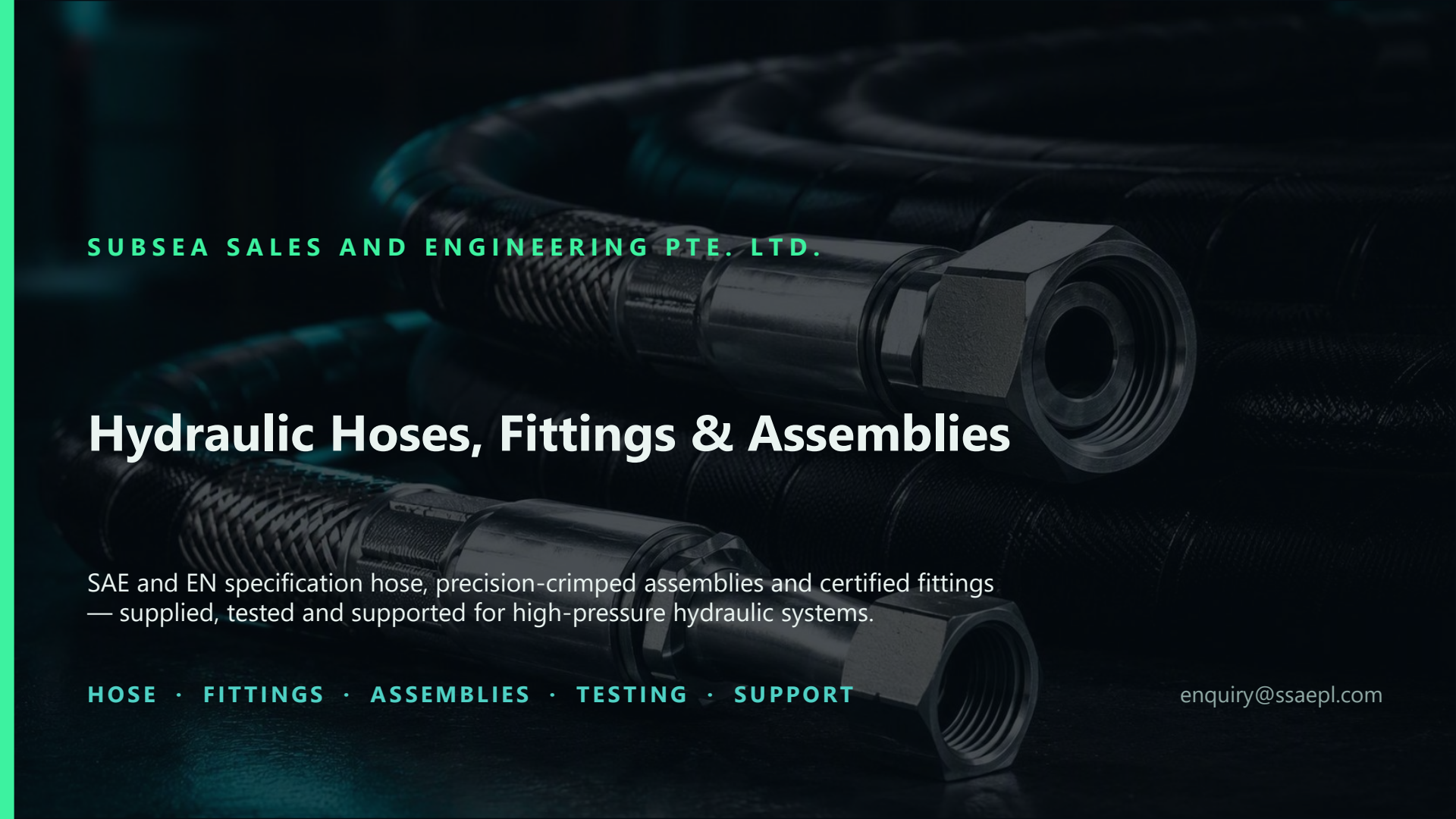


A close-up photograph of several black hydraulic hoses and metal fittings. The hoses have a braided texture and are connected to hexagonal metal fittings. The background is dark and out of focus, emphasizing the components in the foreground.

SUBSEA SALES AND ENGINEERING PTE. LTD.

Hydraulic Hoses, Fittings & Assemblies

SAE and EN specification hose, precision-crimped assemblies and certified fittings — supplied, tested and supported for high-pressure hydraulic systems.

HOSE · FITTINGS · ASSEMBLIES · TESTING · SUPPORT

enquiry@ssaepl.com

A complete hydraulic hose programme

We supply hydraulic hose, fittings and made-to-order assemblies to SAE J517 and EN standards — from single wire braid low-pressure lines through four- and six-spiral hose for heavy construction and offshore duty.

Every assembly is crimped to the manufacturer's die and ferrule specification, pressure-tested, cleanliness-flushed, tagged and traceable to its production batch.

Stock, made-to-order and on-site hose replacement across Southeast Asia.

1/4" – 2"

Bore range

DN06 to DN51, plus 2" spiral on request

Up to 420 bar

Working pressure

6,090 psi on 4SH / SAE 100R13 constructions

4:1

Safety factor

Minimum burst-to-working ratio per SAE J517

The range at a glance

WIRE BRAID

SAE 100R1 / R2 / R16 / R17
EN 853 1SN / 2SN

- 1 or 2 steel braids
- Up to 400 bar
- Compact bend radius
- General hydraulics

SPIRAL WIRE

SAE 100R9 / R12 / R13 / R15
EN 856 4SP / 4SH

- 4 or 6 spiral plies
- Up to 420 bar
- High impulse duty
- Heavy machinery

THERMOPLASTIC

SAE 100R7 / R8 / R18

- Non-conductive options
- Light and flexible
- Up to 350 bar
- Lifts, test rigs, tools

SPECIALITY

Industrial & offshore

- Suction & return lines
- Marine fire-resistant
- Water blast to 2,800 bar
- Chemical & food grade

Matched hose, fitting and ferrule combinations only — we do not mix brands within a crimped assembly.

CONSTRUCTION

How the hose is built

Performance comes from three layers working together. Specifying any one of them incorrectly is what puts a hose on the workshop floor early.

Inner tube

Synthetic nitrile or thermoplastic, selected for the fluid — mineral oil, water-glycol, phosphate ester or biodegradable.

Reinforcement

High-tensile steel braid or spiral plies. Ply count sets working pressure and impulse life.

Outer cover

Abrasion, ozone and weather resistant synthetic rubber; pin-pricked for gas permeation, MSHA options available.

Cover, reinforcement and tube are specified together against the actual duty cycle — not selected on bore size alone.



Wire braid hose — indicative specifications

Standard	Construction	Bore range	Max working pressure	Min burst	Temp range	Typical use
SAE 100R1AT / EN 853 1SN	1 steel wire braid	1/4" – 2"	225 – 40 bar (bore dependent)	4x working	-40 to +100 °C	Medium-pressure return and service lines
SAE 100R2AT / EN 853 2SN	2 steel wire braids	1/4" – 2"	415 – 80 bar	4x working	-40 to +100 °C	General high-pressure hydraulics
SAE 100R16	2 braids, compact	1/4" – 1"	415 – 210 bar	4x working	-40 to +100 °C	Tight routing, mobile equipment
SAE 100R17	1 – 2 braids, constant pressure	1/4" – 1"	210 bar all sizes	4x working	-40 to +100 °C	Simplified inventory, one-pressure fleets
EN 857 1SC / 2SC	Compact braid	1/4" – 1.1/4"	225 – 350 bar	4x working	-40 to +100 °C	Half the bend radius of 2SN

Indicative values compiled from SAE J517 and EN 853/857. Confirm against the selected manufacturer's published data before ordering.



HEAVY DUTY

Spiral wire hose

Four- and six-ply spiral hose for shock-loaded, high-impulse circuits where braided hose fatigues.

- Working pressures to 420 bar / 6,090 psi
- Impulse life typically 500,000+ cycles at rated pressure
- Constant-pressure grades (R13 / R15) simplify fleet stocking
- Alternating spiral plies resist pulsation and flexing fatigue
- Excavators, cranes, drill rigs, presses and injection moulding
- Available with abrasion-resistant and MSHA-accepted covers

Spiral hose must be crimped on matched fittings and dies — mixed components void the pressure rating.

Spiral & thermoplastic hose — indicative specifications

Standard	Construction	Bore range	Max working pressure	Min burst	Temp range	Typical use
SAE 100R12 / EN 856 R12	4-spiral steel wire	3/8" – 2"	420 – 210 bar	4x working	-40 to +121 °C	High-impulse mobile hydraulics
EN 856 4SP	4-spiral steel wire	1/4" – 2"	445 – 165 bar	4x working	-40 to +100 °C	Construction and mining circuits
EN 856 4SH	4-spiral heavy	3/4" – 2"	420 – 210 bar	4x working	-40 to +100 °C	Large-bore high-pressure lines
SAE 100R13 / R15	4 – 6 spiral, constant pressure	3/4" – 2"	345 / 420 bar all sizes	4x working	-40 to +121 °C	Presses, drilling, heavy plant
SAE 100R7 / R8	Thermoplastic, synthetic braid	3/16" – 1"	350 – 70 bar	4x working	-40 to +93 °C	Lifts, tools, non-conductive duty
SAE 100R18	Thermoplastic, 2 braid	1/4" – 1"	210 bar all sizes	4x working	-40 to +93 °C	Constant-pressure light equipment

Indicative values compiled from SAE J517 and EN 856. Pressure ratings fall as bore increases; confirm per size at quotation.

Fittings, couplings & adapters

A full end-connection programme so the assembly matches the port on your machine, not the nearest approximation.

- Thread forms: JIC 37°, BSPP, BSPT, NPT, ORFS, DKO-L/S, Komatsu
- Flanges: SAE J518 Code 61 and Code 62, 3000 – 6000 psi
- One-piece and two-piece crimp fittings with matched ferrules
- Reusable field-attachable ends for remote maintenance
- Quick-release couplings — flat face, poppet and screw-to-connect
- Adapters, tees, elbows and test points in carbon and stainless steel
- Zinc-nickel plating: 500+ hours salt spray for marine service

Stainless 316 ends specified as standard for offshore and splash-zone assemblies.





CAPABILITY

Assembly & crimping

Made-to-order assemblies built to a controlled process — every hose the same, every time.

01 Cut & clean

Square cut, skive where required, then air-launched projectile cleaning to ISO 4406 cleanliness.

02 Crimp

Crimp diameter set to the manufacturer's die chart and verified with a micrometer on every assembly.

03 Test & tag

Proof-tested to 2x working pressure, then tagged with part number, date and traceable batch.

Same-day turnaround on stocked sizes; emergency breakdown assemblies on request.

Quality you can put a gauge on

Proof pressure tested

Every assembly tested to twice working pressure and recorded before it leaves the bench.

Certified and traceable

Mill certificates, test reports and batch traceability supplied with each order.

Standards compliance

Manufactured to SAE J517, EN 853/856/857 and ISO 18752 where specified.

Cleanliness controlled

Projectile-flushed and capped to ISO 4406 — contamination is the leading cause of pump failure.



A hose that fails costs far more than the hose — downtime, contamination and safety exposure. We price and build for the second failure that never happens.

Where our hose works

Construction & earthmoving

Excavators, loaders, breakers, drill rigs

Offshore & marine

Deck machinery, cranes, winches, steering gear

Oil & gas

Wellhead control, BOP lines, workover units

Ports & material handling

Reach stackers, RTGs, tipplers, conveyors

Mining & quarrying

Crushers, screens, haul trucks, shovels

Industrial & manufacturing

Presses, injection moulding, test rigs

Hose specified against the real duty — pressure peaks, temperature, media, flex cycles and environment — not just bore and length.

Supply is the start, not the scope

01

Specify

- Application survey
- Hose selection & routing
- Schematic take-off

02

Supply

- Stocked hose & fittings
- Made-to-order assemblies
- Kitted by machine

03

Service

- On-site hose replacement
- Breakdown response
- Bulk hose & crimper supply

04

Sustain

- Hose management & tagging
- Scheduled replacement
- Inventory & consignment

Hose management programmes tag and log every assembly on the asset, so replacement is scheduled rather than reactive.

Why buy your hose from SSAEPL

Matched components only

Hose, ferrule and fitting from one system — the rating on the tag is the rating you get.

Tested before it ships

Proof-pressure record and traceable batch with every assembly, as standard.

Engineering, not counter sales

We survey the application and specify against duty cycle, media and environment.

Breakdown response

Same-day assemblies and on-site replacement keep plant running.

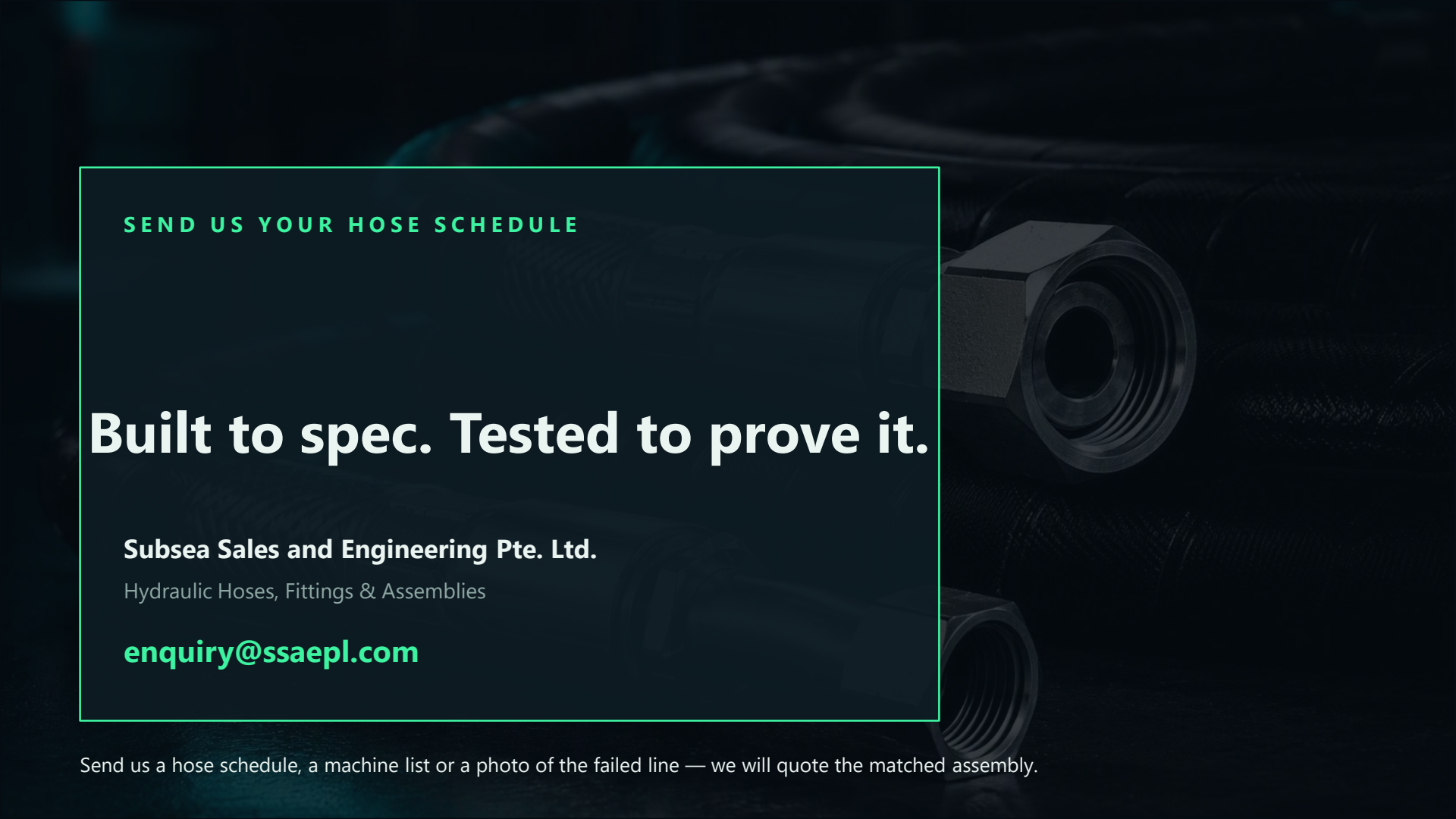
Marine and offshore ready

316 stainless ends, zinc-nickel plating and fire-resistant covers where duty demands.

Managed inventory

Consignment stock and machine-kitted assemblies cut your holding and downtime.

Committed to innovation, quality and customer success.

The background of the entire image is a dark, high-contrast photograph of industrial hydraulic components. It features several black, braided hoses and metal fittings, including hexagonal nuts and threaded connectors, arranged in a way that creates a sense of depth and texture. The lighting is dramatic, highlighting the metallic surfaces and the intricate patterns of the hose braiding.

SEND US YOUR HOSE SCHEDULE

Built to spec. Tested to prove it.

Subsea Sales and Engineering Pte. Ltd.

Hydraulic Hoses, Fittings & Assemblies

enquiry@ssaep.com

Send us a hose schedule, a machine list or a photo of the failed line — we will quote the matched assembly.