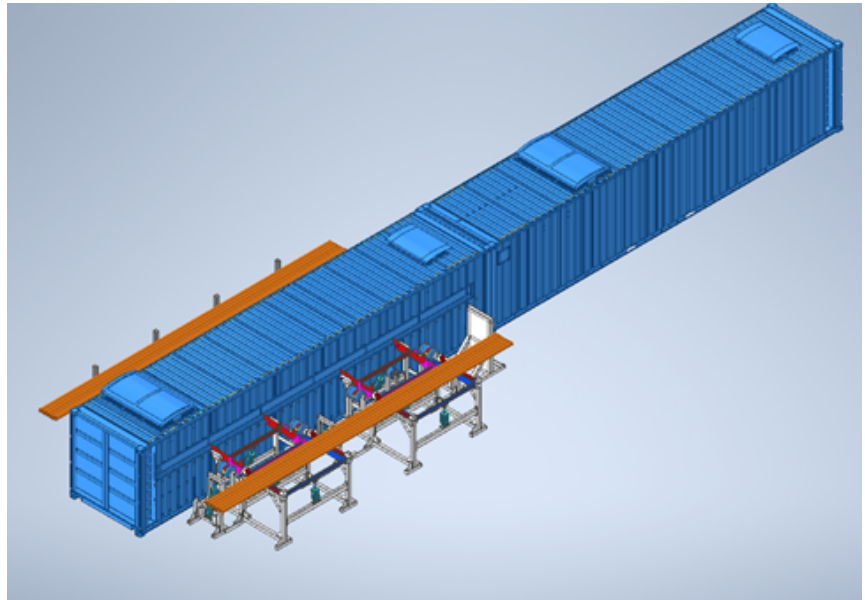


Automated Pipe Cleaning Unit APCS

Automated system for the cleaning of inner and outer diameters of pipe in a single unit, removing products such as cement, drill mud and hydrocarbon products including NORM/LSA with high pressure water jets.



Range of Pipe

The following is a list of Range 2 standard drill pipe sizes that the unit has been designed to handle based on the most common cleaning requirements. Custom options are available to suit pipes out with this range.

Type	Nominal Weight (lb/ft)	ID	OD	Load/Unload Capacity	Length
2 7/8	6.5 - 10.0	2.151	2.61	6	32FT - 33FT
3.5	13.3 - 15.5	2.76	3.25	6	32FT - 33FT
4.5	16.6 - 20.0	3.83	4.2	6	32FT - 33FT
6.5	25.2 - 27.7	5.965	6.4	4	32FT - 33FT

Utility Requirements

Compressed air:

Flow rate: 130~170 CFM with air dryer - Air cooled, lubricated
Air pressure: 8 bar - 9.5 bar
Flow rate CFM will be dependent on the selected APCS model

Water supply:

Water supply pressure: 3 bar - 5 bar with filtration
Flow rate requirements of water would be 1.2 times of the pump's flow rate mentioned in the performance section of pump data sheet

Electrical:

Designed to operate with single phase 220V available on site. 220~240 VAC (50 Hz or 60 Hz). If the high pressure pump is with electric motor drive, the requirement for the power supply will be separately mentioned within the pump data sheet

Automated Pipe Cleaning Unit

APCS

Performance

Below is an example of typical performance of the APCS coupled with an AWE built Jetstream ultra high pressure pump with 38 lpm @ 40,000 psi, based on a single ID/OD cleaner configuration.

ID cleaner

Cleaning capacity:	135/shift (standard 8 hour shift)
Loading time:	1 minute (from outside of container to ID cleaner)
Cleaning time:	2 minutes
Unloading time:	30 seconds

OD cleaner

Cleaning capacity:	56/shift (standard 8 hour shift)
Loading time:	1 minute (from outside of container to OD cleaner)
Cleaning time:	5 minutes
Unloading time:	30 seconds

Control Module

The control module features an automatic and semi-automatic cleaning cycle for full control.

Semi-automatic

In this cleaning cycle, the operator can control individual functions:

- Loading
- ID cleaning
- OD cleaning
- Discharge of cleaned pipe to drying rack

Although the function of each stage would be controlled by the operator in this cycle, status sensors & control module programming feature as safety devices to prevent any damage to the pipe.

Automatic

If the automatic cycle is chosen, the system is programmed to load the pipe into the ID or OD cleaning section with the press of one switch. After cleaning is completed, the system discharges the pipe to a drying rack outside the container and automatically brings in the next length if any available in the loading area.



Automated Pipe Cleaning Unit APCS

Waterjetting Control

The Electric/Air-Operated Diverter Valve allows an operator to remotely control pressure in cleaning applications up to 40,000 psi, specifically in automated cleaning processes.

Reduces operator fatigue by actuating the system electronically rather than mechanically. When electric voltage is present, the valve opens to allow water to the nozzle. The valve closes when the voltage is removed, preventing the water from reaching the nozzle while maintaining system pressure.



Powered by the AWE Jetstream high pressure waterjetting pump system - performances available up to 40,000psi.

Performance chart available upon request



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