



TEREX | PEGSON

ADVANCED CRUSHING TECHNOLOGY

MAXTRAK 1000



PLANT USER MANUAL

OPERATION INSTALLATION PARTS MAINTENANCE AND SERVICE



THE QUEEN'S AWARDS
FOR ENTERPRISE:
INTERNATIONAL TRADE
2002

! SAFETY !

This manual contains safety information which the operator should read and follow. Failure to do this will increase the risk of injury or may result in death.

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Product: 2002 Terex Pegson Maxtrak 1000 Operarion Installation Parts Maintenace And Service Manual
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IMPORTANT

**TEREX PEGSON PLANTS CAN INCLUDE
OPTIONAL EQUIPMENT AND/OR SPECIAL
FEATURES ADDITIONAL TO THE
STANDARD SPECIFICATION.**

**THESE MAY AFFECT THE INFORMATION
GIVEN IN THIS OPERATORS MANUAL.**

**LOOK IN SECTION 11 - APPENDIX OF THIS
MANUAL FOR ANY ADDENDUM WHICH
MAY RELATE TO ADDITIONAL EQUIPMENT
OR VARIATIONS TO THE STANDARD
SPECIFICATION.**

**TAKE NOTE OF ANY VARIATIONS TO THE
STANDARD PROCEDURES AND/OR
COMPONENT SPECIFICATIONS.**

Options EN



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IMPORTANT SAFETY NOTICE!

The environment in which the plant will operate contains inherent risks to health and safety which the operator must take steps to guard against. Dangers from overhead conveyor discharges, overspill material, vehicle movements, etc., as well as other site related hazards must be anticipated. Avoid these by carrying out risk assessments before the plant is put into operation to ensure appropriate exclusion zone measures are put in place and site personnel safety awareness training has been undertaken.

Follow all applicable safety regulations and recommendations in this manual as appropriate to your plant and the situation/conditions prevailing at the time.

Read this manual carefully to learn how to operate and service your plant correctly. Failure to do so could result in personal injury or equipment damage.

Consider this manual a permanent part of your plant. Keep it with the plant at all times.

Federal, State, National and Local laws and safety regulations must be complied with at all times to prevent possible danger to person(s) or property from accidents or harmful exposure.

See also the separate Operation and Maintenance Manual provided for the diesel engine fitted to your plant and in particular read and observe the instructions within the Safety Section of the engine manual.

INFORMATION AND ADVICE

If you need any information or advice regarding your Maxtrak, contact:-

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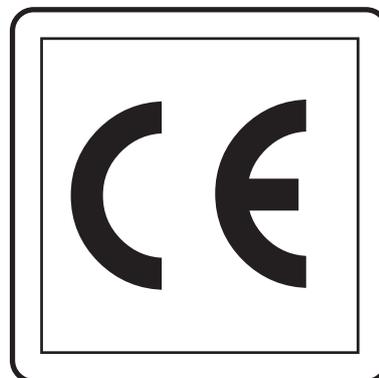


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EC Conformity

This plant is in conformity with the provisions of the EC Machinery Directive 98/37/EC together with appropriate EN Harmonised Standards and National BS Standards and Specifications.



Noise Level

**HEARING HAZARD
EXCEEDS 90 dB (A)**

May cause loss or degradation of hearing over a period of time.

Wear proper hearing personal protective equipment.

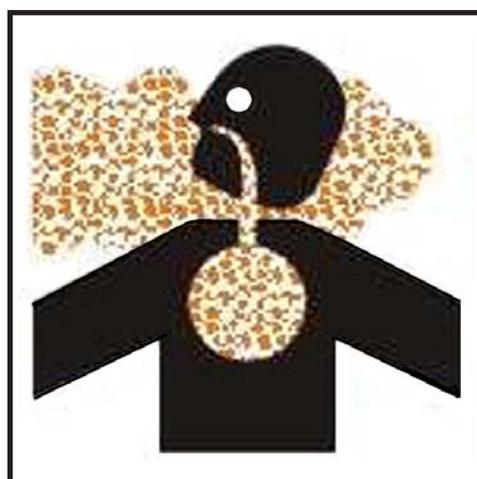


Dust Generation

INHALATION HAZARD

Death, serious injury or delayed lung disease may result from breathing dusts that are generated when certain hazardous materials are crushed, screened or conveyed with this equipment.

When dusts are generated by the operation of this equipment, use approved respiratory protection, as required by Federal, State and Local safety and health regulations.





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Units of Measure

Within this User Manual figures shown within brackets () after the Metric unit of measure are approximate conversions from the actual metric measurement of the item concerned.

CALIFORNIA

Proposition 65 Warning

WARNING: Battery Posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm.

WASH HANDS AFTER HANDLING.

CALIFORNIA

Proposition 65 Warning

WARNING: Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

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AUTOMAX/AUTOSAND - EXPLANATORY NOTE

The Terex Pegson 'Automax' cone crusher is incorporated into the Maxtrak plant. The name 'Automax' is used throughout this manual when referring to the crusher but the instructions apply equally to the alternative 'Autosand' version of the machine, except for the variations relevant to the feed material and the product (Refer to Section 3) together with appropriate changes to the Spare Parts (Section 10).



1 - Safety

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1.1 Warnings and Symbols

The following signs and designations are used in the manual to designate instructions of particular importance.



!!

This is the safety alert symbol. When you see this symbol on your plant or in this manual, be alert to the potential for personal injury or equipment damage.

Follow the recommended precautions and safe operating practices.



! DANGER !

Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.



! WARNING !

Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.



! CAUTION !

Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe working practices.



! NOTICE !

Indicates a statement of company policy as the message relates directly or indirectly to the safety of personnel and protection of property.



1.2 Organisation Measures

1.2.1

Ascertain from the appropriate Authority and observe all statutory and any other regulations that may apply to the planned location before operating the Maxtrak Plant.

Loose or baggy clothing can get caught in running machinery.

Where possible when working close to engines or machinery, only do so when they are stopped. If this is not practical, remember to keep tools, test equipment and all other parts of your body well away from the moving parts.

For reasons of safety, long hair must be tied back or otherwise secured, garments must be close fitting and no jewellery such as rings may be worn. Injury may result from being caught up in the machinery or from rings catching on moving parts.

Always wear correctly fitting (EN/ANSI approved) personal protective equipment.

Personal Protective Equipment includes Hard Hat, Safety Glasses, Hearing Protection, Dust Mask, Close fitting Overalls, Steel Toed Boots, Industrial Gloves and a High Visibility Vest.

1.2.2

You can be injured if you do not obey the safety instructions as indicated on warning stickers.

Observe all safety instructions and warnings attached to the plant.

See to it that safety instructions and warnings attached to the plant are always complete and perfectly legible.

Keep warnings and instruction labels clean.

Replace unreadable or missing labels with new ones before operating the plant. Make sure replacement parts include warning or instruction labels where necessary.

1.2.3

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, clean, service or adjust machinery while it is moving. Keep hands, feet and clothing clear of power driven parts and in running nip-points. Disengage all power and operate controls to relieve pressure. Stop the engine. Implement lockout procedure. Allow the machinery to cool.

Keep all parts in good condition. Ensure that all parts are properly installed. Fix damage immediately. Replace worn and broken parts. Remove any build up of grease, oil and debris.

Disconnect battery ground cable before making adjustments on electrical systems or welding on plant.

For the execution of maintenance work, tools and workshop equipment adapted to the task on hand are absolutely indispensable.



1.2.4

Never make any modifications, additions or conversions which might affect safety without the supplier's approval.

In the event of safety relevant modifications or changes in the behaviour of the plant during operation, stop the plant and lock out immediately and report the malfunction to the competent authority/person.

1.3 Selection and Qualification of Personnel - Basic Responsibilities

1.3.1

Any work on and/or with the plant must be executed by trained, reliable and authorised personnel only. Statutory minimum age limits must be observed.

1.3.2

Work on electrical system and equipment of the plant must be carried out only by a skilled electrician or by instructed persons under the supervision and guidance of a skilled electrician and in accordance with electrical engineering rules and regulations.

1.3.3

Work on the hydraulic system must be carried out only by personnel with special knowledge and experience of hydraulic equipment.



1.4 Safety Instructions Governing Specific Operational Phases

1.4.1 Standard Operation

1.4.1.1

Take the necessary precautions to ensure that the plant is used only when in a safe and reliable state.

Operate the plant only for its designed purpose and only if all guarding, protective and safety orientated devices, emergency shut-off equipment, sound proofing elements and exhausts, are in all place and fully functional.

Before starting the engine ensure it is safe to do so.

1.4.1.2

In the event of material blockage, any malfunction or operational difficulty, stop the plant immediately and lockout. Have any defects rectified immediately.

1.4.1.3

In-running nip points on moving machinery can cause serious injury or even death.

Do not reach into unguarded machinery. Your arm could be pulled in and amputated.

Switch off and lockout the plant before removing any safety devices or guarding.

1.4.1.4

Return idler roller guards should be checked for wear/damage during routine maintenance.

The gap between the guard and the idler roller should not exceed 6mm. The gap between the guard and the conveyor belt should also not exceed 6mm.

If these gaps cannot be achieved through adjustment the guard must be renewed. Contact your local BL-Pegson dealer to obtain an approved replacement.

1.4.2 Special Work In Conjunction with Utilisation of the Plant and Maintenance and Repairs During Operation; Disposal of Parts and Consumables

1.4.2.1

Observe the adjusting, maintenance and intervals set out in these operating instructions, except where:

A : Warning, horn/light/gauge or indicator calls for immediate action.

B : Adverse conditions necessitate more frequent servicing.

Observe information on the replacement of parts and equipment. These activities may be executed by skilled personnel only.



1.4.2.2

When the plant is completely shutdown for maintenance and repair work, it must be secured against inadvertent starting by:

- Switching off the engine and remove the ignition switch/key.
- Implementing the lockout procedure.
- Attaching a warning sign(s) to the plant in appropriate positions.

1.4.2.3

Carry out maintenance and repair work only if the plant is positioned on stable and level ground and has been secured against inadvertent movement and buckling.

1.4.2.4

Never allow unqualified or untrained personnel to attempt to remove or replace any part of the plant, or anyone to remove large or heavy components without adequate lifting tackle.

To avoid the risk of accidents, individual parts and large assemblies being moved for replacement purposes should be carefully attached to lifting tackle and secured. Use only suitable and technically adequate lifting gear.

Never work or stand under suspended loads.

Keep away from the feed hopper and product conveyor discharge, where there is risk of serious injury or death due to the loading and removal of material.

1.4.2.5

Falling from and/or onto a BL-Pegson plant can cause injury or even death.

Do not climb on the plant whilst it is in operation. Never use plant parts as a climbing aid.

Beware of moving haulage and loading equipment in the vicinity of the plant.

For carrying out overhead assembly work always use specially designed or otherwise safety-oriented ladders and working platforms.

Always use any walkway/platforms provided or a safe and secure platform approved by the regional safety enforcing authority.

Always use an EN/ANSI approved safety harness when reaching any points 7ft (2m) or more above the ground level.

Keep all handles, steps, handrails, platforms, landing and ladders free from dirt, oil, snow and ice.

1.4.2.6

The fastening of loads and instructing of crane operators should be entrusted to experienced persons only. The marshaller giving the instructions must be within sight or sound of the operator.



1.4.2.7

After cleaning, examine all fuel, lubricant, and hydraulic fluid lines for leaks, loose connections, chafe marks and damage. Any defects found must be rectified without delay.

1.4.2.8

Any safety devices removed for setup, maintenance or repair purposes must be refitted and checked immediately upon completion of the maintenance and repair work to ensure full working order.

1.4.2.9

Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with BL-Pegson equipment includes such items as oil, fuel, coolant, filters and batteries, etc.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain or into any water source.

Ensure that all consumables and replaced parts are disposed of safely and with minimum environmental impact.

1.4.2.10

Always ensure that any safety fitment such as locking wedges, securing chains, bars or struts are utilised as indicated in these operating instructions.

Particularly make sure that any part of the plant raised for any reason is prevented from falling by securing in a safe reliable manner.

Never work under unsupported equipment.

Never work alone.

1.4.2.11

Diesel fuel is highly flammable.

Never remove the filler cap, or refuel, with the engine running.

Never add gasoline or any other fuels mixed to diesel because of increased fire or explosion risks.

Do not carry out maintenance on the fuel system near naked lights or sources of sparks, such as welding equipment or whilst smoking.

1.4.2.12

Using unapproved structures i.e. walkways/ platforms etc. in the vicinity of a BL-Pegson plant is very dangerous and could lead to serious injury or even death through falling and/or entanglement with the plant.

Do not use any unauthorised structures.



1.5 Warning of Special Dangers

1.5.1 Electric Energy

1.5.1.1

Use only original fuses with the specified current rating. Switch off the plant immediately if trouble occurs in the electrical system.

Plants with high voltage electrical equipment **must** be suitably earth bonded by a qualified electrician prior to activating the main isolator switch.

1.5.1.2

When working with the plant, maintain a safe distance from overhead electric lines. If work is to be carried out close to overhead lines, the working equipment must be kept well away from them. Check out the prescribed safety distances.

1.5.1.3

If your plant comes into contact with a live wire:

- Warn others against approaching and touching the plant.
- Have the live wire de-energized.

1.5.1.4

Work on the electrical system or equipment may only be carried out by a skilled and qualified electrician or by specially instructed personnel under the control and supervision of such an electrician and in accordance with applicable electrical engineering rules.

1.5.1.5

If provided for in the regulations, the power supply to parts of plants and plants, on which inspection, maintenance and repair work is to be carried out must be cut off. Before starting any work, check the de-energized parts for presence of power and ground or short circuit them in addition to insulating adjacent live parts and elements.

1.5.1.6

The electrical equipment of the plant is to be inspected and checked at regular intervals. Defects such as loose connections or scorched or otherwise damaged cables must be rectified immediately.

1.5.1.7

Necessary work on live parts and elements must be carried out only in the presence of a second person, who can cut off the power supply in the case of danger by actuating the emergency shut off or main power switch. Secure the working area with a red and white safety chain and a warning sign. Use insulated tools only.



1.5.1.8

Before starting work on high voltage assemblies and after cutting out the power supply, the feeder cable must be grounded and components such as capacitors short-circuited with a grounding rod.

1.5.1.9

These plants are wired on negative earth. Always observe correct polarity.

Always disconnect battery leads before carrying out any maintenance to the electrical system.

The battery contains sulphuric acid, an electrolyte which can cause severe burns and produce explosive gases.

Avoid contact with the skin, eyes or clothing.

1.5.2 Gas, Dust, Steam, Smoke and Noise

1.5.2.1

Always operate internal combustion engines and fuel operated heating systems only out of doors or in a well ventilated area. Before starting the plant in enclosed areas, make sure that there is sufficient ventilation.

Observe the regulations in force at the respective site.

Dust found on the plant or produced during work on the plant should be removed by extraction, not blowing.

Dust waste should be dampened, placed in a sealed container and marked, to ensure safe disposal.

1.5.2.2

Carry out welding, flame cutting and grinding work on the plant only if this has been expressly authorised, as there may be a risk of explosion and fire.

1.5.2.3

Before carrying out welding, flame cutting and grinding operations, clean the plant and its surroundings from dust and other inflammable substances and make sure the premises are adequately ventilated (as there may be a risk of explosion).



1.5.2.4

Always ensure that the operator(s) are provided with hearing protection of approved pattern and that these are worn at all times when the plant is operating.

Ensure operators wear a suitable face mask where exposed to possible harmful effects of air pollution of any kind.

1.5.3 Hydraulic and Pneumatic Equipment

1.5.3.1

Work on hydraulic equipment may be carried out only by persons having special knowledge and experience in hydraulic systems.

1.5.3.2

Check all lines, hoses and screwed connections regularly for leaks and obvious damage. Repair damage immediately. Splashed oil may cause injury and fire.

1.5.3.3

Depressurise all system sections and pressure pipes (hydraulic system, compressed air system) to be removed in accordance with the specific instructions for the unit concerned before carrying out any repair work.

1.5.3.4

Hydraulic and compressed air lines must be laid and fitted properly. Ensure that no connections are interchanged. The fittings, lengths and quality of the hoses must comply with the technical requirements.

1.5.3.5

Always practice extreme cleanliness servicing hydraulic components.



1.5.3.6

Hydraulic fluid under pressure can penetrate the skin causing serious injury.

If fluid is injected under the skin, it must be surgically removed or gangrene will result. Get **medical help immediately**.

Always relieve pressure from the hydraulic system before carrying out any kind of maintenance or adjustment.

Always use a piece of cardboard to check for leaks. Do not use your hand.

1.5.4 Hazardous Substances

Ensure that correct procedures are formulated to safely handle hazardous materials by correct identification, labelling, storage, use and disposal, all strictly in accordance with the manufacturers instructions and that all applicable regulations are observed at all times.

1.6 Transporting, Manoeuvring and Recommissioning

1.6.1

The plant must be towed, loaded and transported only in accordance with the operating instructions.

1.6.2

For towing the plant, observe the prescribed transport position, admissible speed and itinerary.

1.6.3

Use only appropriate means of transport and lifting gear where applicable of adequate capacity.

1.6.4

The recommissioning procedure must be strictly in accordance with the operating instructions.

1.6.5

Before starting work or travelling with the plant, check that the braking, and any signalling and lighting systems are fully functional.

1.6.6

Before setting the plant in motion always check that the accessories have been safely stowed away.



1.6.7

When travelling on public roads, ways and places, **always** observe the valid traffic regulations and, if necessary, ensure beforehand that the plant is in a condition compatible with these regulations.

1.6.8

In conditions of poor visibility and after dark, always switch on the lighting system of the transporting vehicle..

1.6.9

When crossing underpasses, bridges and tunnels or when passing under overhead lines always make sure that there is sufficient clearance.

1.6.10

Never travel across slopes; always keep the working equipment and the load close to the ground, especially when travelling downhill.

1.6.11

On sloping terrain, always adapt your travelling speed to the relevant ground conditions. Never change to a lower gear on a slope. **Always** change gear before reaching a slope.

1.6.12

Explosive separation of a tyre and rim parts can cause injury or death.

Do not attempt to mount a tyre unless you have the proper equipment to perform the job.

Always maintain the correct pressure. Do not inflate the tyre above the recommended pressure. Never weld or heat wheel and tyre assembly. The heat can cause an increase in air pressure resulting in a tyre explosion. Welding can structurally weaken or deform the wheel.

When inflating tyres, use a clip-on chuck and extension hose long enough to allow you to stand to one side and not in front or over the assembly. Use safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.

1.7 Position of Emergency Stop Buttons

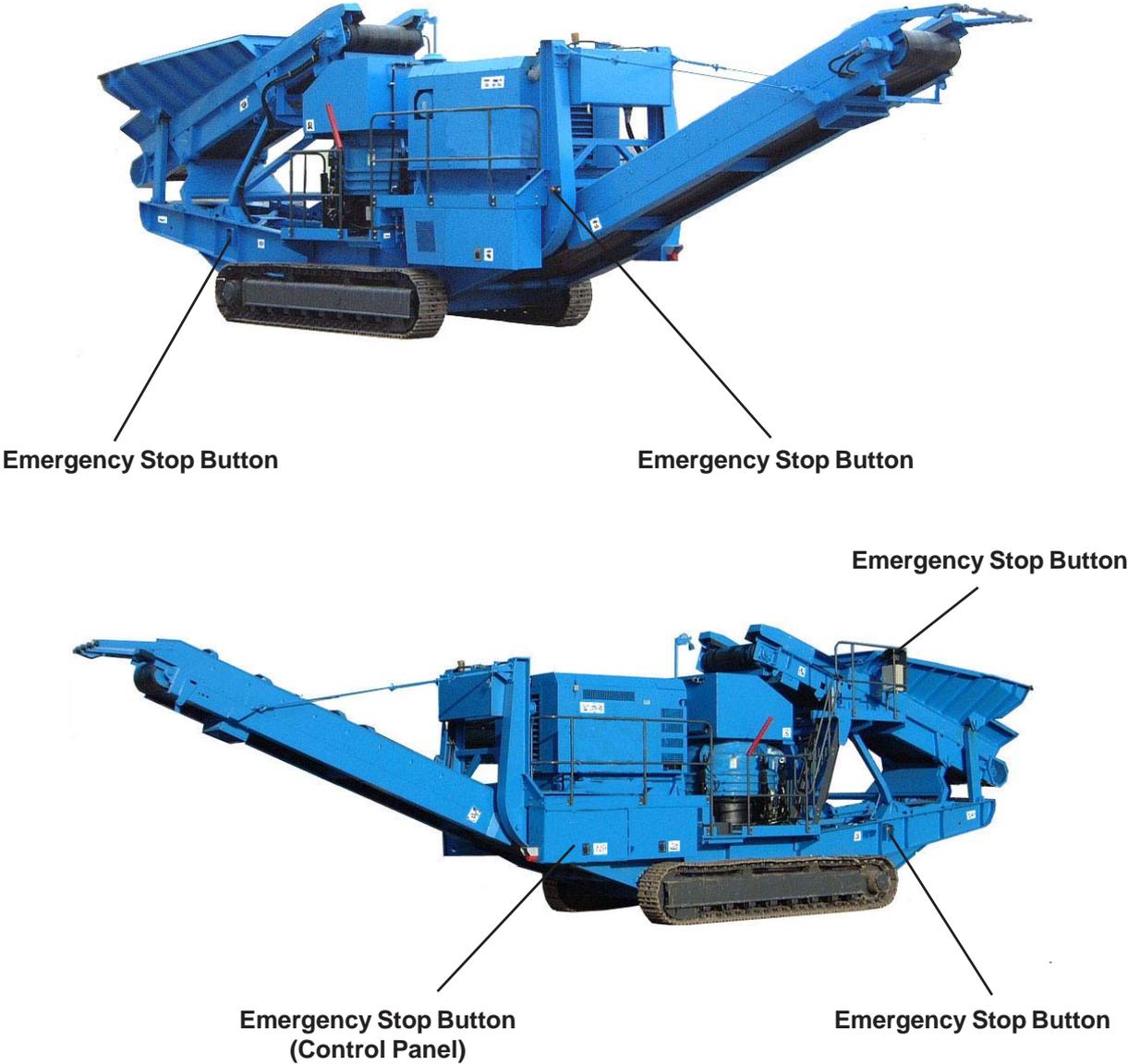
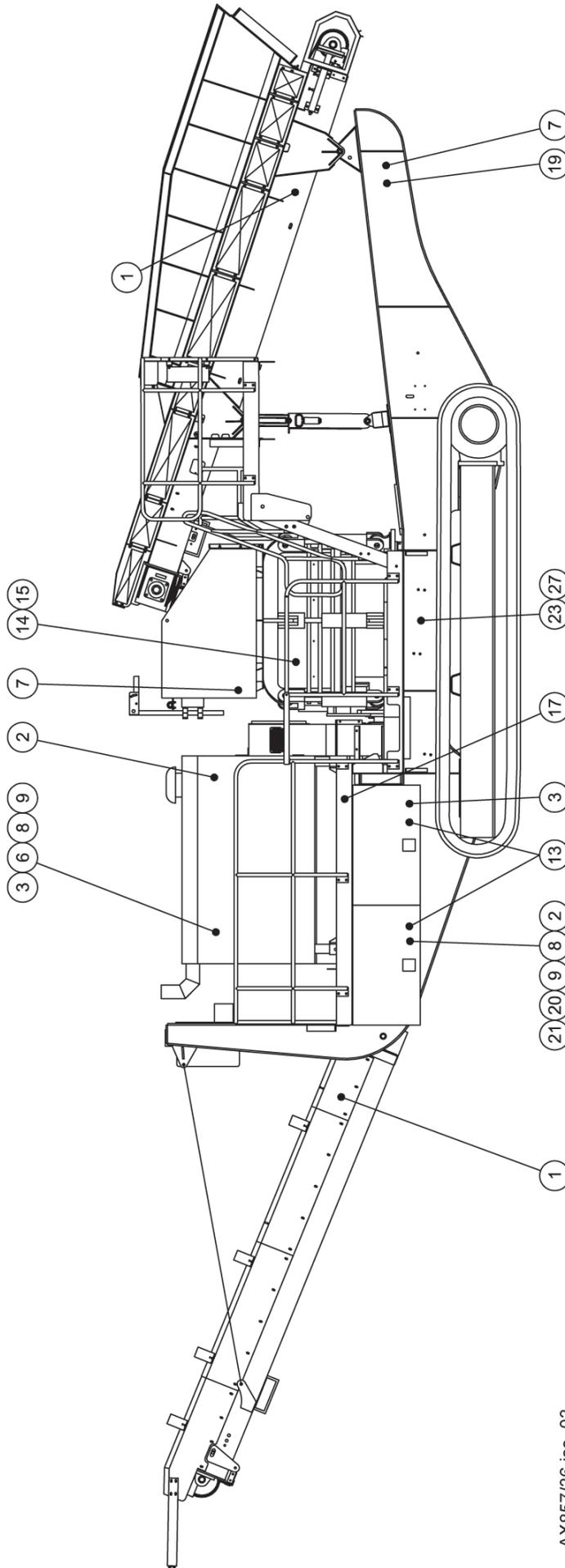


Figure 1a Emergency Stop Buttons

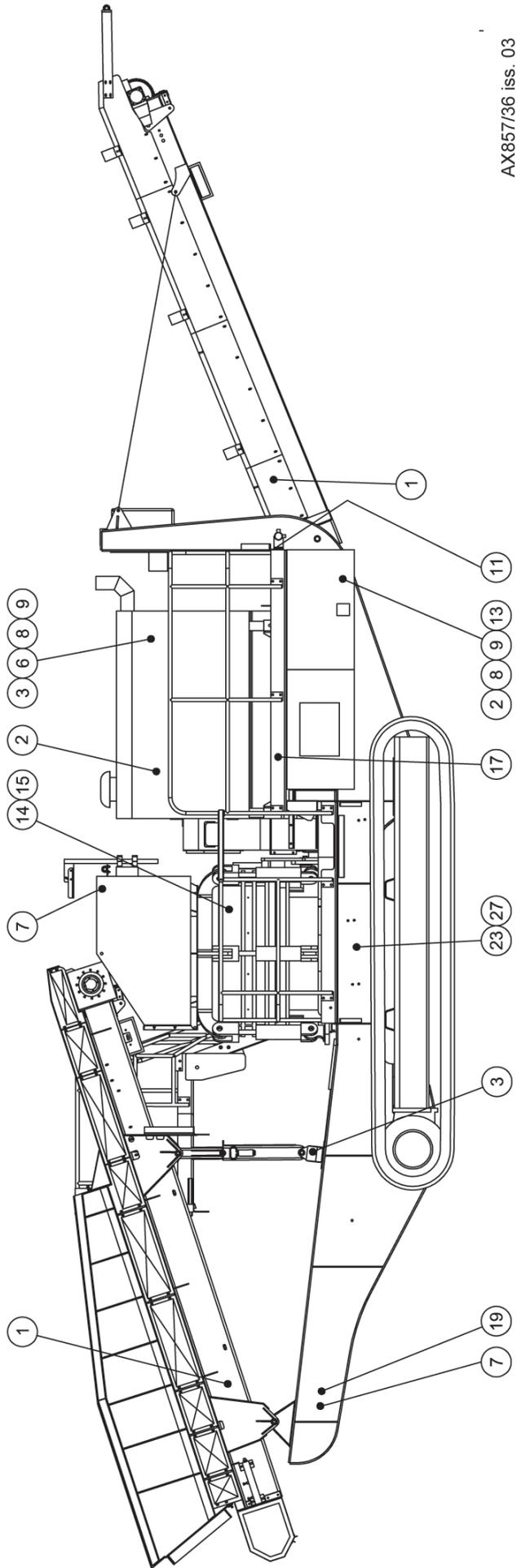
1.8 Safety Signs

1.8.1 Location of Safety Signs



AX857/36 iss. 03

Figure 1b Warning Signs - Left Hand Side



AX857/36 iss. 03

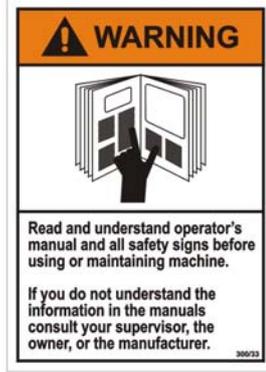
Figure 1c Warning Signs - Right Hand Side
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1.8.2 Safety Sign Illustrations



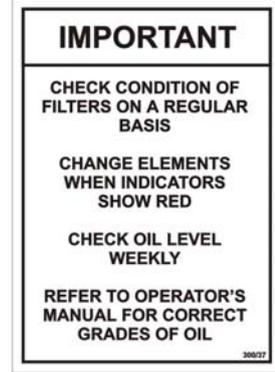
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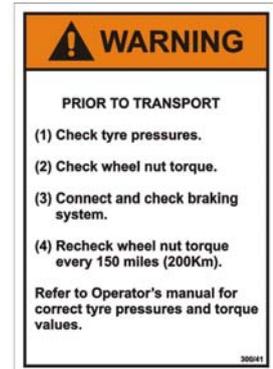
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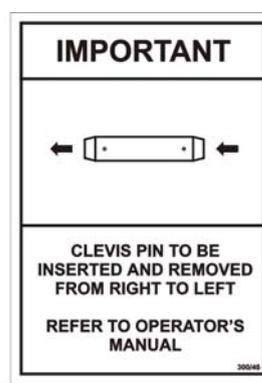
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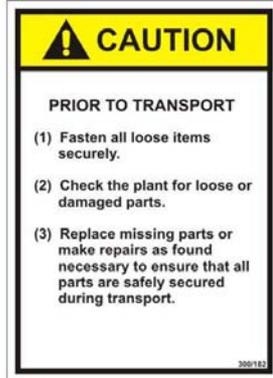
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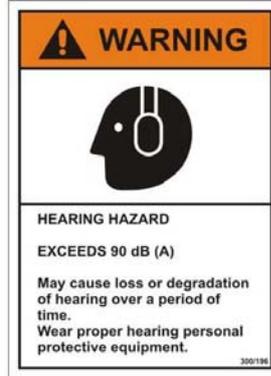
1.8.2 Safety Sign Illustrations, continued



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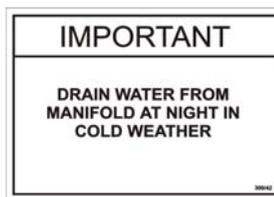
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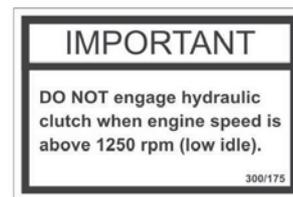
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2 - Technical Information

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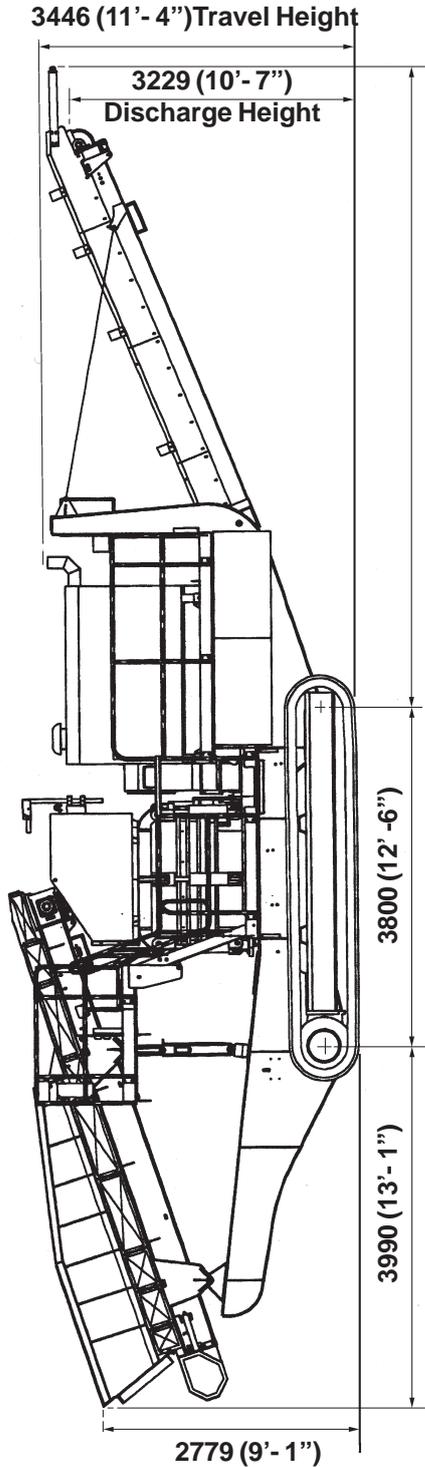
Terex Pegson Limited have designed and built the Maxtrak plant to provide the Buyer with a range of equipment choices to meet a wide variety of individual needs and preferences as selected at the time of initial purchase.

**Please note that the asterisk * in the text of this User Manual signifies:
Not included in all plants - only appropriate if the item is fitted.**

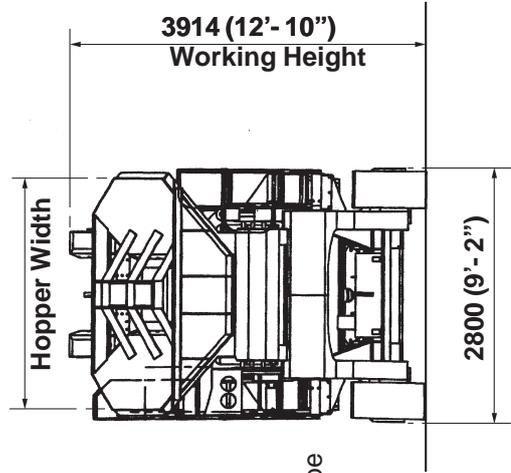
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2.1 Dimensions and Weights



All dimensions are in millimetres (feet/inches)



- Overall Travelling Length (Feed Conveyor lowered) - 15095 mm (49'- 6'')
- Overall Working Length (Feed Conveyor raised) - 15173 mm (49'- 9'')
- Overall Travelling Height (Feed Conveyor lowered) - 3446 mm (11'- 4'')
- Overall Working Height (Feed Conveyor raised) - 3914 mm (12'- 10'')
- Overall Width - Travelling & Working (Over Tracks) - 2800 mm (9'- 2'')

Gross Weight approx. - 31.3 tonnes (34.4 US tons)

Note: Weights and dimensions are for guidance only and appropriate allowances should be applied when being used for transportation purposes.

Figure 2a Dimensions and Weights



2.2 Plant Description

Many of the terms used in this manual may not at first be obvious. Figure 2b identifies the main areas of the plant and the term with which they are referred to in this manual.

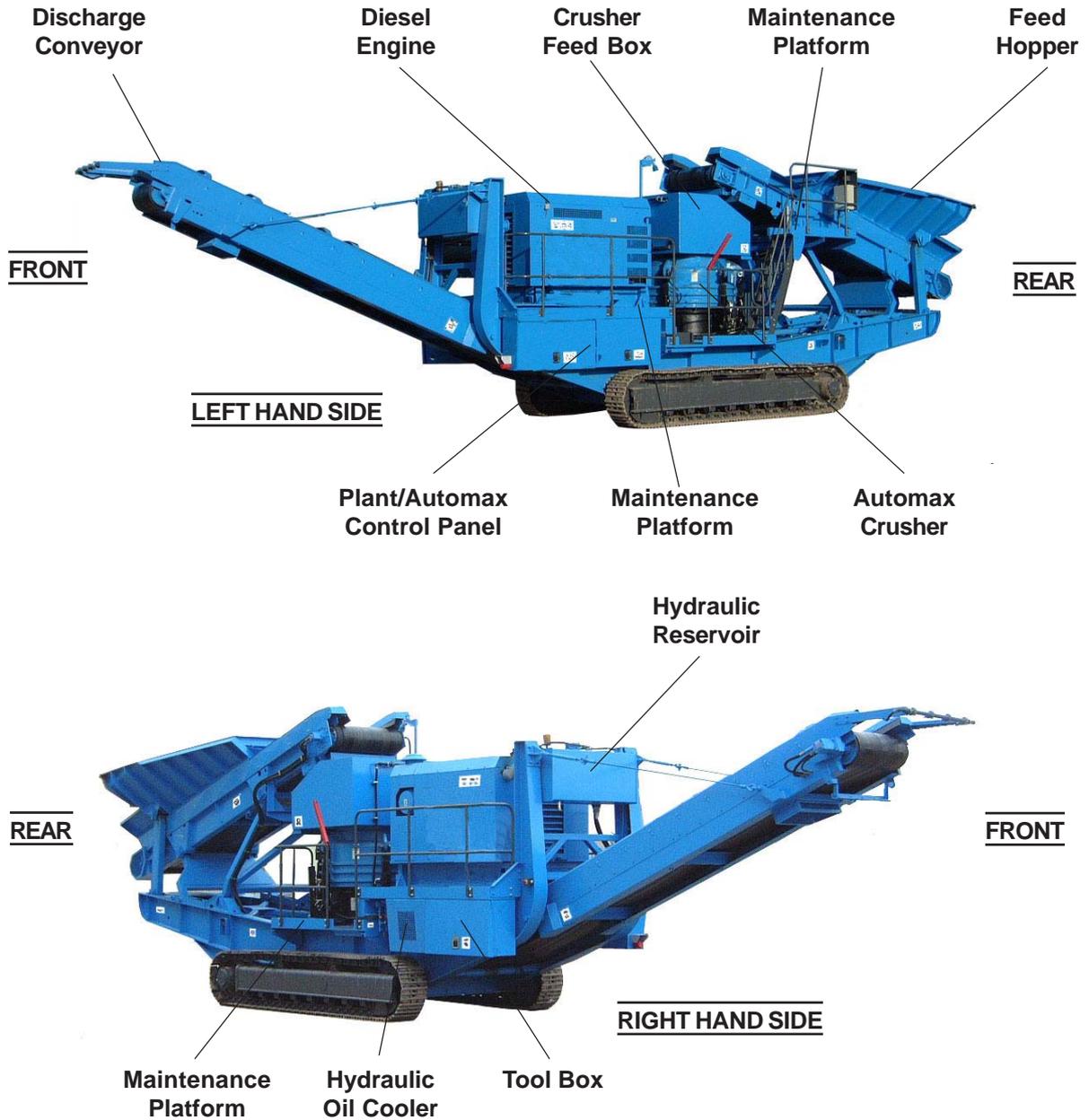


Figure 2b Plant Terms

2.3 Belt Feeder Conveyor

Type	Shallow troughed plain belt.
Width	1000mm (39").
Length	5400mm (17'-9").
Drive Unit	Hydraulic motor with head drum oil lubricated gearbox
Control	Auto/manual variable speed.
Hopper	Fixed hopper with rear feed facility and internal 'strickle' gate and full length barge boards with wear pads.
Hydraulic Equipment	Cylinders to raise and lower for travel and maintenance.
Control Equipment	Metal detector. Level sensor an optional extra.

2.4 Crusher

Type	Automax roller bearing Cone Crusher.
Size	1000mm (39").
Liners	Manganese mantle and concave.
Adjustment/Controls	Hydraulic setting adjustment, automatic overload release and unblocking with multi-function keypad and status display screen. (see also 2.7 - Controls).
Lubrication	Separate lubricating oil tank with air blast oil cooler.
Drive	Vee rope drive from engine via hydraulically controlled clutch.
Control Equipment	High level sensor over the feed box.

2.5 Discharge Conveyor

Type	Plain troughed belt.
Width	800mm (32").
Drive	Hydraulic motor.
Lubrication	Grease (shaft bearings).
Enclosure	Canvas cover.
Control equipment	Tail drum movement sensor.