

PIPE CARE UNIT TYPE 4 (PCU4®)

Pipe Cleaning Unit

RAMCO®

PIPE CARE EXCELLENCE

Through our family of PUC's® RAMCO has pioneered many aspects of operational efficiency, from state of the art internal and external cleaning and treatment of OCTG to NORM removal. The PCU® technology, designed by RAMCO's engineering specialists, offers unrivalled efficiencies, and operates to the highest environmental standards. The technology uses automated wash and drifting combined with a self-contained and re-usable water system which reduces the need to dispose of water waste.



BACKGROUND

In response to market demand Oil Country Tubular Goods (OCTG) manufacturer along with several Oil and Gas Operators required tubular cleaning and inspection services to the highest standards in remote locations. The equipment needed to be mobile, environmentally safe and with no requirement for major civil engineering works.

RAMCO SOLUTION

Building on the experience gained operating the PCU1®, PCU2® & PCU3® units Ramco designed and built the next evolution in its range of PCU's. The PCU4® provides a new level of performance for the cleaning and preparation of OCTG from 2 3/8" through to 20", with automated drifting built in, an autonomous feed and overhead wash system with a sustainable water recycling for the 3,000 psi hot water cleaning system.

The PCU4® is designed in 2 high cube containers giving maximum space for inspectors without compromising footprint, and when combined with the containerised ancillaries it retains a high level of mobility to a system that can be deployed anywhere in the world with no major civil infrastructure requirements.

Furthermore, the PCU4® only requires 3 operators – 1 RAMCO supervisor supported by local labour.

TECHNICAL SPECIFICATION

Process Plant

2 High Cube 40ft shipping containers comprising of:

- 3,000 psi hot water cleaning system
- Automated control of product on racks
- Automatic Drift capabilities
- Automated overhead washing of product
- Full water recycling/filtration system
- Internal spray and drift lances
- Weather protection module

FOOTPRINT

- 1000m² on level hard standing ground
- 2 x 20ft containers with all ancillaries

POWER PACK

- 470cfm compressor c/w drier
- Air receiver
- Generator (to suit client requirements)

CAPACITY

- Sizes 2 3/8" - 20" standard
- 12 joints per hour average*

*based on standard 9 5/8" pipe

PCU4® AT A GLANCE...

JET CLEANING UNIT

- Self-contained internal water jetting unit for removal of well fluids, muds and surface contaminants
- Automated overhead wash and drift capabilities
- Can be used for casing, tubing, drillpipe and accessories
- Cleans to customer-specified inspection standard
- Range 1 – Range 3
- Sizes – 2 3/8" - 20" standard
- Footprint – 900m² on level hard standing ground

CAPACITY

- 12 joints per hour average*

KEY BENEFITS

- Self-contained mobile solution – operational within 6 weeks
- High cube containers for maximum space with small footprint
- No capital outlay – variable costs based on minimum throughput
- Environmentally friendly
- Consistent quality output
- Single solution for cleaning, rig-ready/return (casing, tubing and drillpipe)
- Improved manpower utilisation
- Minimised rig site rejects
- Reduced inventory requirements