

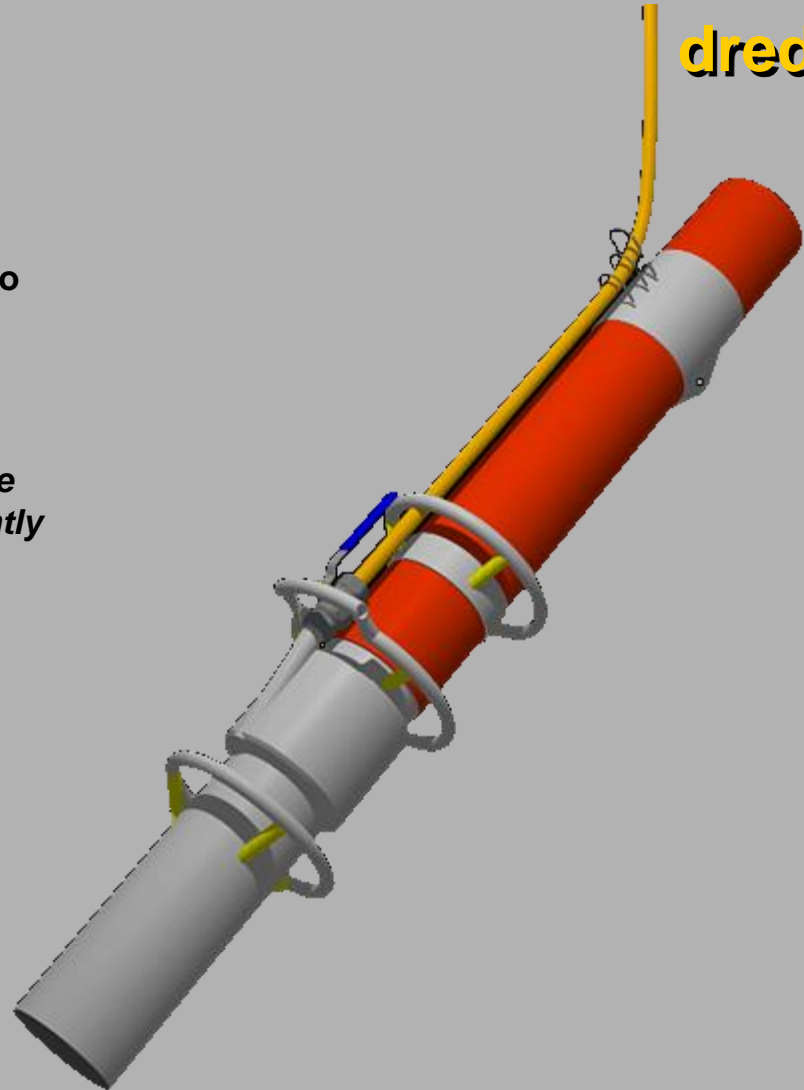


Air lift dredge

Introduction

Efficient and versatile air lift dredge, easy to transport, deploy and operate.
Provide maximum performance out of available air supply.

Improved air injection system, with multiple aerodynamically shaped nozzles significantly increases suction, excavation rate and reduces internal clogging.



more inzenjering



Application

Small and medium scale dredging.

Trenching, leveling, cleaning in:

clay, mud, silt, sand, stones, mixed sediments...

Features

Air injection chamber with multiple aerodynamic nozzles.

Higher excavation rate.

Improved efficiency in shallow water (2 m – 6 ft)

Low mass, adjustable handles & mooring point.

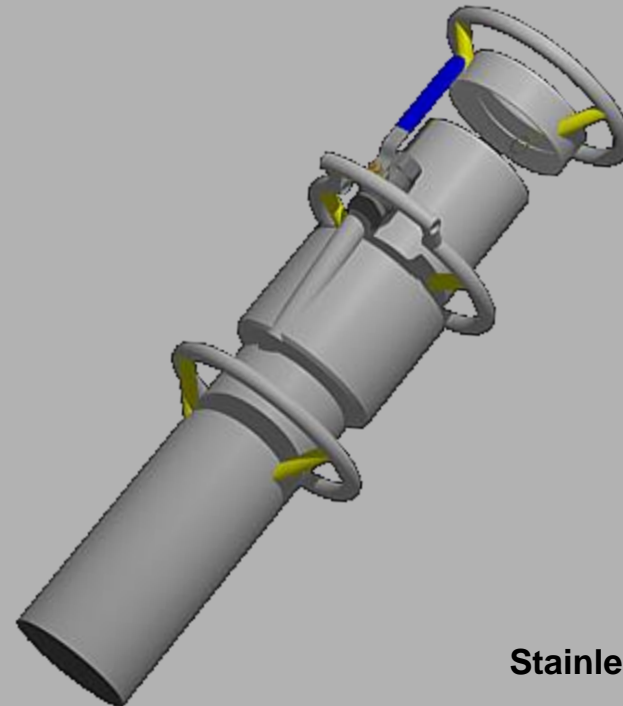
Easier manipulation. Decreased diver fatigue.

Underwater weight at diver end, adjustable by shifting mooring point. *From negative to positive buoyancy. No need to add or remove additional weight.*

Add-on waterjet for sediment fluidization

Water pump throttle remotely operated by diver *when working with waterjet add-on.*

Adaptable for different work conditions and needs

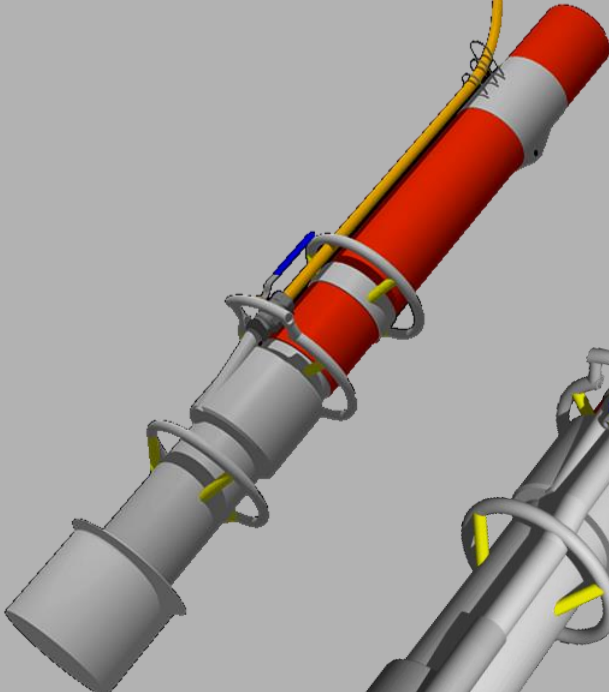


Construction

Stainless steel / plastic

corrosion resistant / light weight

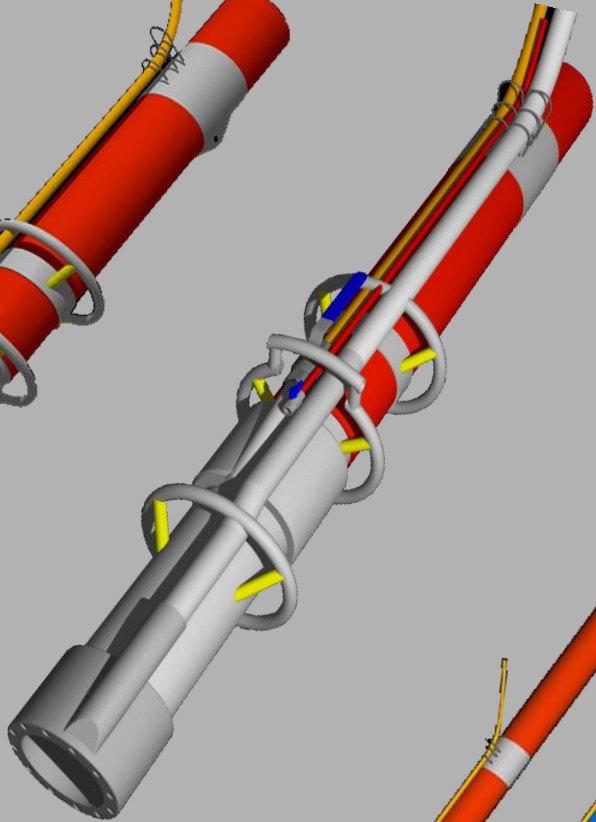
add-on	fluidization in
water jet	Clay, compacted sand...
passive jet	Silt, mud, sand
Basic config.	stone & general purpose



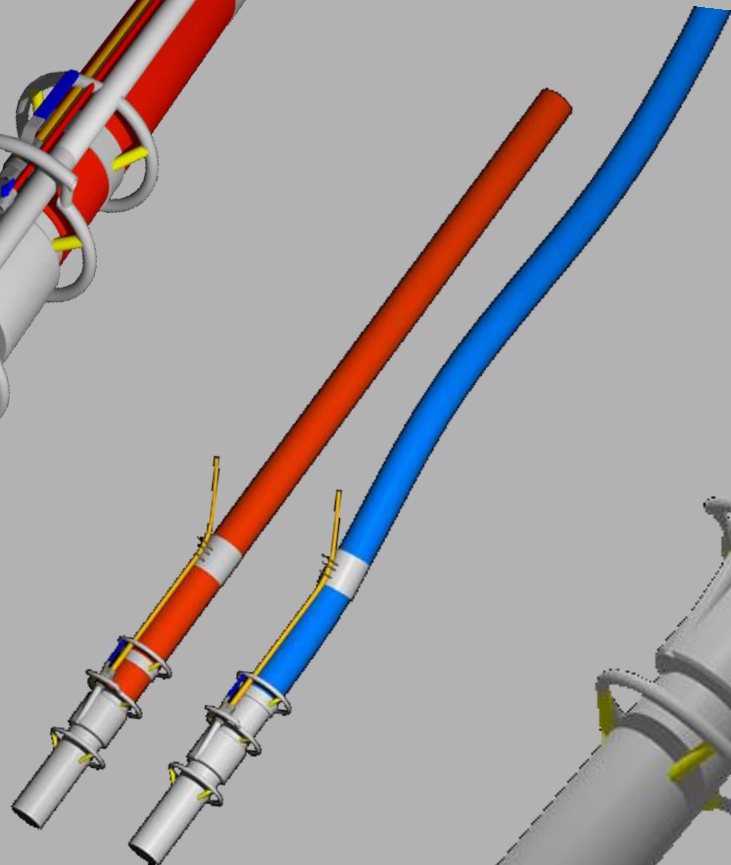
Passive waterjet

water jet

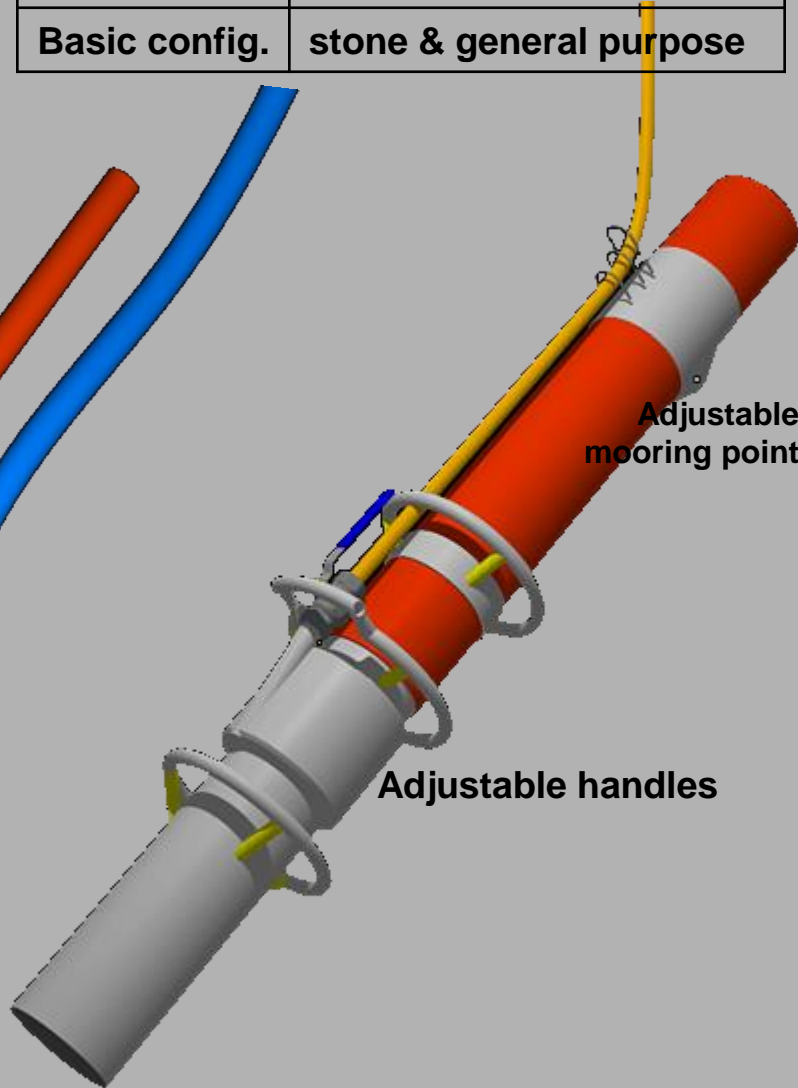
Add-on waterjet increases excavation rate



Discharge pipe
quickly replaceable
variable length
rigid or flexible



Basic configuration



Adjustable handles

Adjustable mooring point

nom dia	max solid	length	weight in air *	weight in water **	air supply #
mm / inch	mm / inch	intake / discharge	kg / lbs	kg / lbs	m ³ min / cfm
125 / 5	117 / 4,6	adjustable	7,8 / 17,3	adjustable	1 - 3 / 35 - 105
160 / 6	144 / 5,7	adjustable	14,2 / 31,3	adjustable	2 - 7 / 70 - 247
200 / 8	190 / 7,5	adjustable	16,2 / 35,3	adjustable	3 - 12 / 106 - 423

* Without plastic discharge pipe

** adjustable by shifting mooring point

Depending on water depth and task at hand

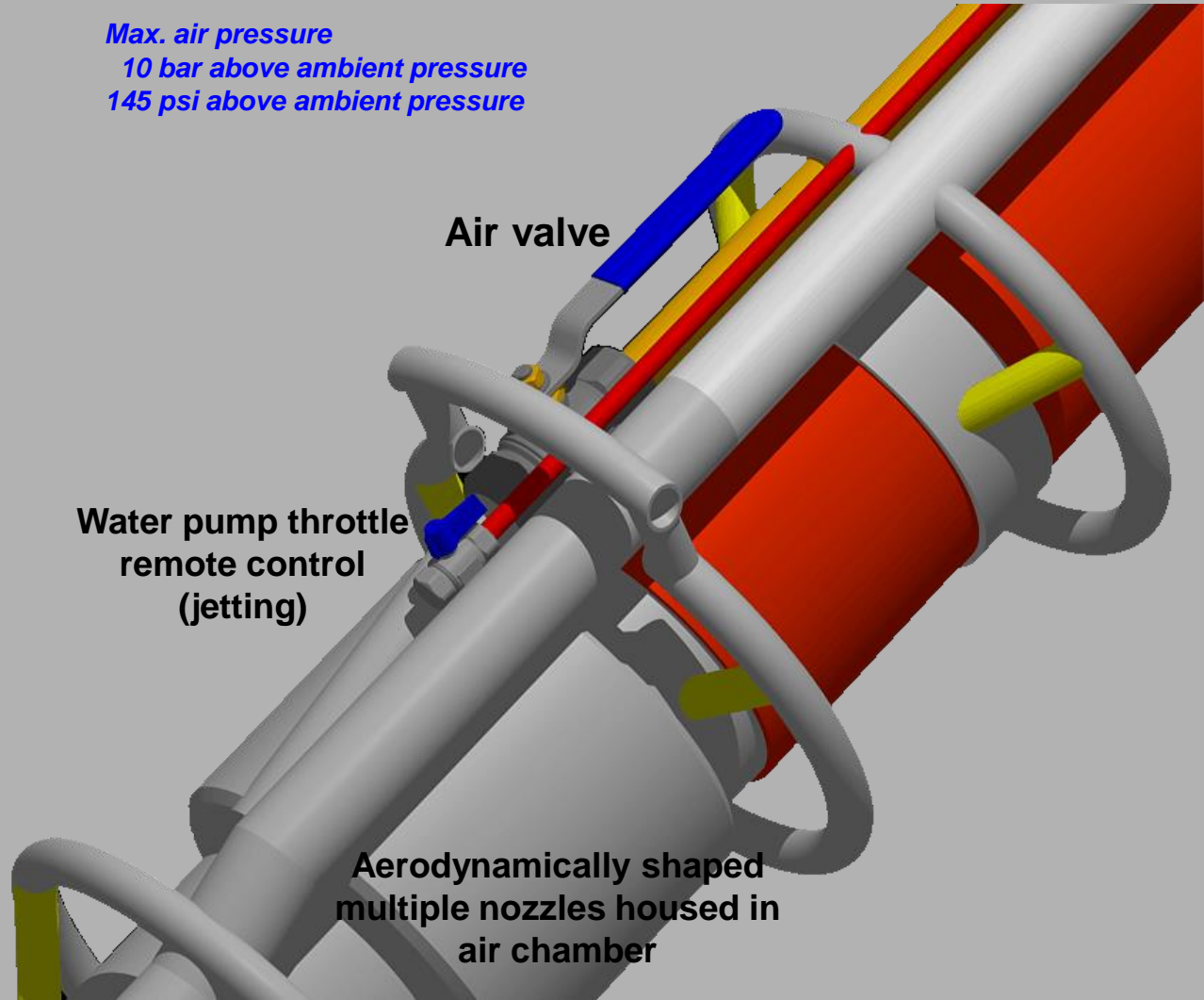
Max. air pressure

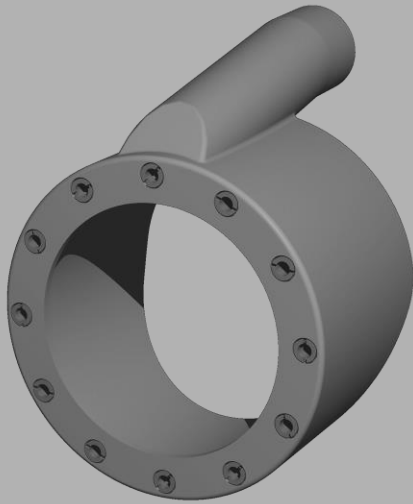
10 bar above ambient pressure

145 psi above ambient pressure

Specifications

Other air lift sizes on request





Waterjet add-on

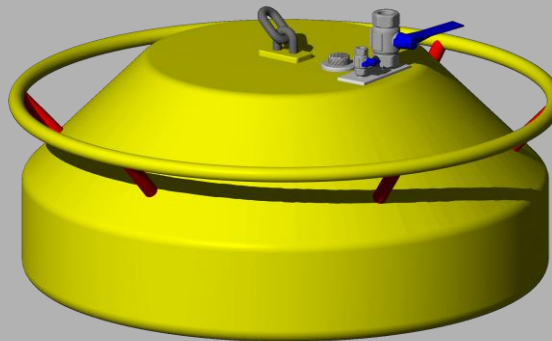
Significantly increase dredging speed in all sediment types.

Interchangeable nozzles to enable:

- Wide range of water pumps to be used.
- Pressure / flow adjustment for jetting in different sediments.
- Adjustable jetting pattern

Airlift anchor

Weight: 60 kg / 132 lbs
inflatable to neutral buoyancy
for easy re position by diver
Use air from dredge air supply



Airlift size

125 mm	5"
150 mm	6"
200 mm	8"
250 mm	10"
Other size at request	

Max solid size all dredges
12 mm / 1/2" less
than nominal diameter



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