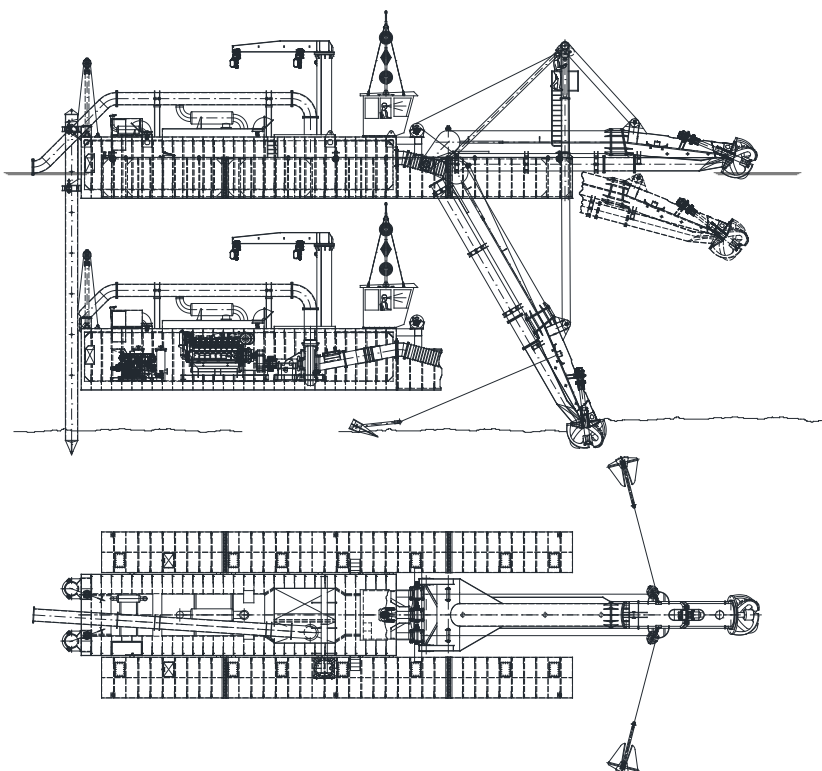


# Cutter Suction Dredger

## SGT 500



Italdraghe is specialized in manufacturing cutter suction dredgers, dredging systems with deep water submersible pumps, floating and onshore booster stations.



### 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 60 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.

### MAIN DIMENSIONS

Overall length, ladder raised	33,50 m
Length over pontoons	23,00 m
Overall width	7,16 m
Main pontoon	13x3,95x2,50 m
Side pontoons	12x1,50x1,75 m
Maximum standard dredging depth	14 m
Average draught, approx	1 m
Suction diameter	500 mm
Delivery diameter	500 mm

### MAIN DIESEL ENGINE

Caterpillar 3512C	
Continuous power at rpm	955 kW @ 1600 rpm

### AUXILIARY ENGINE

Caterpillar C9.3	
Power at rpm	275 kW @ 1800 rpm

### DREDGING PUMP

Italdraghe SGT 450N

### CUTTER

Power	170 kW
Max speed	30 rpm
Diameter	1600 mm

### LADDER AND SWING WINCHES

First layer pull	9 Tons
Wire diameter	20 mm
Wire length	100 m
Anchor weight	500 kg

### SPUDS

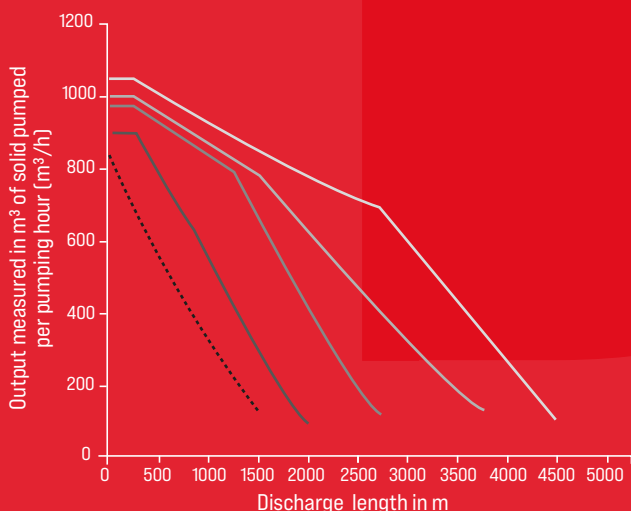
Hydraulically operated jacks	
Diameter	457 mm
Length	18 m
Weight	3,6 Tons

### ELECTRICAL INSTALLATION

30 KVA 230/400 V AC - 50 HZ 24 V DC

### CLASSIFICATION

Bureau Veritas Class I, ✱ Hull • MACH Dredger - no propulsion  
Coastal area



CURVE	MATERIAL TYPE	GRAIN SIZE	SPECIFIC DENSITY
— (top)	Fine sand	0,10 mm	1,90 t/m <sup>3</sup>
—	Medium sand	0,24 mm	1,95 t/m <sup>3</sup>
—	Coarse sand	0,44 mm	2,00 t/m <sup>3</sup>
—	Coarse sand + gravel	1,30 mm	2,10 t/m <sup>3</sup>
- - - - -	Gravel	7,00 mm	2,20 t/m <sup>3</sup>

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.

### MAIN CHARACTERISTICS

- Available custom made in order to satisfy specific customer requests
- Easy to operate by a single person from the control cabin
- Dismountable and transportable by road, rail or sea
- On site operator at delivery time for mounting and testing the dredger
- Moved by diesel or electric engine
- Environmental friendly dredger
- Low maintenance costs
- Exceptional rate of pumping power
- Highly efficient in terms of fuel consumption
- Large engine room that enables the operator to perform maintenance in security and in comfort
- Spare parts available from stock
- Lifetime technical support from the company

### ADDITIONAL FEATURES

- Spud carriage installation
- Anchor booms
- Auger head
- 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
- Galley

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