



PRIME SHIELD

ADIPEC 2026 · ABU DHABI

2,800 BAR UHP

MAGNETIC DRIVE

WJ-2 · 24/7

ROBOTIC UHP HYDROBLASTING · SANDBLASTING · PAINTING

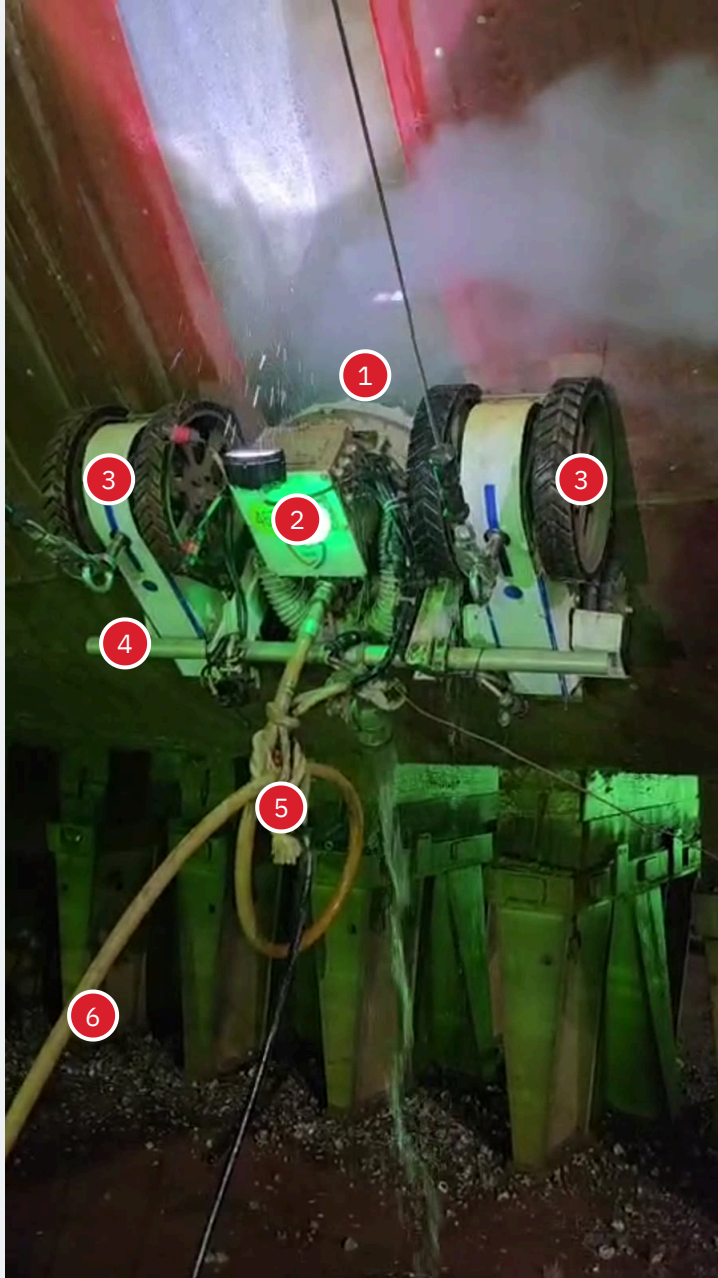
MEET THE MACHINE.

Nine robots that climb steel, strip it to WJ-2 and log every square metre — run by the team that also sells and services them.

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

primeshieldtec.com

ANATOMY OF A HULL ROBOT.



01 BLASTING HEAD

Rotating UHP nozzles at fixed stand-off — the same cleaning energy on every square metre.

02 CONTROL & STATUS LIGHT

Remote control, Category-0 E-stop and a status light visible across the dock.

03 MAGNETIC DRIVE WHEELS

Permanent magnets hold the robot on vertical and overhead steel — even with zero power.

04 FRAME & HANDLING BAR

Rigid frame for placing, moving and recovering the robot safely.

05 SAFETY LINE

Independent fall-arrest line on every job, as standard.

06 UHP HOSE

Inspected 2,800–3,200 bar hose assemblies from the pump unit.

3,000

BAR MAX · W-06
HEAD

IP66

SEALED FOR WATER
& DUST

0 W

NEEDED TO STAY ON
STEEL

Zone 2

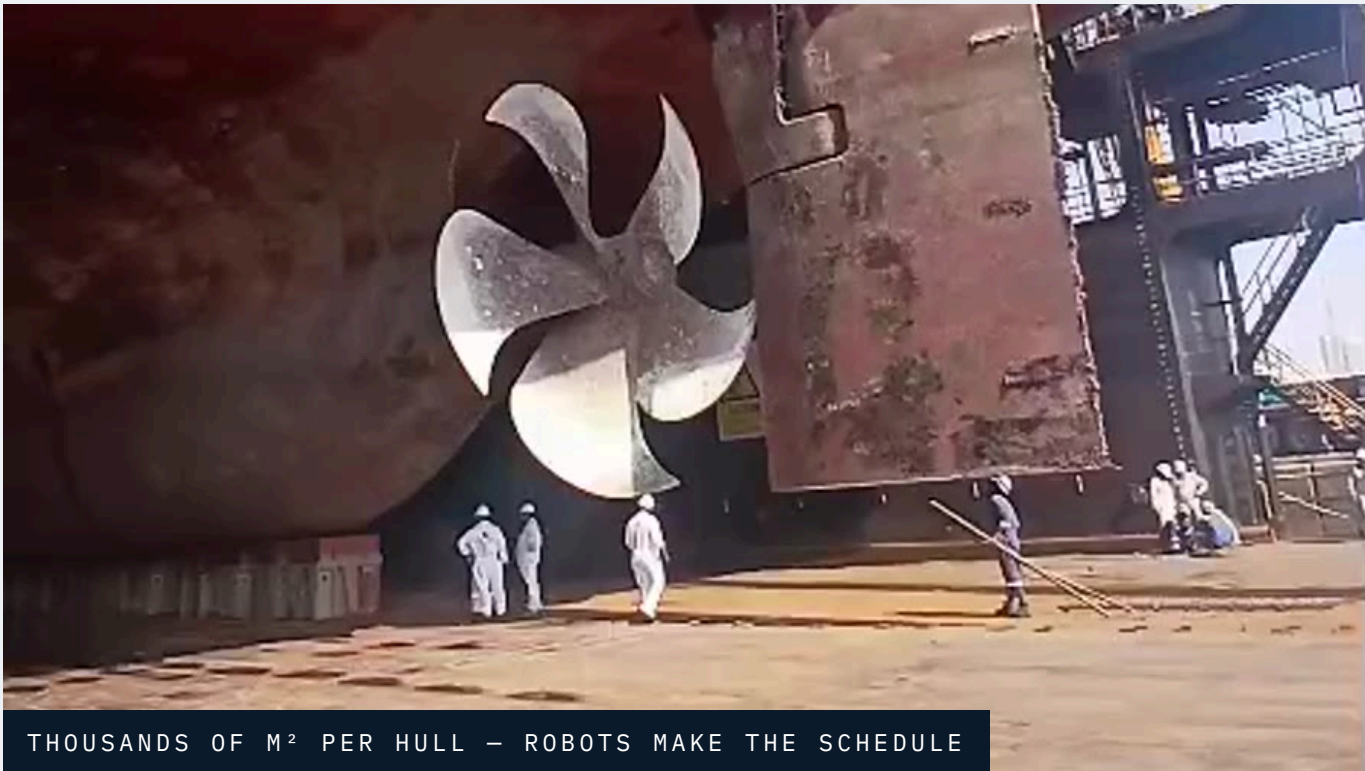
EX-02 ROBOT
OPTION

3×

MORE STEEL PER PUMP, SAME WJ-2 GRADE.

≈ 500 m² per 12-hour shift with a robot on a 56 L/min pump, against ≈ 150 m² for two manual lances on one pump.

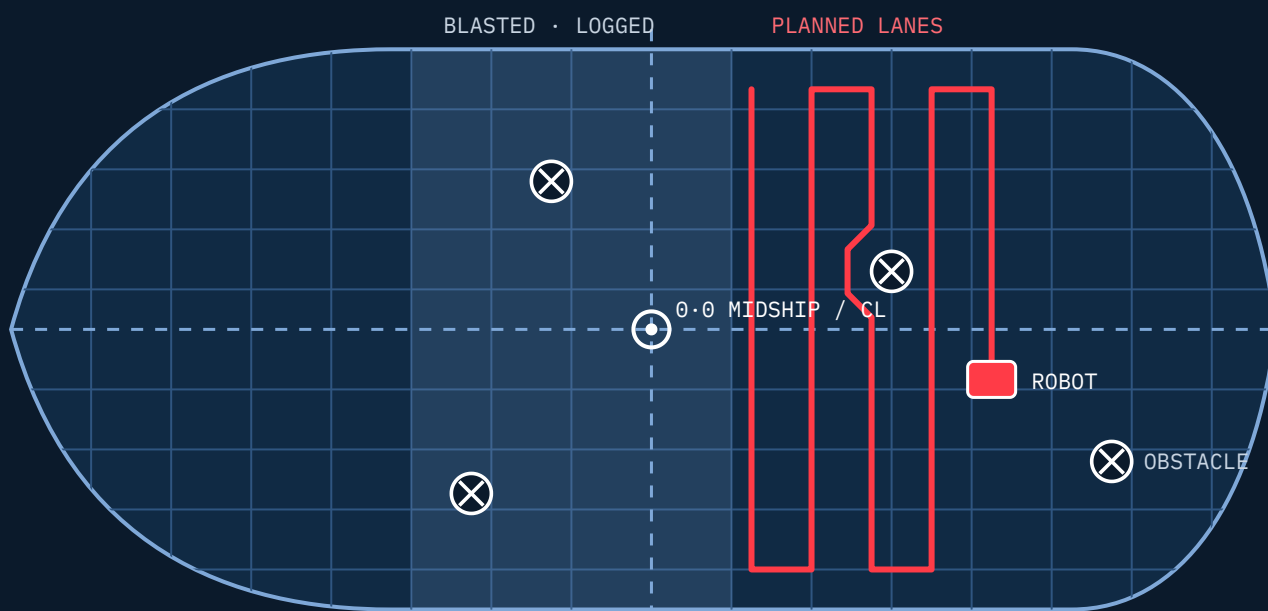
	MANUAL UHP LANCE	PRIME SHIELD ROBOTIC
Output per pump	≈ 150 m² / shift	≈ 250–500 m² / shift
Water & diesel	Higher per m²	Lower per m² — more area per pump-hour
People at height	Blasters on booms and scaffolds	Operator on the ground
Consistency	Varies with fatigue and reach	Fixed stand-off and speed
Night shifts	Output drops after dark	24/7 at the same rate
Records	Daily estimate	m², hours and pressure logged per shift
Abrasive waste	None (water only)	None (water only)



IN DEVELOPMENT WITH AKA ROBOTICS

THE ROBOT THAT READS THE DRAWING.

The vessel's own lines plan and shell expansion — or a 3D scan — become a digital surface map. The robot plans its lanes from a zero point, steers around obstacles and logs every lane it finishes.



01 INPUT

Lines plan, shell expansion, offset table — or a 3D scan.

02 MAP

Surface area and obstacles located — sea chests, anodes, stiffeners.

03 PLAN

Robot lanes set from a zero point at midship on the centreline.

04 EXECUTE

AI video and motor-current feedback keep the robot on plan.

TODAY

AREA TAKE-OFF BEFORE WE MOBILISE

We ask for the vessel's drawings with every job, so the area, crew and shifts are planned from the real hull.

NEXT

FEWER OPERATORS PER ROBOT

A hull-aware autopilot that decides its own path around curvature and obstacles.

SIX STEPS. NO SURPRISES.

01

DRAWINGS & SURVEY

GA, shell expansion and body lines requested at PO — real area, real plan.

02

METHOD & SCHEDULE

Robots, pumps, shifts and access matched to your dock or tank window.

03

MOBILISE

Filtered feed tank, UHP pumps, working robots and a standby robot on site.

04

BLAST TO SPEC

WJ-2 by robot, day and night; manual lances for the details.

05

INSPECT & LOG

Every shift logged; joint measurement signed with your inspector.

06

READY FOR COATING

Surface handed over for coating — or painted by our robots.



**TWO ROBOTS PER SHIFT.
ONE ON STANDBY.**

24/7 OPERATIONS

SHELLS, ROOFS, LININGS. BACK TO STEEL.

EXTERNAL SHELL • SHARJAH



INSIDE THE TANK



ROBOTS ON ARRIVAL

EXTERNAL SHELLS

Robotic UHP hydroblasting to WJ-2 — no grit to contain on a live terminal.

INTERNAL LININGS

Robotic abrasive blasting to Sa 2½ for epoxy and glass-flake systems.

ROOFS & FLOATING DECKS

Fixed and floating roofs, with the right access method for each.

COATING TO THE MAKER'S SPEC

Primer to top coat applied to the paint maker's system and DFT.

Zone 2

EX-02 ROBOT OPTION

Explosion-proof blasting and painting robot for hazardous areas — so tank work can continue next to live product lines, with fewer people at height.

THE KIT WE RUN. THE KIT WE SELL.



SWING-ARM HEAD AT WORK

9 AKA ROBOTS

3 HYDROBLASTING · 3 SANDBLASTING ·
3 PAINTING

UHP PUMP · EXCLUSIVE DEALER

MEGAJET HB40K55L

2,800 bar · 56–58 L/min · Weichai diesel · containerised
· 16-hour duty

UHP PUMPS · IN SERVICE

OWN UHP PUMP FLEET

2,800 bar units with our own operators — on our jobs
and for hire

ROBOT ACCESSORY

SWING-ARM HYDROBLAST HEAD

Fits on the same robot and sweeps arcs where the
crawler head can't reach — ship sides, stiffeners,
nozzles.

PLUS MANUAL LANCES, BLAST POTS & AFTERCOOLERS
· MAINTAINED IN SHARJAH

EXCLUSIVE DEALER

AKA ROBOTICS

Hull, tank, sandblasting, painting and Zone 2
crawlers.

EXCLUSIVE DEALER

HENAN BOY (MEGAJET)

UHP pumps 500–2,800 bar, Zone II units, hoses and
nozzles.

SALES

TESTING

TRAINING

REPAIRS

SPARES



**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 ·
@primeshieldtechnical**

WORKSHOP & WAREHOUSE
Sharjah Industrial Area



SCAN FOR A QUOTE



PRIME SHIELD TECHNICAL SERVICES LLC

ISO 9001 · 14001 · 45001