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Mobile Crushing & Screening

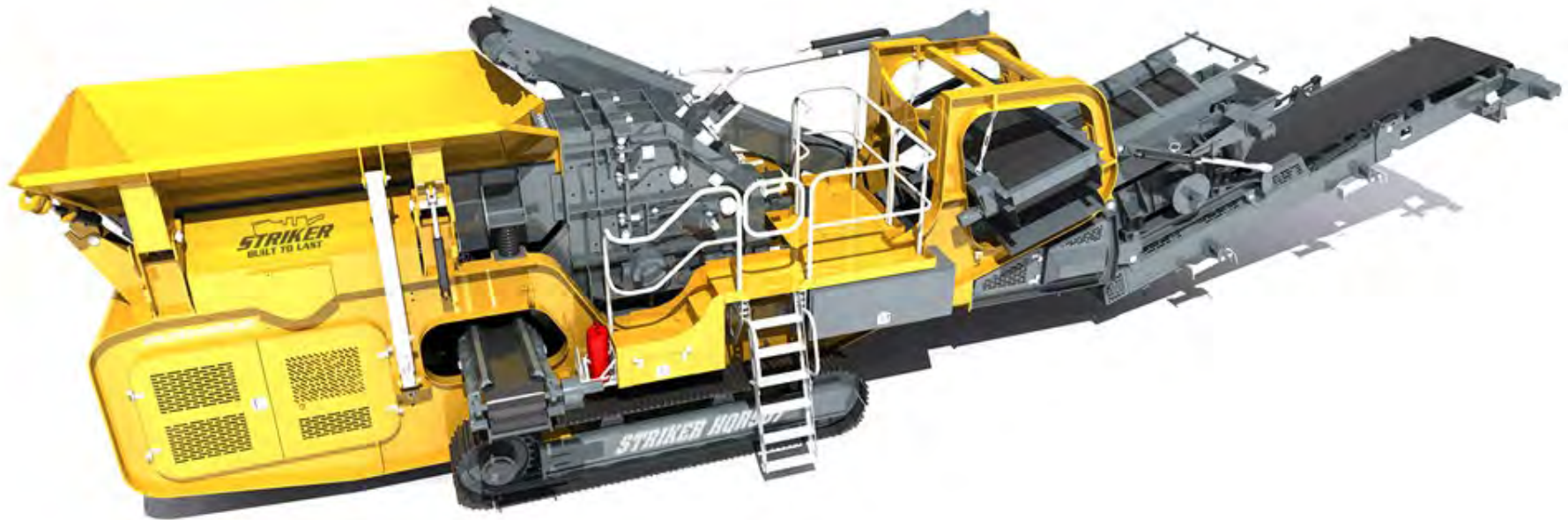
HQR907

Features & Benefits







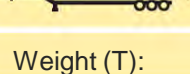
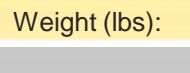
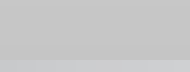



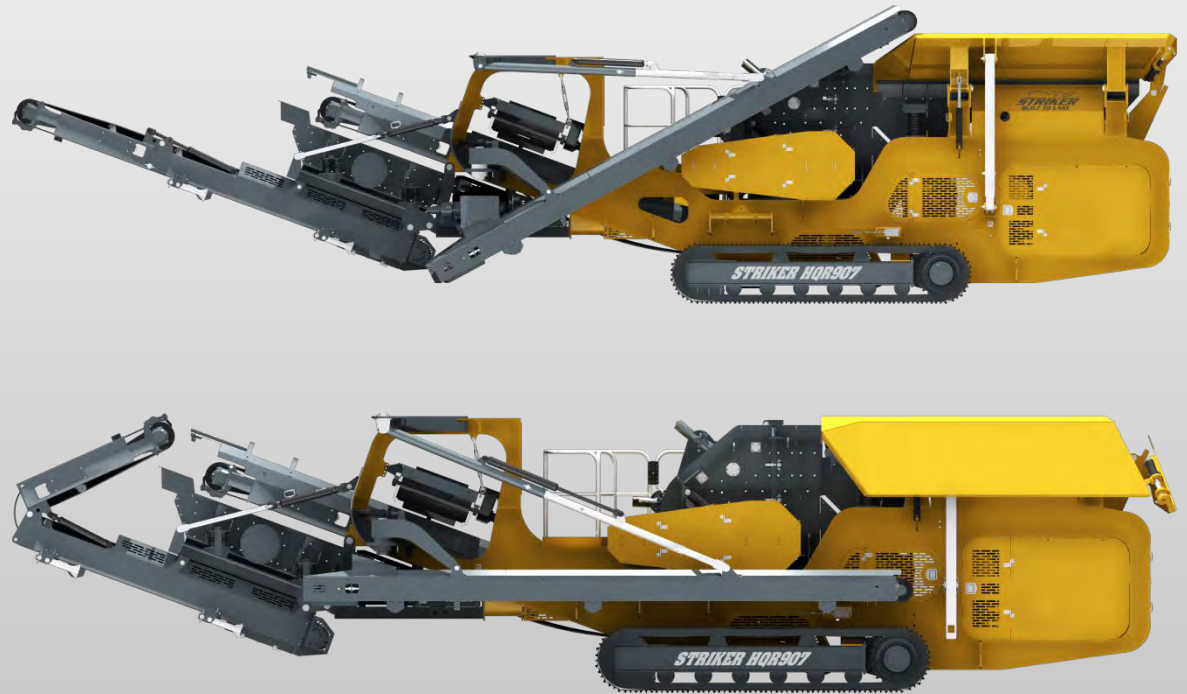
(SP02SI145-1900)

Tracked Impact Crusher HQR907

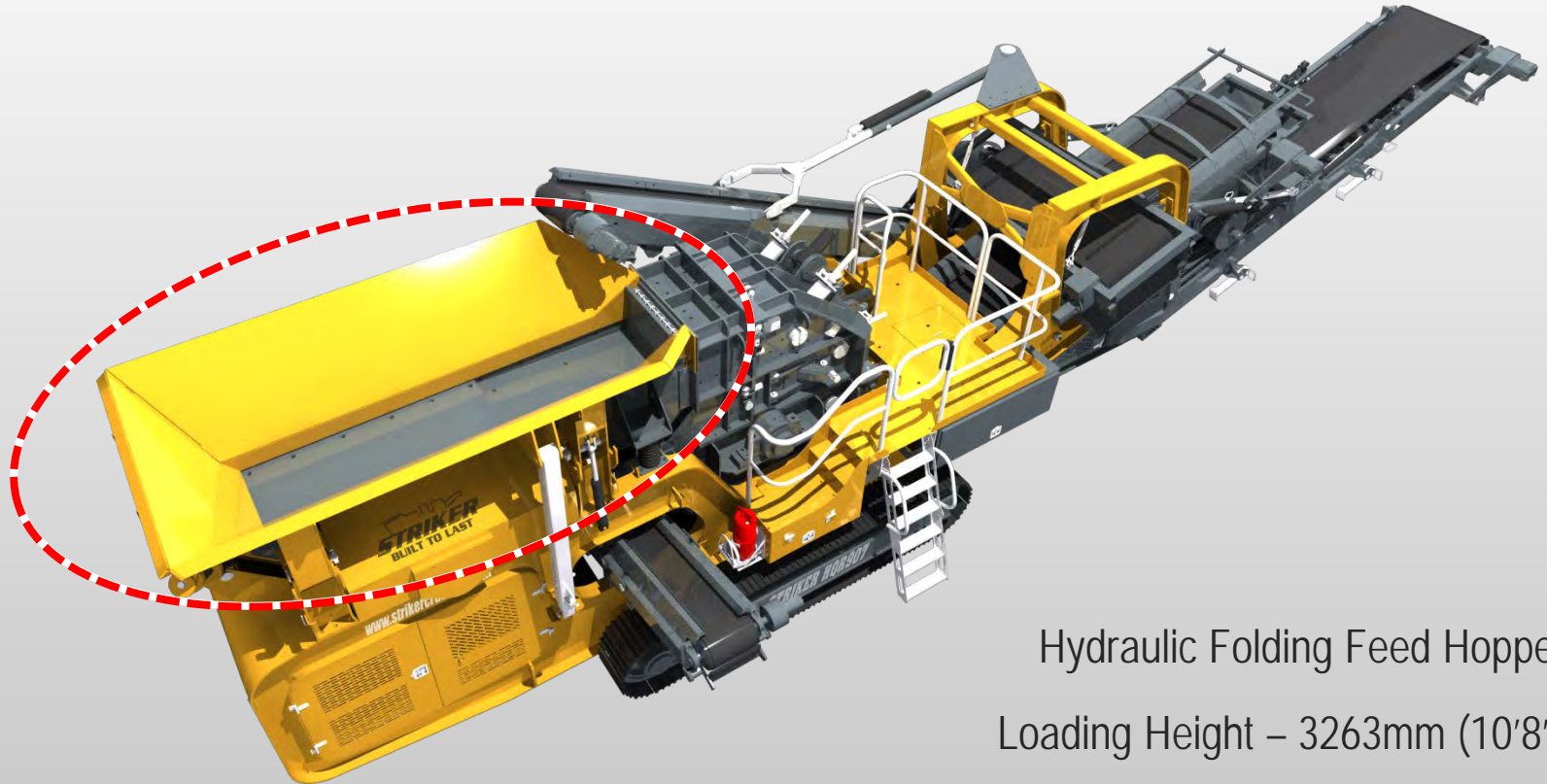


Transport Dimensions

HQR907	
Operating Dimensions:	
	14099
	46' 3"
	3925
	12' 11"
	3603
	11' 10"
Transport Dimensions:	
	12667
	41' 7"
	3065
	10' 1"
	3032
	9' 11"
Weight (T):	31.6T
Weight (lbs):	69,666lbs



Feed Hopper



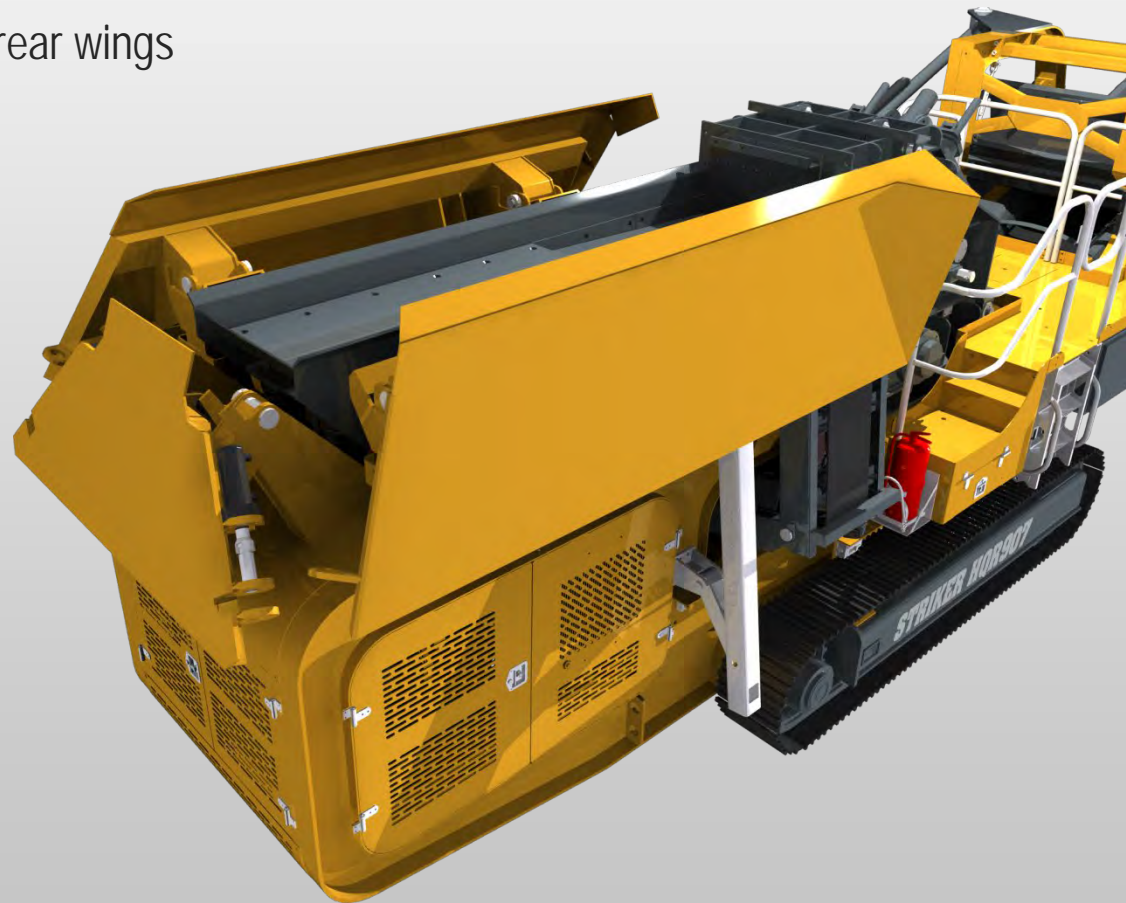
Hydraulic Folding Feed Hopper

Loading Height – 3263mm (10'8")

Feed Hopper Capacity – 4.0m³ (5.0yd³)

Feed Hopper Wings

- Heavy duty wear resistant steel feed hopper construction
- Hydraulically operated folding side and rear wings
- Reinforced box section webs
- Rapid set up time

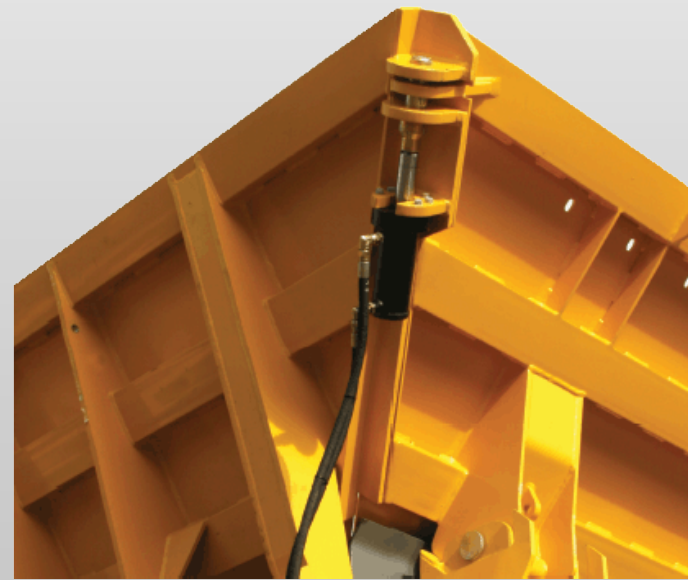
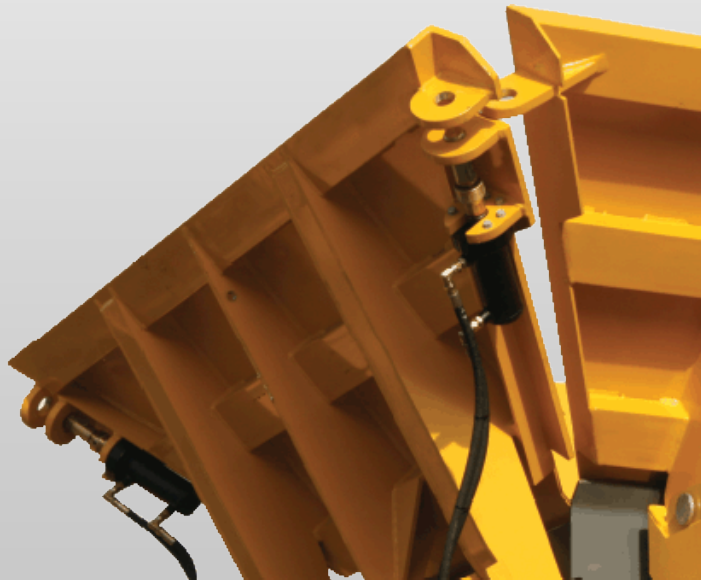


Feed Hopper Pins

Unique hydraulic locating and locking system

Increased safety feature

Removes the need to climb on the plant

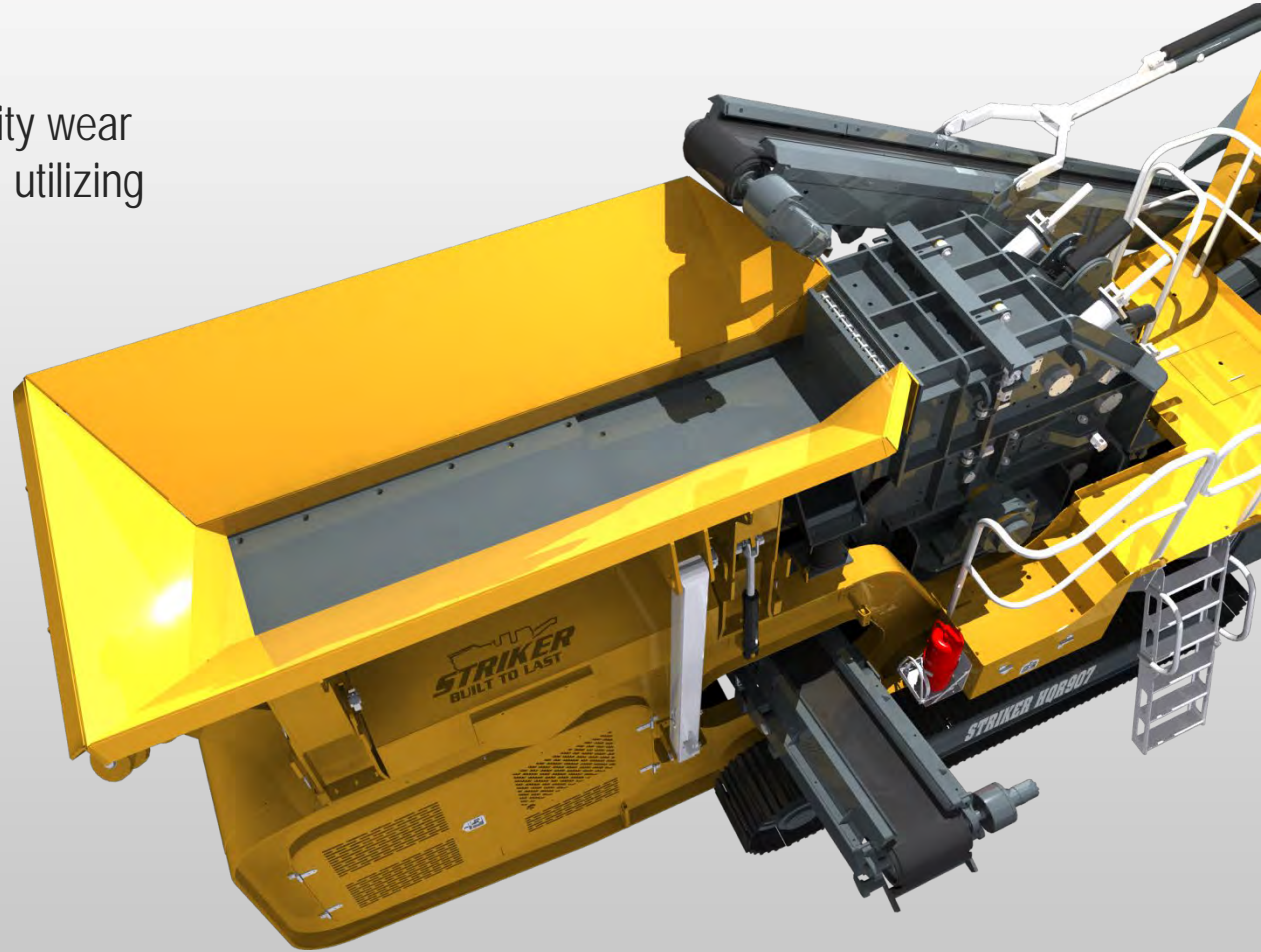


Feeder Liners

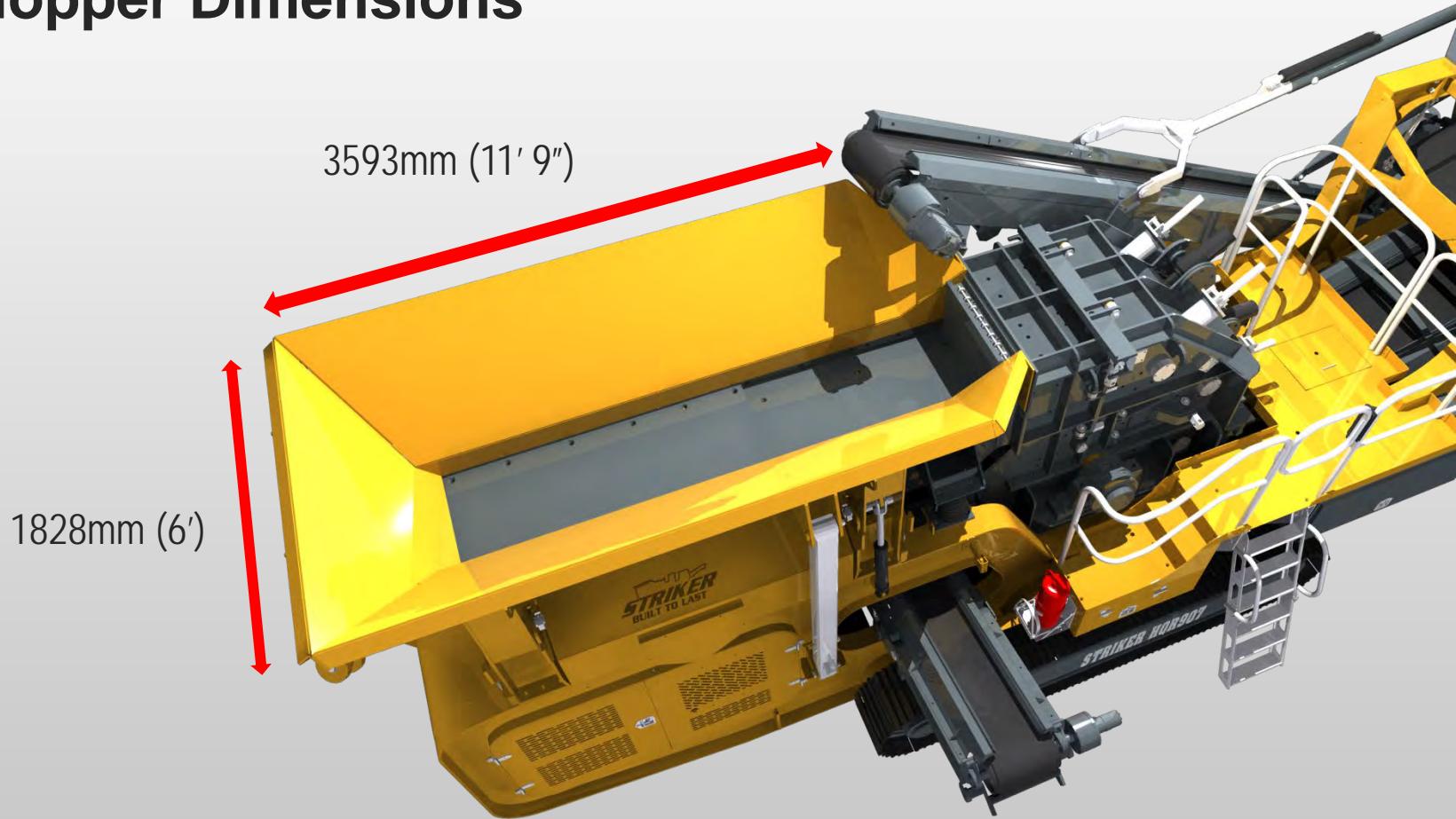
Fabricated from either high quality wear resistant steel plate or mild steel utilizing wear resistant liners

Feeder Liners to protect the hopper from excessive wear

Easy to replace



Feed Hopper Dimensions

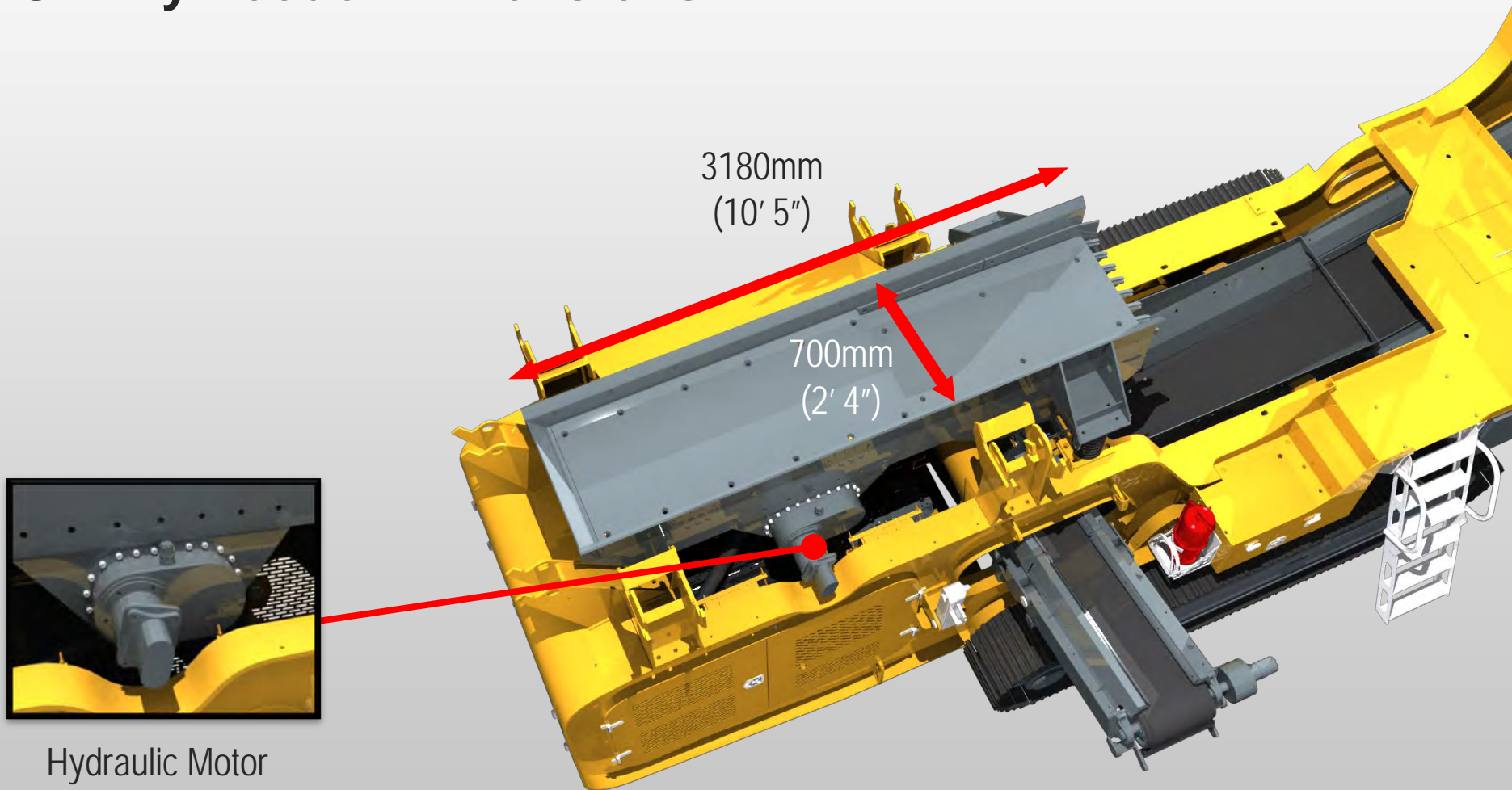


Grizzly Feeder

- | Fabricated from wear resistant steel
- | Grizzly cartridges with 45mm (1.8") nominal spacing
- | Wear resistant steel floor plate liners
- | Twin shaft exciter coupled with hydraulic motor
- | Variable speed control
- | Vibrating feeder with stepped bolt in grizzly cartridges
- | Grizzly blanking plates



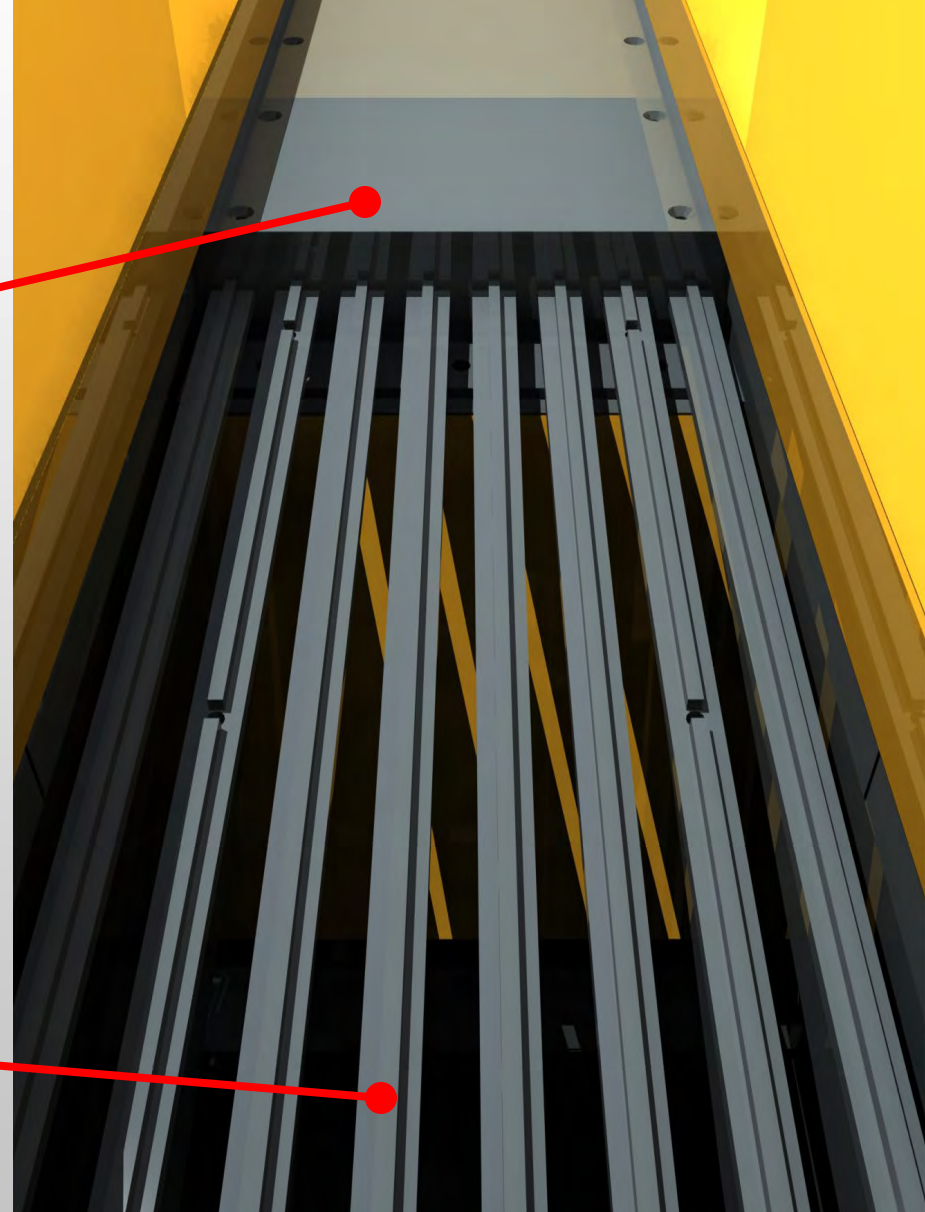
Grizzly Feeder Dimensions



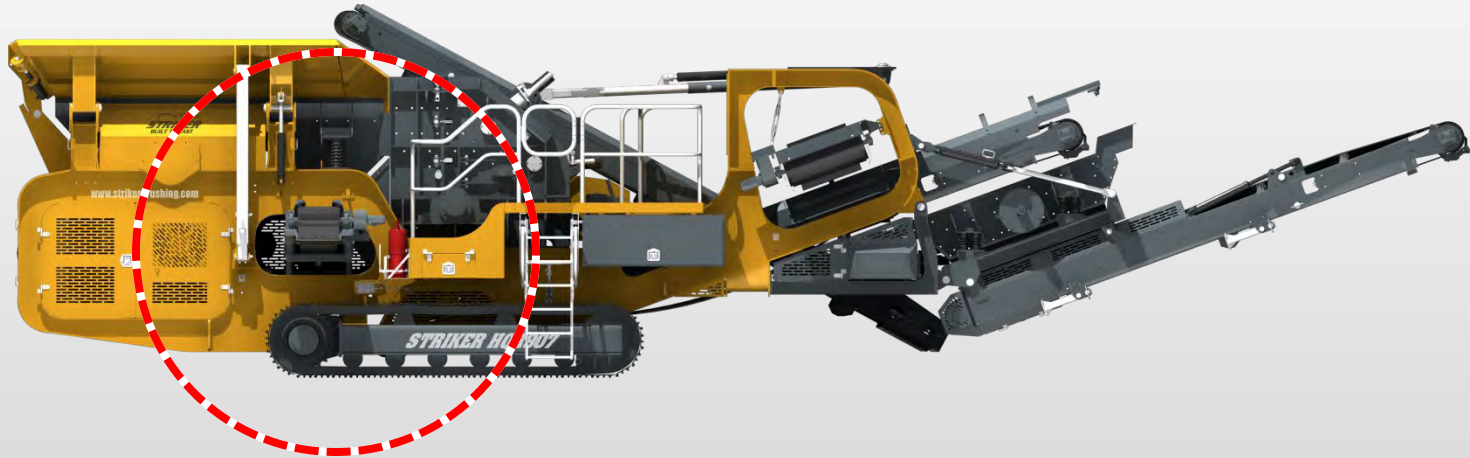
Grizzly Feeder

Wear Resistant Liners

Self Cleaning Stepped Cartridge

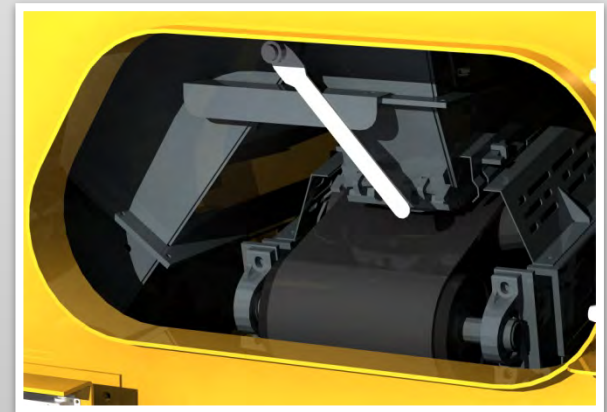


By-Pass Chute

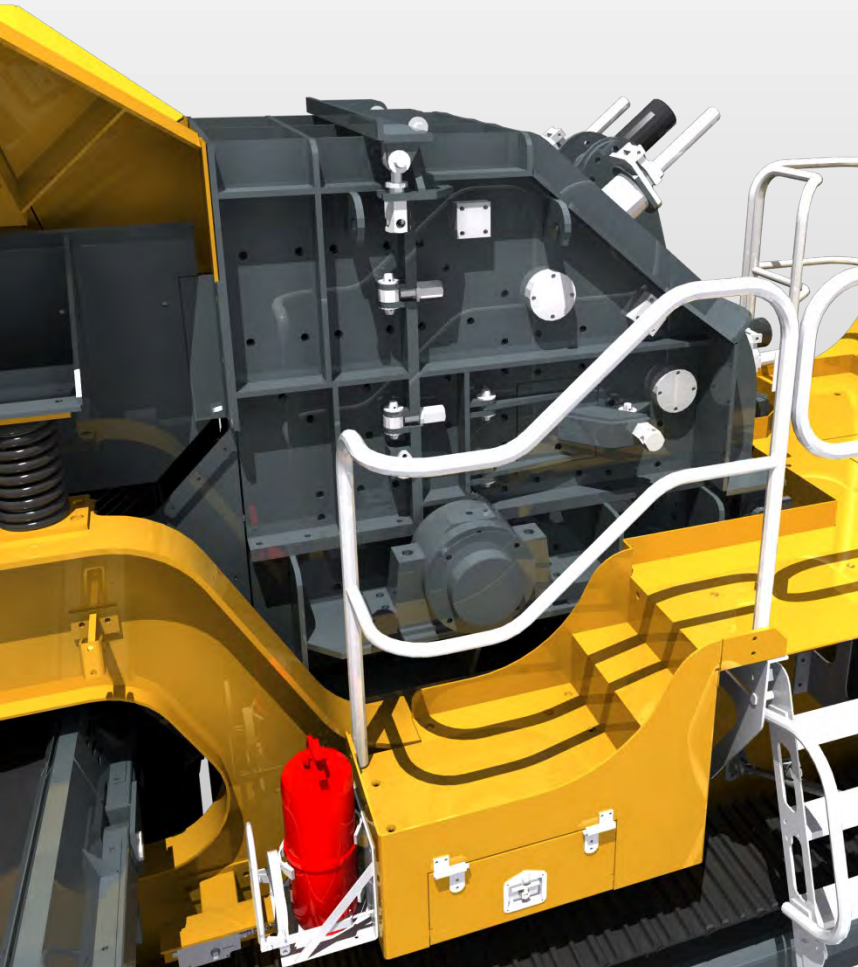


By-Pass chute removes natural fines from the feed material and discharge onto the "Side Discharge Conveyor"

The lever operates a two way door for diverting material either onto the "Forward Product Conveyor" or the "Side Discharge Conveyor"



Impactor

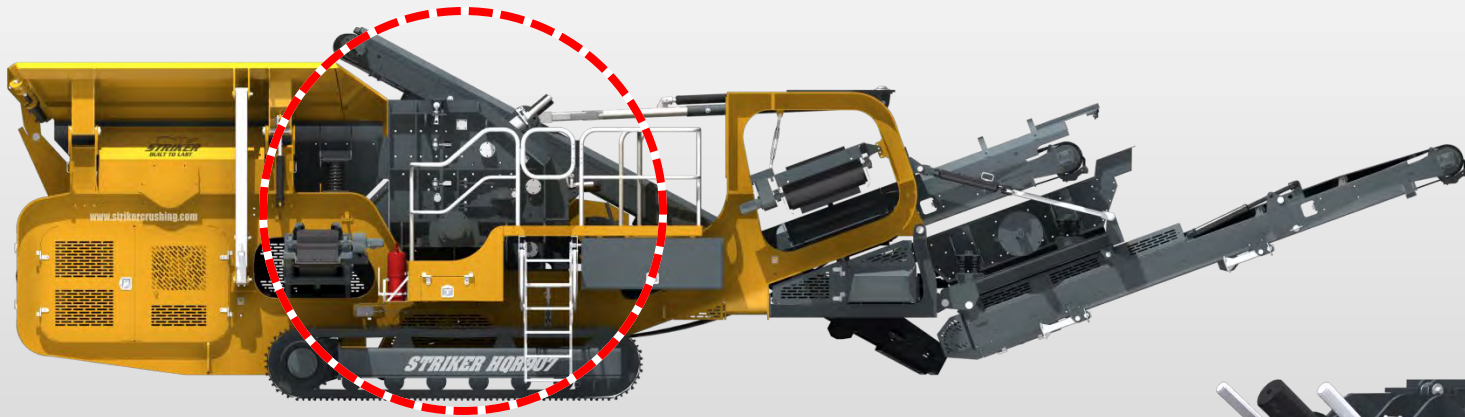


Well proven high performance impactor featuring heavy-duty open disc style rotors with four blows bars as standard

Blow bar support beams sized to ensure the rotor has the highest moment of inertia available

Hydraulic overload protection system

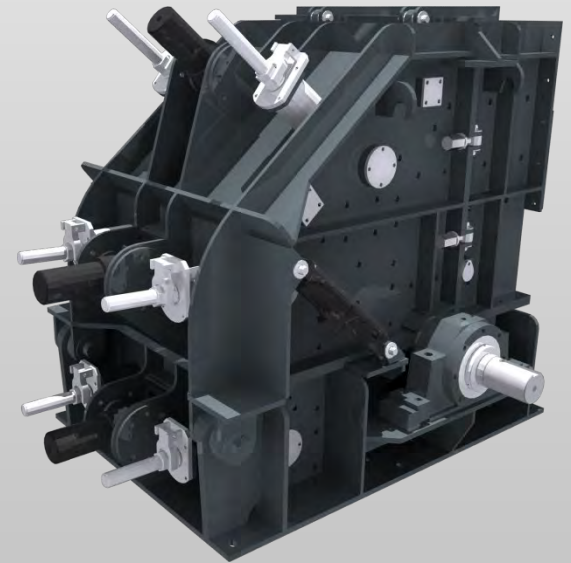
Impact Crusher



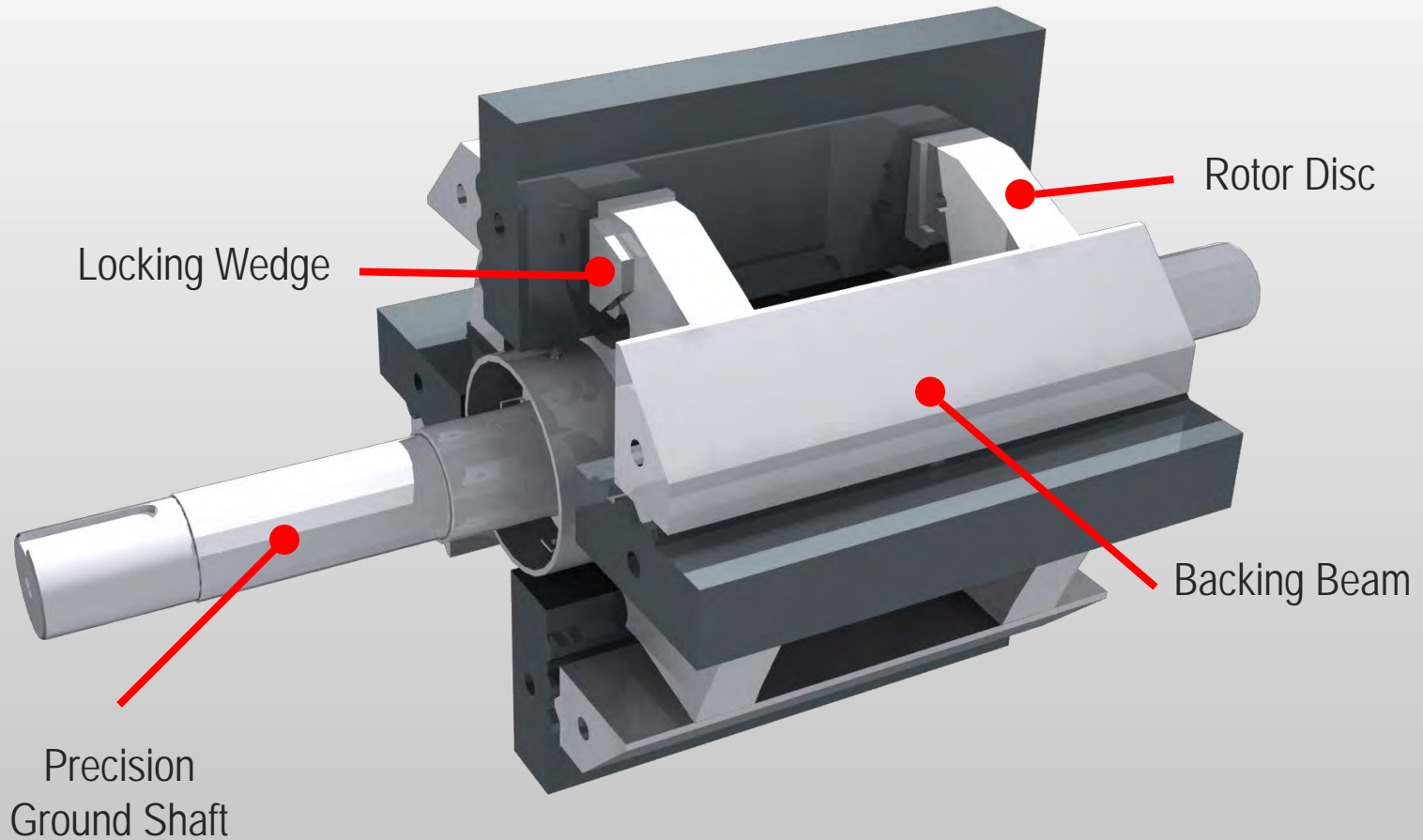
890mm diameter x 740mm (35" x 29")
wide impact crusher

40-90tph capacity

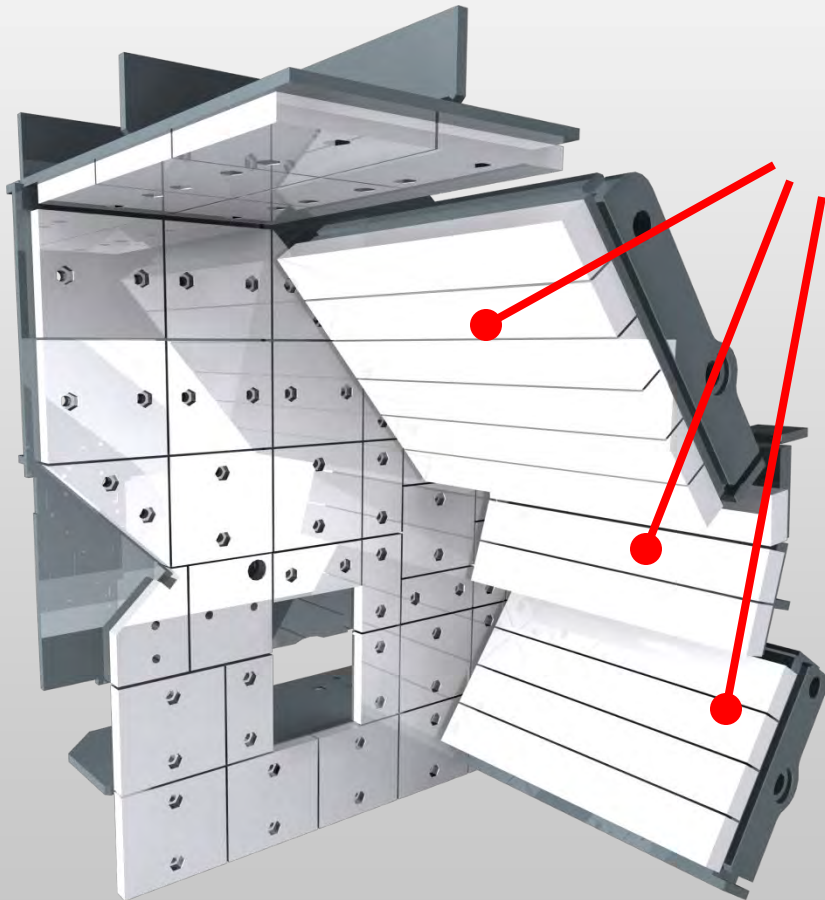
Maximum feed size 300mm (12")



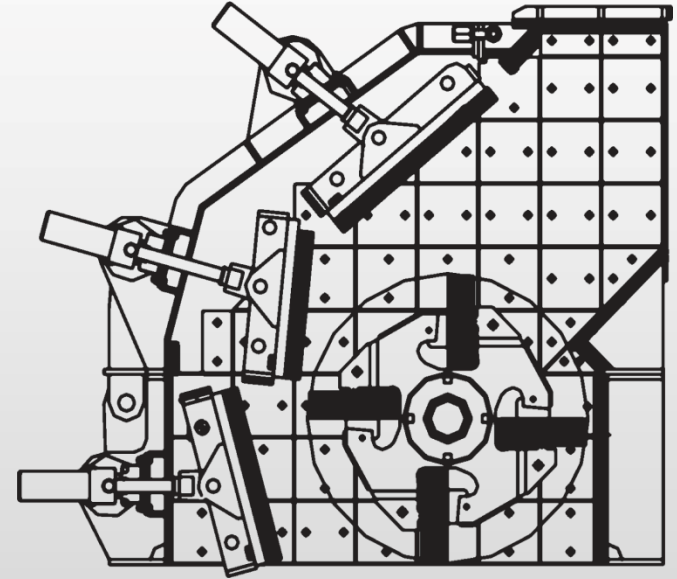
Heavy Duty Rotor



Fully-hydraulic Impact Arms



Adjustable
Impact Arms



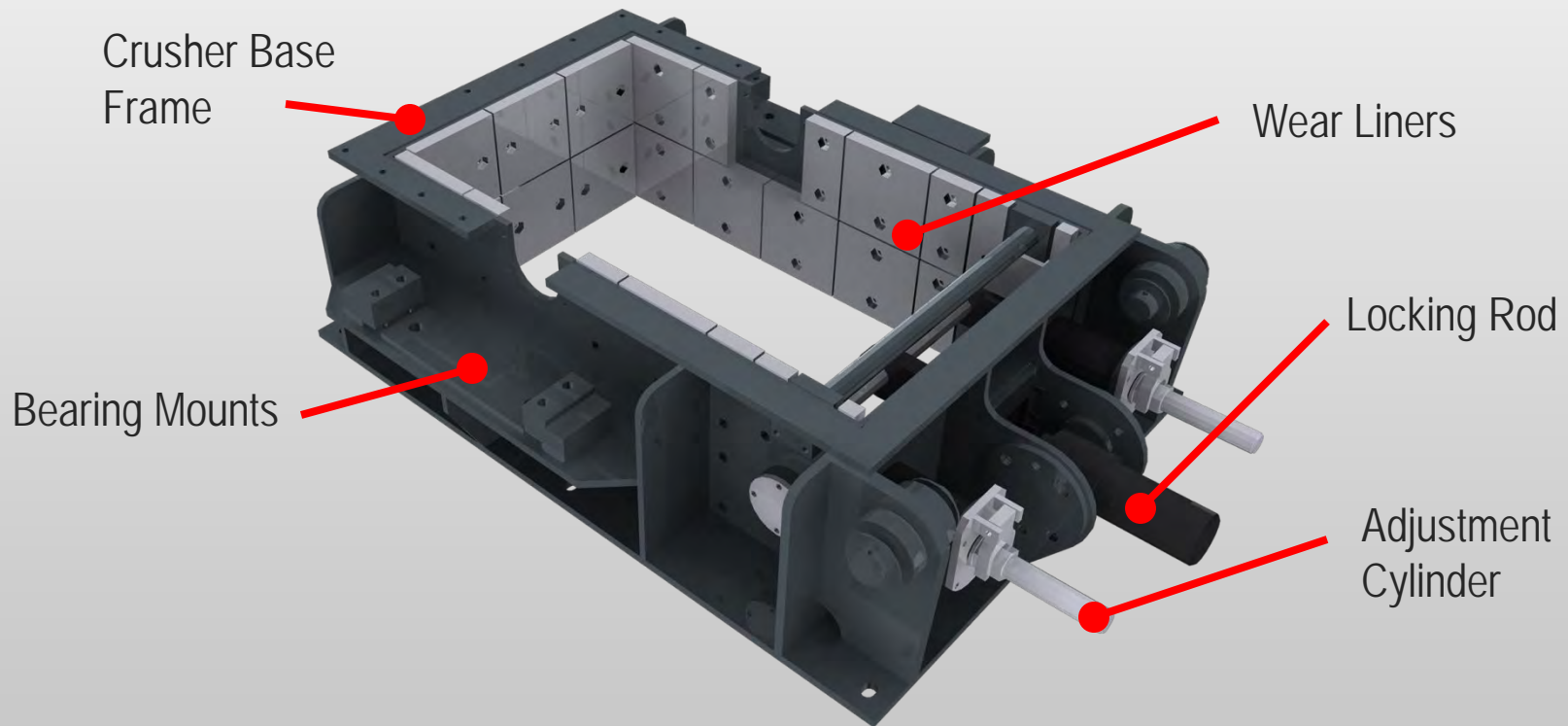
Interchangeable impact plates

Hydraulically adjustable gap settings
between impact arm and rotor

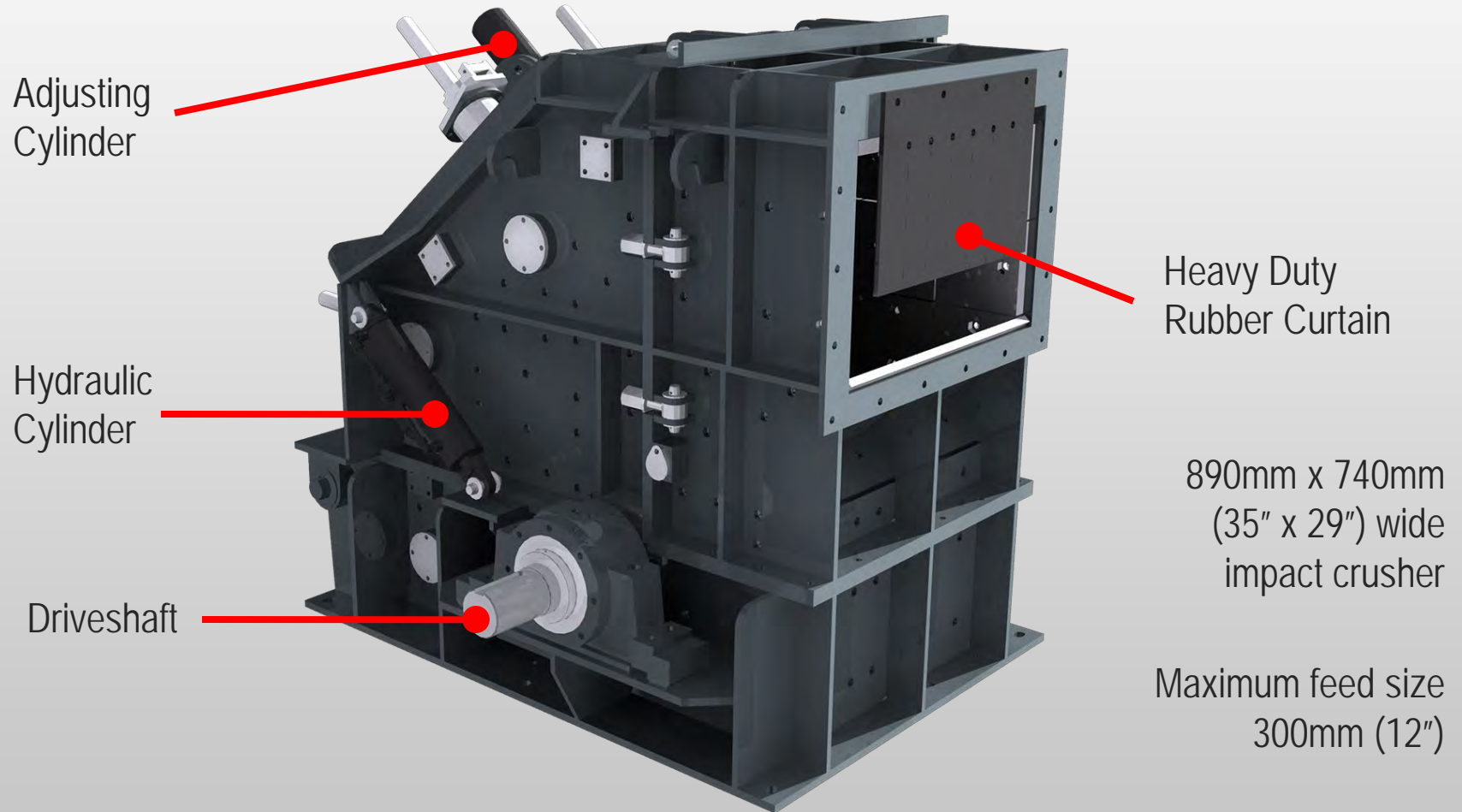
Overload protection system

Wear Liners

Wear liner plates are cast from wear resistant manganese and have been designed so more are interchangeable and turnable



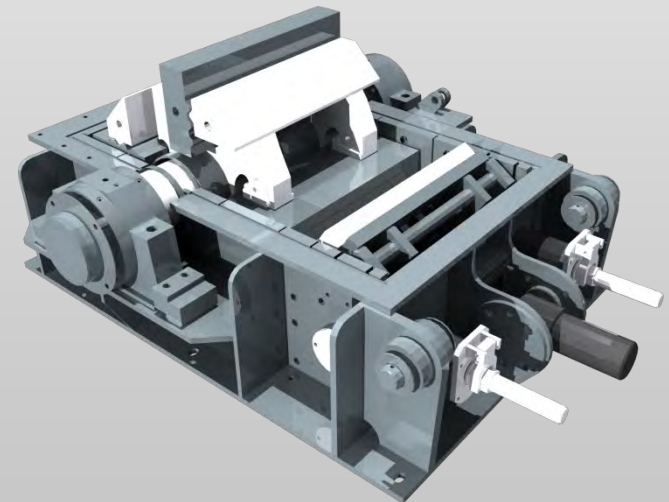
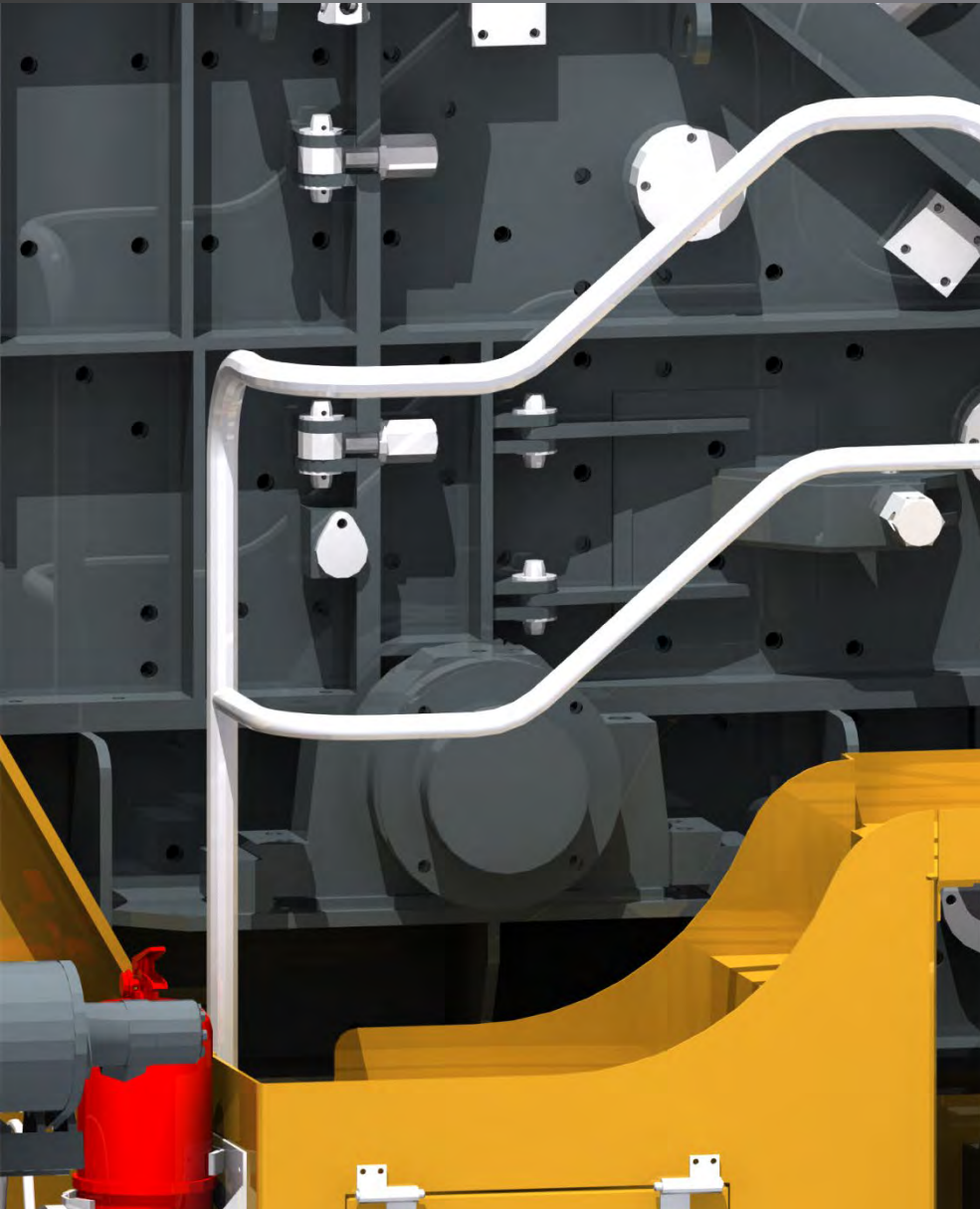
Impact Crusher



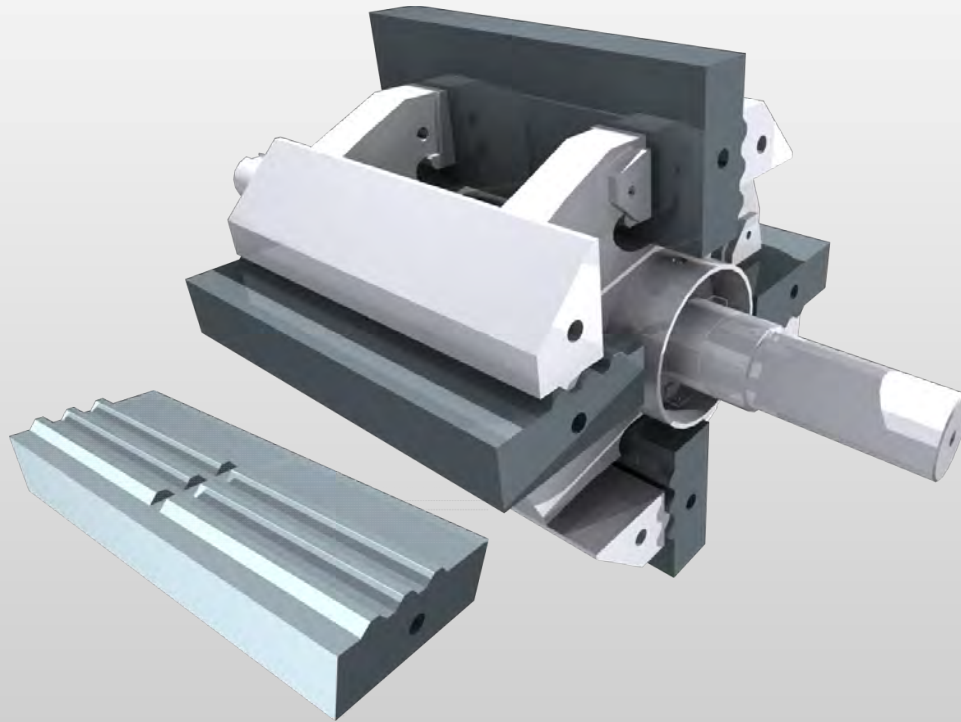
Impactor Bearings

The rotor is supported by bearings mounted in massive solid housings manufactured from steel blocks with self-purging labyrinth seals

Easy maintenance access



Heavy Duty Blow Bars



Four full size manganese blow bars

The rotor arms are equipped with 100mm (4") thick blow bars in Chrome Iron offering the highest wear resistance available

The blow bar thickness can be increased to suit larger feed sizes vital in recycling

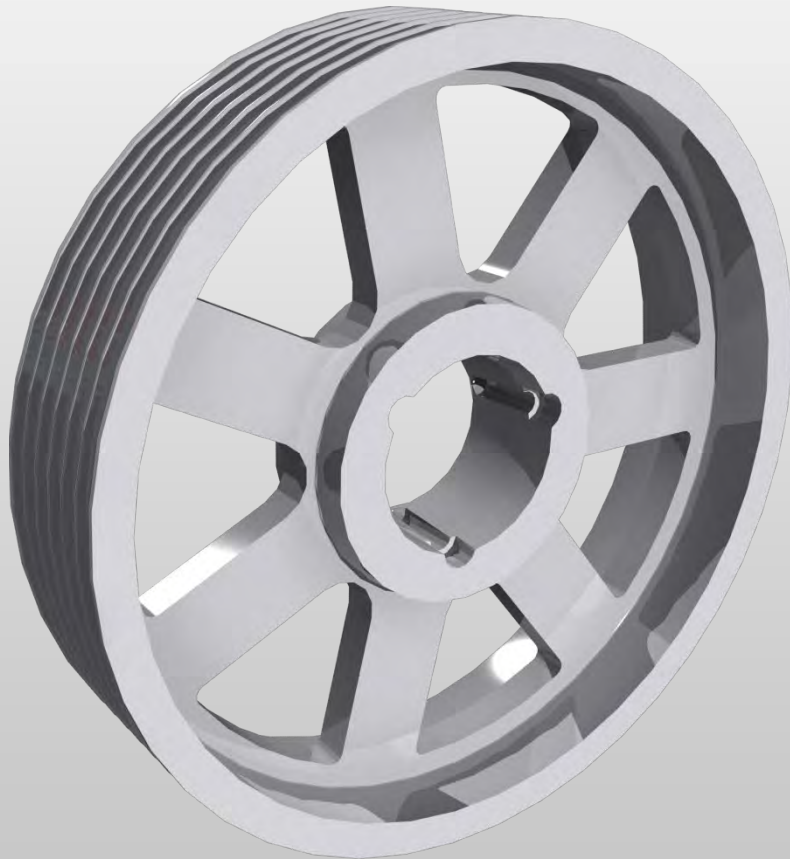
Extended service life through a design that permits the bars to be lifted via the top as wear occurs

Maintenance is safer and more expedient than in other designs



Lifting cradle for blow bar

Impact Crusher Drive



The impact crusher is driven via a hydrostatic drive to give infinite control of crusher speeds

Quick easy belt tensioning

Externally mounted and easily maintained

Smooth start up, no belt slip

Shock & overload protection

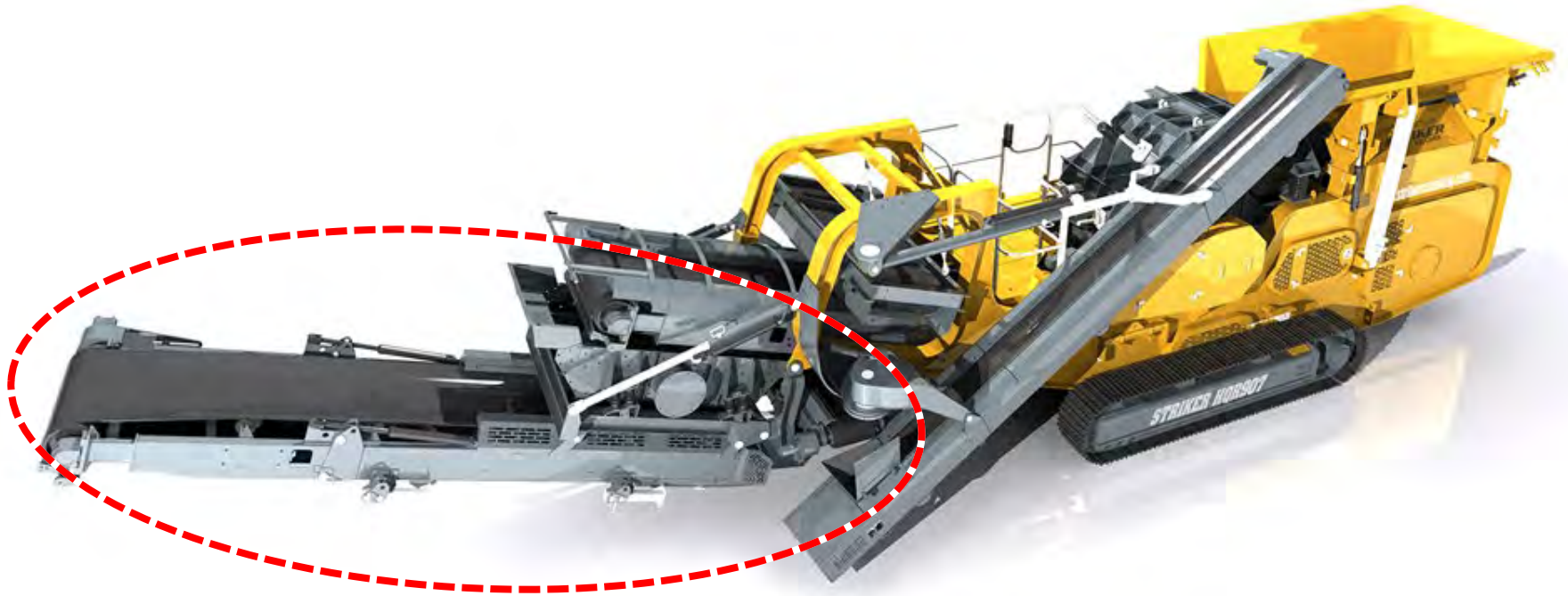
No friction linings creating longer life utilization

Under Crusher Hopper

Full length product conveyor fitted



Forward Product Conveyor



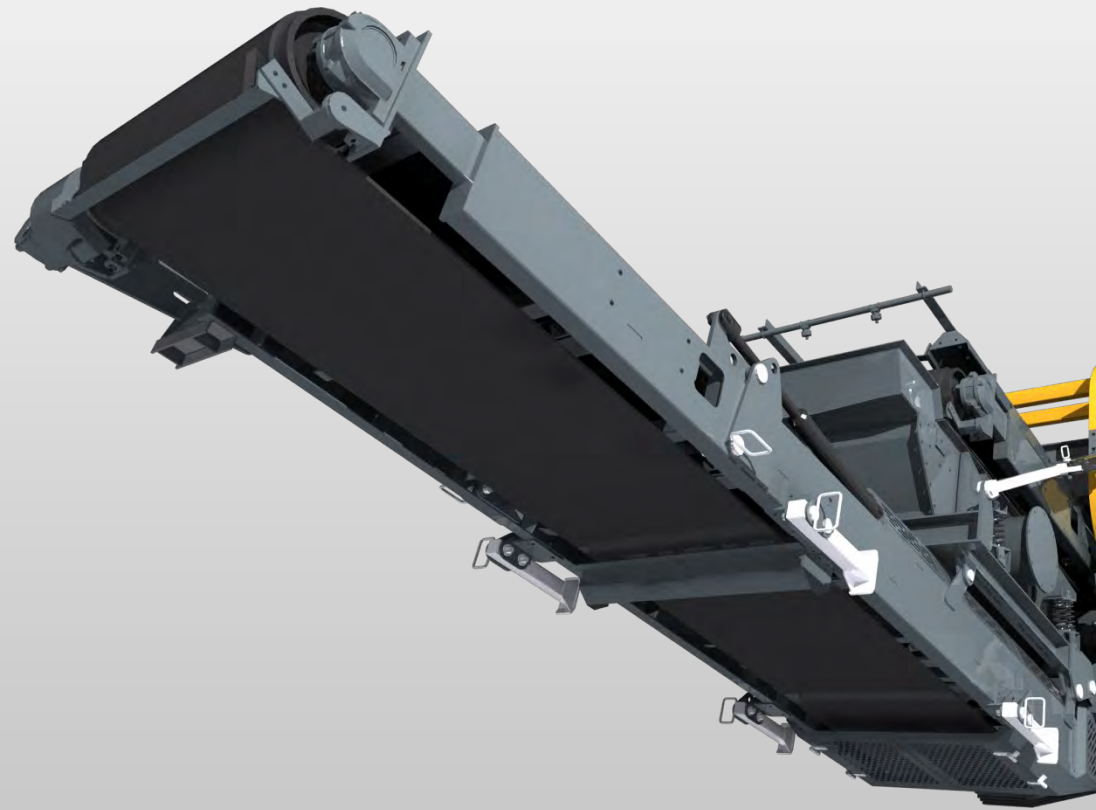
Forward Product Conveyor

Heavy duty extra wide belt 900mm (36") wide 4 ply troughed conveyor

Fully skirted conveyor belt to reduce spillage with wear resistant steel liners for durability

Conveyor Guards

- | Quick release system for maintenance
- | CE Compliant
- | Safety against moving & rotating parts



Forward Product Conveyor

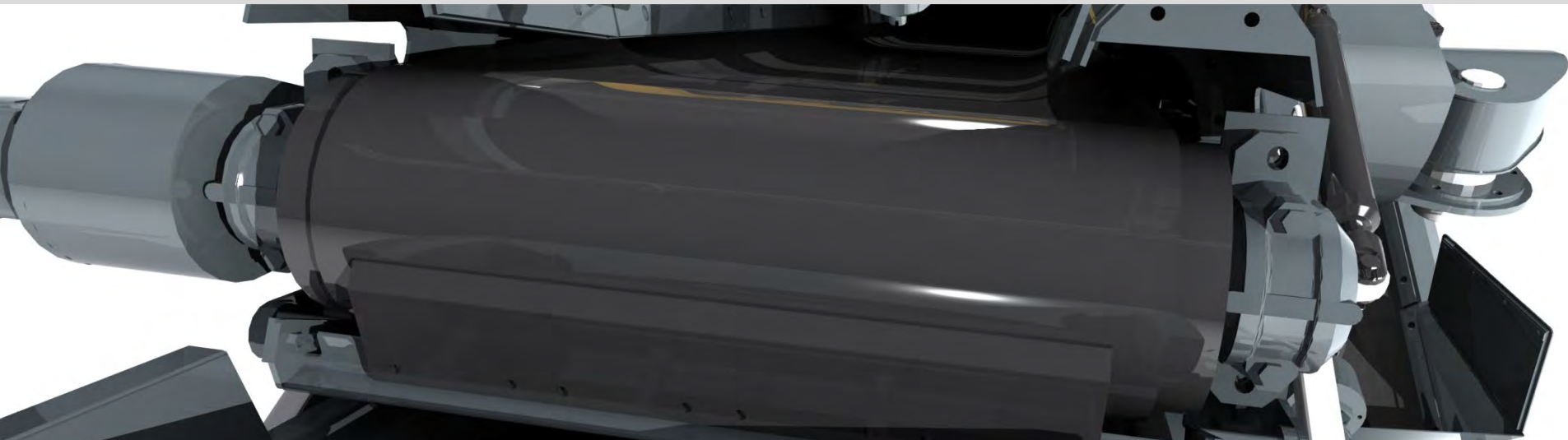
Hydraulic drive at the head drum

Greasing lines to the head drum

Belt cleaner located after the discharge point to ensure that sticky material is removed preventing tracking issues

Self-aligning spherical roller bearings

Lagged head drum to prevent belt slippage



Central Greasing Point

- | Central greasing point
- | Robust, durable greasing lines, not plastic
- | Located at ground level
- | Saves on maintenance time



Dust Suppression

- Environmentally friendly on-board solution to dust control from the impact crusher
- Dust Suppression sprays and manifold
- Dust Suppression in two isolated locations
 - 1) Impact crusher discharge chute
 - 2) At the top of the product conveyor

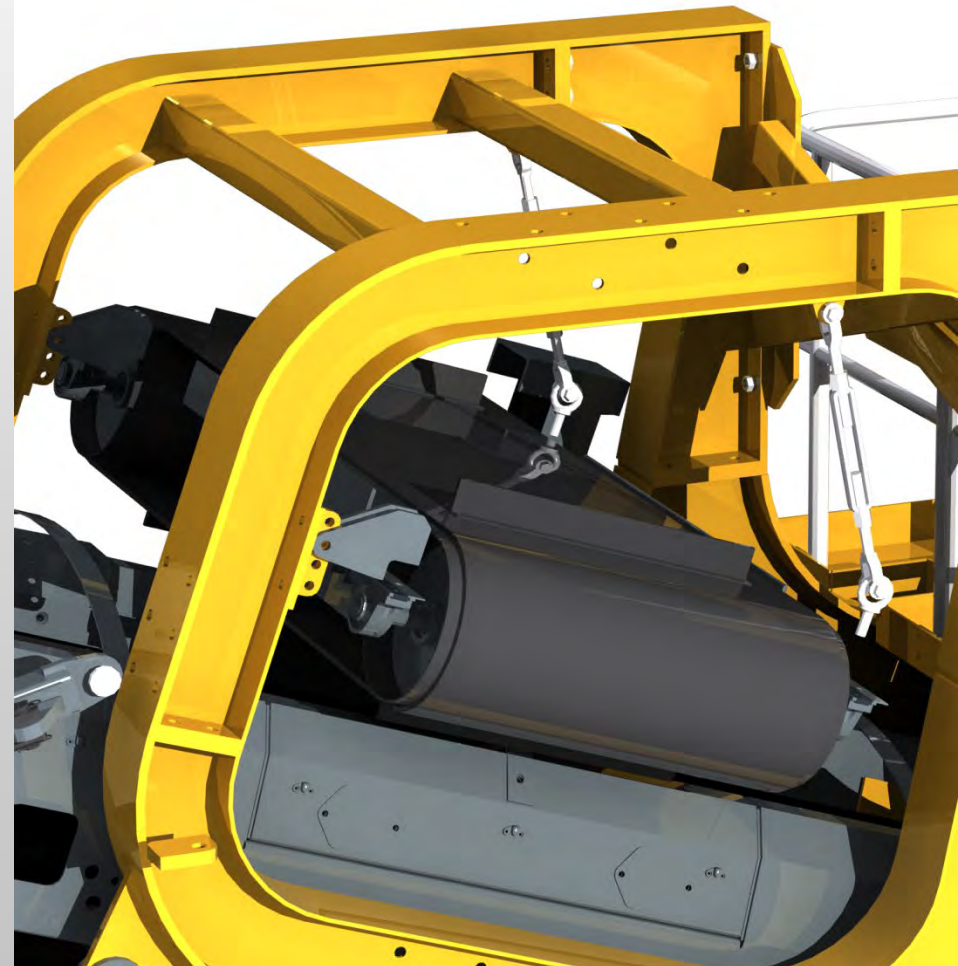


Overband Magnet

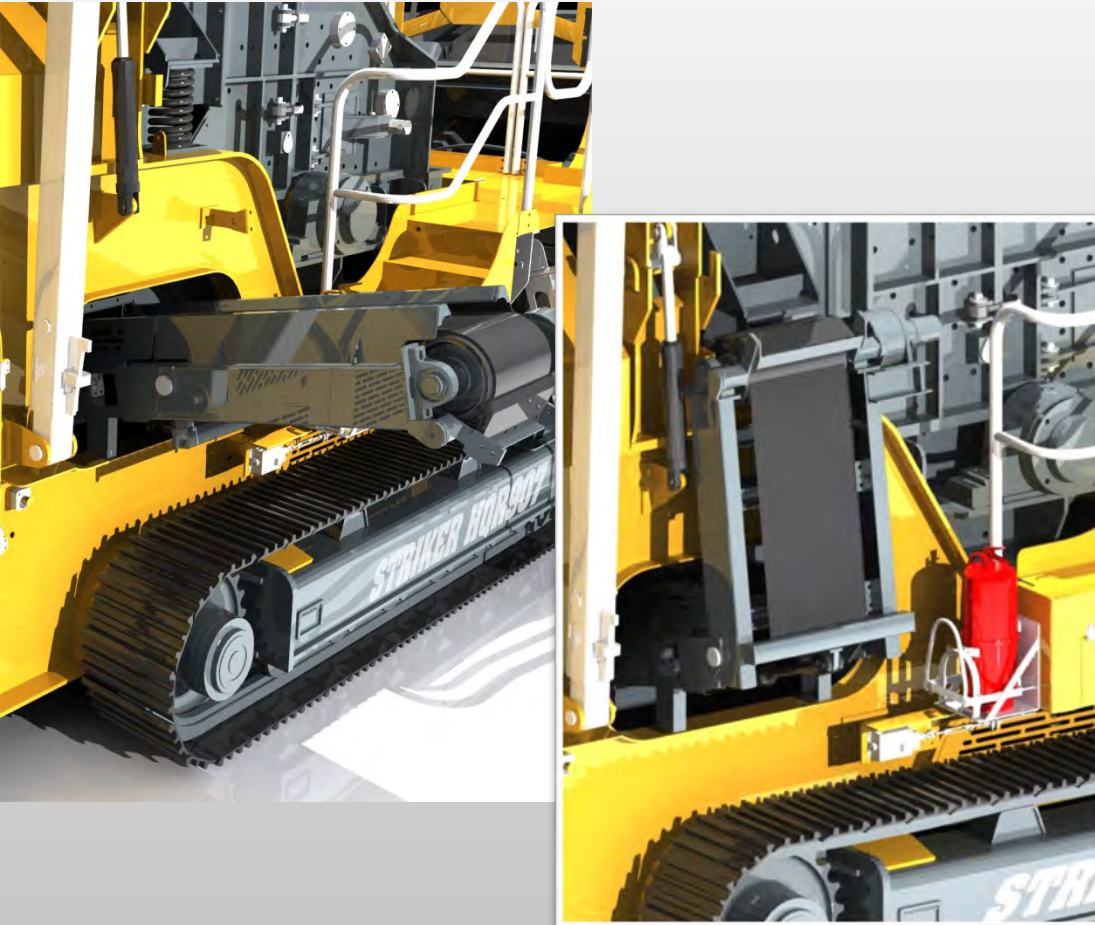
Designed to separate any steel material from the crushed rock or demolition waste

Variable belt speed

The magnet is height adjustable and can be lowered or raised to suit any application



Side Discharge Conveyor



Hydraulically folding side discharge conveyor

The by pass chute transfers removal of fines on to the side discharge conveyor

350mm (14") wide belt

Folds in uniquely under the hydraulically folding side hopper when in transportation

Powerpack

Powered by a CATERPILLAR® C7.1 LRC 250hp Tier 3 engine rated (186kW)

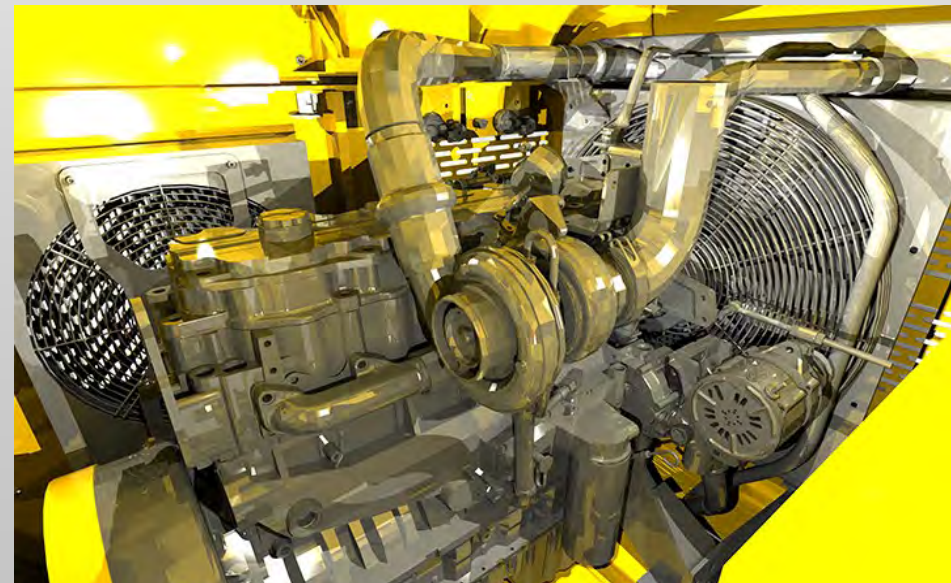
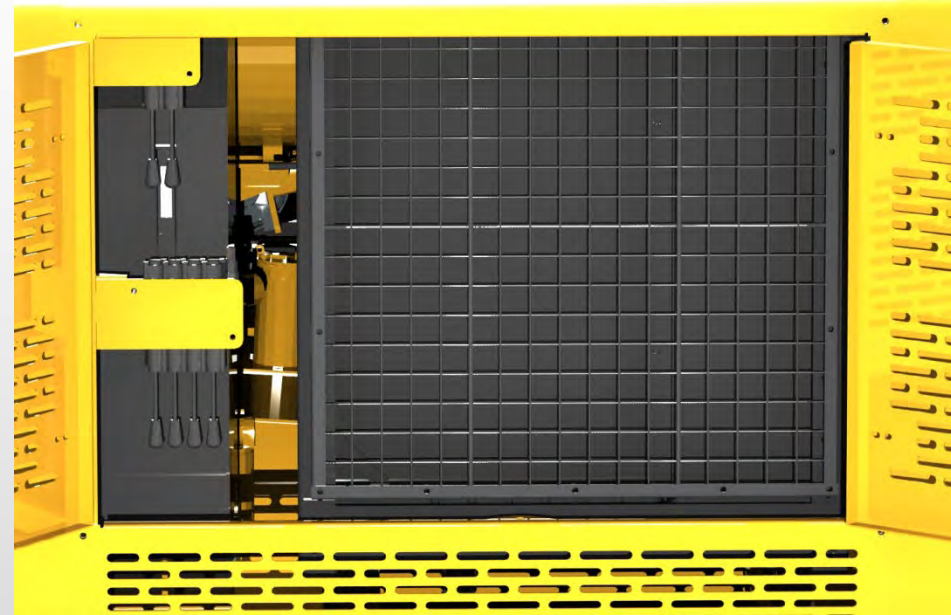
Load sensing hydraulics for improved fuel efficiency

Engine complies with all current emission laws

Hot climate oils (Recommended for ambient temperatures between +15°C to +50°C)

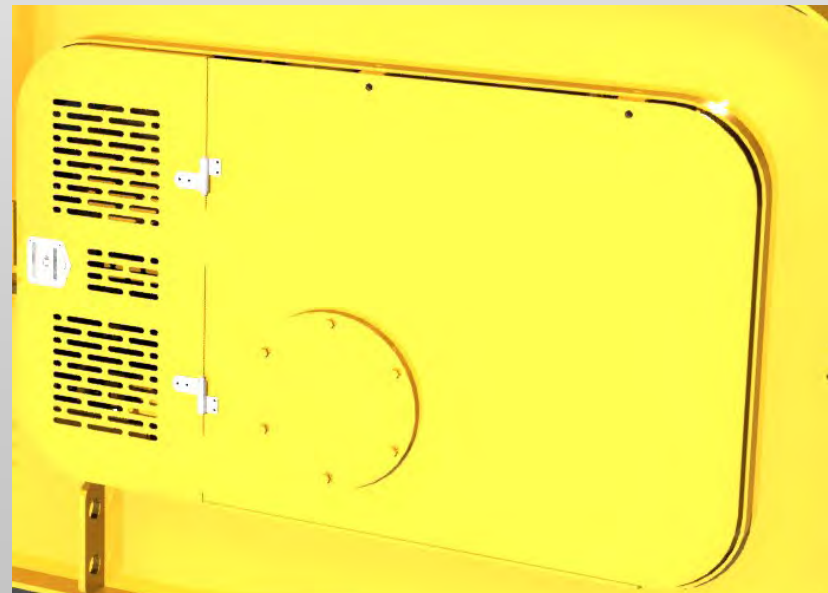
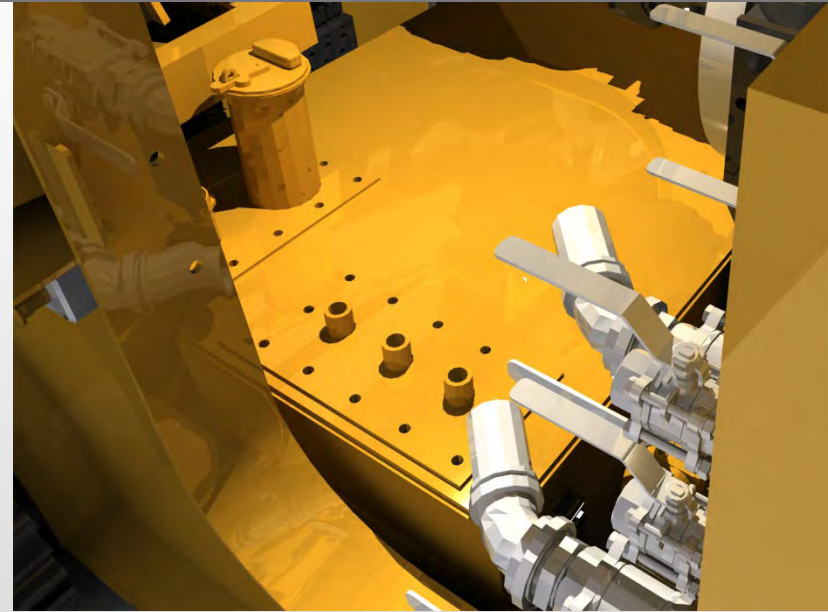
Easy access for maintenance via 3 panel doors

Easy to maintain, reliable and efficient



Fuel & Hydraulic Tank

- 400litre (88 gal) standard capacity fuel tank or option to increase to 600litre (132 gal)
- Hydraulic oil filtration system and air filter



Hydraulic Components

Easy access to hydraulic components for maintenance

Simple ON/OFF hydraulic blocks

The hydraulic system powers:

Crusher

Tracks

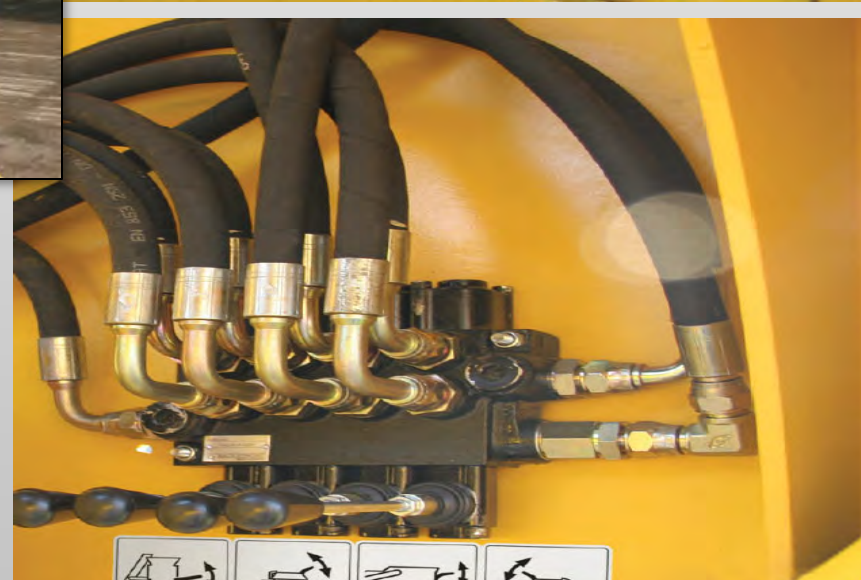
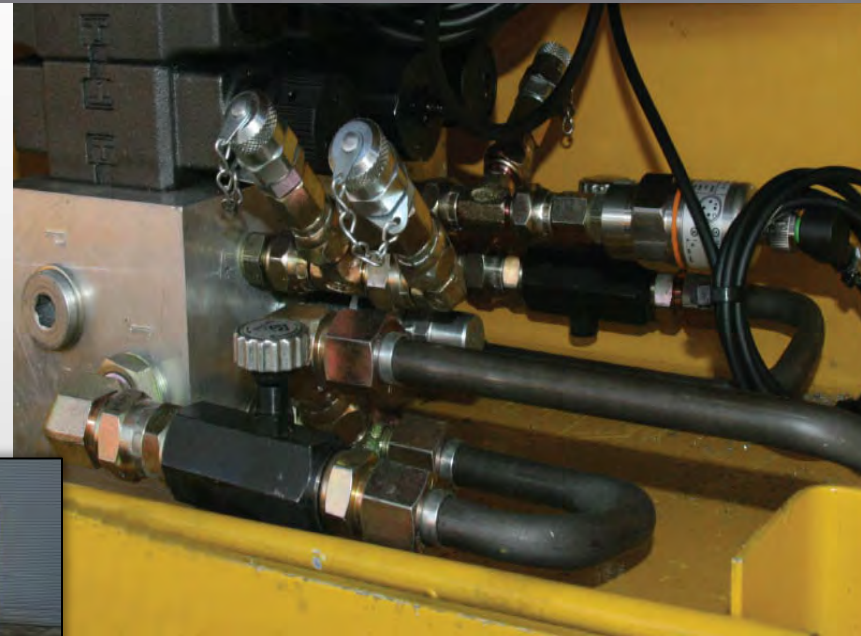
The hopper wings and securing pins

Forward & side conveyors

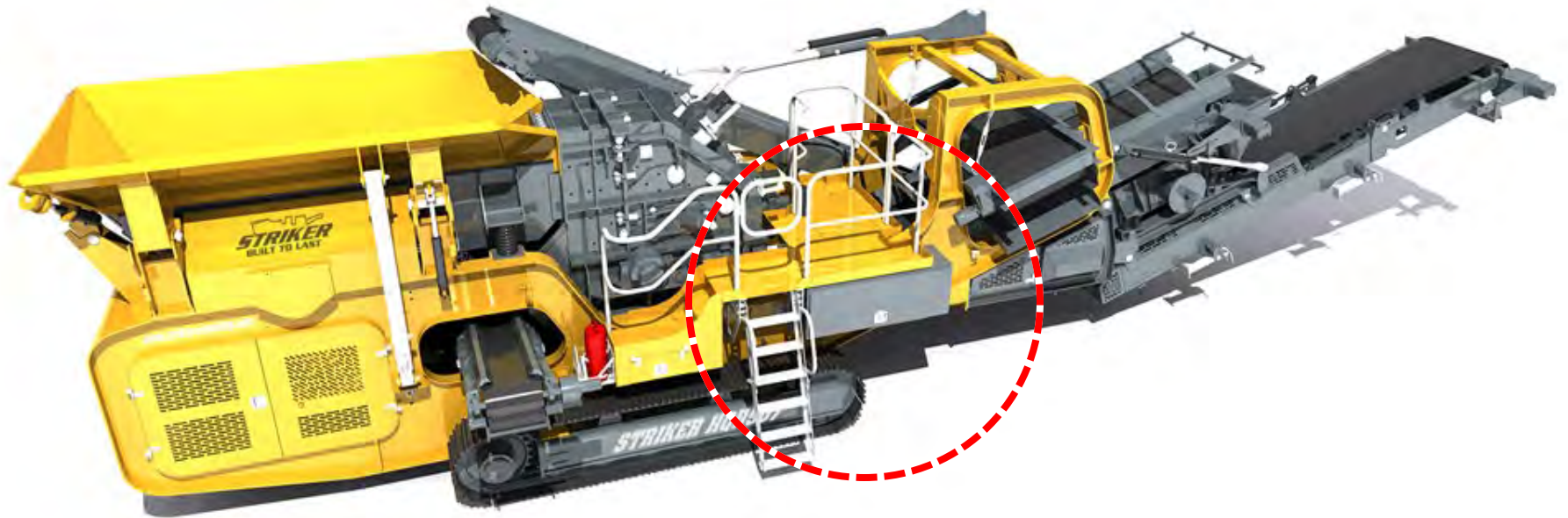
Vibrating Grizzly Feeder

Optional screen & recirculation conveyor

Forward support legs



Controls



Controls

- Simple user friendly screen
- Plain language alarm monitoring
- Clearly marked diagrammatic display
- Ability to switch between metric and standard imperial units of measurement



Rugged CAN based modular I/O

Low voltage 24v system

Sealed IP54 cabinets to prevent the ingress of dust & water

Remote Control Unit

- | Battery level indicator (on the display)
- | Signal strength indicator (on the display)
- | Proportional control of the tracks
- | Steer mode
- | Tramming mode
- | Feeder ON/OFF and speed control
- | Charging via a cigarette lighter plug 12/24vdc
- | Radio remote control unit
- | Striker optimax engine and feeder controller



Battery Maintenance Access

Service access to the batteries

Location for isolation during maintenance and welding on plant:

Two Isolator available:

- 1) Engine isolator
- 2) Isolator on the controls for testing with the engine isolated



Manual Hydraulic Controls

Clearly marked manual hydraulic levers power the following and are easy to operate and allow for quick set-up of the plant:

Hopper sides

Hopper securing pins

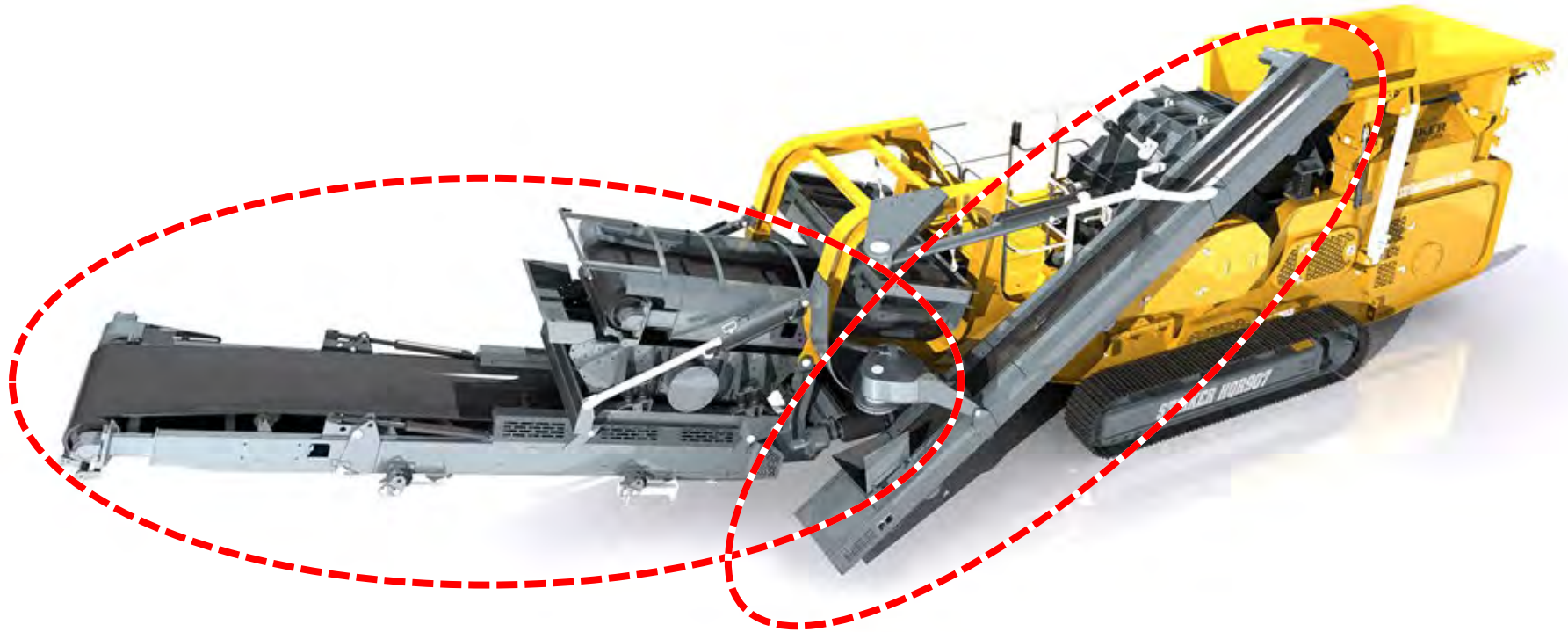
Side discharge Conveyor

Screen

Recirculation conveyor



Screen & Recirculation Conveyor



Screen & Recirculation Conveyor

The recirculation conveyor can be slewed in or out to allow for return to the crusher, return to different machine or stockpiling

Hydraulically adjustable speed control



Screen & Recirculation Conveyor

Hydraulic operated single deck vibrating screen 2240mm x 1240mm (8ft x 4ft)

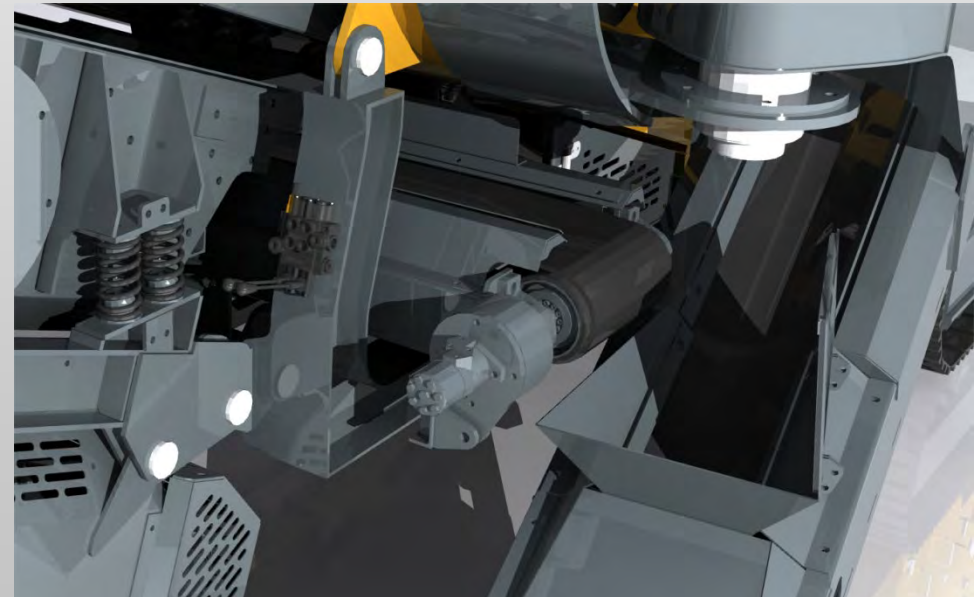
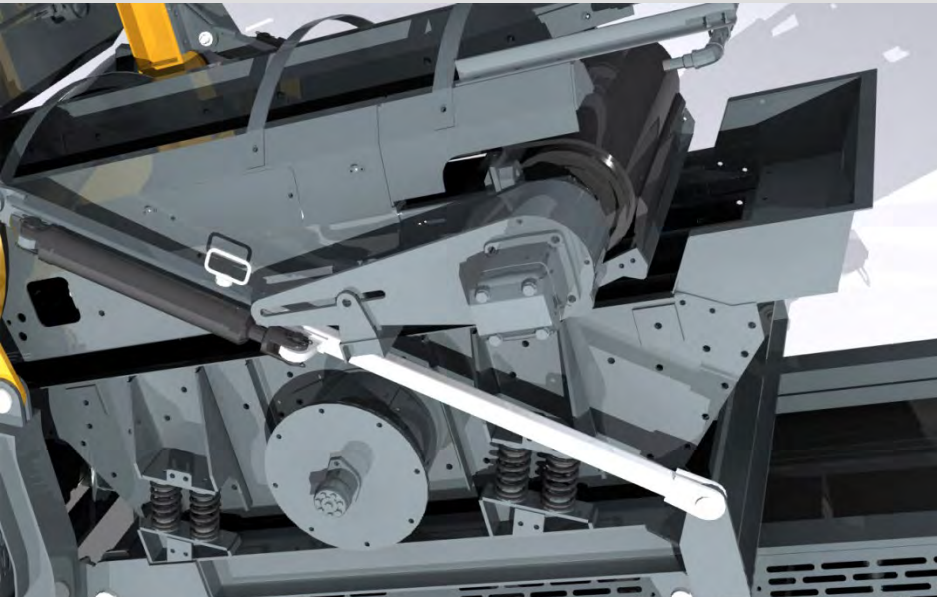
Hydraulic tilting oversize recirculation conveyor that stows for transport

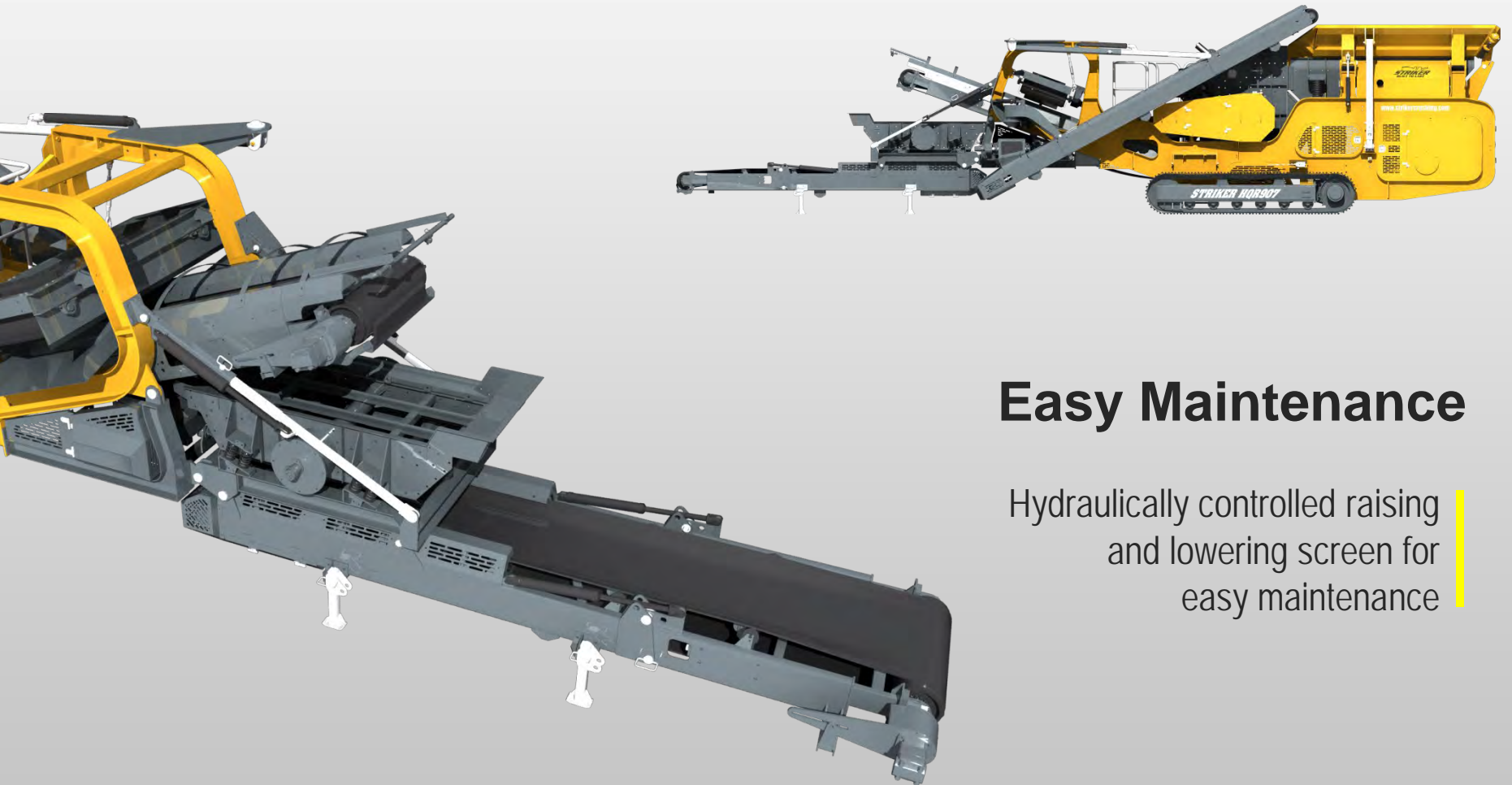
Screen Mesh: 35mm as standard (please specify size (mm))

Added ability to produce a graded product

Negates the need for a separate screen

Recirculation conveyor can pivot away from machine to stockpile oversize material





Easy Maintenance

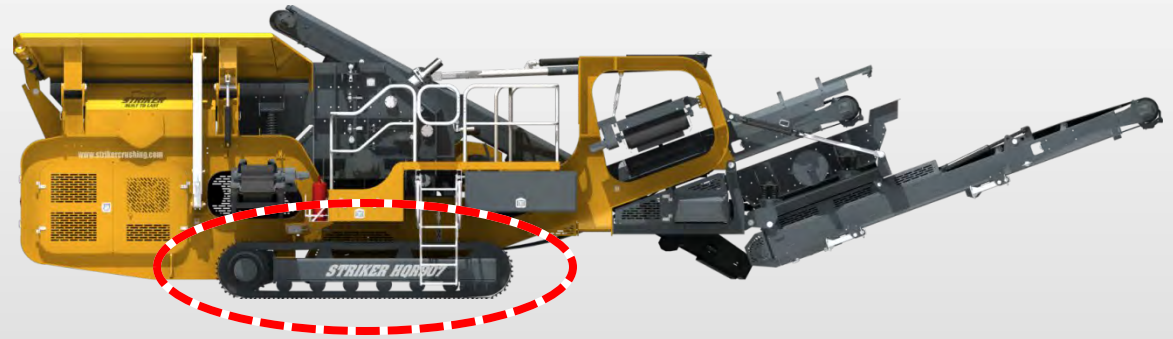
Hydraulically controlled raising and lowering screen for easy maintenance

Tracks

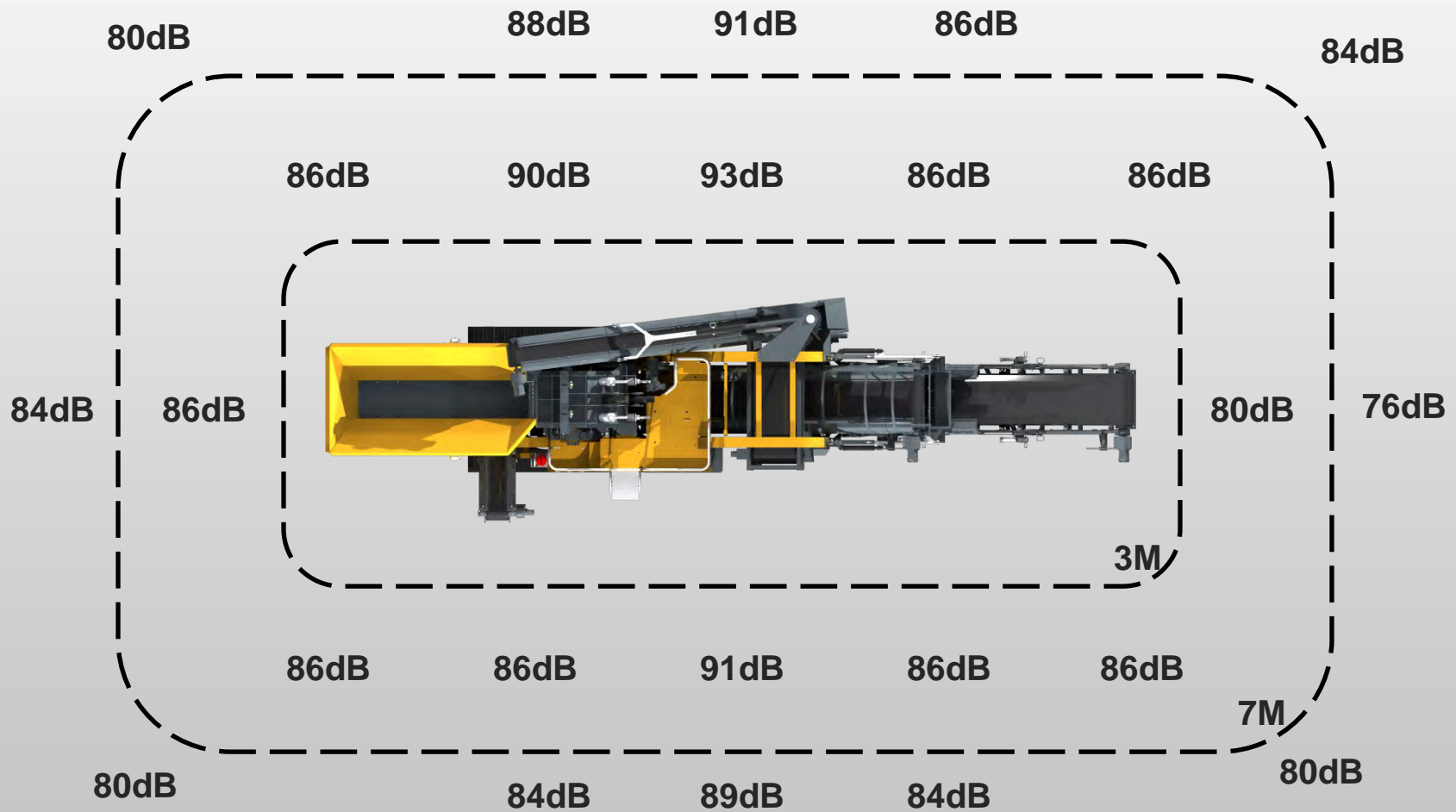
Hydraulically driven
crawler tracks

Track centres 2920mm (9'7")

Track shoe width 400mm (1'4")



Sound Levels



Machine Safety Aspects

- | Nip Point guarding
- | Central located greasing
- | Engine start delay and siren
- | Warning siren to alert the machine tracking and start up
- | Engine emergency stops

Options

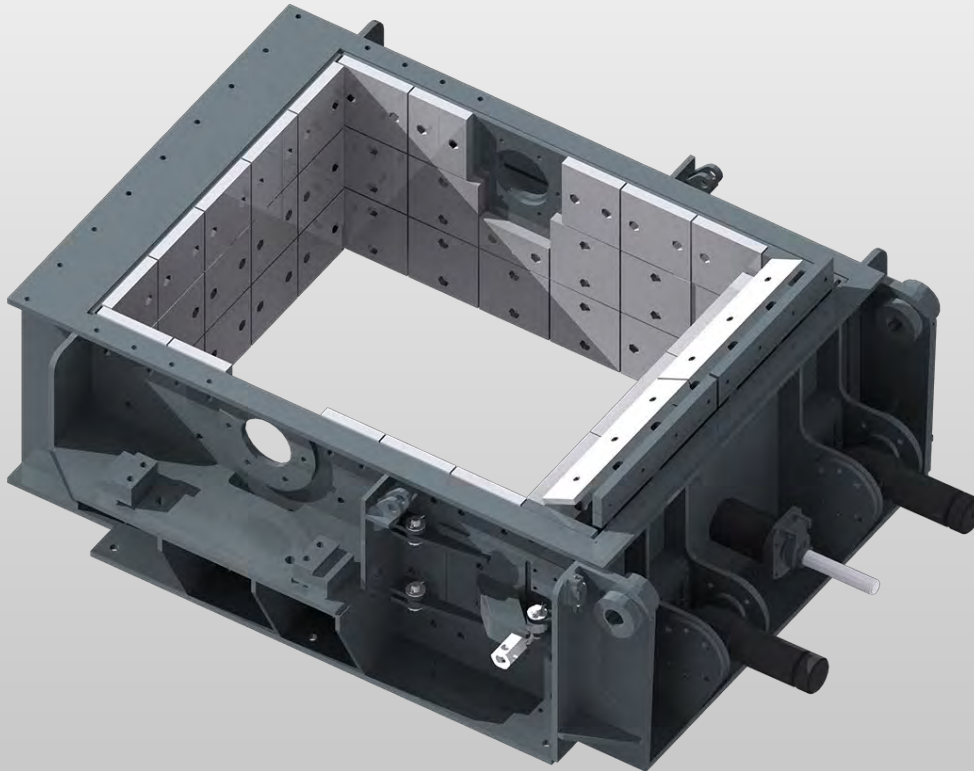
- | Product conveyor weigh scale
- | Wear resistant steel hopper liners
- | Feed hopper extension wings
- | Centralised lubrication system
- | Product conveyor dust covers
- | Higher & wider track kit (Mining Spec)
- | Impactor high speed conversion
- | Hydraulic water pump
- | Engine bay fire suppression
- | Hydraulically operated vibrating screen & recirculation conveyor
- | Overband magnet
- | Side discharge conveyor
- | Under crusher deflector plate
- | Increased fuel tank capacity
- | Remote diesel fill pump
- | Arctic package for operating conditions – 20 °C
- | Desert package for operating conditions + 50 °C
- | Control cabinet air pressuriser

Feed Hopper Extension Wings (Option)

- | Heavy duty wear resistant steel feed hopper construction
- | Hydraulically operated folding side and rear wings
- | Reinforced box section webs
- | Rapid set up time



Wear Liners (Option)

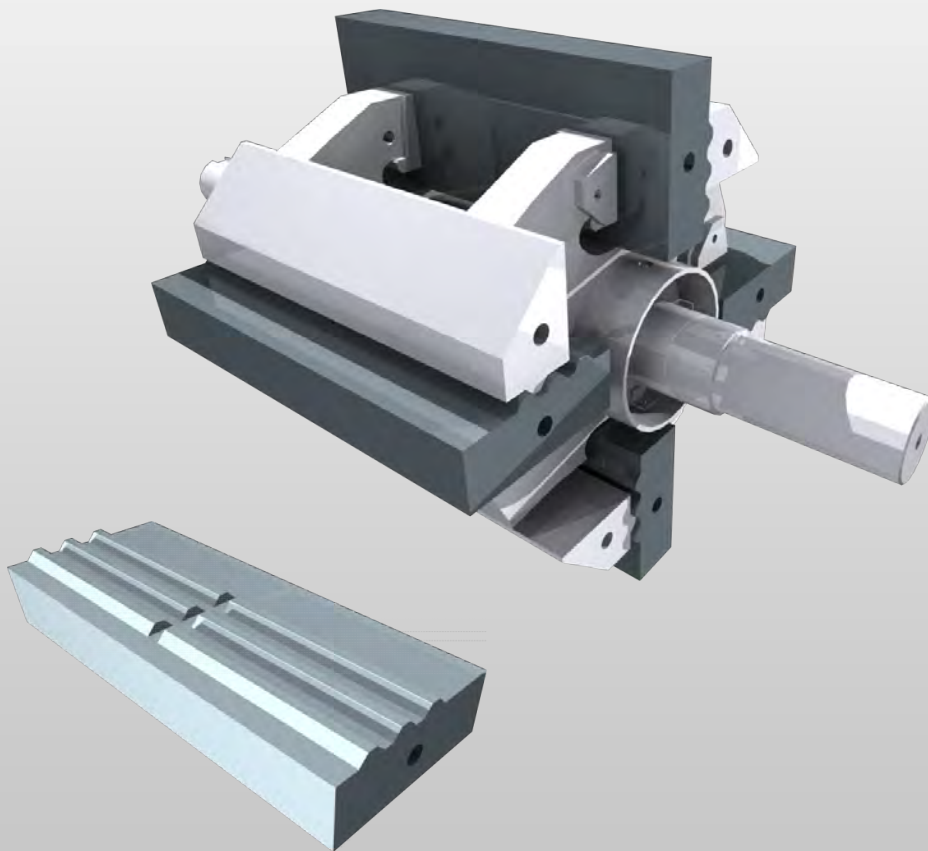


Chrome body liners

Hardox body liners

Chrome impact plates

Heavy Duty Blow Bars (Option)



Two full size chrome and two half size bars

Four full size chrome blow bar

Crane for blow bar change

Roof raiser on impactor

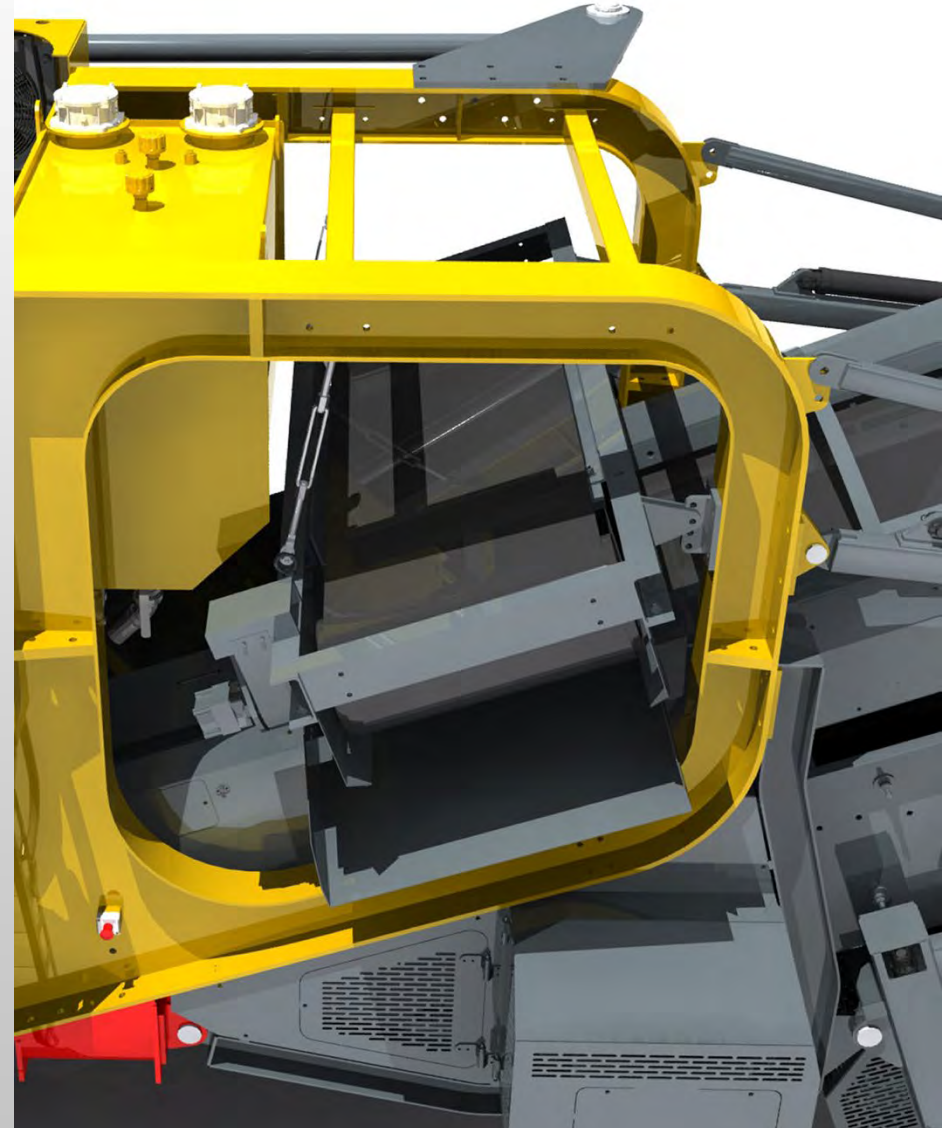
Forward Product Conveyor (Option)

Product conveyor hydraulic folding head section and extended conveyor

Overband Magnet (Option)

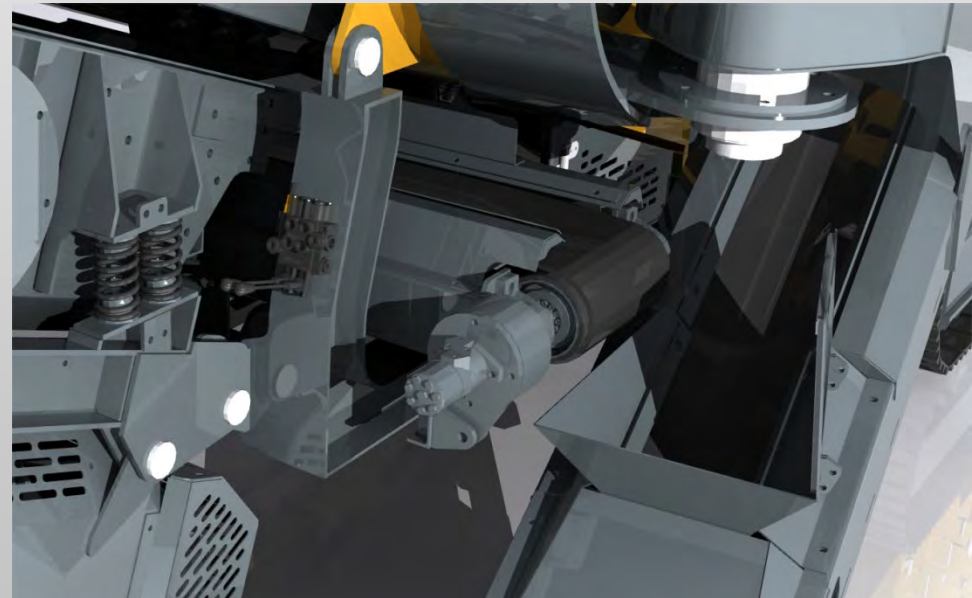
Magnet preparation c/w hosing, shedder plate and mounting bracket

Single Pole Magnet c/w hosing, shedder plate and mounting bracket



Screen & Recirculation Conveyor (Option)

Double deck screen



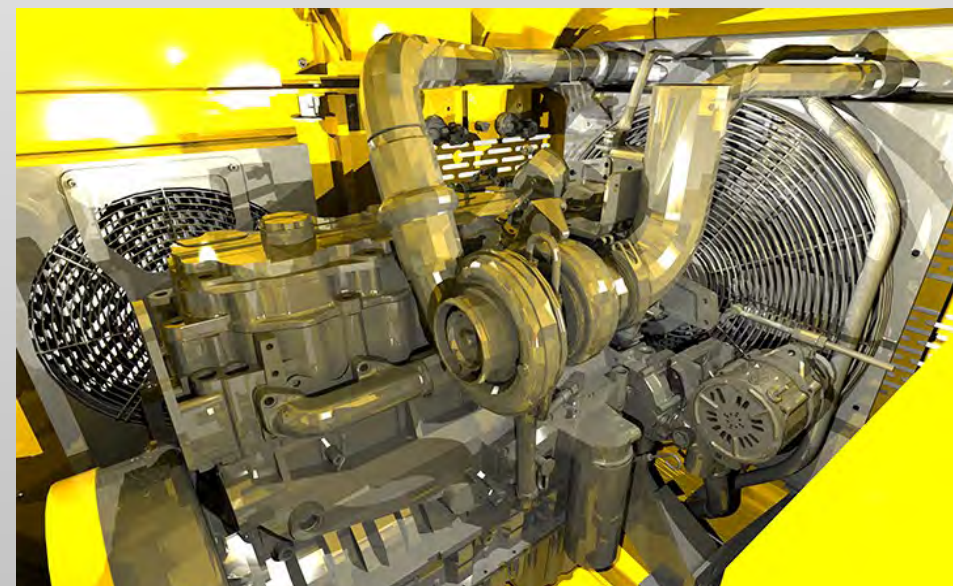
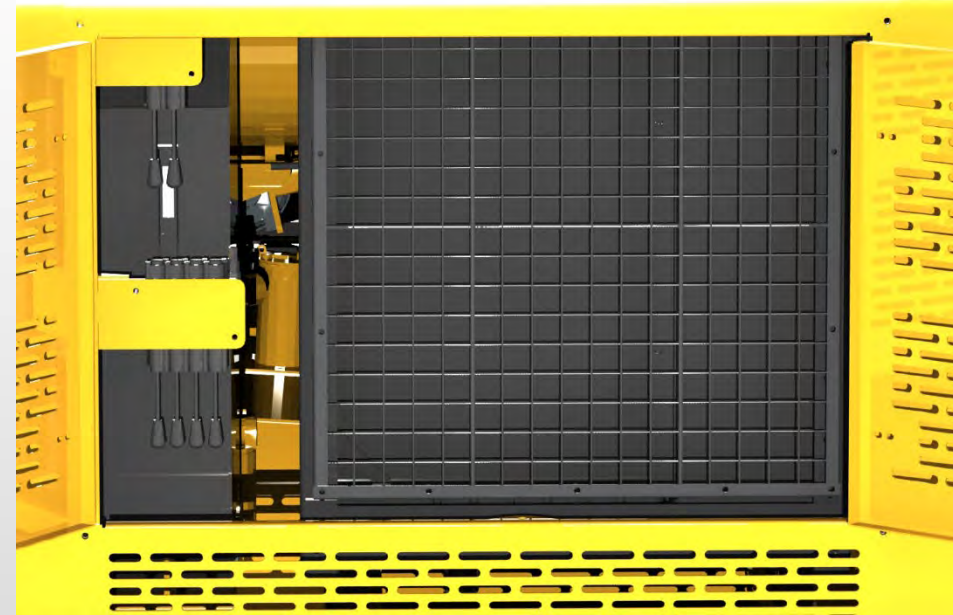
Powerpack (Option)

Powered by a CATERPILLAR® C7.1 LRC 250hp
Tier 4 engine rated (186kW)

Radiator blast guards

Cold climate oils (Recommended for ambient
temperatures between -20°C to +30°C)

Plant lighting mast



Dust Suppression (Option)

| Water Pump

Remote Control Unit (Option)

- Umbilical remote control unit
- Control panel positive pressurisation



Selling Features Summary

Strong, reliable, robust heavy duty body designed & engineered web & flange chassis, fully welded & fabricated from high grade steel to withstand the rigors of operation & transportation

Hydraulically folding feed hopper wings fabricated from wear resistant steel including hydraulically powered locking system

Self cleaning stepped grizzly with vibrating twin shaft exciter

Heavy duty crusher design with fully hydraulic adjustable setting and optional under-crusher deflector plate

CATERPILLAR® engine as standard, compliant to industry regulations

Heavy duty tracks suitable for any environment

Extra wide product conveyor with full length rubber side skirts utilising wear resistant steel clamp plates

Maximised discharged height for product stockpiling

Height adjustable, overboard magnetic separator

Two hydraulic oil coolers fitted as standard for maximum productivity in warmer climates

Water spray system fitted to the forward product conveyor and jaw opening