



TEREX | PEGSON

INTRODUCING THE

XR400



SPECIFICATION XR400/206



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XR400 SPECIFICATION

FEATURES



The new Terex Pegson XR400 is the most modern plant of its type and is packed with new user friendly features.

The very high performance of this new package gives unrivalled levels of under crusher access, ease of use and maximum uptime including the following features:-

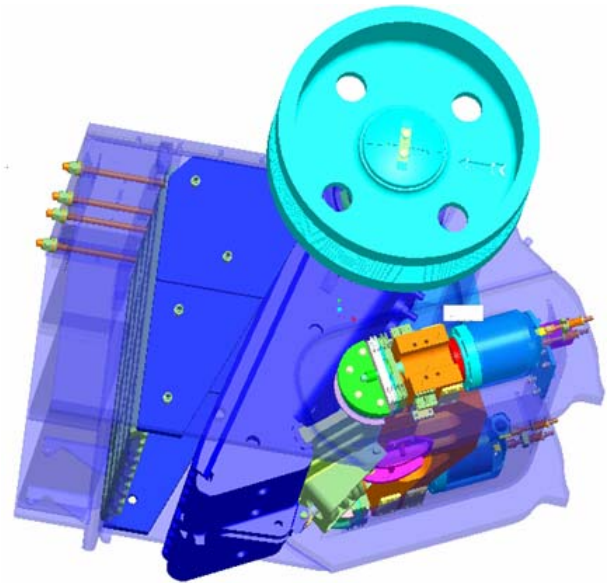
- Plant capacity of 400 tons per hour achievable.
- Very low fuel consumption, typically only 22 litres/hour dependent upon application, due to highly efficient HFO direct drive system.
- Excellent under crusher access for removal of wire with hydraulic tilting conveyor system.
- 3.9m high product conveyor that can be easily lowered for transport.
- Aggressive crushing action with high swing jaw encouraging material entry into the crushing chamber.
- Hydraulic crusher setting adjustment.
- Hydraulic crusher overload system ideal for applications with uncrushable material in the feed up to 200mm³.
- Hydraulic unblocking facility.
- Oil and filter changes only required every 2000 hours.
- Finger grizzly with under feeder screen option.
- Hydraulic folding feed hopper, with wedge fixing system.
- Easy access power pack canopy.
- PLC control system with auto start facility.
- Excellent drive access system.
- Optional dirt conveyor, magnet and radio remote control.
- Fully supported by Terex Pegson world wide distribution network.



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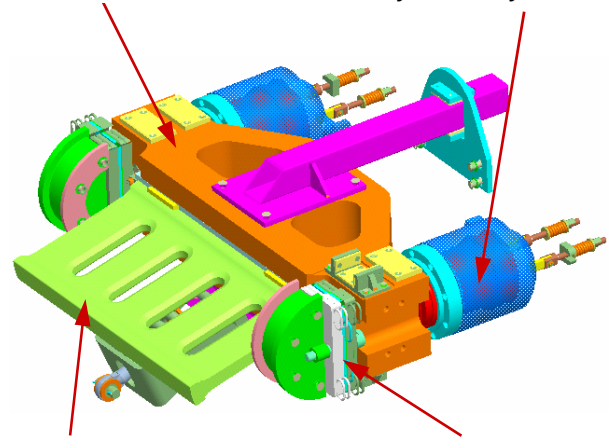
JAW CRUSHER

Crusher type:	Single Toggle Jaw with hydraulic setting adjustment.
Feed opening:	1100 x 650 mm.
Bearings:	Self aligning spherical roller.
Lubrication:	Grease.
Drive:	Wedge belts with screw tension adjustment on engine.
Pre-set:	75 mm CSS.
Minimum setting:	50 mm closed side setting on recycling applications. 75 mm closed side setting on quarry applications. Setting measured from root to tip of opposite tooth. All settings subject to suitability of feed material. If in doubt please contact TEREX Pegson. This plant has been designed for recycling applications but can be used on quarry applications where appropriate. For further details contact your dealer or TEREX Pegson.
Maximum setting:	125 mm (closed side root to tip).
Hydraulic adjustment:	Fitted as standard
Hydraulic Overload Protection:	System designed to prevent damage caused by tramp metal up to 200mm lump size (maximum edge length). Any follow on plant must be capable of accepting oversize from this dumped condition.
Controls:	When overload occurs the feeder will stop but the crusher and product conveyor will continue to operate until re-set.



Toggle beam

Hydraulic cylinders



Toggle plate

Shims

HOPPER

Hopper type:	Boltless hydraulic folding feed hopper with over centre struts and wedgelok system.
Hopper length:	4915mm.
Hopper width:	2413mm.
Hopper capacity:	Up to 10m ³ gross.
Hopper body:	15mm thick Hardox wear resistant steel plate. Mild steel reinforcing ribs.





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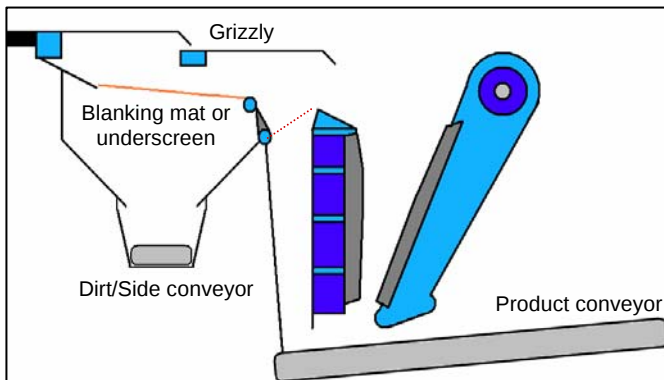
VIBRATING GRIZZLY FEEDER

Type:	Spring mounted vibrating pan and grizzly.
Vibrating Unit:	Twin heavy-duty cast eccentric shafts running in spherical roller bearings, gear coupled at drive end.
Drive:	Flange mounted hydraulic motor.
Feeder length:	4.08m.
Feeder width:	1.06m.
Grizzly:	Two replaceable 1.60m long stepped cartridge type grizzlies with nominal 60mm aperture tapered from front to back. Discharge ends of bars designed to be self cleaning type.
Grizzly length:	2.12m.
Underscreen:	Removable rubber blanking mat fitted as standard. This can be substituted for various aperture wire meshes (available as optional extras) when used in conjunction with the optional side conveyor.



PLANT CHUTEWORK

Crusher feed chute:	One piece fabrication with 12mm thick mild steel plate sides with 20mm thick bottom plate.
Grizzly fines/ bypass chute:	A two-way dirt chute is provided to discharge to the product conveyor or the optional dirt conveyor when fitted. Fabricated in 6mm mild steel plate, complete with hand operated flap door to direct grizzly fines to either the side dirt conveyor or the main product conveyor.

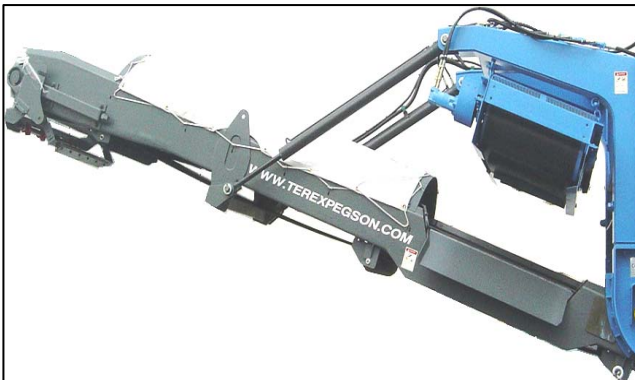




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PRODUCT CONVEYOR

Conveyor type:	Troughed belt conveyor with hydraulic tilt.	Tunnel:	Conveyor fitted with tunnel roof and side design to minimise rebar catch points.
Design:	Conveyor is designed to be lowered for the removal of trapped material and for transportation. The conveyor can be lowered and raised whilst crushing. Fully removable modular unit to aid access and maintenance.	Feedboot:	Fabricated in mild steel plate with abrasion resistant steel liners at feed point.
Belt type:	EP630/4 with 6mm top and 2mm bottom heavy-duty rubber covers to BS490 and DIN 22102 with vulcanised joint.	Belt adjustment:	Belt tensioning by screw adjustment at the head drum.
Belt width:	1000mm.	Belt covers:	Canvas type removable dust covers are fitted at the head end beyond the magnet area.
Discharge height:	3905mm.	Belt scraper:	Polyurethane blades are fitted as standard.
Maximum clearance:	472mm (Jaw to belt when lowered). 747mm (under engine to belt when lowered).	Lubrication:	Remote grease nipples located under shedder plate.
Drive:	Direct drive hydraulic motor.	Skirting:	Wear resistant rubber sealing skirts along the entire conveyor length.

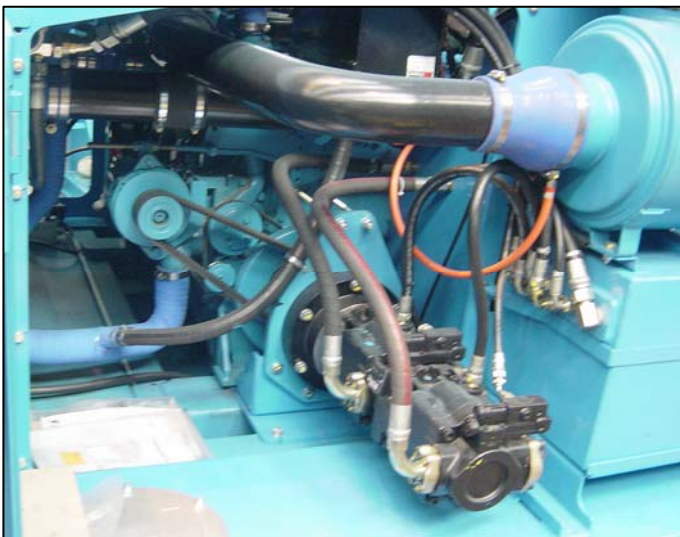




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POWERPACK

Powerpack type:	Caterpillar C-9 Tier III Acert Six cylinders, four stroke, direct Injection.
Performance:	230 HP (172kW) at 1600 rpm at sea level.
Fuel tank capacity:	400 Litres nominal.
Clutch type:	Highly efficient, self-adjusting HFO clutch with electro- hydraulic operation.
Drive:	Direct drive hydraulic pumps.
Access:	Easy access canopy for all engine services.



DUST SUPPRESSION SYSTEM

Sprays bars with atomiser nozzles are mounted over the crusher mouth and the product conveyor feed and discharge points piped to an inlet manifold for client's pressured water supply.

Type:	Clean water multi atomising nozzles.
Inlet:	Single filtered inlet point on chassis.
Pressure required:	2.8 bar (42 psi).
Water supply:	7 litres per minute.
Frost protection:	Via system drain valves.
Pump:	Optional extra.





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CRAWLER TRACKS

Type:	Heavy-duty tracks fitted as standard.
Pitch:	190mm
Longitudinal centers:	3715mm.
Track width:	500 mm.
Climbing grade:	25° maximum.
High speed:	0.9 km/hr.
Slow speed:	0.68 km/hr.
Drive:	Hydraulic integral motors.
Track tensioning:	Hydraulic adjuster, grease tension.



GUARDING

Wire mesh or sheet metal guards are provided for all drives, flywheels, pulleys & couplings.

The guards provided are designed and manufactured to meet CE and ANSI standards.

Hinged access guards are provided on the top, side and both ends of the engine.



PLATFORMS

A detachable access ladder is provided to gain access to each side of the powerpack.

A maintenance platform is provided on one side of the feeder with double row handrails and access ladders. A platform is also included to gain access between the crusher and the powerpack.



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CHASSIS

Heavy duty fabricated I section of welded construction.



PLC CONTROLS

A combined PLC control system is fitted onto the plant with auto start facility to operate the following items: -

- Engine
- Feeder (Start/Stop/Speed).
- Product conveyor (Start/Stop/Raise/Lower)
- Crusher adjustment.
- Dirt Conveyor (Raise/Lower)
- Optional items.



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UMBILICAL CONTROLS

A hard wired umbilical control unit is also supplied with the plant. This is fitted with controls for the track motion, feeder stop, start and a stop button for the plant.



OPTIONAL EXTRAS

- Side/dirt conveyor.
- Radio remote control.
- Choice of cverband magnetic separator.
- Feed hopper liner plates.
- Belt weigher for the main product conveyor.
- Re-Fuelling pump kit.
- Feeder underscreen mesh.
- Level probe for conveyor head.
- Big hopper.
- Hydraulic PTO
- Additional side maintenance platform.

SUGGESTED OPTIONAL EXTRAS

- Ripstop product belt (EP500/3 8mm + 2mm having internal steel ripstop mesh).
- Level probe over jaw.
- Under crusher deflector plate.
- Plant lighting mast.
- Choice of jaw profiles.
- Engine fire extinguisher system.
- Plant mounted hydraulic pick breaker.
- Camera mounted over crusher mouth with remote screen facility in loader operators cabin.
- Hydraulic driven water pump assembly to provide a pressurised water supply to the dust suppression system.



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ON PLANT SIDE/DIRT CONVEYOR

OPTIONAL EXTRA

Conveyor type:	Steel troughed belt, hydraulic folding for transport.
Width:	600mm.
Discharge height:	2.3m.
Drive:	Direct drive hydraulic motor.
Lubrication:	Grease nipples located as follows: -
<i>Head shaft:</i>	One on each bearing housing.
<i>Tail shaft:</i>	Two on each side of the main chassis below the feeder.
Position:	Mounted to discharge on the left hand side of plant when loading from the feed inlet end of plant.



MAGNET

OPTIONAL EXTRA

Magnet type:	Suspended self-cleaning overband.
Magnet width:	600mm.
Magnet length:	1m.
Drive:	Hydraulic Motor.
Control:	Pre-set variable speed.
Discharge chute:	Via stainless steel shedder plate.
Power:	570 Gauss at 200mm. 450 Gauss at 250mm.



REMOTE CONTROL

OPTIONAL EXTRA

This option will control the tracking function and also provides stop and start controls for the vibrating grizzly feeder, together with a stop button for the plant. **This facility is only available in certain countries where type approval has been obtained.** For a full list of countries, please consult Terex Pegson or your dealer.





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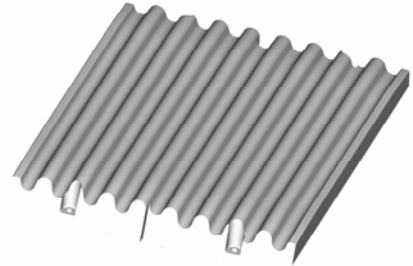
JAW PROFILES

OPTIONAL EXTRA

A choice of jaw profiles are available to maximise performance across all applications. All jaw profiles are supplied in 18% Manganese as standard. This is the proven material for quarry and recycling applications with an initial hardness of around 230 BHN (Brinell Hardness) and will work harden during operation to 400BHN.

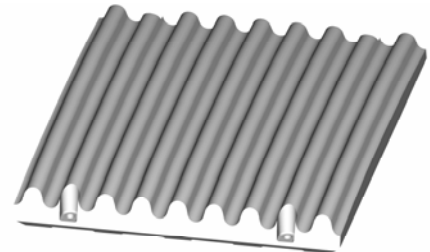
PREMIUM JAWS

Premium jaws are fitted as standard in all XR400 jaw crushers. They are suitable for most quarry and recycling applications and give an excellent cost per tonne crusher.



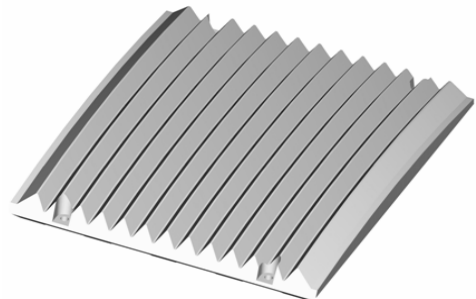
SUPER TOOTH JAWS

For extended life across most quarrying applications. The Supertooth has a significantly increased wear life using a deeper profile without comprising strength or product shape.



MULTI TOOTH JAWS

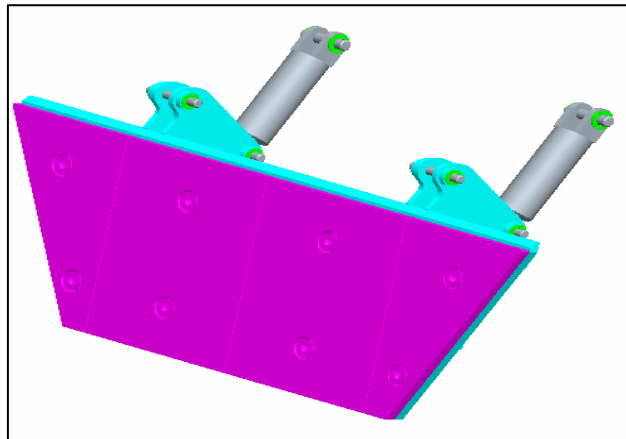
The industry choice for many recycling applications. The “sharper” profile makes the Multitooth deal for most recycling applications, particularly those involving concrete. It is also more tolerant when recycling asphalt. Wear life will be reduced on abrasive applications.



UNDER CRUSHER DEFLECTOR PLATE

OPTIONAL EXTRA

A hydraulic adjustable deflector plate can be supplied to increase belt protection on recycling applications. It is situated immediately below the crusher outlet point and is fitted with a 15mm thick Hardox wear plate. The angle of the deflector plate can be adjusted from the PLC control system.





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PLANT LIGHTING MAST

OPTIONAL EXTRA

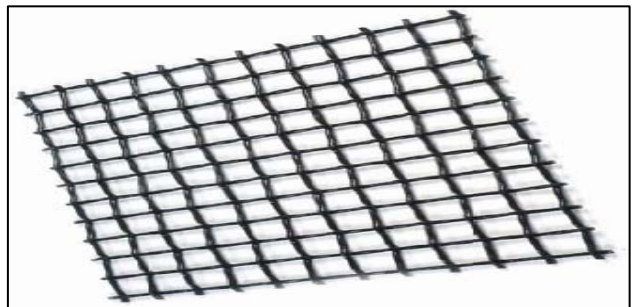
- Position:** Lights are mounted adjacent to the engine canopy and over the crusher feed chute and fold down for transportation.
- Control:** A control switch is fitted onto the side of the chassis to turn the lights on and off.



FEEDER UNDERSCREEN MESH

OPTIONAL EXTRA

- Position:** Removable wire meshes can be fitted in lieu of the standard rubber blanking mat when used in conjunction with the optional side conveyor.
- Width:** 1075mm
- Length:** 1250mm



HOPPER EXTENSIONS

OPTIONAL EXTRA

- Hopper type:** Boltless hydraulic folding feed hopper with over centre struts and wedgelok system.
- Hopper length:** 4915mm.
- Hopper width:** 3815mm.
- Hopper body:** 15mm thick Hardox wear resistant steel plate steel reinforcing ribs.



HYDRAULIC WATER PUMP

OPTIONAL EXTRA

Option 1

- Water flow:** 3.5 gallons per minute (16 litres per minute)
- Pressure:** 100psi (6.9 bar)

Option 2

- Water flow:** 14 gallons per minute (64 litres per minute)
- Pressure:** 100psi (6.9 bar)



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FEED HOPPER LINER PLATES

OPTIONAL EXTRA

Fixed 15mm thick Hardox feed hopper liners can be supplied fitted to the internal rear and side of the feed hopper. These are available on the standard feed hopper only.



BELT WEIGHER

OPTIONAL EXTRA

Type: Compact, rugged modular belt scale with stainless steel load cells with single idler speed wheel and display unit.

Idler diameter: 600mm

Accuracy: $\pm 1.0 + 0.5\%$

Load cells: Two temperature compensated parallelogram-style stainless steel type.

Display unit: Separate read out unit located next to the PLC control panel.



REFUELLING PUMP

OPTIONAL EXTRA

A 24 volt refuelling plant can be supplied to draw fuel from a remote source to the on plant fuel tank. It has a fuel transfer rate of 50 litres per minute.

PLANT MOUNTED HYDRAULIC PICK

OPTIONAL EXTRA

Plant mounted hydraulic pick breaker fitted to the side of the chassis. This provides excellent coverage over the feeder and jaw and will fold down under the hopper wing for transportation.

The Boom is operated via Radio Remote Controls, which allows the operator to be at a safe distance.

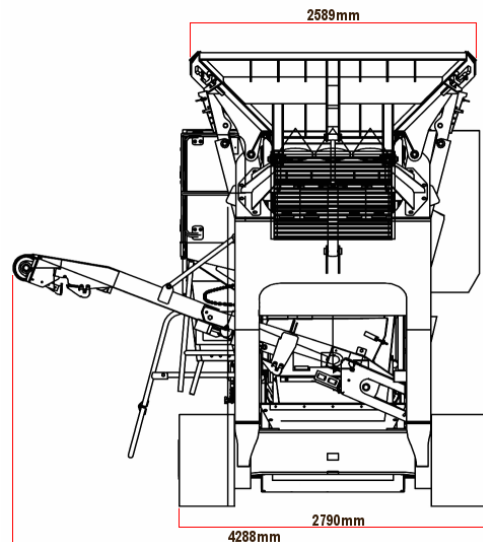
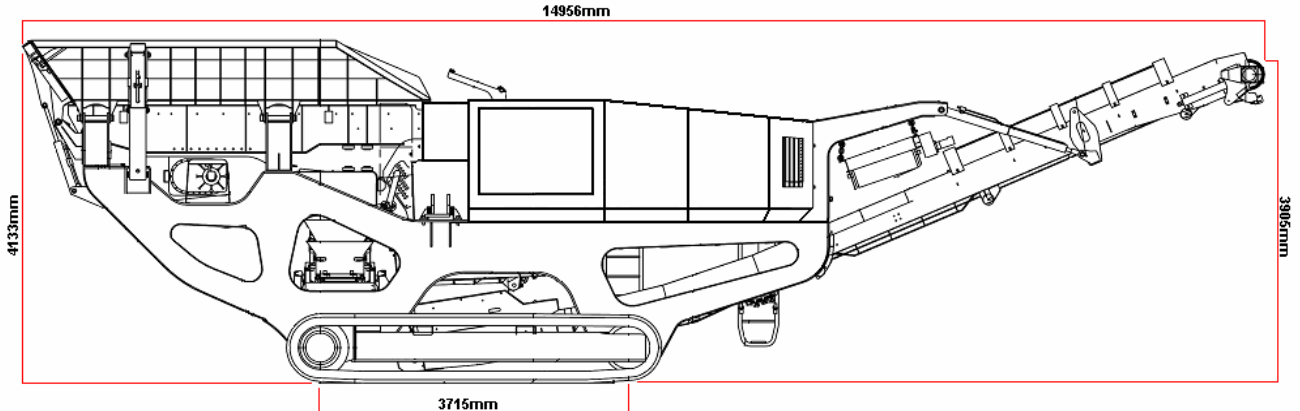




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DIMENSIONS



APPROXIMATE OVERALL PLANT WEIGHTS & DIMENSIONS

Operating Length: 14956mm
Operating Height: 4133mm

Transport Length: 15365mm
Transport Width: 2790mm
Transport Height: 3148mm

Total plant weight: 45000Kg

PAINTING

The plant is finish painted RAL 5015 Blue. The tracks, product conveyor and handrails are painted RAL 7012 Grey.

General

TEREX Pegson equipment complies with CE requirements.

The plant is designed to operate between ambient temperatures of between 0c and 40c at altitudes up to 1000 meters above sea level. For applications outside this range please consult with Terex Pegson Limited.

Photographs and drawings show some optional extras fitted to the plant. For prices of these options please consult your local Terex Pegson dealer.

Please consult TEREX Pegson 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.

Every endeavour will be made to supply equipment as specified, but we reserve the right, where necessary, to amend the specifications without prior notice as we operate a policy of continual product development.

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

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