

DESCRIPTION TECHNIQUE

The Rockwheel TS-100 Hydraulic Cutting Unit is designed specifically for narrow trenching using 15 to 25 tonne excavators.

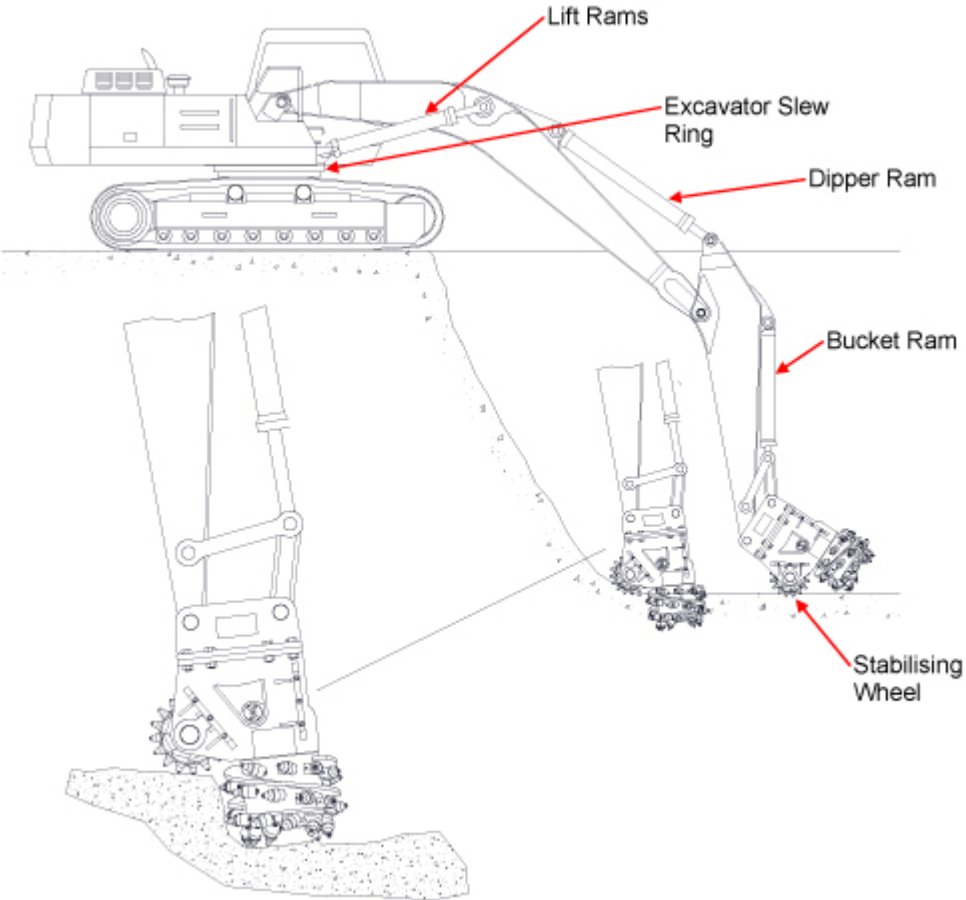
Spécifications TS-100

Maximum Input Power	- 70 kW	- 93.8 hp
Maximum Flow	- 320.0 lpm	- 70.4 UK gpm
Recommended Flow	- 220.0 lpm	- 48.4 UK gpm
Maximum Pressure	- 400 bar	- 5,801 psi
Output Shaft Torque	- 14,272 Nm @ 320 bar	- 10,527 lbf ft
Pick Force	- 44.2 kN @ 320 bar	- 9,937 lbf
Output Shaft Speed	- 78.0 rpm @ 220 lpm	- 78.0 rpm @ 48.4 UK gpm
Pick Speed	- 2.2 m/s @ 220 lpm	- 511 ft/min @ 48.4 UK gpm
Unit Weight	- 958 kg	- 2092 lb
Excavator Range	- 15 – 25.0 tonne	- 15 – 25.0 tonne
No of Picks (Rock Drums)	- 32 (25.4 mm Shank)	- 32 (1.0" Shank)

If oil specification is below 46 centistokes at 40°C (ISO HV46) the performance must be downrated.



The following details the concept behind the TS-100 axial cutting unit.



The action of the bucket ram lowering the cutting head into the cut causes the Stabilising Wheel to bite into the ground.

The axial cutting head can now be used with minimal shock loading on the excavator slew ring. The lift, dipper and bucket cylinders can all be used whilst the load is maintained on the Stabilising Wheel.