

POWERSCREEN® GLADIATOR PT400

PORTABLE ELECTRIC JAW CRUSHING PLANT



TECHNICAL SPECIFICATION - REV 1 01/01/2022





GLADIATOR PT400



OVERVIEW

SPECIFICATION

Transport	Length	52' 3" (15.93m)
	Height	13' 10" (4.14m)
	Width	11' 3" (3.43m)
Working	Length	52' 3" (15.93m)
	Height	15' 9" (4.8m) - With optional hopper extensions and jacking legs
	Width	11' 3" (3.43m)
Plant Colour	RAL 5021, RAL 7024	
Total Weight:	96,200lbs (43,700kg)	
Axle Load:	58,100lbs (26,410kg)	
King Pin Load:	38,100lbs (17,320kg)	

OPTION	PLANT WEIGHT	KP REACTION	SUSPENSION REACTION	TOTAL WEIGHT ADDED
BASE (SHOWN ABOVE)	96,200	38,900	57,300	-
BASE (REAR FRAME NOT MOVED)	96,200	38,100	58,100	-
ADD XC & FLOP GATE CHUTE	98,300	40,250	58,050	2,100
ADD (4) 24" HYD JACKS	99,300	40,300	59,000	3,100
ADD (6) 24" HYD JACKS	99,950	40,900	59,050	3,750
ADD MAGNET & STAND	102,000	43,400	58,600	5,800
ADD MAGNET & (6) 24" HYD JACKS	104,300	44,900	59,400	10,050
ADD XC, FLOP GATE CHUTE, 6 HYD JACKS, MAGNET	104,650	45,000	59,650	12,150

FEATURES & BENEFITS

- Output potential of up to 463 US tph / 420 tph - depending on material type and crusher settings.
- The electrically driven power system provides significant cost savings.
- Superior performance in dusty applications and in high altitude environments.
- The high powered electric drive ensures precise chamber control and reverse functionality for clearing blockages - also proving advantageous in recycling and demolition applications.
- Access platforms around 3 sides of the chamber.
- E-Stops on both sides of the unit.
- The optional twin pole magnet has a reversible discharge chute.

APPLICATIONS



Aggregate

Sand & gravel
Blasted rock
River rock



Recycling

Top soil
C&D waste
Composed materials
Wood by-products
Overburden
Foundry waste



Mining

Processed ores
Processed minerals



GLADIATOR PT400



JAW CRUSHER

Crusher Type:	Terex JW42 chamber - single toggle jaw
Feed Opening:	42" x 30" (1070mm x 760mm)
Lubrication:	Grease
Drive:	150hp (112kW) electric motor @ 1200rpm
Max CSS:	5 ³ / ₄ " (145mm) - subject to toggle selection
Min CSS:	1 ³ / ₄ " (45mm) - demolition & recycling 3" (75mm) - hard rock quarry applications 2 ¹ / ₂ " (60mm) - soft rock quarry applications

S-Tooth (18% Manganese) fitted as standard.
CSS adjustment via HPU (wedge adjust).





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VGF & HOPPER

Length:	20' (6.096m)
Width:	3' 6" (1.067m)
Feed in Height Side:	13' 7" (4.14m)
Feed in Height Rear:	13' 7" (4.14m)
Motor:	40hp (30kW) @ 1200rpm - with full guard over sheaves & V-Belt
Hopper Fabricated:	3/4" (20mm) AR400 steel
Available Grizzlies:	4" (100mm) nominal opening with 5 grizzly bars - standard 5" (125mm) nominal opening with 4 grizzly bars 3" (75mm) nominal opening with 6 grizzly bars 2" (50mm) nominal opening with 7 grizzly bars
	20" (500mm) hopper extensions are available - fabricated from 3/4" (20mm) AR400





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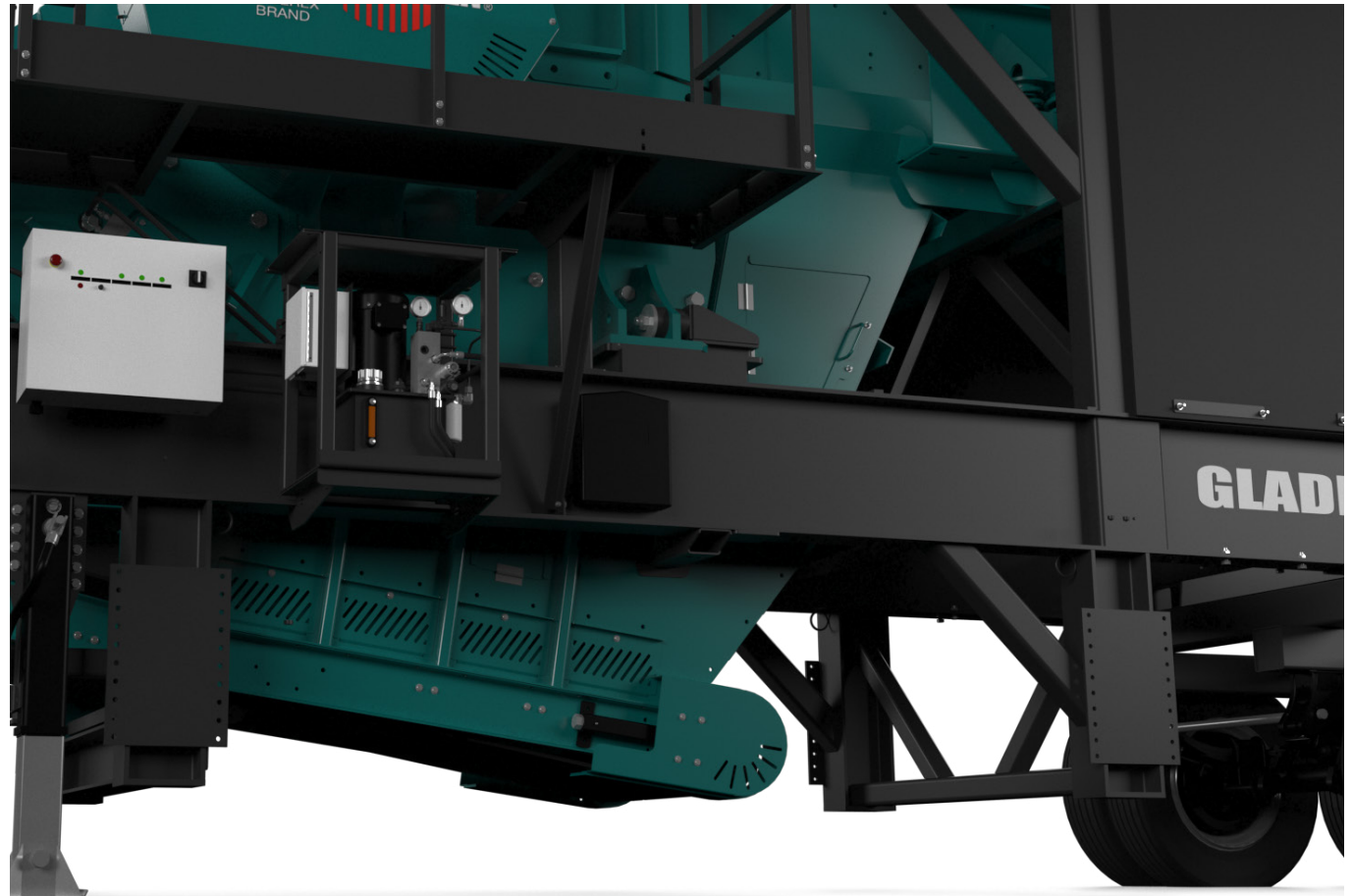
UNDER CRUSHER HOPPER & BYPASS CHUTE

UNDER CRUSHER HOPPER

Manufactured from 6mm (1/4") mild steel.
Rock ledge with AR400 10mm (3/8") liners.
Rubber flashing.
Access hatches both sides to aid CSS adjustment.

BYPASS CHUTE

Manufactured from 10mm (3/8") AR400 steel & 6mm (1/4") mild steel.
Access hatches both sides for chute access.
Internal openings for crusher serviceability.





GLADIATOR PT400



DISCHARGE CONVEYOR

- Belt Width:** 42" (1067mm)
 - Drum Centes:** 28' 11" (8814mm)
 - Belt Type:** Plain
 - Belt Spec:** 3 Ply 330 PIW
 - Max Speed:** 300 ff/min (91 m/min)
 - Discharge Height:** 9' 2" (2.8m)
 - Stockpile Capacity:** 43 yd³ (33m³)
 - Motor:** 15hp (11kW)
- Fixed angle
Flexco scraper





GLADIATOR PT400



BOGIE

Type:	Heavy duty sprung triple axle
Size:	12 of 11R X 22.5 radial tyres
No of Axles:	3
No of Studs:	10
Brakes:	Air





GLADIATOR PT400



OTHER

EXTERNAL POWER REQUIREMENTS

460V (575V Option if required)
3 Phase
60 Hz

	Power
Jaw	150hp (112kW)
Discharge Conveyor	15hp (11kW)
VGF	40hp (30kW)
Optional Byass Conveyor	7.5hp (5.6kW)
Optional Magnet	2hp (1.5kW)
Total Power Required	214.5hp (160kW)

TOOLBOX

60" (1524mm) long
Lockable lid
RHS of plant

JACKING LEGS

Hand crank jacks.

PLATFORMS

Fabricated folding access ladder x 2
Self closing gates x 2
Diamond deck platform on both sides of the jaw
Access to 3 sides of the jaw chamber.





GLADIATOR PT400



↓ OPTIONS

- Manual button switchgear panel - 150hp soft starter, 40hp VFD, 15hp conveyor starter, 2 extra starters for off plant conveyors. No lead cord included (see below).
- 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'' levelling hydraulic jacks with 13hp Honda powerunit
- 6 no of 6'' x 24'' run on hydraulic jacks 13hp Honda power unit
- Eriez TP25/80 or TP20/80 Twin pole magnet
- Wireless remote. VGF Start / stop, speed control - 200ft range
- 20'' hopper extensions
- 24'' bypass conveyor with flop gate bypass chute



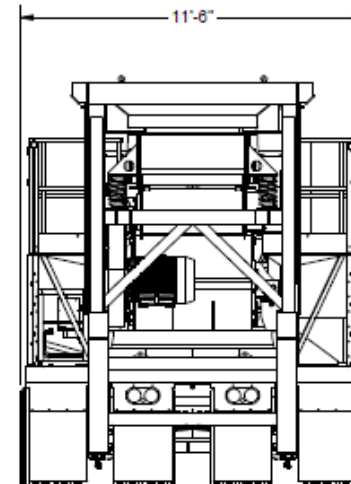
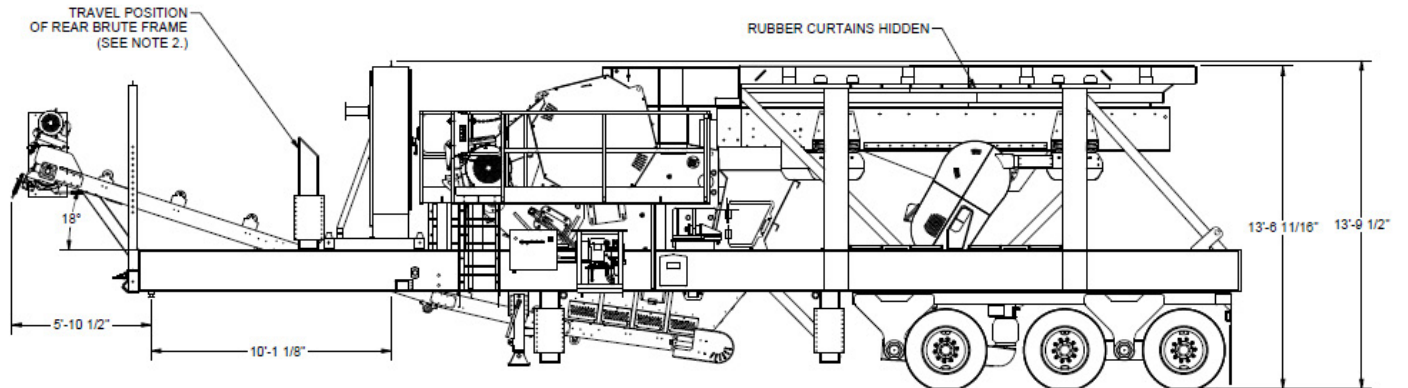


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DIMENSIONS

Figure 1: Gladiator PT400
Working Position Showing Triple Trunnion Axle



Total Weight: 96,200lbs (43,700kg)
Axle Load: 58,100lbs (26,410kg)
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[MORE DIMENSIONS OVERLEAF](#)

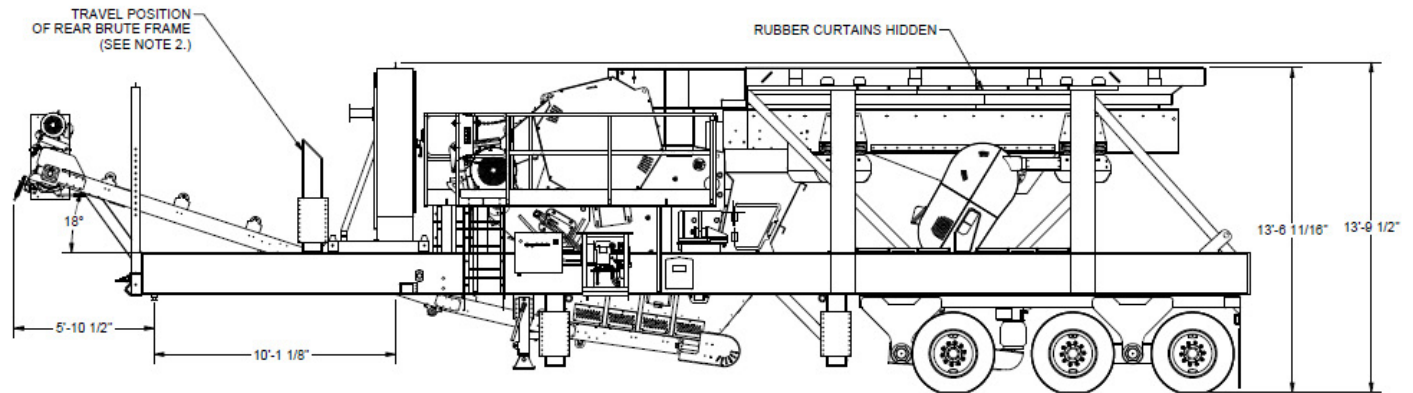


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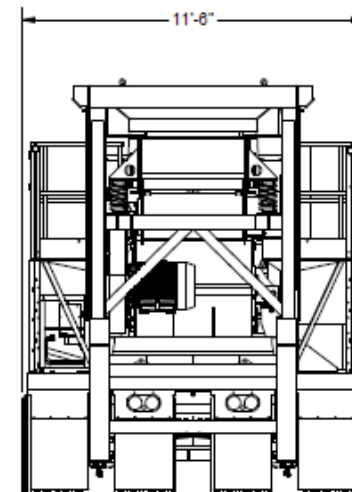


DIMENSIONS

Figure 2: Gladiator PT400
Transport Position Showing Triple Trunnion Axle



Total Weight: 96,200lbs (43,700kg)
Axle Load: 58,100lbs (26,410kg)
King Pin Load: 38,100lbs (17,320kg)





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

Dungannon

200 Coalisland Road, Dungannon,
Co Tyrone, BT71 4DR, Northern Ireland
Tel: +44 (0) 28 87 718 500
Fax: +44 (0) 28 87 747 231

Louisville

11001 Electron Drive,
Louisville, Kentucky, 40299 USA
Tel: +1 502 736 5200
Fax: +1 502 736 5202

