

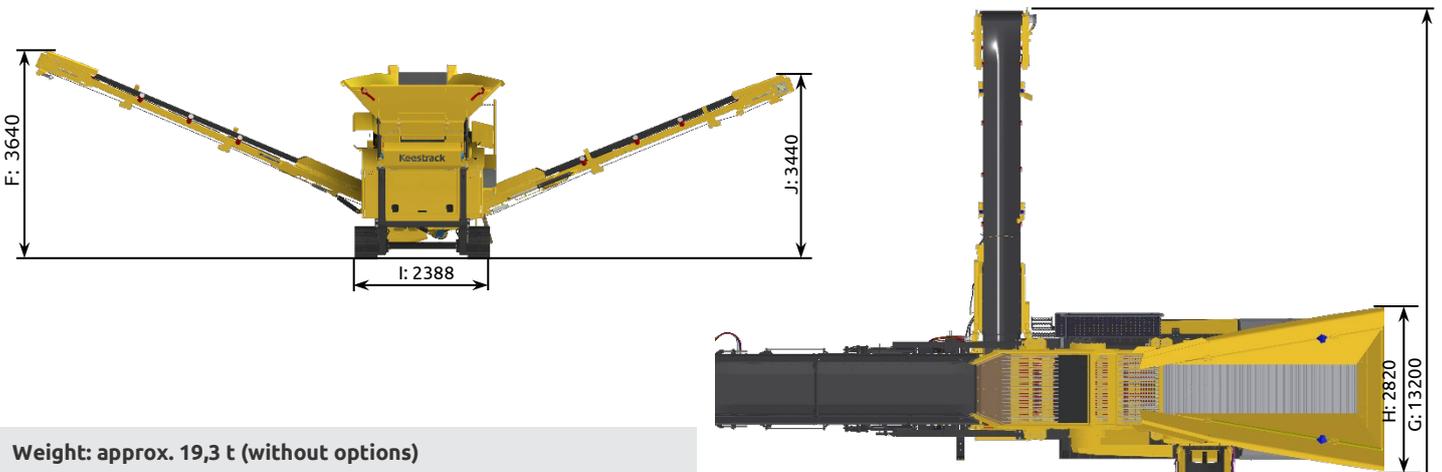
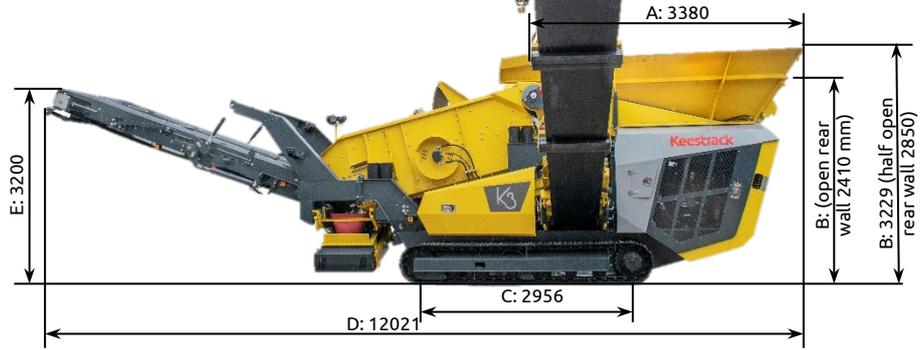
# SCALPER K3e

3-WAY-SPLIT



## DIMENSIONS

### OPERATION:



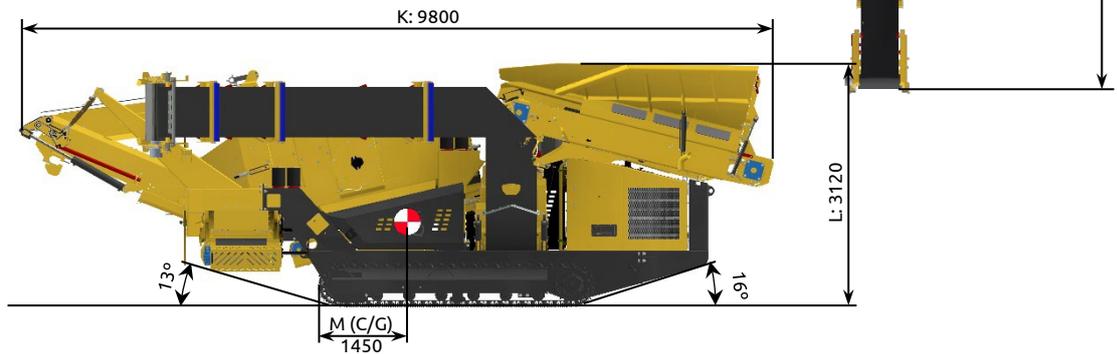
**Weight: approx. 19,3 t (without options)**

Weight options:

- Magnetic separator 10 KT FE ELE + approx. 1.110 kg
- Hopper wall extension + approx. 400 kg

**Transport width 2.550 mm (8'4")**

### TRANSPORT:



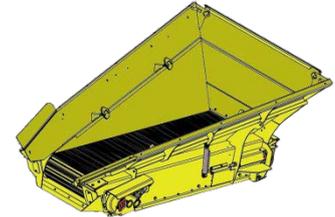
**REMARK:** All pictures might show options, not included in the scope of supply

A	B	C	D	E	F	G	H	I	J	K	L	M
3380	3229	2965	12021	3200	3280	13330	2820	2550	3400	9800	3120	1140
11'1"	10'7"	9'9"	39'5"	10'6"	10'9"	43'9"	9'3"	8'4"	11'2"	32'2"	10'3"	3'9"

## TECHNICAL SPECIFICATION

### 1) FEED HOPPER

- Content	4 m <sup>3</sup>	(5,2 yard <sup>3</sup> )
- Design	Wear resistant steel HB 450	
- Feeding height	Min. 2.410 mm	(7'11")
- Feeding width	2.820 mm	(9'3")
- Feeding length lateral	3.380 mm	(11'1")
- Hopper walls	All three hopper walls are folding hydraulic	



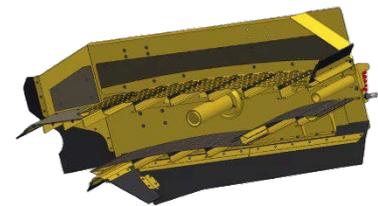
### 2) PLATE APRON FEEDER

- Model	31 APR 370-00-H	
- Full adjustable speed	0 - 4,8 m/min	(0-16 ft/min)
- Axle distance	3.150 mm	(10'4")
- Plate width	1.000 mm	(3'3")
- Drive	Hydraulic with gearbox 5 kW	(7,5 hp)
- Feed capacity	250 t/h	



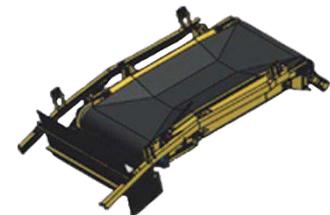
### 3) DOUBLE DECK SCREEN

- Model	31 SCR 220-00-H	
- Length x width	2.700 mm x 1.200 mm	(8'10" x 4'0")
- Effective screen area	Top deck 3,24 m <sup>2</sup> Bottom deck 3,24 m <sup>2</sup>	
- Top deck screens	1 pcs. end tensioned	
- Bottom deck screens	2 pcs. end tensioned	
- Drive	Hydraulic 7,5 kW	(10,2 hp)



### 4) UNDERSCREEN CONVEYOR

- Model	31 USC 210-00-E	
- Length	3.000 mm	(9'10")
- Width	800 mm	(2'7")
- Drive	5,5 kW electric drum motor; 1,3 m/s	(7,5 hp)
- Rubber belt quality	EP 400/3 4+2 Grade N1	



### 5) OVERSIZE BELT CONVEYOR

- Model	31 MCL 110-00-E	
- Length	5.000 mm	(16'5")
- Width	1.000 mm	(3'3")
- Drive	E-gear motor 7,5 kW; 0,51 m/s @ 50 Hz	(11 hp)
- Rubber belt quality	EP 630/4 6+2 Option: p/n 609178 (CHEVRON W = 750 mm H = 25 mm)	
- Transport	Hydraulically fold-able	
- Stockpile volume	Approx. 100 t; $\gamma=1,7$ ; 37° angle of repose	



### 6) STOCKPILE BELT CONVEYOR LEFT (FINE FRACTION)

- Model	31 LSL 410-00-E (can be mounted also right side)	
- Length	7.500 mm	(24'7")
- Width	650 mm	(2'2")
- Drive	E-drum motor 5,5 kW; 1,3 m/s @ 50 Hz	(7,5 hp)
- Rubber belt quality	EP 400/3 3+1,5 Grade N17	
- Transport	Hydraulically fold-able	
- Stockpile volume	Approx. 150 t ( $\gamma=1,7$ ; 37° angle of repose)	



## TECHNICAL SPECIFICATION

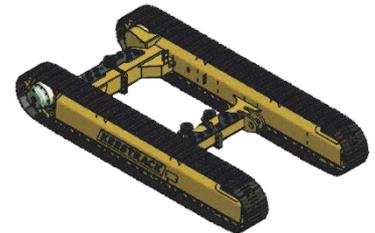
### 7) STOCKPILE BELT CONVEYOR RIGHT (MIDDLE FRACTION)

- Model	31 RSL 430-00-E (can be mounted also on the left side)	
- Length	7.500 mm	(24'7")
- Width	650 mm	(2'2")
- Drive	E-drum motor 5,5 kW; 1,3 m/s @ 50 Hz	(7,5 hp)
- Rubber belt quality	EP 315/3 3+1,5 Chevron W=375 H=15 mm	
- Transport	Hydraulically fold-able	
- Stockpile volume	Approx. 130 t ( $\gamma=1,7$ ; 37° angle of repose)	



### 8) TRACK - UNIT

- Model	31 TRA-500-00-E	
- Length	2.965 mm	(9'9")
- Width track shoe	400 mm	(1'4")
- Total width	2.320 mm	(7'7")
- 2 speed	1,1 km/h and 1,9 km/h	(0,7 / 1,2 mph)
- Drive	Hydraulic piston motor and planetary gears	



# TECHNICAL SPECIFICATION

## 9) ENGINE UNIT

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

- Model	34 ENU 330-00-E	
- Diesel engine type	a) DEUTZ TCD 2.9 L4 T5, 4 cylinder in-line (EU+US) – (s)	p/n 101323St5
	b) DEUTZ TCD 2.9 L4; 4 cylinder in-line (REM) – (s)	p/n 101322A
- Emission control	a) Tier 4f; EU STAGE V; DOC; DPF	
	b) Tier 4f; EU STAGE IIIB; DOC	
- Power acc. to ISO 14396	a + b) 45 kW @ 1.500 R.P.M.; 55 kW @ 1.800 R.P.M.	(61 hp / 75 hp)
- Max. torque	a + b) 300 Nm / 1.600 R.P.M.	(221 lbft)
- Engine speed	1.800 R.P.M.	
	Low engine speed for low fuel consumption	
- Bore/ Stroke	a + b) 92 / 110 mm	(3,7" x 4,4")
- Displacement	a + b) 2.920 cm <sup>3</sup>	(178 cuin)
- Voltage	24 V (for improved cold start properties)	
- Battery	2 pcs. 110 Ah, 770 A	
- Electrical starter	3,5 kW; 24 V	
- Alternator	28 V; 55 A	
- Engine Operation	4-stroke Diesel direct injection turbo-charged	
- Cooling	water-cooled	
- Pushing Fan	550 diameter	
- Air Cleaner	dry type air-cleaner with cyclone pre- cleaner primary and safety elements	
- Fuel tank	280 litres (plastic)	(74 gal)
- Fuel pre-filter	with water separator	
- Fuel code	according to EN 590	
- Consumption	a + b) 210 g/kWh / 1.800 R.P.M. (typical 6 - 8 l/h)	
- Alternator	ECO 32-2L/4; 75 kVA	

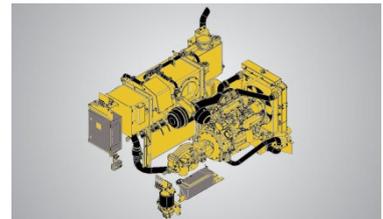
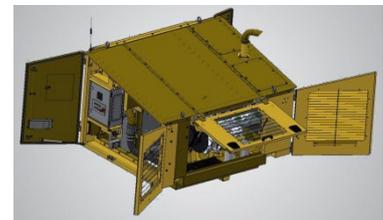
### ATTENTION

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

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



Alternator Diesel engine



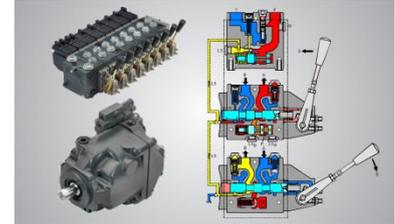
Power plug out  
 63 A, 400 V; 50  
 Hz; 3 phase  
 socket

Power plug in  
 63 A, 400 V;  
 50 Hz; 3 phase  
 plug

## TECHNICAL SPECIFICATION

### 10) HYDRAULIC

Hydraulic main pump	Variable flow, swash plate pump load sense open loop circuit 60 ccm (for tracks, apron feeder, screen and folding of components)	
Drive of hydraulic pump	E-motor 1500 R.P.M.; 37 kW	(50 hp)
Max. flow	90 L/min	(25 gpm)
Max. pressure	265 bar	
Pump regulation	servo hydraulic load sensing regulation, pressure compensation, automatic flow optimizer	
Hydraulic tank	220 l (plastic)	(58 gal)
Hydraulic oil filter	1 full flow filter in return line with integrated fine filter (10 µm)	(p/n 101187)
Hydraulic oil cooler	Integrated compact cooler, with water and air cooling package	
Hydraulic valves	PVG 32 proportional 5 bank valve	



### 11) CONTROL

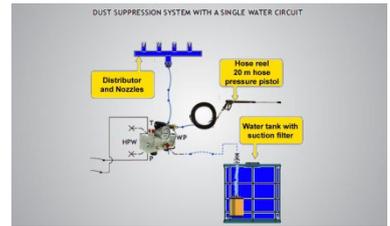
- Type	PLC – IP 67; dust and vibration proof
- Display	LCD screen 3,5"
- Operation	Control panel
- Controller	Wired hand remote controller; or optional Radio remote controller (see option list)
- Temperature control of hydraulic oil	> 83° C protection; first feeder stops, later engine stops
- Diesel 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 screenbox	Included



## TECHNICAL SPECIFICATION - OPTIONS

### 12) DUST SUPPRESSION SYSTEM p/n 611980 (without pump)

- System p/n X109589 low pressure
- Spraying area Main + left + right side conveyor + screen/APR
- Drive Hydraulic motor 1,1 kW (1,5 hp)
- Water consumption 2 m<sup>3</sup>/h
- Pressure 5 bar
- Components 4 ball valves (all 4 spraying points can be opened / closed separately);  
18 x nozzles 1,12 l/min; filter to customer's tank;  
hose reel with 20 m hose and pressure pistol
- Weight 283 kg (624 lb)



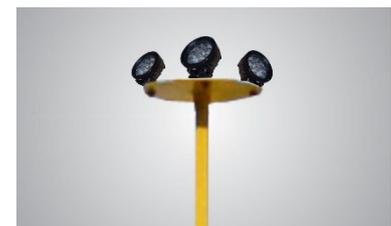
### 13) RADIO REMOTE CONTROL – Level 2

- Order no. Remote 103162  
Sticker 101464
- Functions
  - Tracks forwards / backwards with automatic speed control
  - Main belt conveyor start / stop and +/-
  - Side conveyor MCL start / stop and +/-
  - Apron feeder start / stop and +/-
  - Automatic start / stop
  - Machine stop button (blue)
  - Display



### 14) WORKING LIGHTS p/n 611447 or 701006

- Tower with 4 lamps p/n X108363  
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)



### 15) FUEL FILLING PUMP p/n 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 absorbent media
- Suction hose 3/4" 1,5 m long
- Drive On board-electric 24 V DC



## TECHNICAL SPECIFICATION - OPTIONS

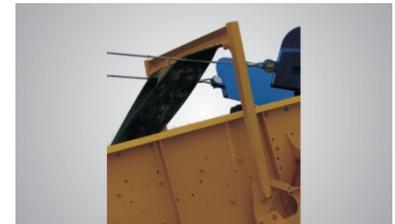
### 16) ANTI CLOGGING SYSTEM p/n 102381

- Application To be used for bottom deck if the feed material is sticky and the deck is clogging
- Weight 15 kg (33 lb)



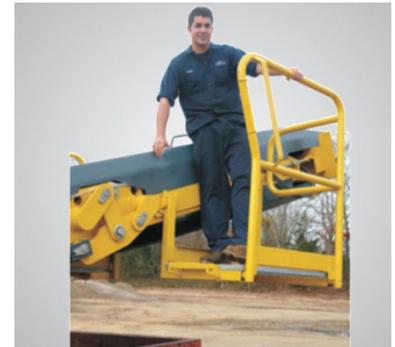
### 17) SCREEN FLOW BRAKE p/n 616765

- Application To slow down fast-moving material that is bigger than 200 mm, to allow better screening efficiency.
- Weight 136 kg (290 lb)



### 18) PICKING STATION

- Picking station application To take out pieces of wood and plastic from the demolition material
- Available parts
  - p/n 610429: left and right side; 260 kg (570 lb)
  - p/n 610427: right side; 130 kg (285 lb)
  - p/n 610428: left side; 130 kg (285 lb)
  - p/n 615671: preparation for picking station
- Adjustment speed MCL optional frequency control or optional via radio remote control Level 2 (p/n 100371)



### 19) Options LSL and USC

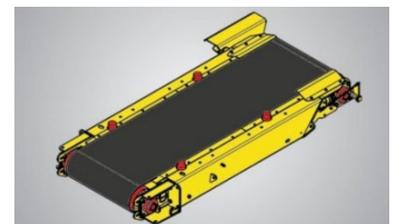
#### TUNGSTEN SCRAPERS

- Application For wet and sticky material
- Available parts
  - p/n 102289: Tungsten scraper LSL + USC
  - p/n 101560: Tungsten scraper USC
  - p/n 101953: Tungsten scraper LSL



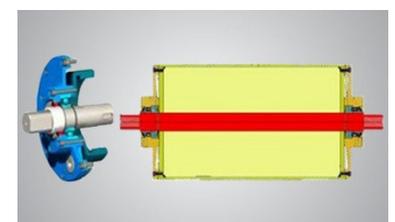
### 20) BELT FEEDER p/n 612247

- Model 31 BFR 100-00-K12 (for feeding fine material)
- Full adjustable speed 0 - 4,8 m/min (0-16 ft/min)
- Axle distance 3.083 mm (10'4")
- Belt width 1.000 mm; EP 500/3 8+2 RIPSTOP (3'3")
- Drive Hydraulic with gearbox 5 kW (7,5 hp)
- Feed capacity 250 t/h
- Weight -1.325 kg (-2.800 lb)



### 21) RETURN DRUMS BEARINGS LIFE TIME LUBRICATED p/n 101555

- On conveyors MCL, LSL, RSL; USC
- Description - Bearings maintenance free for the total life time

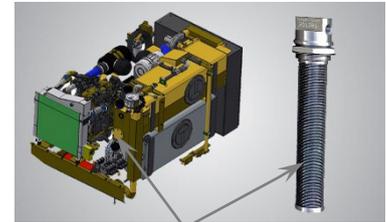


## TECHNICAL SPECIFICATION - OPTIONS

### 22) HEAT PROBE FOR HYDRAULIC OIL p/n 103614

(this option is only available together with the heating system p/n 203460)

- Type HP 2024-ORB;
- Description Turbulated Immersion Heat Exchanger  
Multiple immersion tank heaters utilize hot coolant to keep bulk fluids warm
- Order information This heating system is available for the dieseltank and the hydraulic oil tank (order each extra!)
- Insert length 610 mm (24")
- Output at -30° C 3 kW (4 hp)



Heat Probe

### 23) Option for ENGINE UNIT p/n 203460

**HEATING SYSTEM FOR ENGINE** p/n 203460

- Heating power up to 9,1 kW; (12 hp)
- 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



HEATING SYSTEM FOR ENGINE

## TECHNICAL SPECIFICATION – SCREEN CHOICE

### 01) TOP DECK

#### PUNCHED PLATES

(feed size up to 400 mm)

p/n	Description
202382	TD CUTTED 40 mm - HB 450
202383	TD CUTTED 45 mm - HB 450
202384	TD CUTTED 50 mm - HB 450
202386	TD CUTTED 60 mm - HB 450
202387	TD CUTTED 65 mm - HB 450
202388	TD CUTTED 70 mm - HB 450
202390	TD CUTTED 80 mm - HB 450
202392	TD CUTTED 90 mm - HB 450
202380	TD CUTTED 100 mm - HB 450
202601	TD CUTTED 125 mm - HB 450
654933	TD CUTTED Front 125 mm – HB 450 Rear 150 mm - HB 450



#### WELDED WIRE MESH

p/n	Description
202296	TD WELDED 45 x 45 x 10 mm
202298	TD WELDED 55 x 55 x 12 mm
605234	TD WELDED 65 x 65 x 12 mm
202302	TD WELDED 80 x 80 x 12 mm



#### WOVEN WIRE MESH

p/n	Description
202228	TD MESH 16 x 16 x 3 mm
202175	TD MESH 20 x 20 x 4 mm
202417	TD MESH 25 x 25 x 5 mm
202418	TD MESH 30 x 30 x 5 mm
202093	TD MESH 35 x 35 x 7 mm
202245	TD MESH 40 x 40 x 5 mm
202247	TD MESH 50 x 50 x 8 mm
202246	TD MESH 45 x 45 x 8 mm
202248	TD MESH 55 x 55 x 9 mm
202250	TD MESH 60 x 60 x 9 mm
202252	TD MESH 70 x 70 x 9 mm
202254	TD MESH 80 x 80 x 12,5 mm



## TECHNICAL SPECIFICATION – SCREEN CHOICE

### 01) TOP DECK

#### FINGER SCREENS

Finger dimensions  $\varnothing 36 / \varnothing 17 \text{ mm} - 800 \text{ mm}$ ; p/n 101106

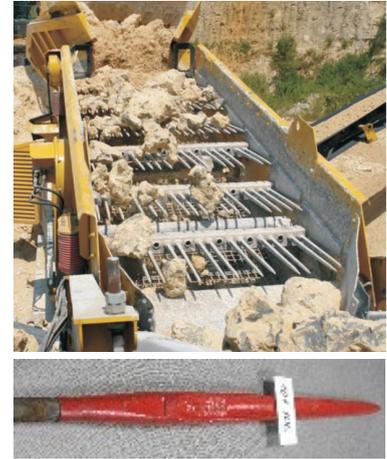
#### REMARK:

Finger openings average [mm]; forged fingers; deviations are possible; measuring of opening is in the beginning of the second third of the length of the finger.

p/n	mm	Inch
202497	45	1 3/4"
202498	52	2"
202499	60	2 1/3"

#### GAP:

minus 5 mm with every second finger turned by 90°  
 respectively minus 10 mm with all fingers turned by 90°

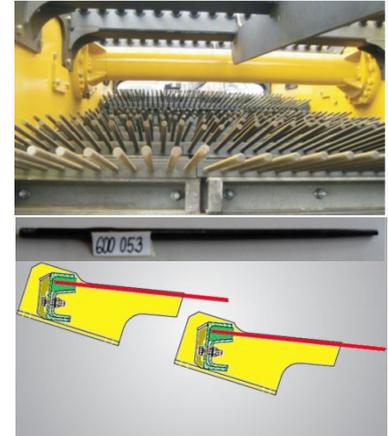


## TECHNICAL SPECIFICATION – SCREEN CHOICE

### 02) BOTTOM DECK

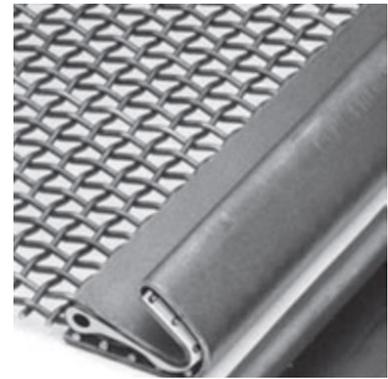
#### FINGER SCREENS With PU base

p/n	Description
612737	Fingers-segment $\varnothing$ 10/ s=15 mm
612738	Fingers-segment $\varnothing$ 12/ s=20 mm
612739	Fingers-segment $\varnothing$ 12/ s=27 mm
612740	Fingers-segment $\varnothing$ 15/ s=30 mm
202506	Bottom deck finger deck cassette frame



#### WOVEN WIRE MESH

p/n	Description
202055	BD MESH 2 x 2 x 1,25 mm
202227	BD MESH 3 x 3 x 2 mm
202425	BD MESH 4 x 4 x 2 mm
202231	BD MESH 6 x 6 x 2 mm
202180	BD MESH 8 x 8 x 2,5 mm
202137	BD MESH 10 x 10 x 3 mm
202225	BD MESH 12 x 12 x 3 mm
202996	BD MESH 15 x 15 x 3 mm
202341	BD MESH 16 x 16 x 3 mm
202522	BD MESH 18 x 18 x 4 mm
202998	BD MESH 20 x 20 x 4 mm
202528	BD MESH 22 x 22 x 4 mm
202997	BD MESH 25 x 25 x 5 mm
202157	BD MESH 30 x 30 x 5 mm
202131	BD MESH 35 x 35 x 7 mm
202995	BD MESH 40 x 40 x 8 mm
202449	BD MESH 45 x 45 x 8 mm
202143	BD MESH 50 x 50 x 8 mm
202256	BD MESH 55 x 55 x 10 mm
202058	BD MESH 60 x 60 x 8 mm
202647	BD MESH 70 x 70 x 10 mm



#### HARP SCREEN

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

p/n	Description
202404	BD HARP 3 x 200 x 1,2 mm
202405	BD HARP 4 x 200 x 1,2 mm
202191	BD HARP 6 x 200 x 2 mm
202158	BD HARP 8 x 200 x 2 mm
202336	BD HARP 10 x 100 x 2,5 mm
202188	BD HARP 10 x 200 x 2,5 mm
202179	BD HARP 12 x 200 x 2,5 mm
202150	BD HARP 15 x 200 x 3 mm
202473	BD HARP 18 x 100 x 3 mm
202545	BD HARP 20 x 100 x 4 mm
202207	BD HARP 20 x 200 x 4 mm
202209	BD HARP 25 x 200 x 4 mm
202210	BD HARP 30 x 200 x 5 mm



#### SERPA DIAMOND

202573	BD HARP- SERPA 6 x 200 x 2,5 mm
202264	BD HARP- SERPA 10 x 200 x 3 mm
202265	BD HARP- SERPA 12 x 200 x 3 mm
202266	BD HARP- SERPA 15 x 200 x 3 mm
202582	BD HARP- SERPA 16 x 120 x 3 mm

