



Actuator Running Tool

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The Actuator Running Tool (ART) is designed and tested for retrieval and installation operation of subsea hydraulic actuators up to 10.500 kg.

The tool is landed on subsea structure using configurable guideposts and mini-guideposts for fine guiding. Integrated soft-landing cylinders ensure controlled landing speed.

The lifting operation within ART is hydraulically operated through a standard API 17H Hot Stab receptacle. Connection to actuator is done by clamping, and is operated by a API 17H Class 4 Torque Tool. Interlocks are mechanical and operated by ROV.

Key features

- DNV 2.7-3 Lifting frame
- Up to 5° landing angle
- Adjustment mechanism integrated

ART has successfully been tested with 5° offset on landing base, and integrated adjustment cylinders (pitch, roll, x- and y-plane movement) can be used for alignment with valve.

SIZE AND WEIGHT

Size ($W \times L \times H$):
Size w / skid (W x L x H):
Weight in air:
Weight in water:
Weight w / skid:

2900 x 2300 x 4600 mm 2900 x 2300 x 5000 mm 6200 kg 5200 kg 8500 kg

INTERFACES

Actuator:	Ø1440 flange
Clamp:	API 17H Class 4 Torque Tool
Hydraulic:	API 17H 2L Hot stab female
Guide funnel:	2 off ID 247.8 mm, c-c 2400 mm (configurable)
Mini guideposts:	4 off
ROV:	D-handles, Grabber bar

MECHANICAL

Lifting certificate:	DNV 2.7-3 R6o Subsea
Max. payload:	10.500 kg
Max. gross weight:	19.000 kg
Depth rating:	3000 meter
Transportation:	Dedicated transport skid
Soft-landing:	2 off, closed loop, water based
Misalignment:	Flex joint, adjustment cylinders

HYDRAULIC

System pressure:	207 bar
Elevator stroke:	1450 mm
Stroke, Pitch / Roll:	30 mm
Stroke, x- / y- plane:	70 mm
Elevator max force:	320 kN
Force, Pitch / Roll:	50 kN
Force, x- / y- plane:	91 kN
Load holding valves:	On all cylinders
Contingency:	Cutting loops on all lines

MATERIAL

Frame:	Carbon Steel, System 7 coating
Brackets:	316L, S165M
Shafts / nuts:	S165M, OM7-20
Bearings:	Nylon, carbon reinforced
Protection brackets:	POM-C





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