

ROV Suction Foot

The suction foot can hold an ROV to smooth surfaces such as ship hulls, submarines, platform tubulars and pipelines. The high level of grip makes it suitable for a wide range of inspection and cleaning ROV tasks.

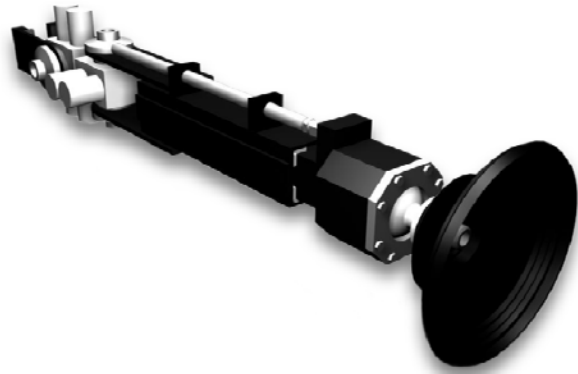
The suction foot can be fitted to a manipulator in place of a standard claw or deployed on an articulated telescopic arm.

Suction feet are typically deployed in groups of three or more when an ROV has to be rigidly locked to a structure, eg for cleaning ship hulls.

Suction Foot with
Ball Swivel Joint



Attachment Arm with Foot



Suction Foot

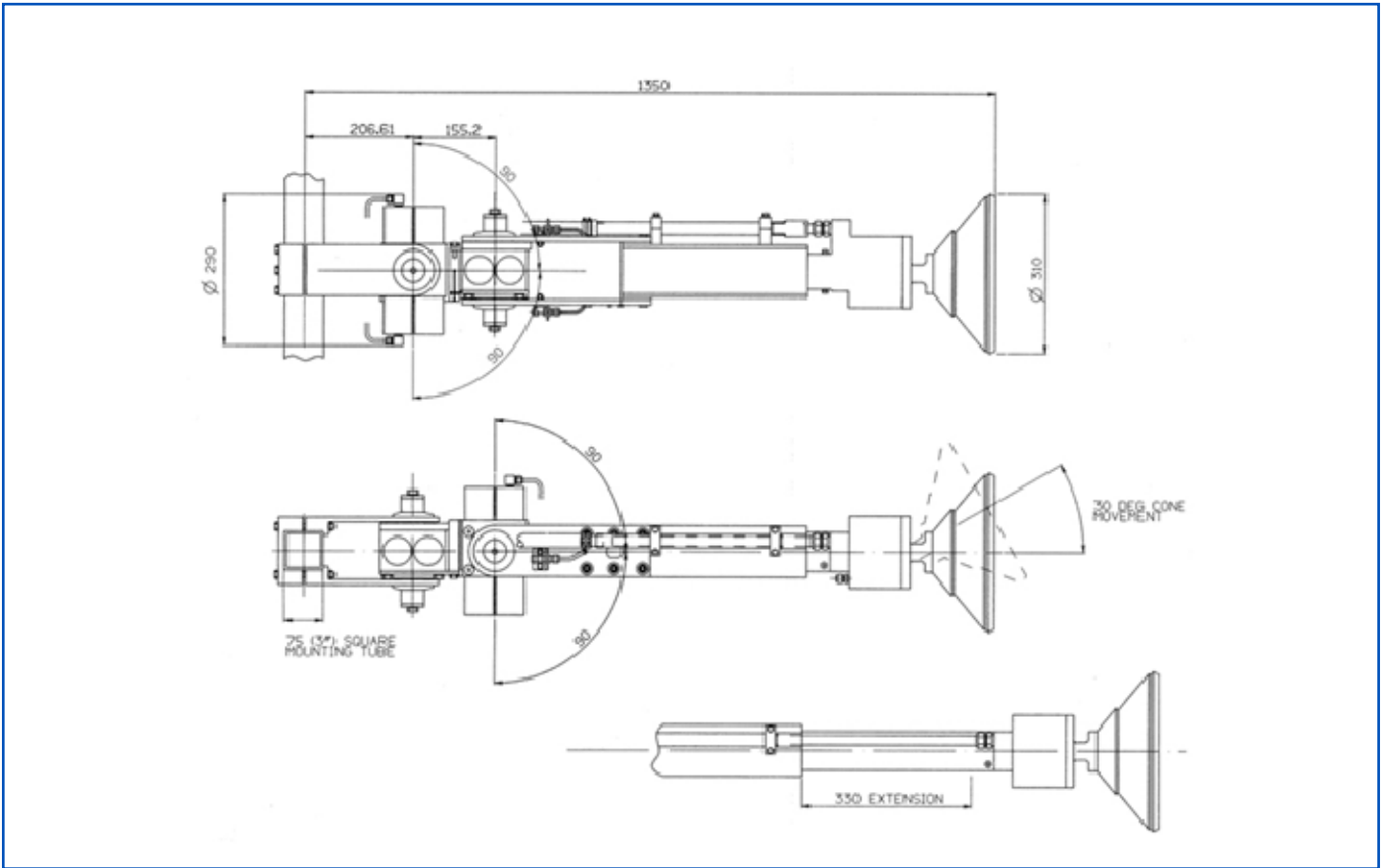
The foot has a flexible polyurethane moulded cup, tolerant of marine growth and crustaceans, and able to attach to curved surfaces down to 400 mm (16") diameter. The cup is abrasion and tear resistant. The cup is mounted on a ball swivel joint to ease self-alignment on the target surface. The swivel can be hydraulically locked once suction is achieved, for greater rigidity.

The foot and its swivel joint are available as an assembly for fitting to manipulators or can be supplied as part of an attachment arm.

Attachment Arm

The attachment arm is a three function manipulator consisting of shoulder pitch, jaw and extend. The arm may be used in addition to standard ROV manipulators or as a low-weight substitute manipulator.





Specification

Suction Foot

Suction Foot Outside Diameter:	300 mm (11.8")
Workpiece Diameter Range:	Flat to 400 mm (16") Diameter
Ball Joint Resistance at 50 Bar:	1100 Nm (815 ftlbs)
Suction Force @ 3 Bar Suction:	1950 kgf (4300 ;bs)
@ 1 bar Suction:	720 kgf (1584 lbs)

Attachment Arm

Maximum Reach (with Suction Foot):	1680 mm
Weight in Air/Water:	45/35 kg (99/77 lbs)
Lift at Maximum Reach:	56 kg (117 lbs)
Shoulder Yaw and Pitch:	180 degrees
Extend:	330 mm (13")

Data Sheet: A001-350-064 issue 3

The specification details are illustrative for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement.