

POWERSCREEN® GLADIATOR MT1150

PORTABLE ELECTRIC CONE CRUSHING PLANT



TECHNICAL SPECIFICATION - REV 1 01/01/2022





GLADIATOR MT1150



OVERVIEW

SPECIFICATION

Transport	Length	47' 5" (14.45m)
	Height	13' 2" (4.01m)
	Width	11' 11" (3.63m)
Working	Length	47' 5" (14.45m)
	Height	13' 2" (4.01m)
	Width	11' 11" (3.63m)

Plant Colour RAL 5021, RAL 7024

Total Weight: 66,974lbs (30,379kg)

Axle Load: 38,203lbs (17,329kg)

King Pin Load: 28,771lbs (13,050kg)

The new Gladiator MT1150 is an electrically driven, wheeled open circuit cone crusher. It features the tried and tested Terex TC1150 cone chamber and is mounted on wheels which ensures ease of movement and quick set up times.

The Gladiator MT1150 is fully electrically driven, which makes it an ideal solution in areas where strict environmental regulations are in place.

FEATURES & BENEFITS

- Output potential of up to 330 US tph / 300 tph - depending on material type and crusher settings.
- Incorporated ACE 6 crusher control.
- Made locally in the USA with the lowest weight possible for ease of movement.
- Service platforms around the crusher with an elevated observation platform.
- Electrically driven.
- Accepts clean 'all in feed.
- Excellent product shape.
- High reduction ratio.
- Metal detector (optional).
- E-Stops on both sides of the unit.

APPLICATIONS



Aggregate

Sand & gravel
Blasted rock
River rock



Recycling

C&D waste
Overburden
Foundry waste



Mining

Processed ores
Processed minerals



GLADIATOR MT1150



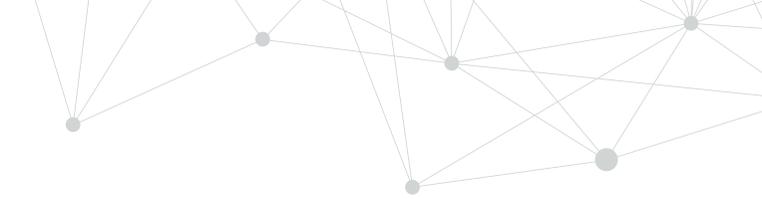
CONE CRUSHER

- Crusher type:** TC 1150 crusher fitted as standard with short throw eccentric
- Liners:** Manganese steel alloy mantle & concave
- Standard concave:** Medium Coarse (MC)
- Lubrication:** Pumped system having a chassis mounted lube tank with air blast cooler
- Adjustment:** Hydraulic setting adjustment, automatic overload release & hydraulic unblocking
- Control:** 2 Operating modes available:
 - Autoset Mode: fixed parameters
 - Maxset Mode: load sensing, parameters auto adjust & maximise performance. Variable speed.
- Concave options:** Extra Coarse (XC)
Fine (F)
Common upper frame for all liners
- Drive:** 300hp (224kW) WEG electric motor @1800rpm
- Mount:** Crusher is mounted on a live frame with 6 x isolators

CRUSHER OPTIONS

LINER PROFILE	MAXIMUM FEED SIZE	MAXIMUM RECOMMENDED CSS
Fine	120mm (4.7")	32mm (1.26")
Medium Course	190mm (7.5")	38mm (1.6")
Extra Coarse	220mm (8.7")	45mm (1.8")





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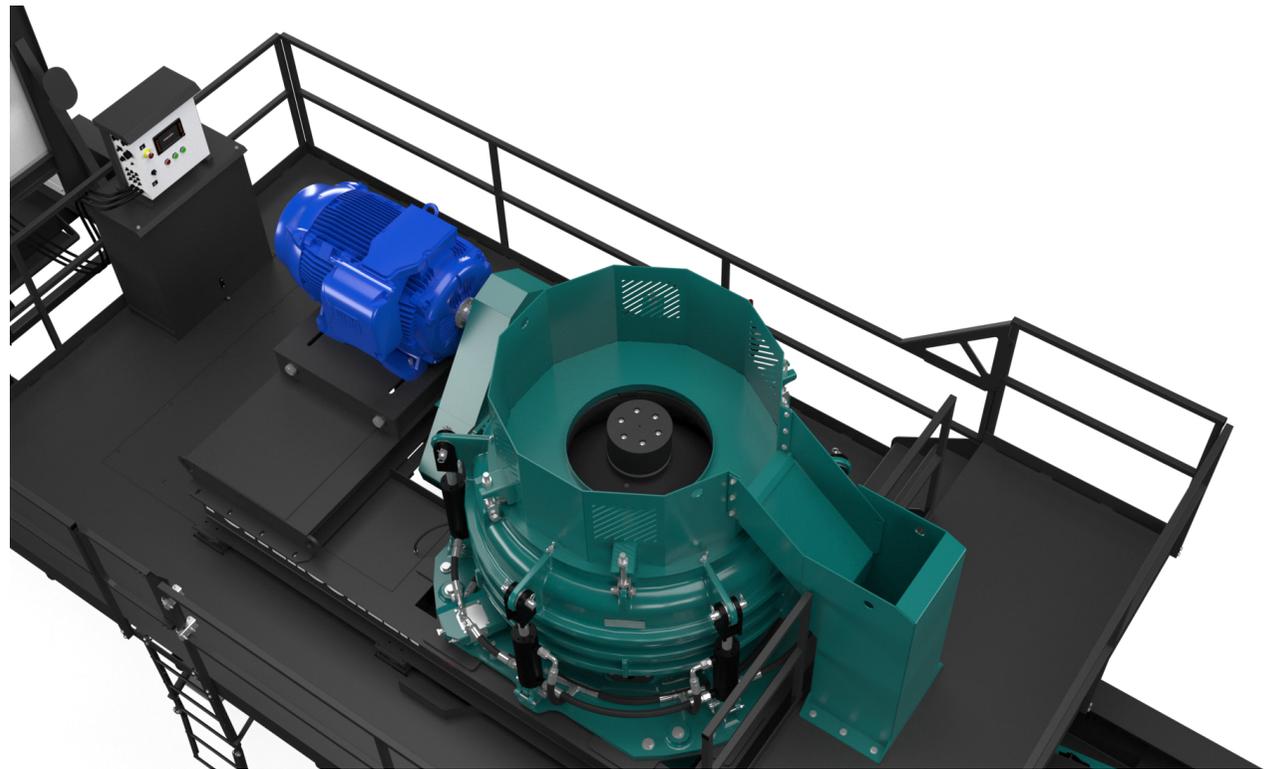
↓ HOPPERS

CONE HOPPER

Manufactured from 1/4" (6mm) mild steel
Bolt on adjustable overflow gate which discharges to under crusher conveyor.
Hopper shape allows optimum crusher feed from multiple angles.

UNDER CRUSHER HOPPER

Manufactured from 3/8" (10mm) hardox
Rock ledge with 3/8" (10mm) AR400 steel liners.
Rubber flashing





GLADIATOR MT1150



DISCHARGE CONVEYOR

- Belt Width:** 42" (1060mm)
 - Drum Centes:** 30' 6" (9296mm)
 - Belt Type:** Plain
 - Belt Spec:** 3 Ply 330 PIW
 - Max Speed:** 350 ft/min (107 m/min)
 - Discharge Height:** 9' 8" (2.95m)
 - Stockpile Capacity:** 50 yd³ (38m³)
 - Motor:** 15hp (11kW) @1800rpm
- Fixed angle
Flexco TM scraper





GLADIATOR MT1150



BOGIE

Type:	Heavy duty sprung tandem axle
Size:	8 of 11R X 22.5 radial tyres
No of Axles:	2
No of Studs:	10
Brakes:	Air





GLADIATOR MT1150



OTHER

EXTERNAL POWER REQUIREMENTS

460V
3 Phase
60 Hz

	Power
Cone	300hp (224kW)
Discharge Conveyor	15hp (11kW)
Metal Detector	2hp (1.5kW)
Total Power Required	317hp (236.5kW)

TOOLBOX

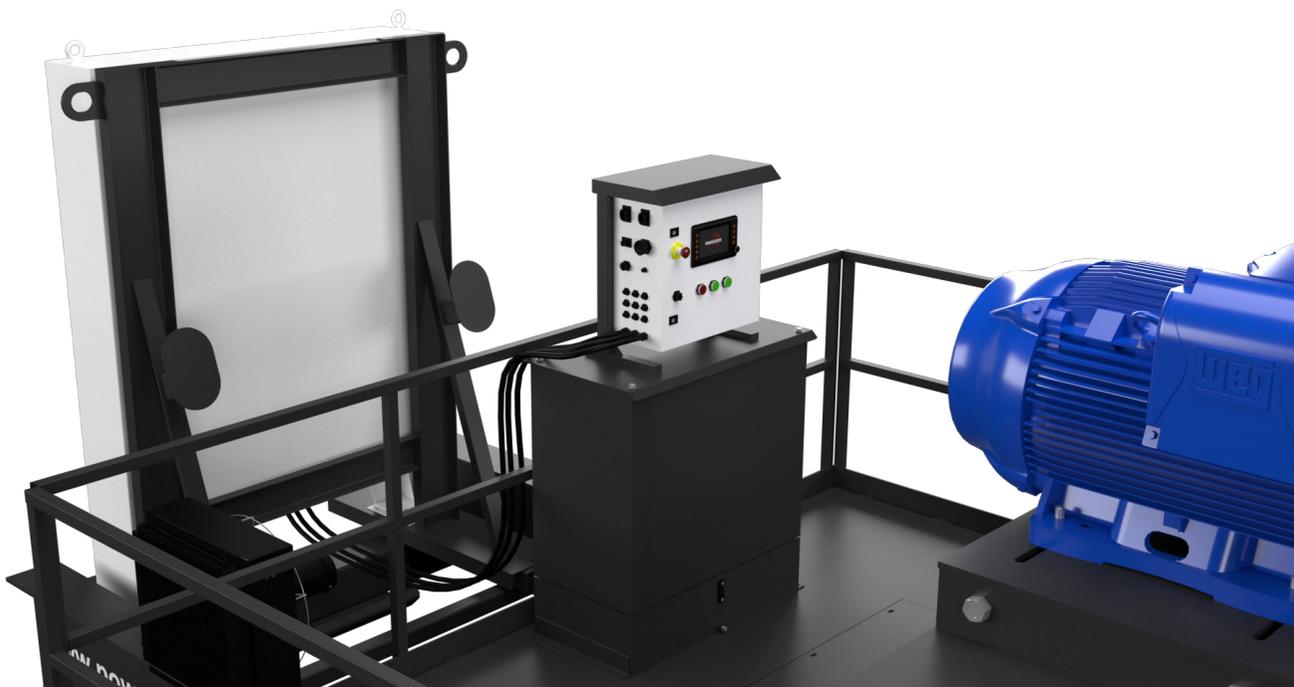
48" (1220mm) long
Lockable lid
LHS of plant

METAL DETECTOR

Metal detector - Eriez 1220
Required to validate cone warranty
Must be fitted to the feed conveyor by the customer
Comes complete with a storage toolbox

PLATFORMS

Folding access ladder
2 x self closing gates





GLADIATOR MT1150



OPTIONS

- Manual button switchgear panel - 300hp soft starter and 15hp conveyor starter, 2 extra starters for off plant conveyors. No lead cord included.
- Deluxe switchgear panel - as above to include quick release plug and external interlocking
- 100ft lead cord - to connect panel to power source.
- 4 no of 6" x 16" hydraulic levelling jacks with 13hp Honda powerunit.
- 4 no of 6" x 24" hydraulic run on jacks with 13hp Honda power unit.
- 2 no of additional crank jacks.
- Long throw chamber



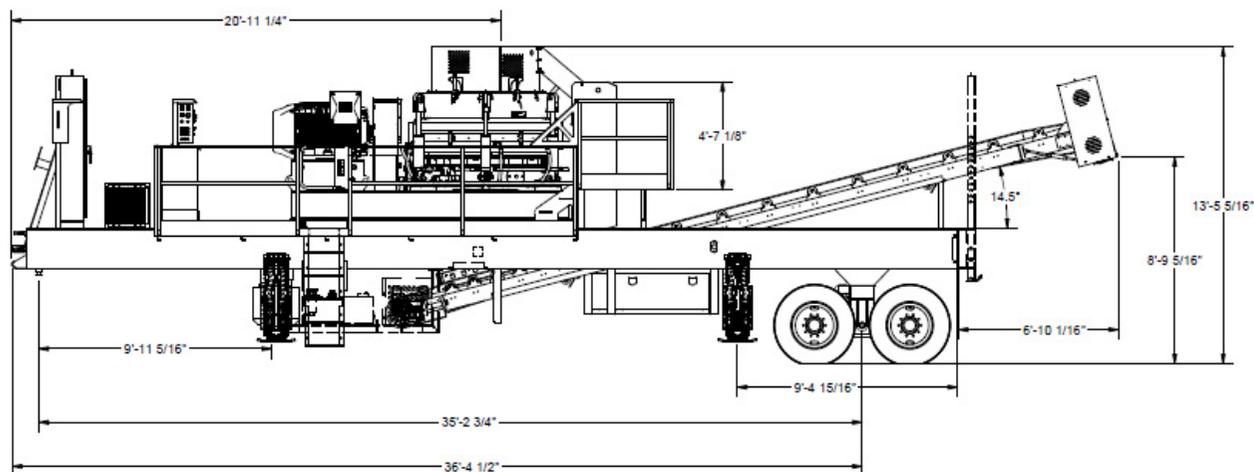
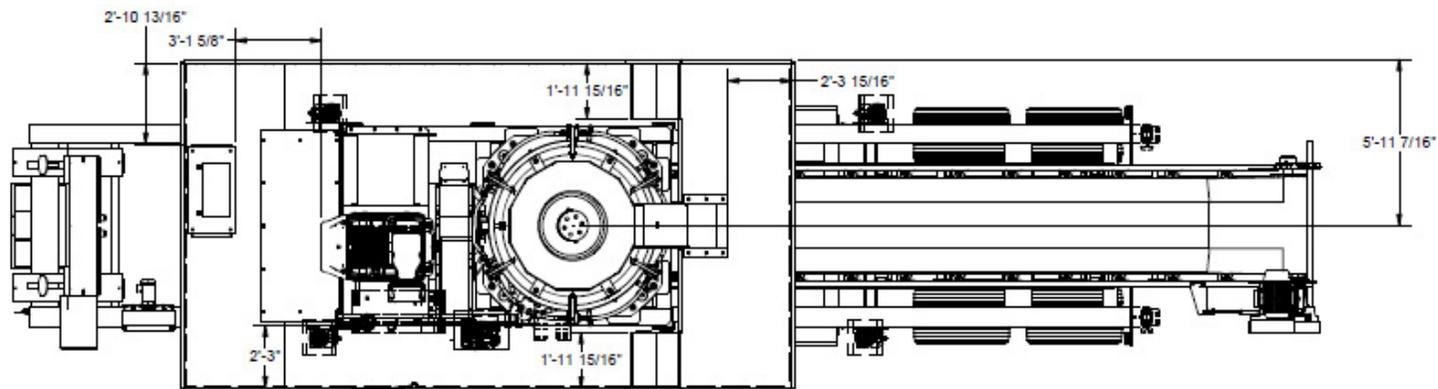


GLADIATOR MT1150



DIMENSIONS

Figure 1: Gladiator MT1150
Working Position



Total Weight: 66,974lbs (30,379kg)
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[MORE DIMENSIONS OVERLEAF](#)

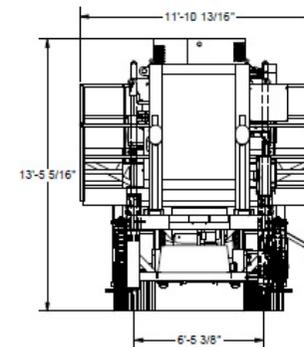
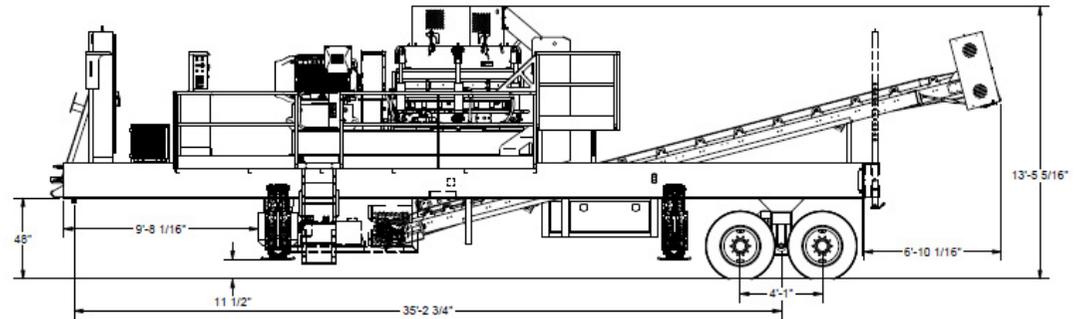
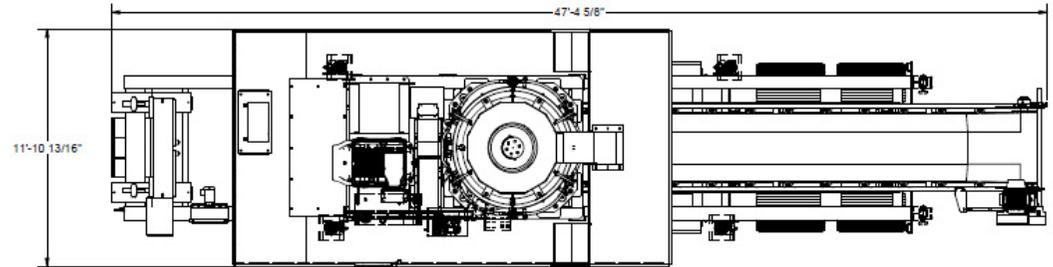


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DIMENSIONS

Figure 2: Gladiator MT1150
Transport Position



Total Weight: 66,974lbs (30,379kg)
Axle Load: 38,203lbs (17,329kg)
King Pin Load: 28,771lbs (13,050kg)



Please consult Powerscreen if you have any other specific requirements in respect of guarding, noise or vibration levels, dust emissions, or any other factors relevant to health and safety measures or environmental protection needs. On receipt of specific requests, we will endeavour to ascertain the need for additional equipment and, if appropriate, quote extra to contract prices.

All reasonable steps have been taken to ensure the accuracy of this publication, however due to a policy of continual product development we reserve the right to change specifications without notice.

It is the importers' responsibility to check that all equipment supplied complies with local legislation regulatory requirements.

Plant performance figures given in this brochure are for illustration purposes only and will vary depending upon various factors, including feed material gradings and characteristics. Information relating to capacity or performance contained within this publication is not intended to be, nor will be, legally binding.

GET IN TOUCH

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