

# R7 ROBOWASH MACHINE

**R7**  
FEATURES & SPECS



## MACHINE DESCRIPTION

The R7 Robowash machine is perfectly designed for heavy industrial cleaning applications and is capable of cleaning large, heavy components with precise cleaning and contamination control.

Suited for large off-road diesel 16-cylinder engine blocks and components, marine and stationary power rebuild and remanufacture as well as large general engineering and manufacturing components.

Options include additional spray bar for internal oil gallery flushing, on demand gas heating for high capacity cleaning applications, advanced filtration for contamination control as well as the ability to run caustic soda with additional rinse function.

The R7 Robowash is unmatched in its reliability, superior performance and productivity.

## MACHINE SPECIFICATIONS

Load Capacity:	6.0 Tonne
Basket Dimensions:	2400mm Diameter
Internal Height:	1500mm / 2000mm
Tank Capacity:	2000 L
Machine Weight:	5.0 Tonne
Max Electrical load:	Minimum 63A, 100A preferred for Electrical Heating

## KEY FEATURES

- PLC control with HMI screen
- Fully automatic bi fold lid with 200mm self-adjusting pneumatic safety cylinders
- High torque, electrically driven basket with torque clutch
- Highly efficient washing technique utilises dual pumps with 9-Bar pressure and high impact spray nozzles

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### INSTALLATION REQUIREMENTS

Installation Requirements for Model R7

#### CONNECTIONS REQUIRED

All connections are required to be dedicated and permanent.

#### ELECTRICAL

Isolation at the rear of but no further than 5 metres from the machine.

- Option A: 415V, 100 A, 3 phase hardwired. (4 pin plug) without purge pump.
- Option B: 415 V, 63 A, 3 phase with Earth and Neutral

#### GAS HEATING (Gas heating optional)

100kW + gas heating with flue requires Type B Gas Appliance Certification

#### EXTRACTION

Supply double skin stainless steel ducting to the rear left-hand side of the machine lid and roof mounted in-line 3 Phase extraction system with isolation and control.

#### AIR

Supply to the rear but no further than 5 metres from the machine. 320 series double button hose connection with CLAW fitting. 8 bar minimum.

#### WATER

Supply to the rear of but no further than 5 metres from the machine. 1" garden hose cock on a main pressure line. Must be permanent for Automatic Top Up Circuitry.

### MACHINE SERVICING & WASTE REMOVAL

#### WASTE WATER

**Robowash Service:** Access for Vacuum Tank to remove waste water from machine. No further than 20 metres.

**Self Service:** Waste water storage tank / IBC at the rear of but no further than 10 metres from the machine. Requires additional purge pump assembly.

#### CAUSTIC

- Option A: Tank titration and chemical redosing.
- Option B: Neutralisation of caustic waste, liquid waste removal and treatment, machine tank cleaning, chemical supply, redosing and machine tank restarting, documentation and reporting.

### MACHINE SPECIFICATIONS

Load Capacity	6.0 tonne
Basket Dimensions	2400 mm Diameter
Internal Height	1500mm / 2000mm
Tank Capacity	2000 L
Pump Motor	415 v 3 Phase 15kW 415 v 3 Phase 5.5kW
Pump Water pressure	507-650 kPa (73-94 PSI)
Pump Mechanical Seal type	Carbon / Ceramic / NBR
Elements – Heat up	84.0A
Elements – Run	56.0A
Gas Heating Option	On demand 85 degree celsius heat
Machine Weight	5.0 tonne
Overall height (lid closed)	3800 mm
Clearance height (lid open)	6000 mm
Depth (inc lid clearance)	3300 mm
Width	4500 mm
Optional Extras	Internal Oil Cavity Flush for engine blocks Advanced Filtration Custom internal designs to maximise productivity Automatic oil skimmer Upgraded 55kW pump delivering 1100 litres per minute at 14 bar pressure

