

# COWANS

**COWANS SHELDON**

# SHELDON

## 80T Railway Recovery Cranes



The CCS 80 – 6T, 80 tonnes at 6 metres radius capacity diesel hydraulic railway

breakdown crane was delivered to CFM (Mozambique).

factsheet

Over the years we have designed and built heavy duty railway cranes with lifting capacities ranging from 60 to 250 tonnes for many of the worlds leading railway networks.

Today our second to none technology and practical expertise enable us to supply diesel hydraulic cranes including telescopic boom models and diesel electric cranes and the Cowans Sheldon product range now covers the important track maintenance sector.



## 80T Railway Recovery Cranes

The CCS 80 - 6T is one of the most sophisticated diesel hydraulic railway breakdown cranes to be seen anywhere in the world and incorporates the following innovative features:

- The latest state of the art technology for hydraulic drives allows continuous and smooth control of all movements of the crane at the same time independently and within the diesel hydraulic power unit capacity. Hydraulic control gives self adaptation of the speed to the motor load as well as overload protection.
- Two element telescopic boom extending to 15 metres permits lifting operations beneath and between electrified catenary systems. Moveable counterweight permanently on board.
- Powered swing type outriggers giving a wide variety of propping bases which enhance stability and lifting performance; outriggers incorporate long stroke jacks minimising packing.
- The latest electronic safe load indicator system gives limitation of slew sectors and overload protection.

The Crane may also be provided with the following innovative features:

- A carriage tilting mechanism allowing the crane to self level on canted track thereby maintaining free on rail lifting performance.

- New parabolic spring suspension allowing in-train speeds up to 120 km/h
- Tandem lifting on the main and auxiliary hoist system under safe load indicator system control.

### A typical load chart is featured below.

Radius	Slew Angle 360°		Slew Angle ±22,5°	
	Main Hoist	Aux. Hoist	Main Hoist	Aux. Hoist
5.0	80.0	10	80.0	10
6.0	57.0	10	80.0	10
8.0	35.0	10	51.0	10
10.0	24.0	10	35.0	10
12.0	17.5	10	26.0	10
13.0	15.2	10	22.5	10

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