 x 5 mm
202880	30 x 30 x 5 mm
202799	32 x 32 x 5 mm
202787	35 x 35 x 7 mm
202790	40 x 40 x 8 mm
202870	45 x 45 x 8 mm
202824	50 x 50 x 8 mm
202786	55 x 55 x 8 mm
202780	60 x 60 x 10 mm
202804	70 x 70 x 10 mm
202806	100 x 100 x 12,5 mm

