



PRIME SHIELD

TECHNICAL SERVICES LLC · DUBAI, UAE

COMPANY PROFILE

ROBOTIC UHP HYDROBLASTING · SANDBLASTING · COATING · EQUIPMENT SUPPLY

Robotic surface preparation for **ships and tanks.**

UAE contractor running its own fleet of crawler robots and UHP pumps in shipyards, tank farms and plants across the GCC — and exclusive dealer for the same equipment.

9 ROBOTS

2,800 BAR · WJ-2

SA 2½

ZONE 2 OPTION

24/7

ISO 9001 · 14001 · 45001

We operate it. We trust it. We supply it.

PS-MKT-CAP-001 · Rev 5 · 23 Oct 2026

Contractor. Operator. Dealer.

One accountable team.

Prime Shield Technical Services LLC is a Dubai-based surface-preparation and coating contractor built around robotics. Our own crews run our own robots and UHP pumps, day and night, on ship hulls, storage tanks and plant steelwork. As exclusive dealer for AKA Robotics and Henan Boy (Megajet), we also supply, test, train and service the same equipment for owners who want to run it themselves.

9

robots — 3 hydro · 3 sand ·
3 paint

2,800

bar UHP water — WJ-2
standard

≈ 3×

area per pump vs manual
lances

24/7

two shifts, standby robot
on site

Services

Robotic UHP hydroblasting

WJ-1 to WJ-4 (SSPC-SP WJ / NACE). Hull side shell and flat bottom, tank shells inside and out, roofs. No grit, no dust.

Robotic abrasive blasting

Sa 2½, 75–100 µm profile for tank linings and coating systems that need an anchor profile.

Robotic & airless coating

Epoxy, glass-flake, zinc and PU systems to the paint maker's specification, DFT recorded per area.

Manual UHP & blasting

Crews and kits for edges, stiffeners, nozzles, rails and areas robots cannot reach; swing-arm head for obstacles.

Equipment supply

Exclusive dealer: AKA Robotics crawlers and Megajet UHP pumps (500–2,800 bar, Zone II units).

After-sales

Testing, operator training, repairs and spare parts from our Sharjah workshop and warehouse.

Sectors

SHIPYARDS & SHIP REPAIR

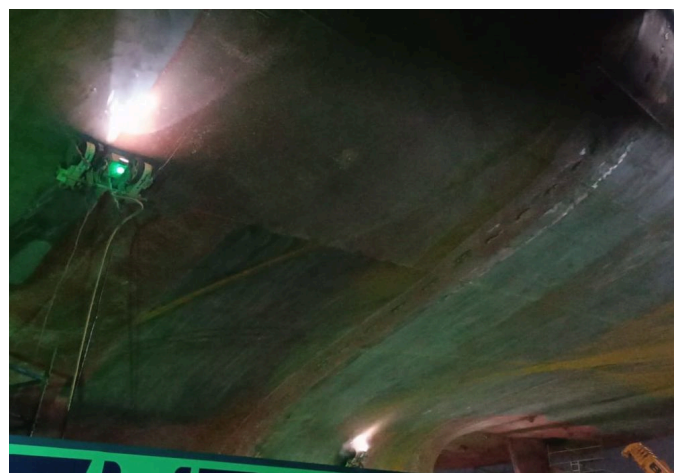
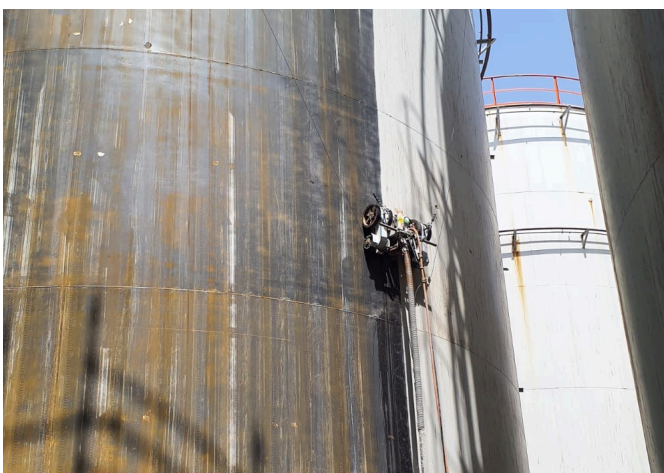
OFFSHORE SUPPORT VESSELS

TANK FARMS & TERMINALS

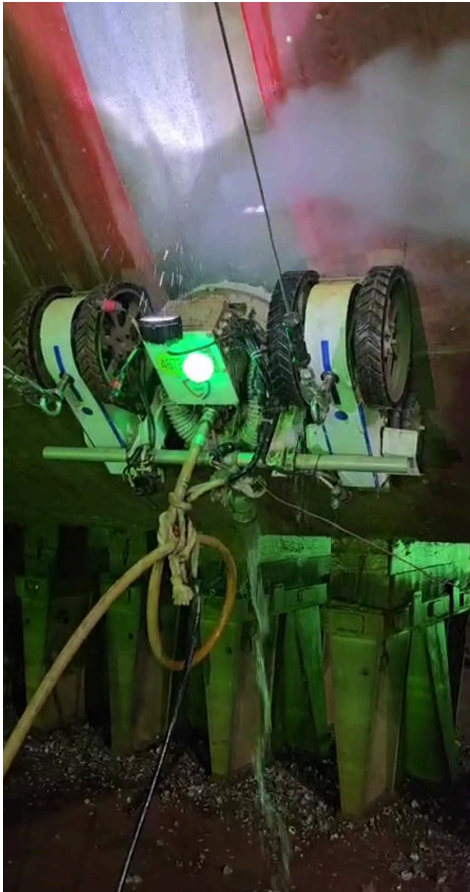
REFINERIES & LNG

WATER & POWER PLANTS

STEEL STRUCTURES



The kit we run. The kit we sell.



Equipment	Key data
AKA WallHiker crawler robots — 3 hydroblasting, 3 sandblasting, 3 painting	Permanent-magnet adhesion (holds at zero power); up to 3,000 bar head; IP66; EX-02 Zone 2 explosion-proof option; swing-arm head for obstacles
Megajet HB40K55L UHP pump (exclusive dealer)	2,800 bar / 40,000 psi · 56–58 L/min · Weichai diesel · containerised · 16-hour continuous duty
Own UHP pump fleet	2,800 bar units with our own operators — for our jobs and for hire
Manual equipment	UHP lances, blast pots, aftercoolers, inspected UHP hose assemblies

Output per pump, 12-hour shift, WJ-2

Manual lances · 2 guns	≈ 150 m ²
Robot · 30 L/min pump	≈ 250 m ²
Robot · 56 L/min pump	≈ 500 m ²

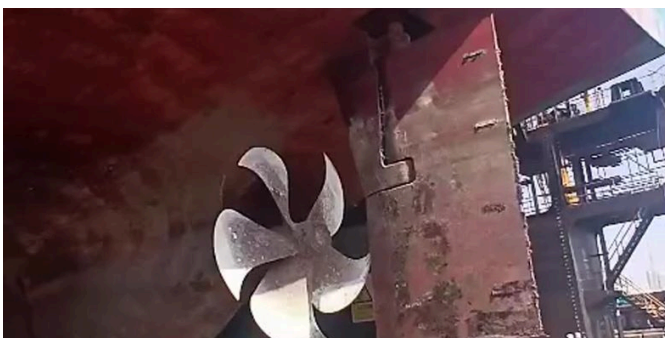
Prime Shield field data, ≈ 10 productive hours per shift.

Fail-safe by design

Category-0 E-stop on robot, remote and ground station · power loss: robot stops, output cuts, magnets hold · comms-loss safe mode · output only when adhered and enabled · overload / overheat protective stop · hose auto shut-off.

Innovation — in development with AKA Robotics

Hull-aware autopilot: the vessel's lines plan, shell expansion or a 3D scan becomes a digital surface map; AI video marks obstacles and the robot plans its own lanes from a zero point at midship.



SAME STERN · BEFORE AND AFTER ROBOTIC HYDROBLASTING TO WJ-2

Proven on hulls, tanks and plants.

Date	Client type	Asset · scope
Oct 2026	Abu Dhabi, UAE	Vessel in floating dock — full hull robotic hydroblasting to WJ-2, 24/7
Aug–Sep 2026	Abu Dhabi, UAE	Container ship — robotic and manual hydroblasting
Aug 2026	Marine contractor, Abu Dhabi	Landing craft — robotic hydroblasting, swing-arm head on the sides
Jun–Jul 2026	Abu Dhabi, UAE	Offshore support vessel (oil & gas) — robotic hydroblasting
Apr–May 2026	Tank terminal, Sharjah	Storage tanks , inside and out — robotic hydroblasting to WJ-2
Demo	Tank farm, Fujairah	Storage tank — robotic sandblasting demonstration
Feb 2026	Abu Dhabi, UAE	Ro-Ro ferry — robotic hydroblasting
Nov 2025	Utility, Dubai	Water treatment plant — surface preparation
Oct–Nov 2025	Shipyards, Dubai	Ship-lift rail system — manual UHP hydroblasting

Four vessels for one Abu Dhabi client in 2026. Client letter of appreciation and references available on request.

01 Drawings GA, shell expansion and body lines at PO — real area, real plan.	02 Mobilise Filtered feed tank, pumps, working robots and a standby robot.	03 Blast & log WJ-2 day and night; every shift logged; joint measurement signed.	04 Hand over Surface ready for coating — or coated by our robots.
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CONTACT

Suvas Limbachiya — Chief Operations Officer

+971 52 120 8732

Suvas@primeshieldtec.com

OFFICES

Head office: Office 702, 7th floor, Tameem House, Al Barsha Heights, Dubai, UAE

Workshop & warehouse: Industrial Area 13, Sharjah, UAE

info@primeshieldtec.com

primeshieldtec.com



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