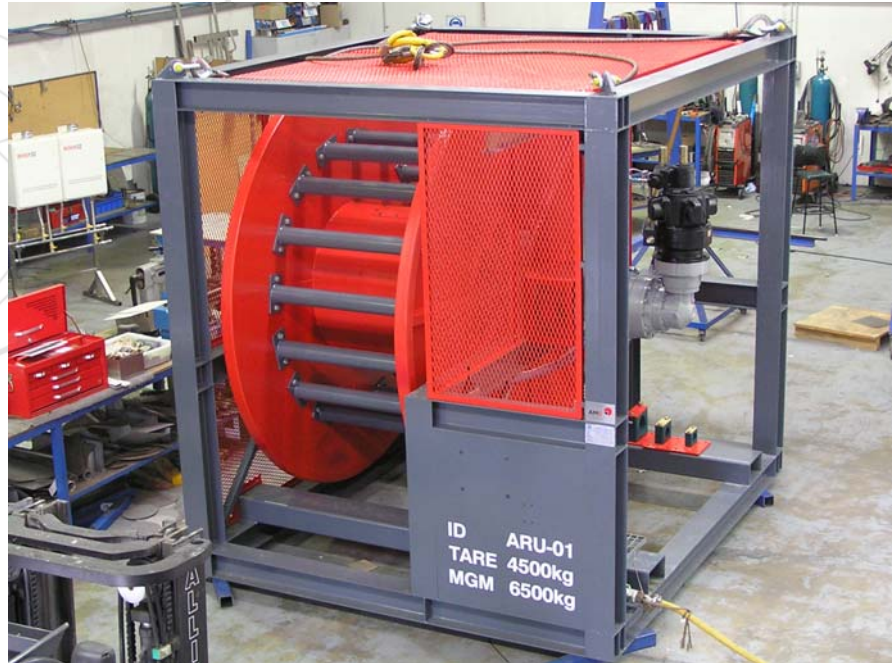


Powered Hose Reel

McDermott Industries

Function testing of
powered hose reel
prior to delivery



Powered Hose Reel

PROJECT PROFILE

Client:	McDermott Industries
Location:	Perth Western Australia Angel Field
Project Duration:	150 days
Date:	Feb 2007 - July 2007

For the installation of the platform substructure and flowlines for the Angel gas field development, McDermott Industries required a powered hose reel capable of handling a variety of subsea hoses.

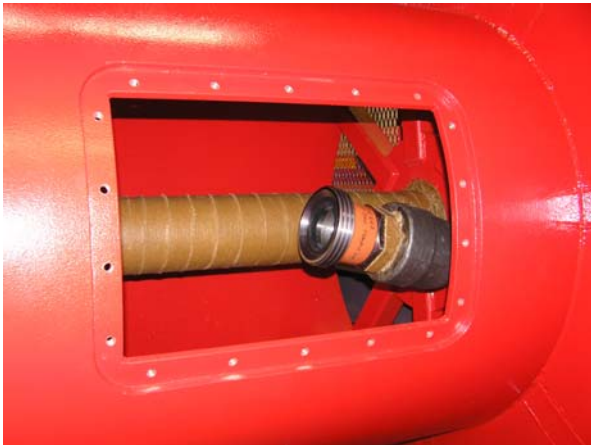
AME designed and fabricated a powered reel unit to support grouting, flowline flooding and hydro-testing operations.

The drive system consists of a piston-type pneumatic motor, high speed fail-safe brake and shaft mounted planetary gear reducer with torque arm. This robust system is safe, simple and easy to maintain in the field.

Multiple hoses with varied minimum bend radii can be stored on the reel through the installation and removal of circumferential drum struts.

SPECIFICATIONS

Reel envelope dimensions:	5.1m x 2.8m x 2.8m (height)
Tare:	4500kg
Nett. (Hose Mass, Full):	2000kg
Maximum Gross Mass:	6500kg
Line Pull:	3000kgf (max.) @ dia. 1800mm 5000kgf (max.) @ dia. 900mm
Line Speed:	20-30 metres per minute
Rotational Speed of Drum:	3.5-4.6 revolutions per minute
Compressed air supply:	300 CFM at 120 PSI
Grout/Water supply pressure to shaft:	29 MPa (4200 PSI) Max.
Drum capacity (to meet client requirements):	220m OD132mm (on 900 dia drum) 380m OD71mm (on 1800 dia drum)



(a)

Photo (a): Internal hose connection, located within the winch drum.



(b)

Photo (b): Side elevation, showing drive components and operator enclosure.



(c)

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