



# DATA SHEET

# SEAJET

Advanced and highly powerful range of electric controlled flow excavation (E-CFE<sup>®</sup>) systems representing the next generation in subsea excavation and trenching technology

The SEAJET E-CFE® is designed for a variety of seabed applications and soil conditions, operating effectively in shallow to deep water. Its all-electric, high-performance architecture ensures optimal performance without compromise.

With a 400kW all-electric twin tool arrangement, SEAJET provides a step change in power, performance, efficiency, and versatility in both shallow water and deepwater (1.5 to 2,500m) excavation and trenching applications.

E-CFE® is a non-contact form of subsea trenching and excavation applicable across the full life-cycle of an offshore energy project from pre-construction, construction, inspection, repair and maintenance through to final decommissioning. Our powerful technology can be utilised across multiple seabed applications and soil conditions and provides 50% more power than existing hydraulic CFE technology.



# SUBSEA APPLICATIONS

- → Pipeline and cable trenching (including live assets)
- → Backfilling of existing trenches
- Freespan rectification of existing assets
- Sandwave remediation
- Seabed preparation
- Shallow water/shore approach excavations
- De-burial excavations for Inspection, Maintenance & Repair (IMR)
- → Rock dump dispersal
- Decommissioning and salvage excavation
- Harbour clearances/ channel deepening

"There is no doubt that the SEAJET is a very powerful tool, and we are extremely impressed with the burial results from this campaign. The environmental benefits of the SEAJET were greatly appreciated and the team were highly skilled and professional in successfully delivering the project for us."

Geir Korstad, Project Manager at Nexans

# **Description and Features**

#### **OUR TECHNOLOGY DIFFERENTIATORS**

- · 50% more power than existing hydraulic CFE technology
- Major reduction in CO<sub>2</sub> emissions
- No risk to the marine environment from high pressure hydraulic oil spills
- Negligible noise pollution when electric power unit is operational
- · Significantly increased vessel back deck safety during operations
- Optimised system performance with surface and subsea diagnosis
  and datalogging
- · Dramatic increase in project operation uptime and reliability
- One lightweight umbilical for all system power, controls & survey packages
- · Full power available at the E-CFE®, regardless of water depth

### **OPERATING PARAMETERS**

- Water depth operability 1.5m to 2,500m
- Maximum flow volume 6,000 L/s
- Maximum flow velocity 10m/s at 3m from nozzle outlet
- Pressure at nozzle outlet 7.5psi (at full flow)
- Cuts soils up to 50kPa @ 3m as standard, and 200kPa+ with high pressure jetting
- Suitable for variable seabed conditions from sand, clays, silt, gravel and rock dump

# SYSTEM SPECIFICATIONS

DESCRIPTION	DIMENSIONS (W x L x H mm)	WEIGHT (kg)
SEAJET	2,000 x 5,200 x 2,300	9,500
Umbilical Winch	3,200 x 2,800 x 2,800	8,400
Tugger Winch	2,700 x 1,600 x 2,100	2,600 (each)
Control Cabin	2,438 x 4,877 x 2,896	10,000
Power Cabin	2,438 x 6,058 x 2,896	12,600
Spares Container	2,438 x 6,058 x 2,896	14,000
Umbilical Chute	3,100 x 700 x 1,300	360
Open Top Container	2,438 x 6,058 x 2,591	3,860





# **E-CFE VS H-CFE SYSTEM PERFORMANCE**

