

COWANS

COWANS SHELDON

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Multi Tasking
Railway Recovery Cranes



The RC 110 – 11T, 110 tonne capacity multi tasking railway recovery crane delivered to the Freight Rail division of the state Rail Authority of New South Wales in March 1995.

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.



Multi Tasking Railway Recovery Cranes

The RC 110 - 11T is one of the most sophisticated diesel hydraulic railway breakdown cranes to be seen anywhere in the world and incorporates the following innovative features:

- A carriage tilting mechanism allowing the crane to self level on canted track thereby maintaining free on rail lifting performance.
- A three element telescoping boom extending to 24 metres. The internally mounted main hoist winch ensures that the hoist rope stays parallel to the boom, irrespective of boom angle, and therefore permits lifting operations beneath and between overhead wires.
- New parabolic spring suspension allowing in-train speeds up to 120 km/h.
- Special telescopic swing type outriggers giving a wide variety of propping bases which enhance stability and lifting performance.
- The latest electronic safe load indicator system gives limitation of slew sectors and overload protection.

These innovative features give railway authorities the greatest flexibility and use of resources. In addition to recovery work, the crane can carry out bridge erection, installation of electrification and signalling equipment, handling track components such as points and crossings, track panels and sleepers, and general construction duties.

A typical load chart is featured below.

Radius	Slew Angle 360°		Slew Angle ±30°	
	Propped Load in Tonnes		Propped Load in Tonnes	
	Main Hoist	Aux. Hoist	Main Hoist	Aux. Hoist
5.0	110	25	110	25
6.0	110	25	110	25
7.0	110	25	110	25
8.0	102	25	110	25
9.0	90	25	110	25
10.0	78	25	110	25
11.0	66	25	110	25
12.0	57	25	93	25
13.0	50	25	80	25
14.0	44	25	70	25
15.0	39	25	43	25
16.0	35	25	40	25
17.0	31	25	38	25
18.0	28	25	36	25
19.0	26	25	34	25
20.0	23	24	32	25
21.0		22		25
22.0		21		25

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