

1012T TRACKED IMPACT CRUSHER

FEATURES



The versatile 1012T model is TESAB's highly efficient horizontal shaft impactor for secondary application. The user friendly design allows rapid setup to achieve maximum output.

- Powerful and reliable C9 Caterpillar Powerpack
- Extra heavy duty construction to cope with the rigorous demands of crushing
- Hydraulically Adjustable crusher unit to maximise working time
- Built in speed sensor on crusher unit cutting power to feed in, before the crusher overloads
- Variable speed primary vibrating plate feeder
- Secondary independent, grizzly screening scalper to divert unnecessary material through the crusher increasing efficiency.
- Side dirt conveyor with 1.8m outreach
- V-belt drive for direct application of power resulting in more efficient operation
- Easy access panels throughout
- Production rate of 250tph +
- Provides excellent shape and high percentage reduction in one pass
- Optional magnet, dust suppression and radio remote control
- Full backup provided by our dealer network

IMPACT CRUSHER

Crusher Type: Horizontal Shaft Rotor crusher design
Feed Opening: 1020mm x 780mm
Bearings: Self aligning spherical roller design



Lubrication: Grease
Drive: Direct drive V-belts to adjustable engine
Factory Preset:
Minimum Setting: 4mm
Maximum Setting: 80mm
Adjustment: Wedge system operated by hydraulics via dog lead
Overload Protection: Controlled by speed sensor that cuts feed if rotor speed falls below a preset value.

PRIMARY VIBRATING FEEDER



Type:	Spring mounted heavy duty (20mm Hardox)
Vibrating Unit:	Twin shaft, geared design
Length:	2600mm
Width:	940mm
Drive:	Hydraulic motor via flexible coupling to drive shaft
Control:	Variable speed control with remote stop/start

SCALPING FEEDER

This highly efficient feeder is designed to 'screen out' the fines allowing for increased tonnage through the crusher.



Vibrating Unit:	Spring mounted, two bearing design
Drive:	Hydraulic motor via flexible coupling
Length:	1660mm
Width:	940mm
Spacing:	Tapered from top to bottom

HOPPER

Hopper Type:	Heavy duty, fully lined, hydraulic folding
Hopper Length:	4800mm
Hopper Width:	2800mm
Hopper Capacity:	7m ³
Hopper Body:	15 mm thick
Folding:	Hydraulic folding with securing pins



PRODUCT CONVEYOR

Conveyor Type:	Troughed belt conveyor with hydraulic lower/raise for transport
Belt Type:	Heavy duty 4 ply belt
Belt Specification:	EP63014
Belt Width:	1000 mm
Discharge Height:	3300 mm

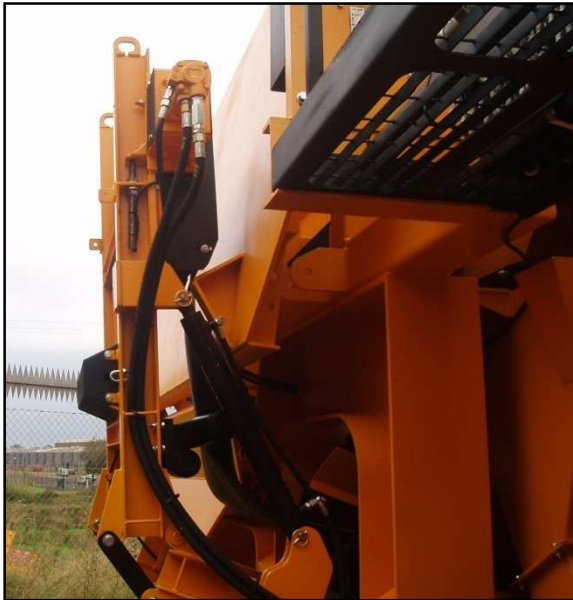


Drive:	Hydraulic Torque hub through flexible coupling
Skirting:	Fully Skirted
Belt Adjustment:	At top end down, guide rollers to prevent belt run off
Dust Covers:	Dust Covers at Crusher feed out and under Engine, full belt dust covers optional.
Lubrication:	All grease points at ground level
Crusher Feedout Clearance:	Dead box coupled with impact bars



DIRT CONVEYOR

Conveyor Type:	Troughed belt conveyor with hydraulic lower/raise
Belt Specification:	EP500/3 5mm top cover 1.5mm bottom cover
Belt type:	Heavy duty 3 ply belt
Belt width:	800mm
Discharge Height:	2060mm
Discharge Outreach:	1800mm
Drive:	Hydraulic Motor
Feedboot:	Flexible coupling
Skirting:	Full steel skirting
Belt Adjustment:	Via top end down
Belt Covers:	Optional
Lubrication:	Grease points at ground level



POWERPACK

Powerpack Type:	Caterpillar Tier III C9 Powerpack
Performance:	300 HP, 225 KW
Fuel Tank Capacity:	700 litres
Clutch Type:	Twin Disc IBF 314 (3 plate) PTO
Drive:	Direct V belt drive from Engine to Crusher
Access:	All areas
Hydraulic Drive:	Hydraulic Pumps fitted to Caterpillar auxillary drives to power hydraulic system



Access: Easy access provided to engine via 2 catwalk areas. Engine canopy has several hinged access panels.

CRAWLER TRACKS



Type:	Heavy-duty steel tracks
Longitudinal Centers:	3750mm
Track Shoes:	500mm
Climbing Grade:	24°
Track Speed:	0.96 km/hr
Drive:	Gearbox and hydraulic motor
Track Tensioning:	Heavy duty recoil and grease tensioning

GUARDING

Guarding is provided by a combination of sheet metal and wire mesh, manufactured for ease of access and maximum safety. All guards comply with health and safety standards and manufactured to meet CE standards.



CATWALKS AND LADDERS

All relevant catwalks, handrails and ladders are fitted to this machine allowing easy access to either side of the engine and other relevant maintenance points. A viewing platform is provided to supervise the crushing process complete with speed controls for the feed.

Manufacture, materials and design is of a high standard and complies with all essential health and safety requirements.



CHASSIS

The chassis and main structures are constructed of heavy duty plate and welded steel plates, ribbed and stiffened. As a result this robust construction can withstand all travelling stresses and extreme operational demands.



A lockable toolbox is incorporated onto the chassis of the machine as standard.



CENTRAL CONTROL PANEL

A central control panel is located at the side of the machine to allow operation of:

- ENGINE
- CRUSHER
- PRODUCT CONVEYOR
- FEEDER
- DIRT CONVEYOR
- OPTIONAL EXTRAS IF FITTED



Each item is operated through a push button system and the panel is manufactured to an IP66 standard.

UMBILICAL CONTROLS

The tracks are operated via “dog lead” control complete with emergency stop. The hydraulic adjustment on the crusher is also operated via dog lead to let the operator view the crusher jaws during the setting procedure (see crusher section).



FEEDER CONTROLS

The primary and scalping feeders are fitted with the following controls as standard:

- Independent push button controls at the central control panel
- Primary feeder speed control on the viewing platform
- Both feeders linked to remote control start/stop
- Speed sensor on crusher pulley to stop feeders if crusher speed slows down, thus preventing jamming



OPTIONAL EXTRAS

- Manual Clutch
- Autolube
- Radio Remote Control
- Belt Scales
- Magnet
- Dust Suppression Spray Bars
- Long Dirt Conveyor
- Feed Hopper Extensions
- Plant Lighting
- Other options on request

AUTOMATIC LUBRICATION SYSTEM**OPTIONAL**

Autolube operates at regular intervals supplying grease to various points around the machine.

Pump: Lincoln, compact, multiline, central lubricating pump, with easy fill point.

Operation: Automatic controlled by a timer with test run/additional lube function operated from control panel.

Includes a pressure relief system to indicate if pipe is “squeezed”.



MANUAL CLUTCH

OPTIONAL

Type: Twin Disc CAT

Heavy duty 3 plate PTO
Manual Engagement

RADIO REMOTE CONTROL

OPTIONAL

The radio remote allows operation of the tracks and is fitted with emergency stop.



BELT SCALES

OPTIONAL

A modular design, self aligning load cell fitted onto "TESAB" roller system. Heavy duty belt speed wheel sensor. Corrosion resistant enclosure housing the display which is located to customer requirements (standard position is beside control panel).
Accuracy: $\pm 0.5\%$ - 1%

Need Picture

MAGNET

OPTIONAL

Type:	Self cleaning suspended overboard magnet
Width:	531mm
Length:	1050mm
Conveyor Drive:	From machine hydraulic system to hydraulic motor via flexible coupling
Control:	Independent start/stop at central control panel
Power:	570 Gauss @ 200mm 450 Gauss @ 250mm
Discharge Chute:	Non Magnetic



DUST SUPPRESSION SPRAY BARS**OPTIONAL**

Dust suppression spraybars fitted at two points:

- Feed into crusher
- Discharge of product conveyor

Both spraybars are independently controlled via gate valves.

Both of the spraybars are piped back to ground level manifold with shutoff valves.

**FEED HOPPER EXTENSIONS****OPTIONAL**

Additional hinged extension pieces can be fitted to allow extra capacity and use of a larger loader or side load capabilities.



PLANT LIGHTING**OPTIONAL**

Working lights are positioned at two locations:

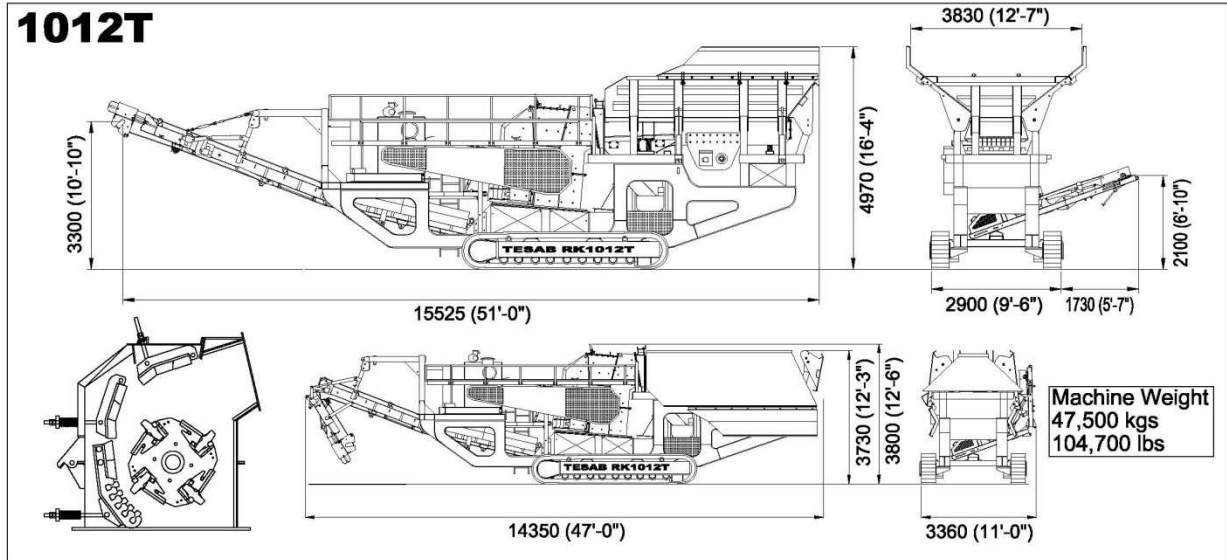
- On chassis facing product conveyor feed out
- On viewing platform facing the feed in and also lighting to face engine compartment

The control switch for these lighting extras is located at the central control panel.

OTHER OPTIONS ON REQUEST**OPTIONAL**

TESAB aim to provide a solution to specific customers requirements at all times and other custom specification can be arranged.

DIMENSIONS



APPROXIMATE OVERALL PLANT WEIGHTS AND DIMENSIONS

Operating Length:	15525mm
Operating Height:	4970mm
Transport Length:	14350mm
Transport Width:	3360mm
Transport Height:	3730mm
Total Plant Weight:	47500kg

PAIN T FINISH

The plant is finished painted in RAL 1007 Yellow.
The tracks, canopies, handrails, ladders and catwalks are finished in B401 Matt Black.

General

Specification is correct at time of going to print however due to continual product development amendments may be made.