

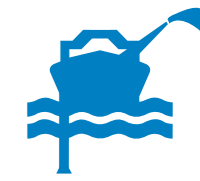
**discover the  
world specialist in  
hydraulic systems for dredging**



**When it comes to hydraulic systems or components on dredgers, Hycom provides appropriate solutions that focus on reliability and durability. A great many ships crossing the oceans of this world are fitted with our hydraulic systems and components. Hycom provides a total package from engineering, power pack, manifolds, piping and cylinders to complete system installation and start-up.**

Hycom's all-round engineering experience and practical know how of hydraulic components and systems have gone into the development of various dredging applications. In the dredging industry Hycom is considered a trusted supplier of quality systems and components as well as a sparring partner for our customers. We specialize in large, complex installations, mostly built under the supervision of reputable classification agencies such as Bureau Veritas, Lloyds Register, GL, RINA and others.

As most of the ships are built at shipyards around the world, Hycom is used to working with local working parties who are subcontracted by the shipyard. In those cases Hycom is often requested to supervise those jobs so that quality is guaranteed. We understand the issues our customers deal with, we are flexible and easily accessible. Let our experience and knowledge work for you!



Trailing  
suction hopper  
dredgers



## Trailing suction hopper dredgers

Trailing suction hopper dredgers (TSHD) are ideal for hydraulic system applications. Often the bottom and upper doors, suction pipe gantries, swell compensators, overflow, sluice valves and winches are driven hydraulically. With more than 30 years of experience Hycom has developed special techniques for all of these applications. Thanks to engineering experience and practical knowhow of hydraulic components and systems, Hycom can deliver custom-made solutions.





# Cutter suction dredgers

As far as hydraulic applications are concerned the cutter dredger is an interesting vessel. The dredger moves forwards on spud poles and sideways by means of anchor ropes. Spud poles are moved vertically and horizontally by either hydraulic cylinders or winches. Also for the ladder winch, foreside winch, anchor boom winch and christmas tree winches hydraulic motors are used. In many cases the cutter is driven by low speed hydraulic motors that are suitable for underwater operation. Hycom designs and supplies the various systems outlined above, both complete on board and as packages.



Cutter suction dredgers



# Backhoe dredgers

Backhoe dredgers can be made by mounting an excavator on a pontoon. For lowering and hoisting the spuds, winches or spud hoist cylinders are used. The pontoon can move forward and backwards on the spud carrier. The hydraulic system for driving the spud poles can also be used as an emergency system for the excavator. Hycom can supply these systems in accordance with all current classification specifications.





## Split hopper barges

Hycom has developed the 3-S split system for application on split type dredgers. Port and starboard halves are hinged at the deck and operated by hydraulic cylinders. The Hycom 3-S split system secures a constant opening speed, independent of specific gravity of the spoil. All safety features like overload protection, leak proof locking and emergency operation are standard. Hycom has a lot of experience with split type dredgers up to a capacity of 4500m<sup>3</sup>.



Split hopper barges



# Stone dumping and fallpipe vessels

Stone dumping vessels transport and dump rocks of various sizes for offshore and coastal protection applications. Stone dumping vessels sail to their destination, where the rocks are dumped overboard through shovels and flaps. Hycom provides the cylinders and hydraulic systems for these applications.

Fallpipe vessels are used in deep water. The rocks are dumped on the seabed through a long heave compensated pipe. Hycom has experience in designing and fabricating the hydraulic system for the fall pipe motion control.





Hycom takes her responsibilities seriously and stands for quality. Quality that is reflected in our ISO9001:2008 and EN9100 revision B quality certificate.





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