



Air lift dredge system

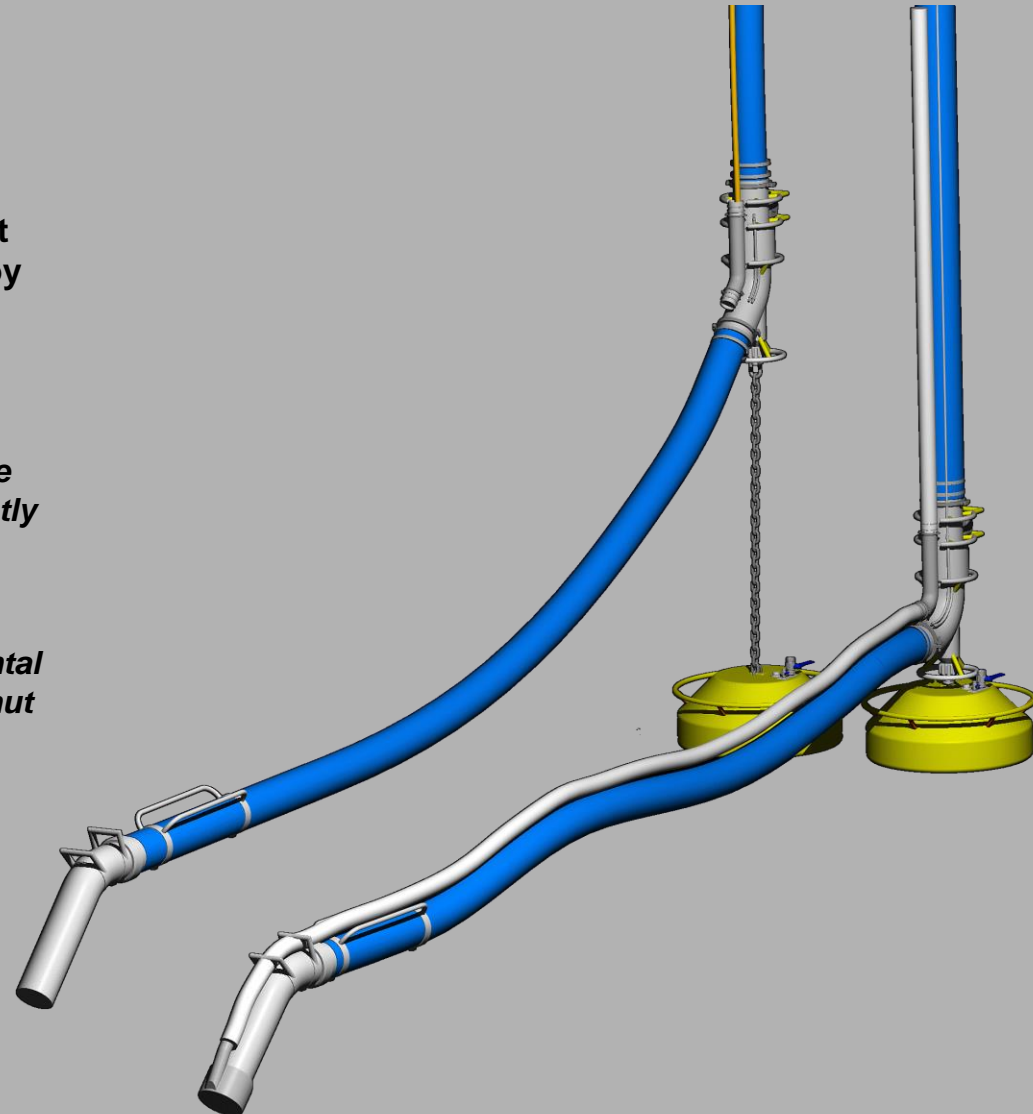
Introduction

Efficient and versatile, heavy duty air lift dredge system, 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.

Safety air shut off system prevents accidental airlift refloating, if diver do not manually shut off air supply when blockage occurs.



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Application

Medium and large scale dredging

Trenching, leveling, cleaning in:

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

Long distance material discharge

Dredging under overhead obstacles

Dredging in extremely shallow water – less than 50 cm (2 feet) *

* Injection chamber positioned in 2 m+ (6 feet+) water depth

Features

Air injection: chamber with multiple aerodynamic nozzles

- Higher excavation rate.

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

Air inlet valve and water jet pump remotely controlled by diver

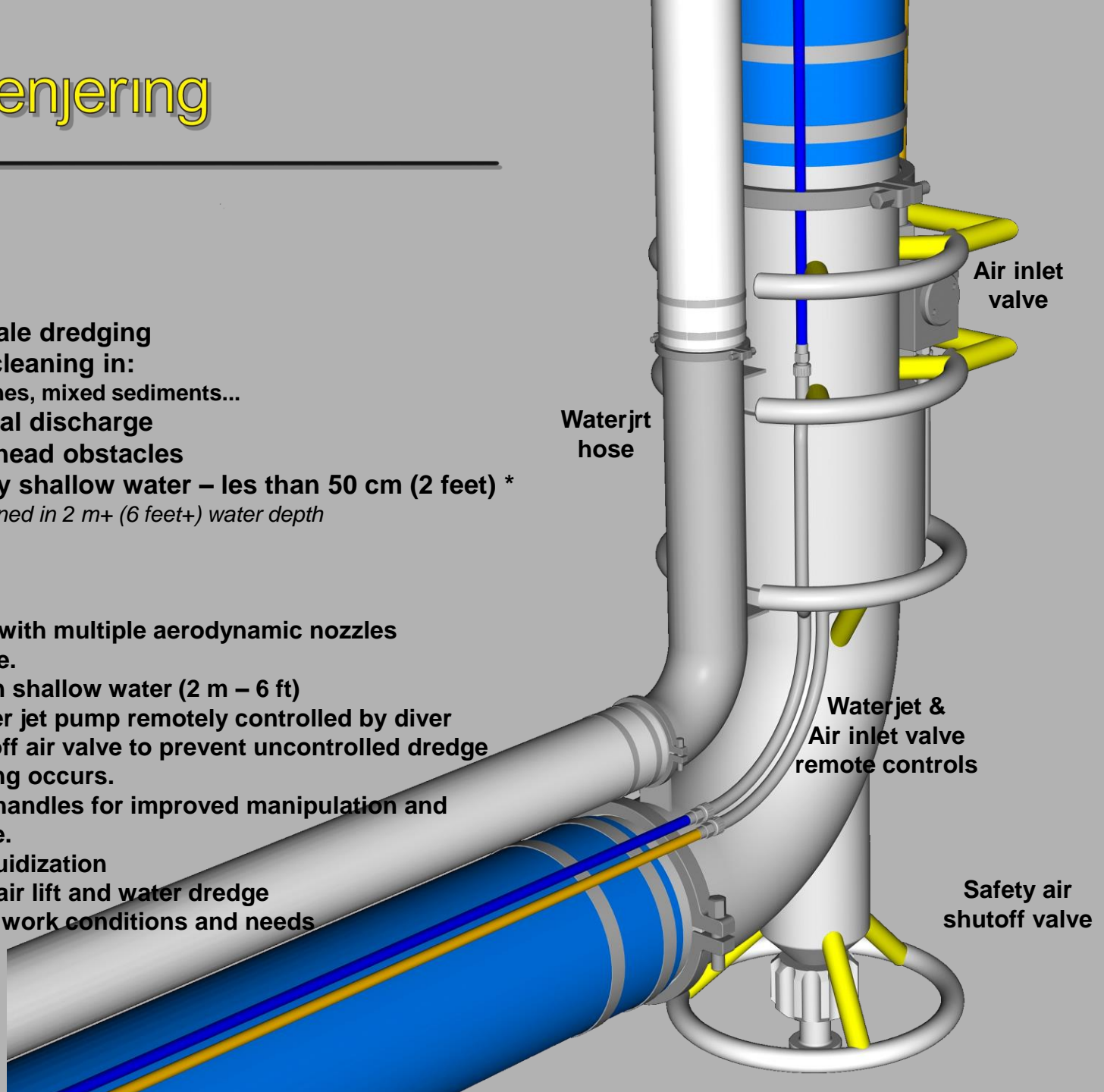
Automatic safety shutoff air valve to prevent uncontrolled dredge surfacing when clogging occurs.

Low mass, adjustable handles for improved manipulation and decreased diver fatigue.

Add-on for sediment fluidization

Compatible parts with air lift and water dredge

Adaptable for different work conditions and needs



Specifications

Dredge diameter 125 / 160 / 200 / 250 mm.
 Intake / discharge pipe length adjustable

Power supply:
 Air compressor
 capacity 2–14 m³/min (70–494 cfm)
Depending on airlift diameter, depth and task

Max. air pressure
 10 bar above ambient pressure
 145 psi above ambient pressure

Removal capacity up to 140+ m³ (183+ yd³) / hour*

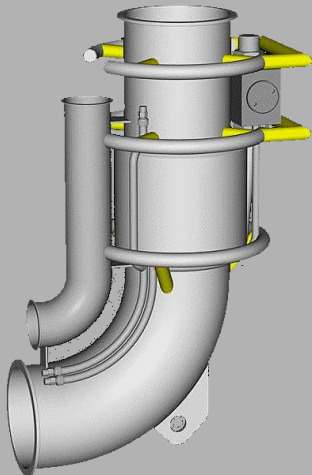
All models:
 Multiple high performance air nozzles
 (0,99 discharge coefficient)
 High efficiency in shallow water (2 m / 6 ft)

Diver remote operated air supply valve - standard
Automatic safety air shut off valve - optional.
Waterjet with remote water pump control - optional.

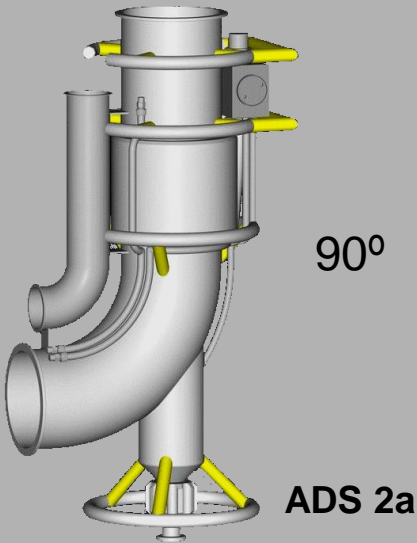
* dependent on dredge handling and sediment type,
 based on 10% solids

Exact specification according to your request

Other air lift sizes and specification on request

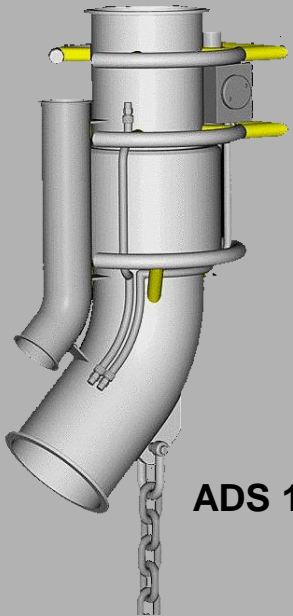


ADS 2

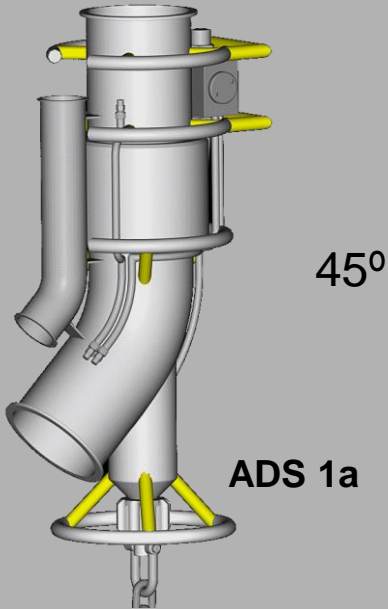


90°

ADS 2a



ADS 1

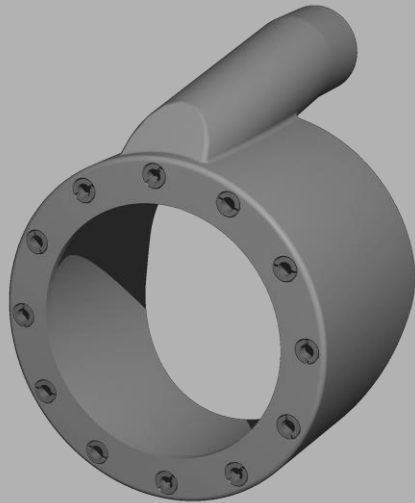


45°

ADS 1a

Without safety
 air shut off system

With safety
 air shut off system

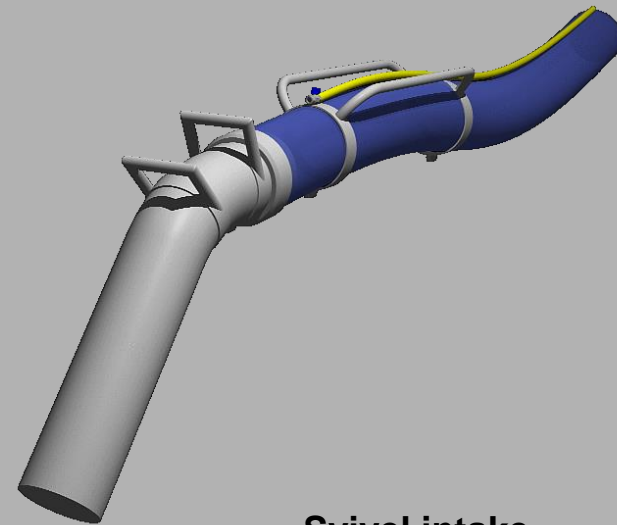


Waterjet add-on

Significantly increase dredging speed in all sediment types.

Interchangeable nozzles enable:

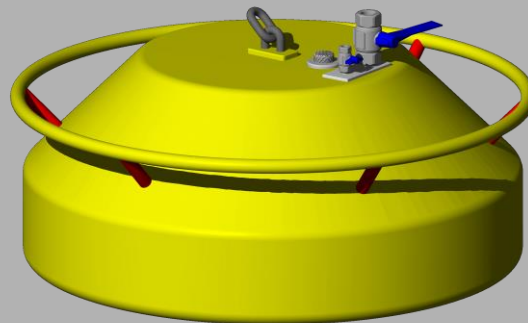
- Wide range of water pumps to be used.
- Pressure / flow adjustment for jetting in different sediments.
- Adjustable jetting pattern



Swivel intake

Airlift anchor

Weight (optional):
60 / 100 / 150 kg
132 / 220 / 330 lbs



inflatable to neutral buoyancy for easy re position by diver
use air from dredge air supply

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