

HYDRAULIC UNDERWATER PROPELLER POLISHING TOOL



The Synergy Hydraulic Underwater Propeller Polishing Tool is a high-performance commercial diving instrument engineered for subsea hull cleaning, marine growth removal, and propeller polishing operations.

Constructed with marine-grade 316 stainless steel valving, rigid hydraulic fluid supply lines, and a heavy-duty hydraulic orbital motor, this tool provides optimum torque and operational reliability under demanding underwater conditions.

TECHNICAL SPECIFICATIONS

Component Parameter	Specification
Primary Drive Unit	Danfoss Hydraulic Orbital Motor Assembly
Flow Control Valve	1/2" SS316 Stainless Steel Ball Valve (1000 WOG Rated)
Hydraulic Connections	ISO 7241 Quick Disconnect Male & Female Couplings
Supply Tube Construction	Dual Rigid Stainless Steel Hydraulic Lines with Sealed Compression Joints
Base Disk & Frame	Heavy-Duty Synthetic Composite Base Plate with Stainless Flange Mounts
Cleaning Medium	Multi-Strand Steel Wire Tufts with Protective Crimp Sleeves
Stabilization Members	Stainless Steel Angle Deflector Runners / Standoffs
Operating Hydraulic Limits	To be confirmed (per diver hydraulic power unit configuration)

KEY FEATURES & ENGINEERING DETAILS

Heavy-Duty Hydraulic Motor

Driven by a high-torque Danfoss hydraulic orbital drive to maintain consistent rotational speed during heavy bio-fouling removal.

SS316 Stainless Steel Valving

Integrated 1/2" SS316 ball valve with explicit status lever for rapid underwater hydraulic power isolation and diver safety control.

ISO Quick-Disconnect Couplers

Equipped with heavy-duty ISO 7241 hydraulic couplings for seamless connection to commercial diving power packs.

Multi-Tuft Wire Polishing Head

Features high-tensile steel wire strands with protective sleeve tips for efficient polishing without gouging base metals.

OPERATING & SUBSEA GUIDELINES

Commercial Diving Safety Notice: Ensure all hydraulic supply lines are flushed and purged prior to subsea deployment. The red-handled 1/2" SS316 ball valve must remain open until the tool is positioned against the propeller surface. Always operate within recommended hydraulic flow and pressure thresholds to prevent motor thermal overload.



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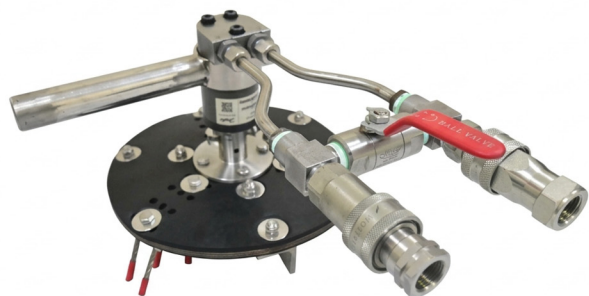
SYNERGY
INNOVATIVE DIVING EQUIPMENT TRADING LLC

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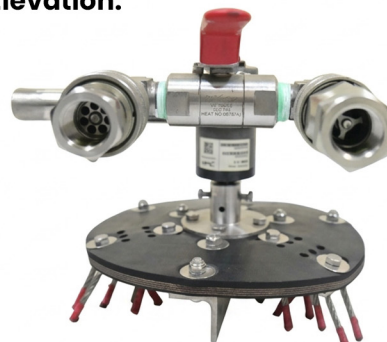


Isometric View:



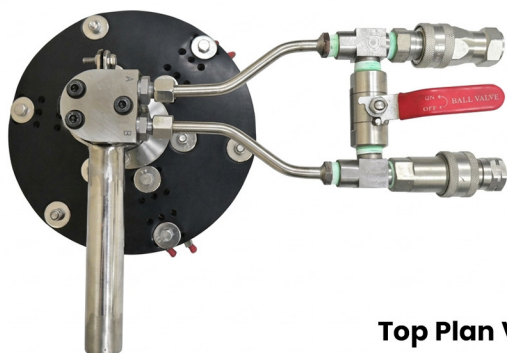
Handle, Valve & Hydraulic Supply

Front Elevation:



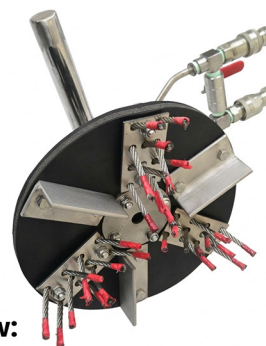
Valve Assembly & Quick Disconnects

Top Plan View:



Dual Line Geometry & Handle Mount

Underside View:



Wire Tufts & Deflection Runners



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