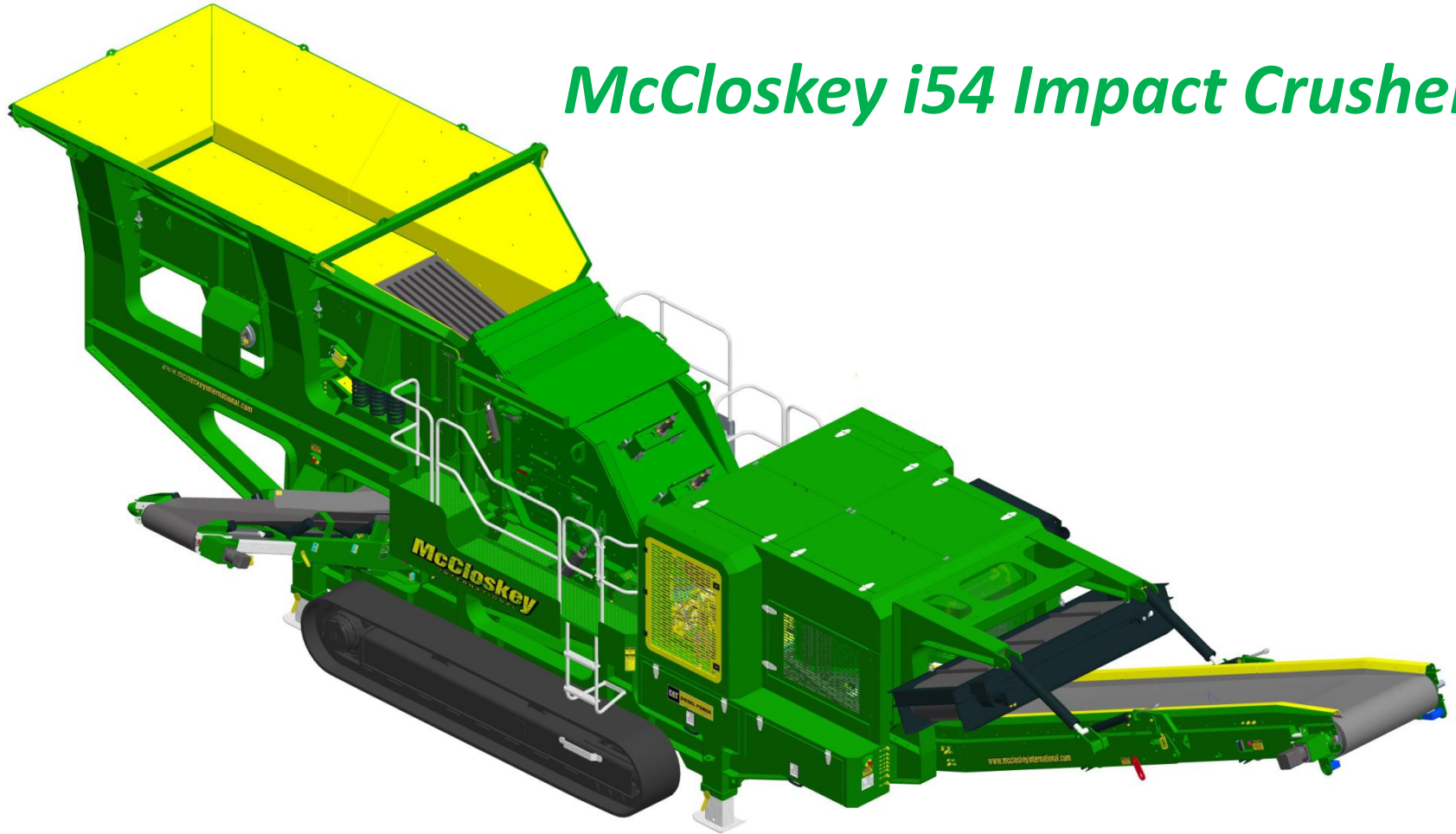


## *McCloskey i54 Impact Crusher*





## Introduction

McCloskey International is now the largest manufacturer of portable track screening, crushing & conveying systems in North America and is the largest privately owned screening, crushing & conveying company in the world today.

With a state of art and ever expanding factory in Peterborough Ontario and another in Ireland, McCloskey is quickly able to cater to and adapt to the needs of our customers in an ever changing market place, with a full range of machinery suited too and designed for each and every application/project.

## DESCRIPTION

### **Heavy duty track mounted Crusher with following features:**

- Universal 1200mm (47") diameter x 1350mm (53") wide Impactor.
- 430Hp C13 Cat engine Tier4 Interim or Volvo Tier 4 Final
- Track or Track c\w Wheel bogie.
- Integrated hydraulic folding hopper.
- Integrated hydraulic folding stockpiling conveyors.
- I-beam plate fabricated chassis construction.
- Open chassis design for ease of maintenance
- Fast setup time
- Vibrating feeder under crusher discharge.



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## IMPACTOR CHAMBER

Impactor internal feed opening WxH 1360 x 950mm, (53.5 x 37")  
Feeder to Impactor opening WxH 1354 x 822mm, (53.3" x 32.5")  
Impactor rotor 1200mm (47.2") diameter x 1335mm (52.6") wide  
Crusher speed 530-700 rpm (34-44 m/sec rotor tip speed)  
Crusher Drive Hydraulic – V-Belts  
Feed size 600 x 500 x 500mm lump, (24" x 20" x 20")  
Slabs 1200 x 1000 x 250mm slab, (48" x 40" x 10")  
Impactor weight 14,970kg (33,000 lbs)  
Closed side setting adjustment Hydraulic rams, shim system  
Motor Kawasaki axial piston 530cc/rev  
Flow rate 600 Lpm (158.5 US gpm)  
Speed sensor YES  
Load sensor Hydraulic

## Crusher Pre-screen

Prescreen width (inside wearplates) 1354mm (53.3")

Prescreen length overall 1750mm (5' - 9")

Grizzly section opening Tapered 40-61mm (1.5" – 2.5")

Grizzly section length 1600mm (63")

Bottom deck mesh 1350mm x 1280 (53.1" x 50.4")

Drive Hydraulic

Motor David Brown MCC 2208 58.9cc/rev

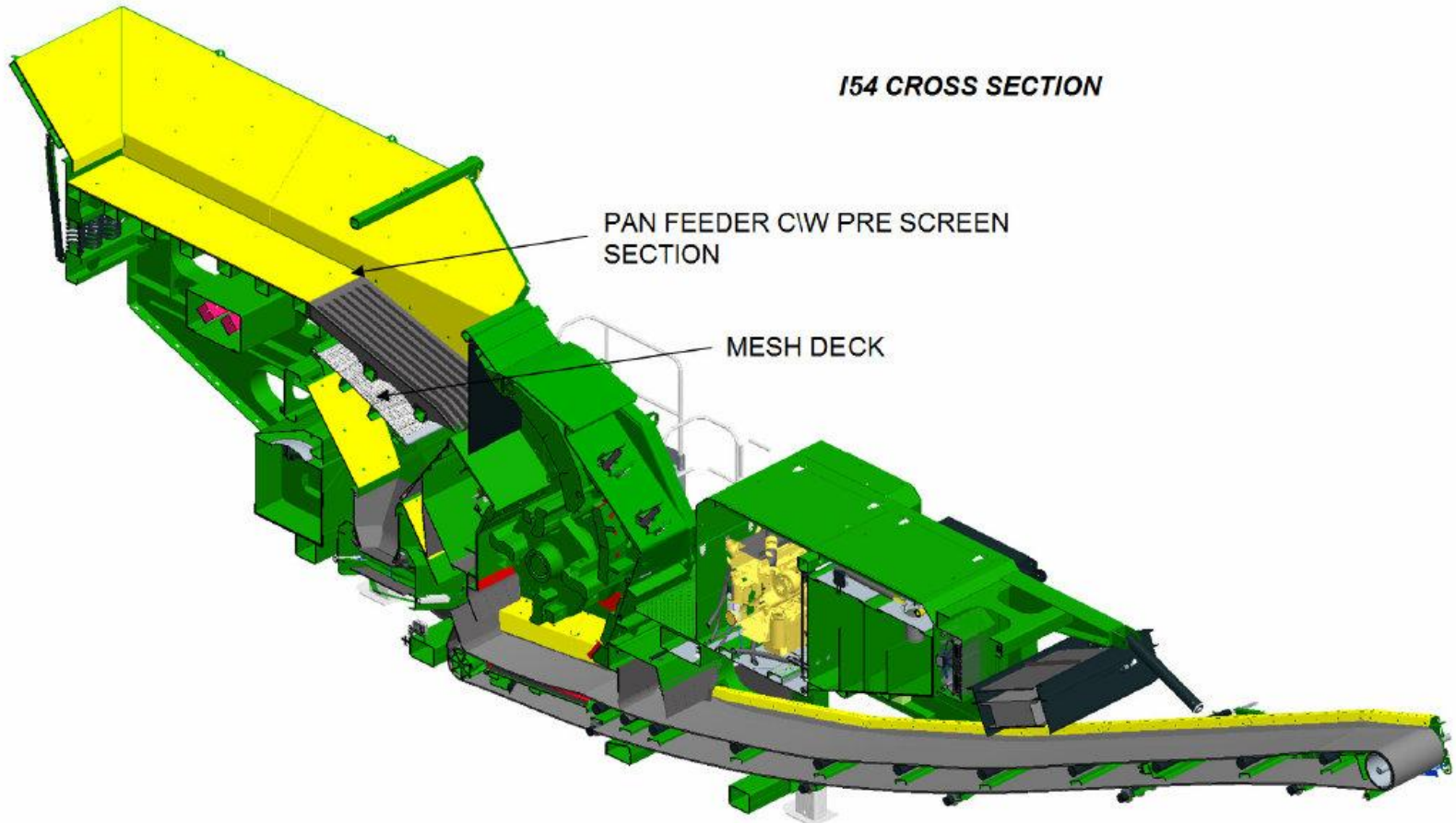
Flow rate 68.4 Lpm (18.1 US gpm)

Adjustable speed NO

Auto stop start system YES

Maximum speed 1050rpm





*154 CROSS SECTION*

PAN FEEDER CW PRE SCREEN SECTION

MESH DECK



## POWERUNIT AND HYDRAULICS

Engine CAT C13 Tier 4 Interim or Volvo Tier 4 Final

Engine power 320 kW (430 HP)

Engine speed 1900 rpm

Flywheel Pump 1 Kawasaki K3V200DP

LH PTO Pump 2 David Brown 5036 5023

Front PTO Pump 3 David Brown 5046 2SPA11

Total system flow 721.3 Lpm (190.5 US Gpm)

Hydraulic tank capacity 1800 L (475 US Gals)

Hydraulic tank ratio 2.5 : 1

Hydraulic Oil cooler YES

## **DIMENSIONS AND WEIGHTS**

Length - transport (Pre-Screen) model 15.13m (49' - 7")

Width - transport all models 3.0m (9' - 10")

Height - transport track 3.575m (11' - 8.8")

Weight - track 48,200 Kgs (106,260 lbs) inc magnet

## **CAPACITIES**

Diesel tank capacity 800 L (211 US gal)

Hydraulic tank capacity 1800 L (475 US Gals)

IMPACTOR

## PAN FEEDER

Feeder width (inside wearplates) 1354mm (53.3")

Feeder length 4615mm (182")

Grizzly section length 1750mm (5' - 9")

Grizzly section opening Tapered 40-61mm (1.5" – 2.5")

Grizzly section length 1600mm (63")

Bottom deck mesh 1350mm x 1280 (53.1" x 50.4")

## Drive

Motor Hydraulic

Flow rate David Brown MCC 2210 70.1cc/rev

Adjustable speed 68.4 Lpm (18.1 US gpm)

Variable speed Yes – via mechanical Flow Control

Maximum speed Yes – via electrical proportional

975rpm



## MAIN CONVEYOR

Stockpile height 4210mm (13' – 10")

Belt width 1200mm (48")

Belt spec Plain 500/3 8+2

Drive drum dia. 350mm (13.7")

Tail drum dia. 270mm (10.6") - spoked

Motor OMV630

Flow rate 87.4 Lpm (23.1 US gpm)

Maximum speed 138.7 rpm

Angle adjustable YES

Quick release YES

## **HOPPER**

Length overall 5374mm (17' - 8")

Loading width 4120mm (13' - 6")

Width 2642mm (8' - 8")

Volume 6.8m<sup>3</sup> (8.9yd<sup>3</sup>)

Material 8mm Hardox sides

Locking system Wedge type and toggle

## **SIDE CONVEYOR**

Stockpile height 2584mm (8' - 6")

Belt width 650mm (26")

Belt spec EP 400/3 3+1.5

Drive drum dia. 220mm (8.6")

Tail drum dia. 220mm (8.6") - spoked

Motor OMT400

Flow rate 43.7 Lpm (11.5 US gpm)

Adjustable speed YES

Maximum speed 109.3 rpm

## ELECTRICS

Emergency stops 4 off, 2 feeder, 2 powerunit

Chassis cabling Armored cable

Start Siren YES - 10 sec delay

Control panel Plus 1 Danfoss colour screen

Engine shutdowns: Low oil pressure

High water temp

Air filter blockage (selectable)

Fuel contamination

Low hydraulic tank level

High hydraulic return line filter backpressure

High hydraulic water filter backpressure

High hydraulic oil temperature

Engine room light YES

Radio control tracks OPTION - Hetronic system

Pendant track control YES - plugged in control cabinet



## TRACKS

Width 500mm (19.7")

Length 3800mm (12' - 6") crs

Height 798mm (31.4")

Gearbox Bonfiglioli 711

Ratio 153:1

Motor Rexroth 90

Speed max 1.50 Kph (0.93 Mph)

Flow rate 138 Lpm (36.45 US gpm)

Multiple speeds

Three speed system selectable at  
control panel with smooth start / stop.

Attachment to chassis Bolt On for quick change

## **OPTIONS**

- Main conveyor variable speed control
- Interlock system
- Hopper Extensions
- Overband magnet
- Water Pump and dust suppression system
- Various blow bar material options
- Work lights
- Belt Scale

## **SAFETY FEATURES**

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

## Summary / Advantages

- **McCloskey I54 47"x 54"**
- **Extra Heavy Duty – US Made Universal 47"x 54" Impact Crusher**
- **Full North American Factory Support – Unlike All European Manufacturers**
- **2 North American Parts Depots**
- **Engine 350hp CAT Tier 4 Interim or Volvo Tier 4 Final**
- **54" Prescreen Option**
- **Premium Hydraulics**
- **Extended Hopper Option – Can be end fed with loader**
- **Pan Feeder**
- **Full Self Diagnostic Capability – Pin Points any/all Potential Problems**



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