

LIPPMANN

Specifications

300c-r

Track-Mounted Cone Crusher



DESCRIPTION

Heavy duty track mounted crusher with following features:

- MC300 cone
- 510Hp D13 Volvo Penta engine / 516Hp C13 CAT LRC / 536Hp C13 CAT Stage V
- Tracked
- Integrated hopper with folding rear door
- I-beam plate fabricated chassis construction
- Large gap between crusher discharge and main conveyor feedboot
- Open chassis design for ease of maintenance
- Fast setup time

DIMENSIONS AND WEIGHTS

Length – transport all models	20.65m (67' – 9")
Width – transport all models	3.83m (12' – 7")
Height – transport truck	3.6m (11' – 9.7")
Weight – track	59,200 Kgs (no meshes, no extensions)

CAPACITIES

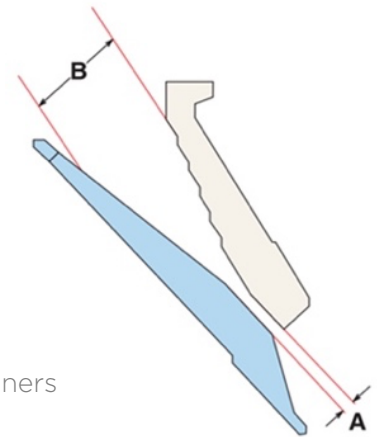
Diesel tank capacity	1100L (290 US gal)
Hydraulic tank capacity	800L (211 US gal)

FEEDER

Feeder opening width	910mm (36")
Feeder drum crs.	6000mm (19' 8.2")
Drive	Hydraulic
Feeder belt width	1200mm (48")
Motor	Danfoss OMSS 125
Gearbox	Bonfig 809 W2 24.2:1
Flow rate	128 Lpm (33.8 US gpm)
Adjustable speed	Yes
Maximum speed	42 rpm

CRUSHING CHAMBER

Feed opening	1050mm (41")
Crusher input speed	750 – 950 rpm
Crusher drive	Direct drive
Min. opening	See chart below
Max. opening	See chart below
Cone weight	16,000kg (35,273 lbs)
Closed side setting adjustment	Hydraulic
Level sensor	Ultrasonic
Throw	84mm at discharge with new liners
Power required	200 Hp



CRUSHER CAVITY SELECTION			
		STANDARD	
CRUSHER SIZE	CAVITY	MINIMUM SETTING "A" 1	FEED OPENING "B" 2
MC200	Fine	13mm (0.5")	95mm (3.74")
	Medium	17mm (0.67")	125mm (4.92")
	Coarse	19mm (0.75")	185mm (7.28")
MC300	Fine	13mm (0.5")	107mm (4.21")
	Medium	17mm (0.67")	150mm (5.91")
	Coarse	19mm (0.75")	211mm (8.31")
MC400	Fine	20mm (0.79")	198mm (7.8")
	Medium	25mm (0.98")	252mm (9.92")
	Coarse	30mm (1.18")	299mm (11.77")

HOPPER

Length	3780mm (12' – 4.9")
Width	2200mm (7' – 2")
Volume	5m³ (6.5yd³) leveled off, 6.2m³ (8.1 yd³) heaped
Material	6mm sides + 10mm Hardox liners

MAIN CONVEYOR

Stockpile	3887mm (12' - 9")
Belt width	1200mm (48")
Belt spec	Plain 500/3 8+2
Drive drum dia.	350mm (13.7")
Tail drum dia.	270mm (10.6")
Motor	OMV800
Flow rate	89.6 Lpm (23.7 US gpm)
Maximum speed	112 rpm
Angle adjustable	Yes
Quick release	Yes

POWERUNIT AND HYDRAULICS

Engine	Volvo D13 Tier 5 Final or Tier 3
Engine power	380 Kw (510 Hp)
Engine speed	1570 - 1900 rpm
Cone drive clutch	PTtech HPTO14TF1
Flywheel pump 1 (tracks / feeder)	Kawasaki K3VL80
Flywheel pump 2 (tracks / main conveyor)	Kawasaki K3VL80
LH PTO pump 3 (auxiliary / lube / pilot)	Turolla 29/29/10
Front PTO pump 4 (recirc screen / conveyors)	Turolla 45/36
Total system flow (max)	460.8 Lpm (121 US gpm)
Hydraulic tank capacity	800 L (211 US gals)
Hydraulic tank ratio	1.7:1
Hydraulic oil cooler	Yes

RECIRC SYSTEM – SCREENBOX

Dimensions - top deck	4287mm x 1830mm (14' x 6')
Bearing type	NSK/RHP 22318
Screens - top deck	6' x 4' side tension - 3 off 6' x 2' side tension - 1 off
Screens - bottom deck	6' x 4' side tension - 3 off
Tensioning	Quick release pin and wedge
Screen angle	25°
Screen motor	DBH MCC2208 (58.7cc/rev)
Drive system	Direct drive with HRC150 coupling
Hydraulic flowrate	84.6 Lpm (22.5 US gpm)
Speed adjustable	Yes - pressure compensated FCV
Screen stroke adjustable	8 - 10mm
Screen shaft speed	950 rpm
Screen 'g' force	5.05

RECIRC SYSTEM – RETURN CONVEYOR

Belt width	650mm (26")
Belt spec	Chevron - 500/3 5+1.5 C15
Drive drum dia.	290mm (11.5")
Tail drum dia. (spoked)	270mm (10.6")
Motor	OMT500
Flow rate	68.4 Lpm (18 US gpm)
Adjustable speed	Yes
Maximum speed	135 rpm
Quick release	Yes
Radial to side for stockpiling	Yes

RECIRC SYSTEM – TRANSFER CONVEYOR OVERSIZE

Belt width	600mm (23.6")
Belt spec	Plain 600/3 4+2
Drive drum dia.	178mm (7")
Tail drum dia.	187mm (7.36") - spoked
Motor	OMH500
Flow rate	68.4 Lpm (18 US gpm)
Adjustable speed	Yes
Maximum speed	135 rpm

RECIRC SYSTEM – FINES CONVEYOR

Stockpile height	3085mm (10' - 1.4")
Belt width	1500mm (60")
Belt spec	Plain 500/3 8+2
Drive drum dia.	285mm (11.2")
Tail drum dia.	286mm (11.2") - spoked
Motor	OMV630
Flow rate	85.5 Lpm (22.5 US gpm)
Maximum speed	135 rpm

RECIRC SYSTEM – TRANSFER CONVEYOR MID PRODUCT (2 DECK ONLY)

Stockpile height	1821mm (5' - 11.7")
Belt width	600mm (23.6")
Belt spec	Plain 600/3 4+2
Drive drum dia.	178mm (7")
Tail drum dia.	187mm (7.36") - spoked
Motor	OMH500
Flow rate	68.4 Lpm (18 US gpm)
Adjustable speed	Yes
Maximum speed	135 rpm

ELECTRICS

Emergency stops	4 off, 2 feeder, 2 powerunit
Chassis cabling	Armored cable
Start siren	Yes - 10 sec delay
Control panel	Tedd Engineering / IFM
Engine shutdowns	Low oil pressure
	High water temp
	Air filter blockage (selectable)
	Fuel contamination
	Low hydraulic tank level
	Low lube oil flow
	Low lube oil pressure
	High lube oil temperature
	High hydraulic oil temperature
Radio control tracks and feeder	Standard
Pendant track control	Yes - plugged in control cabinet

TRACKS

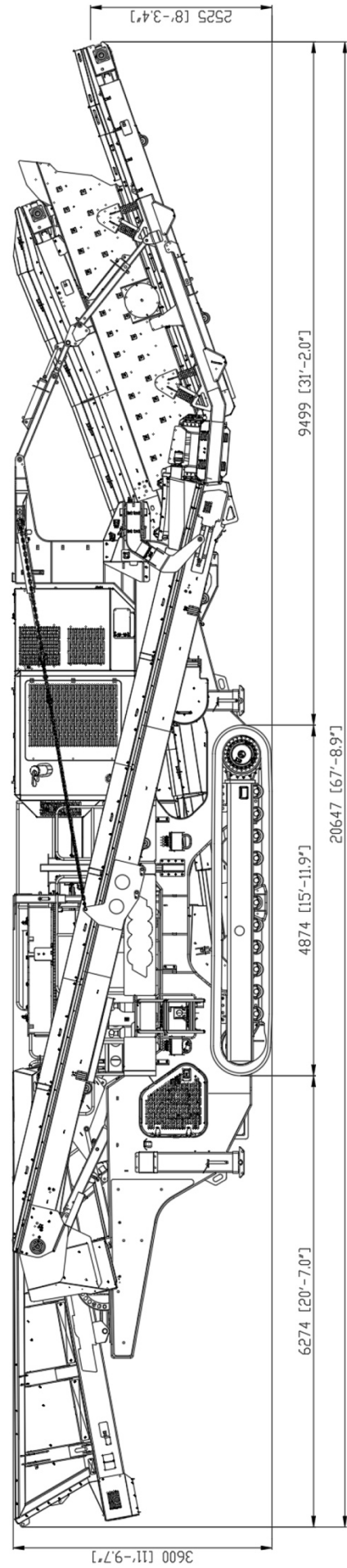
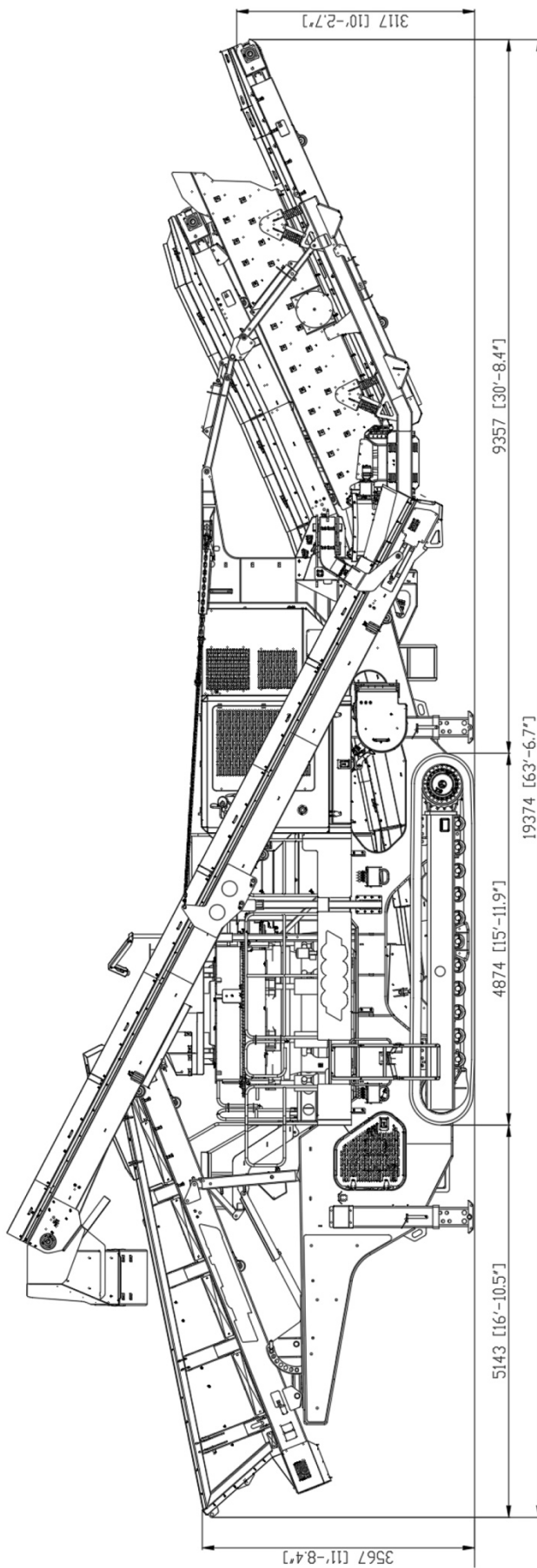
Width	400mm (15.7")
Length	4050mm (13' - 3") crs
Height	852mm (33.5")
Gearbox	Bonfiglioli 713
Ratio	142.2:1
Motor	Rexroth 108
Speed max	1.50 Kph (0.93 mph)
Flow rate	152 Lpm (40.2 US gpm)
Multiple speeds	Three speed system selectable at control panel with smooth start / stop

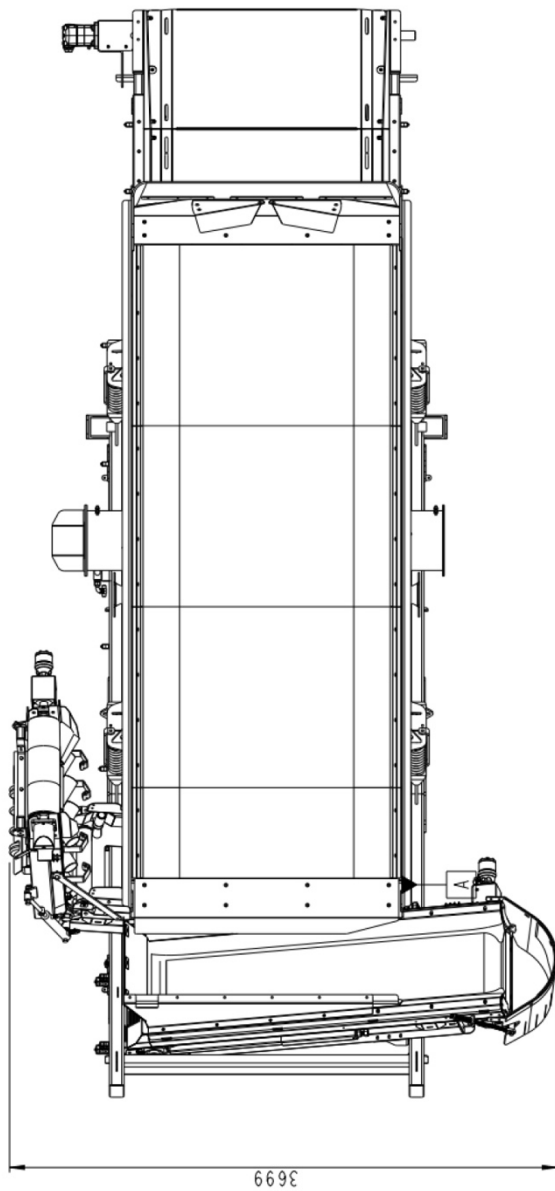
OPTIONS

- Hopper extensions
- Water pump and dust suppression system
- Various cone liner options
- Work lights
- Belt scale
- Refueling pump - standard

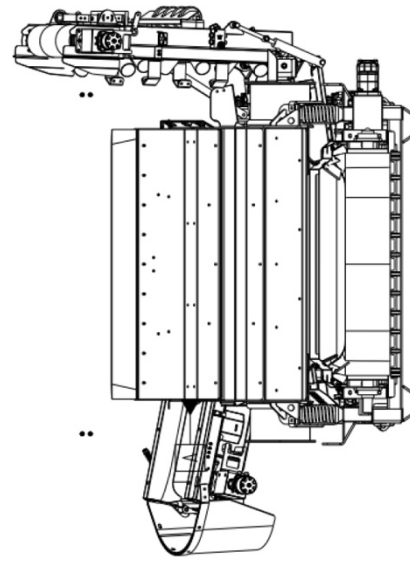
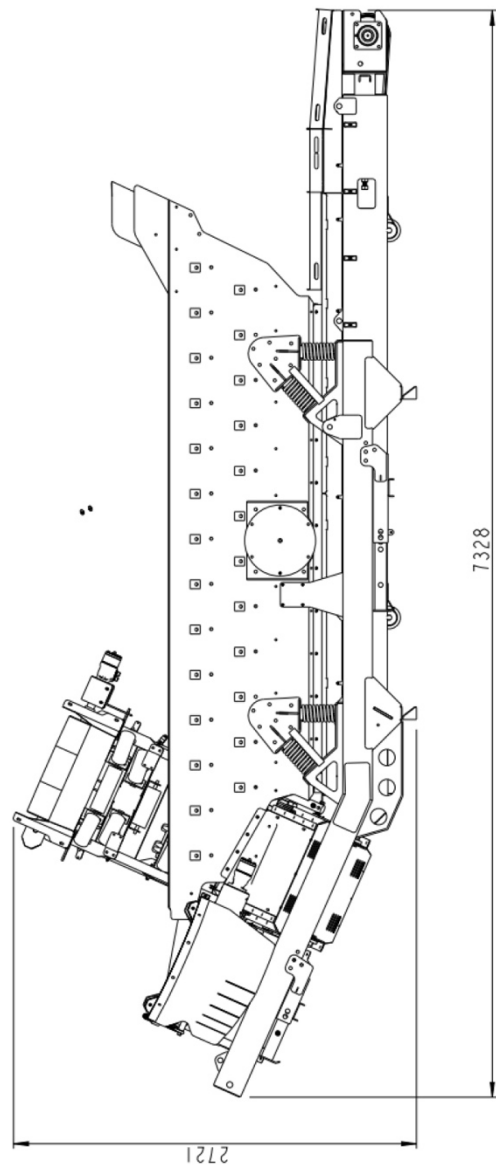
SAFETY FEATURES

- External belt alignment points
- External grease points
- Engine safety shutdown systems
- Full safety guarding for nip points

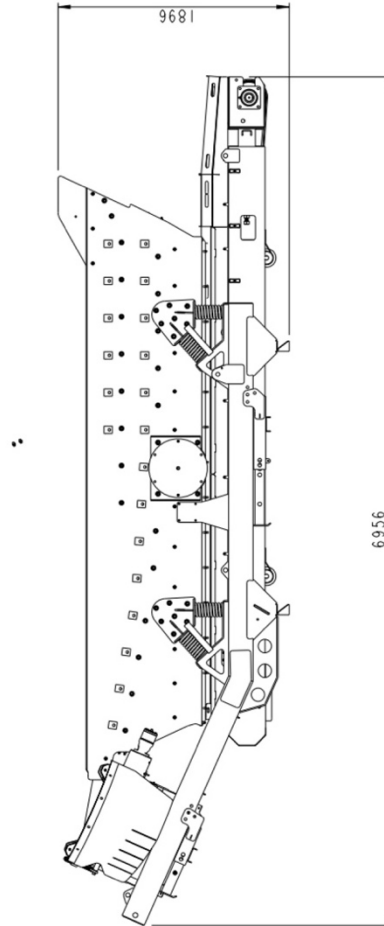
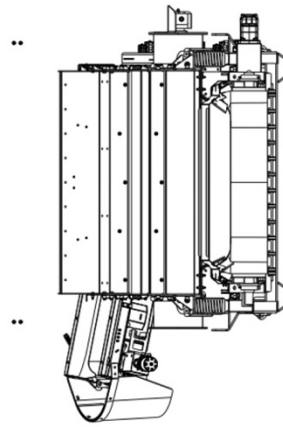
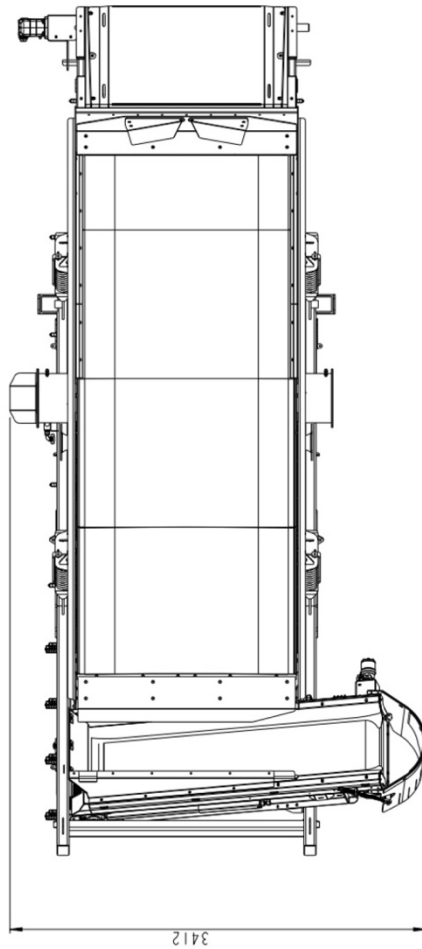




APPROX WEIGHT 8000KGS



APPROX WEIGHT 7500KGs



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All specifications are current as of this pricing, but are subject to change.