



Marin provides bespoke subsea tooling solutions for oil & gas, renewable energy, and decommissioning sectors. Our purpose-built patented technology is designed and manufactured in-house and can be deployed for commissioning/decommissioning scopes of work, inspection, repair, and maintenance.

Our unique tooling portfolio includes a 'One Stop Shop Solution' for all decommissioning requirements. We offer Excavation Solutions, Shearing Solutions, and Recovery Solutions from a single mobilisation/demobilisation requiring minimum crew and deck space. Our specialist EVO™ Jetprop systems are 100% water driven which provides our clients with a sensitive solution to environmental concerns. The EVO™ Jetprop systems are capable of safely operating in unlimited water depths, and their low decibel rating makes them an ideal solution for working in areas with sensitive marine life

MFE EXCAVATION RANGE OF SOLUTIONS

https://www.youtube.com/watch?v=Dn9b_nq69DI



EVO 30" SHEAR – 90 SECOND CUT

<https://www.youtube.com/watch?v=rIRIQY3FJUJ>



MRS GRAB

<https://www.youtube.com/watch?v=YNM1yBfz2LQ>



PIPE/GROUT BAG GRAB

<https://www.youtube.com/watch?v=VfykW0AIGaU>



MATTRESS RECOVERY GRAB

<https://www.youtube.com/watch?v=cZYtNaHHKOU>



Marin are the proprietary pioneers of HMFE (Hydrodynamic Mass Flow Excavation) technology. Sills and Stroud developed and enhanced the EVO™ range of excavators which provides our clients cutting edge subsea technology. Marin offers a wide range of options that includes EVO™ 50, EVO™ 150, EVO™ 250, EVO™ 300, EVO™ 750, and the EVO™ 250,000 HMFE units. Our unique in-house developed EVO™ BTE80 is a ROV mounted and operated balanced thrust excavator which requires minimal deck space. Marin also provides claycutting technology as well as precision cutting using the jetting effects of the v-jet/mono-jet systems. Marin's vast portfolio and service capabilities are not available via any other service providers in the marketplace.

CONTROLLED FLOW EXCAVATION SYSTEMS:

Marin provides our clients the entire EVO™ range of Hydrodynamic Mass Flow Excavation systems which have evolved from the initial concept which were established by Sills and Stroud over 35 years ago. Through the patented technology, Marin can apply the excavation techniques refined from the extensive experience gained throughout Marin's years of global operations. Marin utilises these techniques to excavate and expose subsea assets in preparation for decommissioning activities. With Marin's portfolio of Hydrodynamic Mass Flow Excavators including the 100% sea water operated Jetprop systems, water depth is no restriction for our tooling applications which enables us to provide tooling packages which truly push the boundaries of the subsea tooling market

SUBSEA SHEAR SYSTEMS:

A cold cut guillotine shear which is capable of cutting up to 30" targets is included in Marin's portfolio of subsea tooling. The shear can be utilised for topside and subsea decommissioning of assets. We have the ability to modify the shear to accommodate ROV hot stab capability which can be operated in water depths of approximately 1,000m.

The shearing system deployment configuration allows the system to perform cuts at variable angles dependent on accessibility to the cut location. The EVO™ Shear has an operating pressure of 3,000psi which gives it an achievable cutting time of 90 seconds with a total cutting force of circa 780te.

The EVO™ Shear is complemented with interchangeable gauges that can be fitted into the shear gate assembly to allow for cutting of various target ODs. The gate mechanism on the shearing system allows for the targets to be encapsulated within the mouth of the shear which stabilises the target pipeline in the gauge set. The cylinders for the blade to operate can be charged for performing the cut once the target has been secured in the gauge.

The hardened blade patented design allows for increased efficiency on performing cuts on targets with less downtime compared with the conventional diamond wire cutters and parrot beak systems readily used within the marketplace. The patented blade design is configured in such a way that the point on the blade punctures the target allowing the structural integrity of the target to rapidly decrease allowing the follow-on edge of the blade to guillotine the target at the designated cut location.

SUBSEA GRAB SYSTEMS:

Marin's subsea grab systems are engineered to ensure that we can provide a complete fleet of grabs to aid our clients in the decommissioning market. The scalable systems allow for a range of applications which includes boulder removal and relocation services, grout bag removal, subsea debris removal, pipeline recovery, and concrete mattress recovery. The grab systems can be fitted with a ROV hot stab block enabling the systems to be ROV operated opposed to surface powered. The systems are crane deployable and have ROV handles on the recovery systems to allow positioning by the ROV prior to commencing grab operations. The tips and the tines on the series of grab units Marin offers are fully interchangeable depending on the work scope and the targets that are being recovered.

The option of mounting sonar systems as well as cameras onto the grabs is possible allowing for real time imaging of the targets being recovered. Based on previous project experience, Marin estimates on average approximately 5-8 minutes to position over the target location and capture and raise the target to a safe altitude for the vessel to move. The functioning times of Marin's larger grabs, the MDRS and MMRS, is approximately 30-60 seconds from fully open to fully closed.