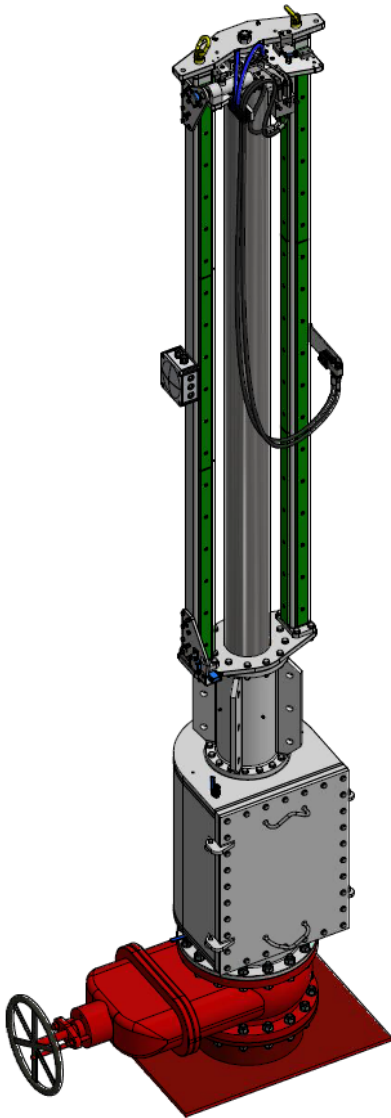


Datasheet

Deployment Machine – through-hull OSV



The Type 8223 is a compact through-hull Deployment Machine, specifically designed to meet the requirements of Offshore Support Vessels (OSVs) and smaller vessels without compromising sensor operational performance.

The deployment machine consists of a hydraulically operated pole, a sealed bearing section and a sea chest service section with inspection door. The deployment machine sits on a gate valve which in turn is mounted on the flange of a through hull penetration pipe.

The sea chest provides easy access to the retracted transceiver for service and inspection purposes (when the gate valve is closed). The gate valve also allows the machine to be removed without dry docking.

For Long and Ultra-Short Baseline (LUSBL) applications the pole has been designed to deploy the transceiver to a depth of 1.5 m below the vessel hull, which is deep enough for most vessels to clear any aerated water ensuring a high level of acoustic performance is maintained.

The deployment machine is controlled from a main control panel or locally on the deployment machine. Bridge control is also available as an option, either via software as part of the Ranger 2 or Marksman software pack, or as a standalone control unit.

A shorter version of the deployment machine is also available for other applications.

Sonardyne can provide detailed application advice on positioning, installing and commissioning the machine.

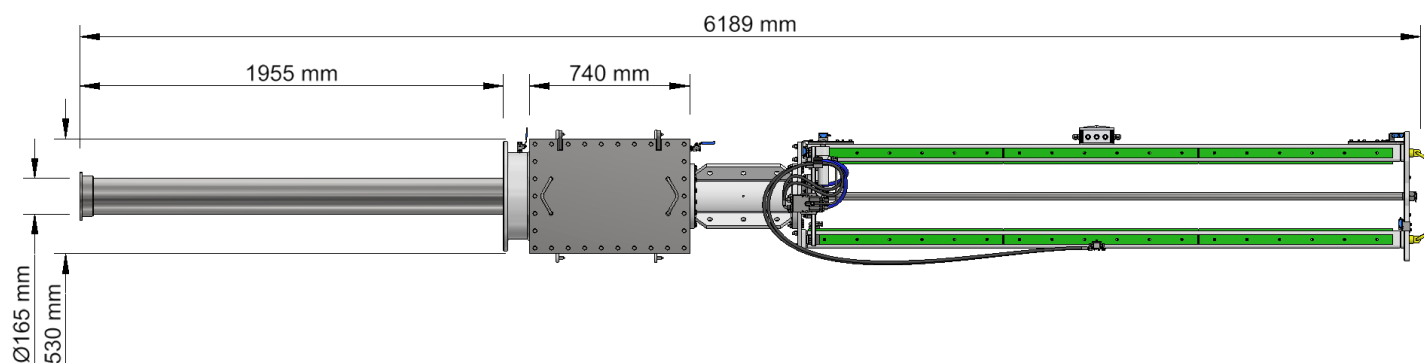
An optional hydraulic drive for the gate valve is available.

Key features

- Optimised design for vessels that will not operationally exceed 7 knots¹
- 10 knots short duration survival speed¹
- High strength stainless steel pole
- Low voltage control system
- Software control²
- High integrity bearing and sealing design
- Reliable hydraulic actuation with safety interlocks
- Manual retraction of pole in emergency with loss of electrical power
- DNV, ABS, Lloyds certification (others available on request)
- Hydraulic control of gate valve
- Designed to fit directly to DN350 gate valve

Specifications

Deployment Machine – through-hull OSV



Feature		Type 8223 OSV Through-Hull Deployment Machine	
Deployment Machine	Transducer pole	316 stainless steel	
	Guide sealing section	Contains bronze support bearings plus high integrity 2 stage seal	
	Service section	Removable door access to the transceiver without the need to lift the machine	
	Operational speed	Standard	7 knots ¹
		Emergency	10 knots ¹
	Operation	Main control, local control, bridge control and emergency manual hand pump	
Length	Maximum available deployed length is 1.5 m to bottom of pole		
Weight	750 kg		
Gate valve	A DN350 mm (14") gate valve is supplied as standard. Hydraulic drive available		
Power supply	Nominal 440 V 50–60 Hz 3-phase 2.2 kW		
Limit switches	Sense position of the transceiver pole and the gate valve. Enable safety interlock		
Hydraulic power pack	Dimensions (H x W x D)	632 x 300 x 300 mm	
	Weight:	40 kg	
	Tank volume	30 litres Mobil DTE 24	
	Working pressure	100 bar operational (180 bar maximum)	
Main control cabinet	Dimensions (H x W x D)	632 x 600 x 210 mm	
	Weight:	25 kg	
	Supply:	24 V dc (internally generated from 440 V)	
	IP rating	IP66	
Local control box	Dimensions (H x W x D)	315 x 180 x 159 mm	
	Weight	5 kg	
	Supply	24 V dc from main control cabinet	
	IP rating	IP66	
Bridge control (optional)	As per the local control box with dimmer control (flat plate version also available)		
Certification	DNV, ABS, Lloyds (others on request)		

¹ Total through water speed.

² Ranger 2 or Marksman software.