

T-600 Trenching System



T-600 TRENCHING SYSTEM

THE T-600 TRENCHING SYSTEM was designed specifically to trench and backfill deepwater flowlines, umbilicals and cable products.

MAIN CHARACTERISTICS

Maximum Dimensions	
3.84 m wide	
3.58 m high	
8.25 m long including rear mounted tool(s)	
Ground Clearance	
600 mm in track mode	
600 mm in skid mode	
Maximum Weight in Air	
Track Mode	14,700 kg including 200 kg payload
Skid Mode	14,000 kg including 200 kg payload
Pipe Running Mode	14,700 kg including 200 kg payload
Weight in Seawater	
Neutral (with skids fitted)	
700 kg + / - 100 kg (with tracks fitted)	
300 kg in pipe running mode (skids fitted)	
Depth Rating	
3,000 m	
Air Temperature	
Maximum -20° C to 40° C	
Humidity	
100%	
Seawater Temperature	
Up to 32° C	
Storage	
-20° C to 60° C	
Vehicle Power	
600 hp	

TRACTION AND BOLLARD SPECIFICATIONS

Speed	
Maximum Surface Speed	2.2 knots forward / aft
Assuming No Umbilical Drag, Skids Fitted, but Neutrally Buoyant	1.5 knots lateral 2.0 knots up 2.0 knots down
Speed on Tracks	50 m/hr to 1,200 m/hr maximum (operating conditions permitting)

PIPE ROLLER SPECIFICATIONS

Minimum Speed	50 m/hr
Maximum Speed	100 m/hr
Tractive Force	250 kgf
Stroke	1.60 m
Ground Clearance	600 mm
Overload	The pipe rollers release if upwards vertical force from ROV exceeds 1,500 kgf with actuation ram de-pressurized

TOOL SPECIFICATIONS

Burial Tools	
1 x interchangeable 2.0 m flowline jet trenching tool	
1 x interchangeable 2.0 m flowline trench eductor and / or dredging tool	
1 x interchangeable trench back-filling tool attachment	
2 x interchangeable jet trenching tools of length 2.0 m and 3.0 m	
1 x interchangeable 1.2 m flowline jet trenching tool	

BURIAL JETTING TOOL SENSORS

Eductors	
Ground Clearance	60 mm minimum
Maximum Depth	1.9 m below seabed
Width Between Eductors	215 mm to 405 mm
Side Load Relief Load	500 kg
Aft Load Relief Load	250 kg



LARS

A-frame Configuration and Capabilities

Maximum Combined Vehicle Assembly and Cable Mass (in Water)	26.7 t
Latch System Design Load	48.0 t
Maximum Outboard Reach	5.0 m
Maximum Inboard Reach	5.0 m
Overall Length of Skid Base	6.0 m
Overall Width of Skid Base	5.36 m
Mass of Complete Assembly (Optional Alternative A-frame Systems Available)	25.2 t

SYSTEM MANNING REQUIREMENTS

1 x project manager
1 x superintendent
2 x supervisors
6 x pilot technicians

UMBILICAL WINCH CONFIGURATION AND CAPABILITIES

Barrel Diameter (At Root of Grooves)	2.55 m
Nominal Design Cable Diameter	46.5 mm
Maximum Design Cable Diameter	46.8 mm
Cable Storage Capacity	3,500 m
Maximum Total Cable Mass	28 t
Mass of Complete Assembly (Excluding Cable)	29.5 t





www.HelixESG.com

Canyon Offshore

Americas
3505 W. Sam Houston Parkway North,
Suite 400
Houston, Texas 77043

Office 713.856.6010
Fax 713.856.6020

Europe / West Africa

Helix House, Kirkton Drive,
Pitmedden Industrial Estate,
Dyce, Aberdeen, UK, AB21 0BG

Office +44(0)1224.351800
Fax +44(0)1224.351801

Asia Pacific

25 Loyang Crescent
Loyang Offshore Supply Base
Block 603, Tops Ave 6, Unit 1, Box 5009
Singapore 508988

Office +65 6.501.0130
Fax +65 6.542.8675