400c
Track-Mounted Cone Crusher

DESCRIPTION

Heavy duty track mounted crusher with following features:

- MC400 Cone
- 612Hp D16 Volvo Penta engine
- 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
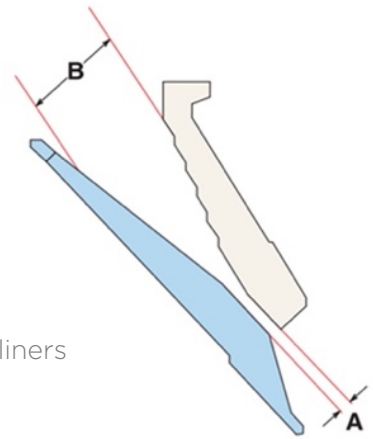- Fast setup time

DIMENSIONS AND WEIGHTS

Length – transport all models	16.76m (55' – 0")
Width – transport all models	3.66m (12')
Height – transport track	3.6m (11' – 9.7")
Weight – track	56,000 Kgs estimated

CAPACITIES

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

CRUSHING CHAMBER

Feed opening	1130mm (44.5")
Crusher input speed	750 - 850 rpm
Crusher drive	Direct drive
Min. opening	See chart below
Max. opening	See chart below
Cone weight	23,000kg (50,706 lbs)
Closed side setting adjustment	Hydraulic
Level sensor	Ultrasonic
Throw	95mm at discharge with new liners
Power required	400 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")

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

HOPPER

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

MAIN CONVEYOR

Stockpile height	3124mm (10'-3")
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 D16 Tier 4 Final or Tier 3
Engine power	456 Kw (612HP)
Engine speed	1600 rpm
Cone drive clutch	PT tech 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
Total system flow (max)	455 Lpm (120.2 US gpm)
Hydraulic tank capacity	800 L (211 US gals)

ELECTRICS

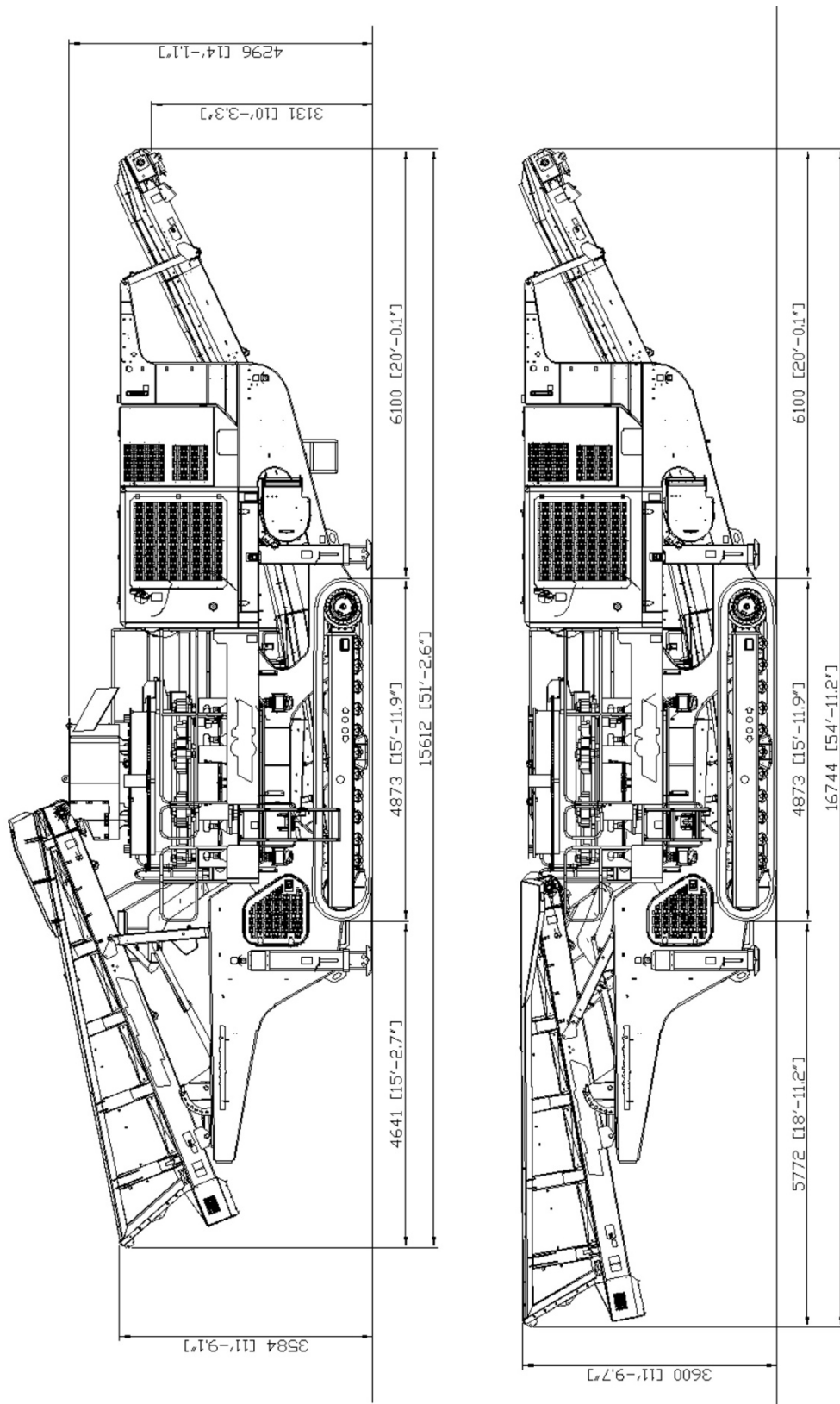|	
Emergency stops	4 off, 2 feeder, 2 powerunit
Chassis cabling	Armored cable
Start siren	Yes – 10 sec delay
Control panel	Tedd Engineering / IFM
Engine shutdowns	Low oil pressure
	High water temp
	Air filter blockage (selectable)
	Fuel contamination
	Low hydraulic tank level
	Low lube oil flow
	Low 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

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TRACKS

Width	400mm (15.7")
Length	4100mm (13' – 5.4") crs
Height	817mm (32")
Gearbox	Bonfiglioli 711
Ratio	144:1
Motor	Rexroth A2FE90
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: standard
- Various cone liner options
- Work lights
- Belt scale
- Refueling pump: standard
- Long main conveyor

SAFETY FEATURES

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

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