



PRIME SHIELD

TECHNICAL SERVICES LLC · UAE

ADIPEC 2026

2-5 NOV · ADNEC ABU DHABI

ROBOTIC SURFACE PREPARATION & COATING

SURFACE PREP. RE-ENGINEERED.

Robotic UHP hydroblasting, sandblasting and painting for storage tanks, terminals, offshore support vessels and shipyards — delivered by the team that also supplies and services the equipment.

9 ROBOTS

WJ-2 · 2,800 BAR

SA 2½ ROBOTIC BLASTING

ZONE 2 ROBOT OPTION

24/7 OPERATIONS

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

CONTRACTOR. OPERATOR. DEALER. ONE ACCOUNTABLE TEAM.

Prime Shield Technical Services is a UAE surface-preparation and coating contractor built around robotics. We run our own robots and UHP pumps on tank farms, terminals, offshore support vessels and shipyards — and, as exclusive dealer for AKA Robotics and Henan Boy (Megajet), we supply and service the same equipment for owners who want to run it themselves.

WE OPERATE IT. Our crews run the robots every shift, day and night, on live client sites across the UAE.	WE TRUST IT. We only sell equipment we rely on ourselves — field data, not brochure claims.	WE SUPPLY IT. Sales, testing, training, repairs and spares from our Sharjah workshop.
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WJ-2 Standard hydroblast grade	2,800 bar 40,000 psi UHP water	9 robots 3 hydro · 3 sand · 3 paint	ISO 9001 · 14001 · 45001
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FROM BARE STEEL TO **FINAL COAT.**

01 · WJ-2 / WJ-3

ROBOTIC UHP HYDROBLASTING

Coating and rust removal with 2,800 bar water. No grit, no dust, no abrasive waste.

02 · SA 2½

ROBOTIC ABRASIVE BLASTING

Swing-arm and vacuum-recovery blasting robots for tank shells and hulls.

03 · DFT CONTROL

ROBOTIC & AIRLESS PAINTING

Even film build to the paint maker's system, with less overspray at height.

04 · DETAIL WORK

MANUAL UHP & SANDBLASTING

Crews and kits for nozzles, stiffeners, stairways and tight areas.

05 · EXCLUSIVE DEALER

EQUIPMENT SUPPLY

AKA Robotics crawlers and Megajet UHP pumps.

06 · LIFETIME SUPPORT

AFTER-SALES SERVICE

Testing, operator training, repairs and spare parts in the UAE.

SECTORS WE SERVE

**STORAGE
TANKS &
TERMINALS**

**OFFSHORE
SUPPORT
VESSELS**

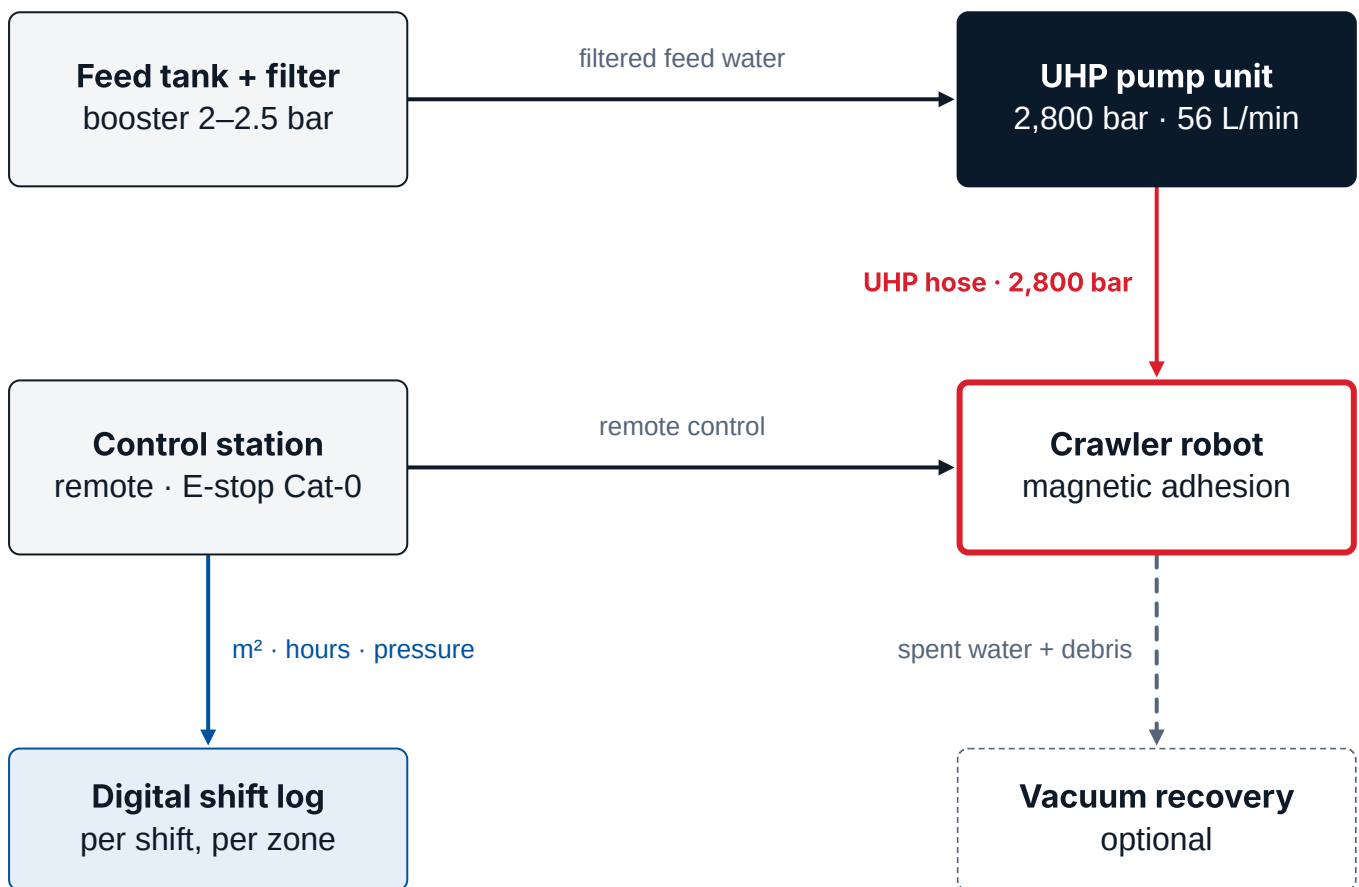
**SHIPS &
SHIPYARDS**

**WATER &
POWER
PLANTS**

**STEEL
STRUCTURES**

ONE SYSTEM. WATER IN, BARE STEEL OUT.

A matched set of feed water, UHP pump, crawler robot and control station — run and logged by our own crew. Pump flow is sized to the robot head, so the robot works at full speed.



AKA WALLHIKER ROBOTS

- Our fleet: 9 robots — 3 hydroblasting · 3 sandblasting · 3 painting
- Up to 3,000 bar hull head (W-06)
- Permanent-magnet adhesion holds on power loss
- Cup-head crawler for open areas, swing-arm around obstacles
- IP66 · dead-man joystick · comms-loss safe mode
- EX-02 Zone 2 explosion-proof option

MEGAJET HB40K55L UHP UNIT

- 2,800 bar / 40,000 psi · 56–58 L/min
- Weichai diesel engine · exclusive dealer
- Heavy-duty container shell for site use
- Built for 16-hour continuous duty
- Supplied, commissioned and serviced by us

THE NEW ERA OF SURFACE PREPARATION

FROM REMOTE CONTROL TO HULL-AWARE AUTONOMY.

We are working with AKA Robotics on the next step: robots that read the structure they work on — from the vessel's own drawings or a 3D scan — and plan their path around curvature and obstacles.

TODAY

OPERATOR-GUIDED ROBOTS

Remote-controlled crawlers with an automatic raster mode inside a set area. Every shift logged: m², hours, pressure.

IN DEVELOPMENT

DIGITAL SURFACE MAP

Lines plan, shell expansion and offset table — or a 3D scan — turned into a work map, with a zero point at midship on the centreline.

NEXT

HULL-AWARE AUTOPILOT

AI video marks obstacles; motor-current feedback and path limits let the robot decide its own route — with fewer operators.

WHAT ROBOTICS ALREADY CHANGES ON SITE

ZERO GRIT AT WJ-2

Water only — no abrasive to buy, contain or dispose of.

LESS WATER & DIESEL PER M²

More area per pump-hour than manual lances at the same grade.

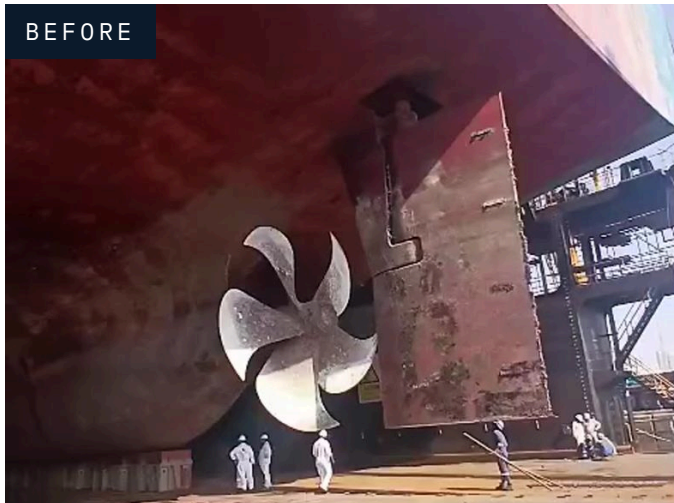
FEWER PEOPLE AT HEIGHT

The robot climbs the shell; the operator stays on the ground.

ZONE 2 READY

Explosion-proof robot option for live terminals and tank farms.

MORE STEEL PER PUMP-HOUR.



AREA PER 12-HOUR SHIFT, ONE UHP PUMP, WJ-2 · PRIME SHIELD FIELD DATA

Manual lances · 2 guns

≈ 150 m²



Robot · 30 L/min pump

≈ 250 m²



Robot · 56 L/min pump

≈ 500 m²

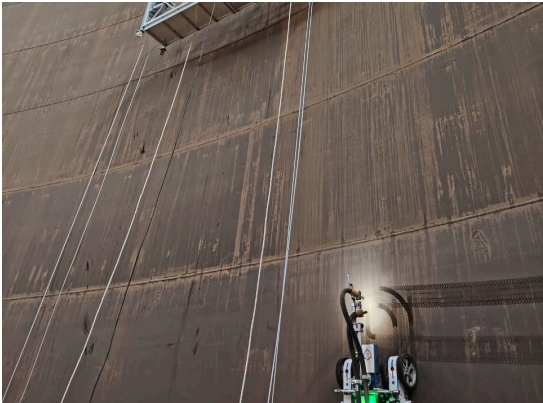


Robot figures assume about 10 productive hours per shift. Best result to date: 2 robots, ≈ 3,000 m² in 5–6 days on a single shift.

FAIL-SAFE BY DESIGN

- ▶ Category-0 E-stop on robot, remote and ground station
- ▶ Comms loss: automatic safe mode
- ▶ Overload and overheat protective stop
- ▶ Power loss: robot stops, output cuts, magnets keep it on the steel
- ▶ Output only when adhered and operator-enabled
- ▶ Hose auto shut-off · multi-step enable at start-up

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

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vessels hydroblasted for one Abu Dhabi client in 2026. **Client letter of appreciation**, October 2026 — available on request.

RUN IT YOURSELF? WE'LL BACK YOU.

AKA ROBOTICS

WallHiker crawler robots for hulls, cargo holds and storage tanks — hydroblasting, sandblasting, vacuum-recovery blasting, painting and Zone 2 explosion-proof models.

HENAN BOY (MEGAJET)

UHP plunger pumps from 500 to 2,800 bar, Zone II units, climbing robots, hull-bottom cleaning trolleys, hoses, nozzles and hydrodemolition kits.

SALES

Supply & sizing

TESTING

Before delivery

TRAINING

Your operators

REPAIRS

Sharjah workshop

SPARES

Stock in UAE



PRIME SHIELD TECHNICAL SERVICES LLC

ISO 9001 · ISO 14001 · ISO 45001

WE OPERATE IT. WE TRUST IT. WE SUPPLY IT.

CALL / WHATSAPP
+971 52 120 8732

WEB
primeshieldtec.com

HEAD OFFICE
Dubai, UAE

EMAIL
info@primeshieldtec.com

SOCIAL
**LinkedIn · Instagram
@primeshieldtechnical**

WORKSHOP & WAREHOUSE
Sharjah Industrial Area



SCAN FOR A QUOTE