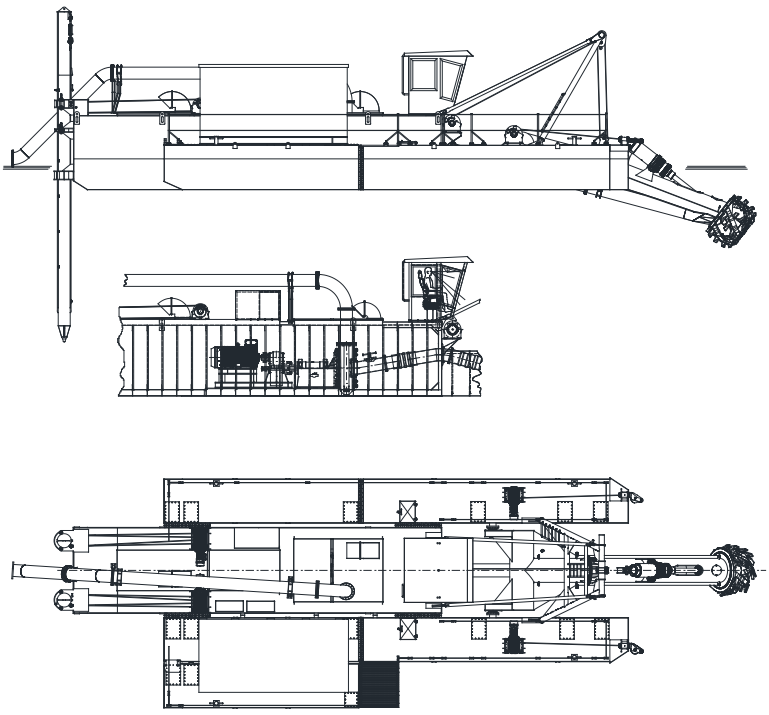
# Eco - Green Dredger

## SGT 400 E



Italdraghe eco-green dredger has been projected in order to be a cutter suction dredger powered by electric motors and realized only with eco-friendly products.



### SUSTAINABILITY

Italdraghe is committed to be environmentally friendly by offering dredgers with a very limited impact on the environment through the use of electric motors and ecological materials.

### VERSATILITY

Italdraghe differentiates from other players in the market for its flexibility given by custom made dredgers designed in order to satisfy specific customer needs.

### QUALITY

Italdraghe masters the production of high-quality dredgers thanks to a deep know-how and expertise of the dredging industry developed over a more than 70 years' experience in the sector.

### EFFICIENCY

Thanks to its exceptional pumping rate, low maintenance costs and low cost per cubic meter, Italdraghe can offer its clients highly efficient dredgers.

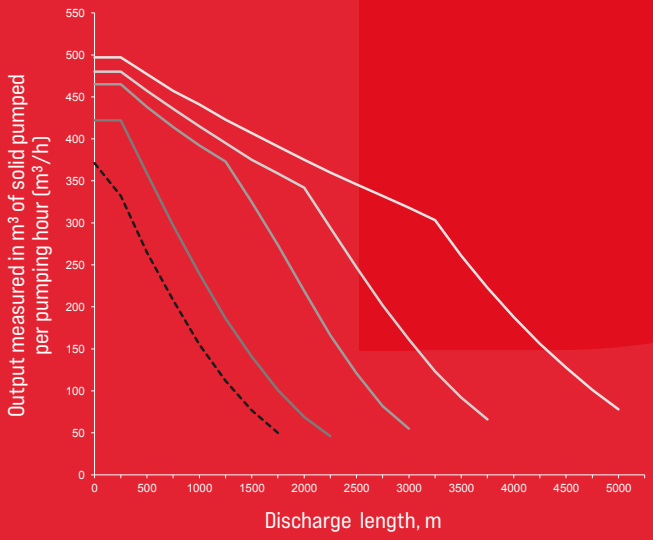
| GENERAL INFORMATION | |
|---|---|
| Overall length with ladder raised | 25,44 m |
| Length at waterline | 18,86 m |
| Width | 7,75 m |
| Average working draught | 0,70 m |
| Dredging depth | 7,50 m |
| Max capacity in mixture | 3000 m³/h |
| Onboard transformer | |
| **MOTOR** | |
| Electric dredging pump power | 500 kW |
| **DREDGING PUMP** | |
| Italdraghe PD 400R | |
| Suction diameter | 400 mm |
| Discharge diameter | 400 mm |
| **CUTTER** | |
| Italdraghe D1450 - Electric driven | |
| Electric cutter head power | 75 kW |
| Max speed | 27 rpm |
| Diameter | 1480 mm |
| **ELECTRIC WINCHES** | |
| 2 swing winches | |
| Maximum speed | 15 m/min |
| First layer pull | 4 t |
| Ladder raising winch | |
| Maximum speed | 15 m/min |
| First layer pull | 4 t |
| **SPUDS** | |
| 2 spuds moved by electric winch | |
| Length, approx | 11,20 m |
| Diameter | 406 mm |
| Weight, approx | 1950 kg/each |
| **ELECTRIC SYSTEM** | |
| Power supply from onshore | |
| 1 dry transformer | |
| Inverter for starting and main engine adjustment | |
| Inverter for cutter motor adjustment | |

## MAIN CHARACTERISTICS

- Available custom made in order to satisfy the specific customer requests
- Dismountable and transportable by road, rail or sea
- Easy and fast assembly and dismounting
- On site operator at delivery time for mounting and testing the dredger
- Moved only by electric motors
- Environmental friendly dredger
- No use of lubricant - if any of vegetal origin
- Only paints for food use
- Low maintenance costs
- Exceptional rate of pumping power
- Easy to operate by a single person from the control cabin
- Large engine room that enables the operator to perform maintenance in security and comfort
- Spare parts available from stock
- Lifetime technical support from the company

## ADDITIONAL FEATURES

- Spud carriage installation
- Anchor booms (enlarged side pontoons)
- Swivel bend
- Discharge and vacuum-relief valve
- Positioning system
- Increased dredging depth
- Increased discharge pipeline length/diameter
- Control cabin placed on dampers to improve comfort and reduce noise
- Air conditioning
- Wide range of services and optional equipment available - pipelines, boosters and work boats
- In loco operators' training
- Production measuring
- More options are available on request




| CURVE | MATERIAL TYPE | GRAIN SIZE | SPECIFIC DENSITY |
|---|---|---|---|
| ——— | Fine sand | 0,10 mm | 1,90 t/m³ |
| ——— | Medium sand | 0,24 mm | 1,95 t/m³ |
| ——— | Coarse sand | 0,44 mm | 2,00 t/m³ |
| ——— | Coarse sand + gravel | 1,30 mm | 2,10 t/m³ |
| ····· | Gravel | 7,00 mm | 2,20 t/m³ |

The curves represented in the graph indicate the maximum output. Please note that to calculate the effective output, they have to be adjusted according to the type of material to be pumped and the specific working conditions.


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