

# APRON FEEDER

## HEAVY DUTY PRIMARY FEEDER

Mine Site Proven

D4, D6 & D9 models

Heavy duty cast pans

Electric or hydraulic

200 - 10,000 tonnes per hour

Feed size 20 - 2000mm

In operation throughout Australasia

**rocktec**

# APRON FEEDER

## HEAVY DUTY PRIMARY FEEDER

Designed for mine sites and primary quarry applications involving severe material weight, impact and abrasion, Rocktec has versions to suit all. The overlapping pans are bolted to crawler tractor chain and driven by segmented sprockets. Heavy duty spherical type roller bearings support the head and tail shaft whilst the chain and pans are supported by a series of steel support rollers. Due to the high shock loadings central impact bars run the length of the feeder to prevent permanent distortion of the pans.

### Technical Features

#### Heavy Duty Frame

The main frame is constructed from beams and cross members welded together to give maximum continuous strength and support along the complete length of the feeder.

#### Rollers

The carry rollers are standard HD crawler tractor type and spaced to eliminate any sag in the chain. Twin flanges greatly reduce the loading on each roller.

#### Chain Take-up

Hydraulic rams ensure that the chain can be tensioned correctly by the operator or maintenance personnel without the need for specialised heavy duty equipment. Locking assemblies ensure chain is maintained at correct tension.

#### Sprockets

The odd number of teeth allows each tooth to contact the chain on every second rotation to double the life of the sprockets. When it needs replacement, the segmented design allows this to be accomplished with the chain in place.

#### Heavy Duty Chain

All Rocktec Apron Feeders use heavy duty crawler tractor chain, sized to suit the application. This design greatly increases wear life and drive line strength. Salt and standard chain options available.

#### Shafts

Shafts are manufactured from oversized forged steel, and the sprocket hubs are taper locked to the shafts to ensure extended component life.

#### Impact Rail

All Apron Feeders are fitted with either one or two impact rails that prevent permanent deformation of the pans. This is achieved by the rails absorbing the severe impact loadings by transmitting the energy into the heavy duty mainframe.

#### Bearings

Head and tail shafts are mounted on large, double row, self aligning spherical roller bearings. Minimum design life is 100,000 hours of B10 life. Grease lines are fitted to enable remote lubrication. Automatic greasing systems are available.

#### Pans

Manganese pans are used due to their high resistance to impact and excellent abrasion resistance. Machined surfaces ensure a perfect fit with the chains. We are able to custom design and manufacture pans to suit all applications.

#### Drive

A range of drive options are available including electric and hydraulic. Standard drives are electric with planetary close coupled gearboxes.

### Options

- Available with either electric or hydraulic drive
- Optional dribble conveyor to collect spillage



- D4, D6 & D9 models
- Heavy duty cast pans
- Electric or hydraulic drive

- 200 - 10,000 tonnes per hour
- Feed size 20 - 2000mm



## Spare Parts Support

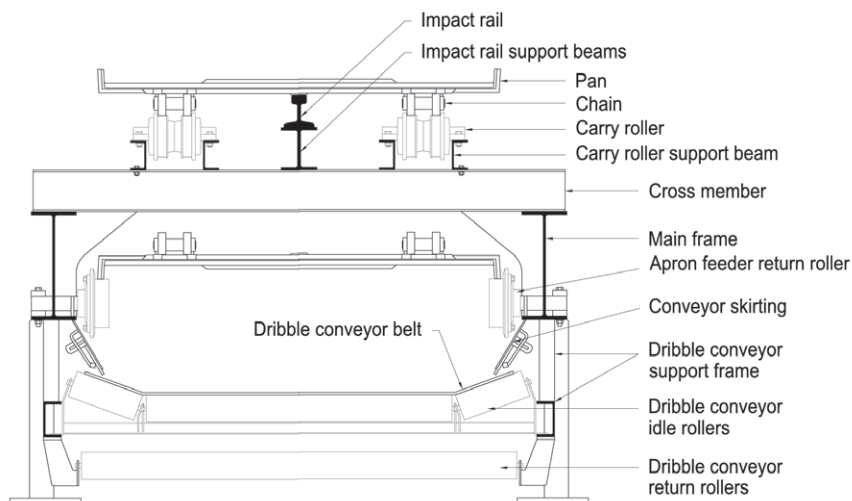
Rocktec Apron feeders are fully supported by Southern Cross Engineering with spare part centres in Brisbane, Melbourne, Christchurch and Matamata.

Purchasing standard OEM parts from Southern Cross Engineering ensures that your apron feeder will continue to provide continued service and reliability.

All parts can be traced by each unit's individual serial number and are supplied ex stock or thru a prompt back order service.

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A **sce**GROUP Company

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