

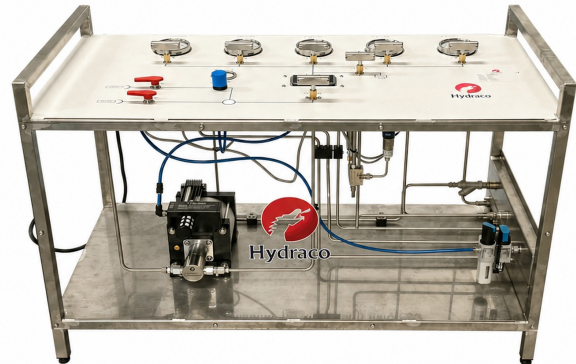
TECHNICAL DATA SHEET

TTU

Transportable Test Unit

One frame. Built for your test requirements.

Hydraco TTU makes demanding pressure testing safer, simpler and easier to move. Position the unit, connect through the connection panel, and run the complete test from the integrated operator panel with its clear, intuitive layout. High-strength transparent polycarbonate panels help to protect the operator while keeping the system visible. One or more Hydraco HP test pumps are selected to provide the flow and pressure your application needs - from rapid filling to controlled testing up to 6640 bar.


PRESSURE CAPABILITY

Up to 6640 bar

Final rating is defined for the complete circuit.

MAXIMUM NOMINAL FLOW

Up to 118 l/min

At 0 bar outlet pressure.

STANDARD FRAME

1280 × 620 × 900 mm

L × W × H

SAFE, VISIBLE AND INTUITIVE

Designed for confident testing

- Compact stainless-steel platform for workshop or site use
- Transparent polycarbonate keeps the test circuit visible
- Operator controls and connection points arranged in one place
- Easy access for setup, inspection and maintenance
- Configured for the required pressure, flow and test arrangement

CONFIGURED TO THE APPLICATION

The performance your test needs

- Fast filling for large test volumes
- Controlled pressure build-up up to 6640 bar
- One, two, three or more pump stages
- One or multiple test lines
- Direct supply, external tank or integrated reservoir
- Wetted materials selected for the specified fluid

Reference builds have ranged from approximately 120 to 195 kg; final weight depends on configuration.

CONFIGURATION EXAMPLES

Common configurations. Tailored to your requirements.

Required pressure, filling flow, test volume and fluid supply determine the arrangement. These examples are not fixed TTU models; they can be combined within the standard platform.

Single pump / flexible outlet(s)



One selected pump supplying one or several test lines.

High-flow + high-pressure



Fast filling combined with a separate controlled test-pressure stage.

Low + medium + high pressure



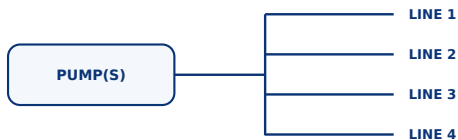
Three pump stages matched to different flow and pressure duties.

Twin pumps / duty sharing



Equal or different pumps for more flow, staged duty or redundancy.

Multiple isolated test lines



Dedicated gauges, isolation and connection sizes can be used per line.

External tank + feed pump



A diaphragm feed pump can supply the Hydraco HP test pump from an existing tank.

One TTU can combine these functions and additional project-specific features.

Pump count, line count, connection sizes, gauges and fluid handling are selected for the test.

HYDRACO HP TEST PUMPS

HP160 pump selection — single acting

HP160 provides the broadest pressure range in the TTU selection—from high-flow low-pressure duty to ultra-high-pressure testing. Dual-air-motor 2S versions extend the available pressure range.

AVAILABLE RATIOS
2 to 800

19 selectable versions

MAXIMUM NOMINAL FLOW
Up to 56.52 l/min

At 0 bar and 2 Hz

PRESSURE CAPABILITY
Up to 6640 bar

With the complete circuit suitably rated

HP160 · SINGLE ACTING AND 2S VARIANTS

Pump model	Ratio	Max. flow at 0 bar (l/min)	Max. pressure at 8.3 bar air (bar)	Typical TTU fluid inlet	Typical TTU test outlet
HP160-S-02	2	56.52	17	3/4" BSP(F)	3/4" BSP(F)
HP160-S-04	4	48.24	33	3/4" BSP(F)	3/4" BSP(F)
HP160-S-07	7	29.88	58	3/4" BSP(F)	3/4" BSP(F)
HP160-S-10	10	18.84	83	3/4" BSP(F)	3/4" BSP(F)
HP160-S-16	16	12.00	133	3/4" BSP(F)	3/4" BSP(F)
HP160-S-20	20	9.12	166	3/4" BSP(F)	3/4" BSP(F)
HP160-S-28	28	6.72	232	1/2" BSP(F)	1/2" BSP(F)
HP160-S-40	40	4.68	332	1/2" BSP(F)	1/2" BSP(F)
HP160-S-64	64	3.02	531	3/8" BSP(F)	3/8" BSP(F)
HP160-S-80	80	2.40	664	3/8" BSP(F)	3/8" BSP(F)
HP160-S-100	100	1.92	830	3/8" BSP(F)	3/8" BSP(F)
HP160-S-130	130	1.44	1,079	3/8" BSP(F)	3/8" BSP(F)
HP160-S-170	170	0.72	1,411	3/8" BSP(F)	3/8" HP(F)
HP160-S-240	240	0.48	1,992	3/8" BSP(F)	1/4" HP(F)
HP160-S-300	300	0.456	2,490	1/4" BSP(F)	1/4" HP(F)
HP160-S-400	400	0.36	3,320	1/4" BSP(F)	1/4" HP(F)
HP160-2S-512	512	0.468	4,250	1/4" BSP(F)	1/4" HP(F)
HP160-2S-630	630	0.384	5,229	1/4" BSP(F)	1/4" HP(F)
HP160-2S-800	800	0.252	6,640	1/4" BSP(F)	1/4" HP(F)

Maximum flow at 0 bar and 2 Hz. Pressure values are based on 8.3 bar drive air. Actual flow reduces with pressure. Final working rating is set by the complete circuit.

HYDRACO HP TEST PUMPS

HP160 pump selection — double acting

Double-acting HP160 pumps provide increased delivery at the selected pressure ratio. Dual-air-motor 2D versions add further flow capability for demanding filling and pressure-build duties.

HP160 · DOUBLE ACTING

Standard air-motor versions

Pump model	Ratio	Max. flow at 0 bar (l/min)	Max. pressure at 8.3 bar air (bar)	Typical TTU fluid inlet	Typical TTU test outlet
HP160-D-04	4	90.00	33	3/4" BSP(F)	3/4" BSP(F)
HP160-D-07	7	60.00	58	3/4" BSP(F)	3/4" BSP(F)
HP160-D-10	10	35.28	83	3/4" BSP(F)	3/4" BSP(F)
HP160-D-16	16	22.56	133	3/4" BSP(F)	3/4" BSP(F)
HP160-D-20	20	17.28	166	3/4" BSP(F)	3/4" BSP(F)
HP160-D-28	28	12.72	232	1/2" BSP(F)	1/2" BSP(F)
HP160-D-40	40	8.76	332	1/2" BSP(F)	1/2" BSP(F)
HP160-D-64	64	5.64	531	3/8" BSP(F)	3/8" BSP(F)
HP160-D-80	80	4.56	664	3/8" BSP(F)	3/8" BSP(F)
HP160-D-100	100	3.60	830	3/8" BSP(F)	3/8" BSP(F)
HP160-D-130	130	2.76	1,079	3/8" BSP(F)	3/8" BSP(F)
HP160-D-170	170	1.44	1,411	3/8" BSP(F)	3/8" BSP(F)
HP160-D-240	240	0.96	1,992	3/8" BSP(F)	1/4" HP(F)
HP160-D-300	300	0.84	2,490	1/4" BSP(F)	1/4" HP(F)
HP160-D-400	400	0.60	3,320	1/4" BSP(F)	1/4" HP(F)

HP160 · DOUBLE ACTING · DUAL AIR MOTOR

2D high-flow variants

Pump model	Ratio	Max. flow at 0 bar (l/min)	Max. pressure at 8.3 bar air (bar)	Typical TTU fluid inlet	Typical TTU test outlet
HP160-2D-20	20	35.34	166	3/4" BSP(F)	3/4" BSP(F)
HP160-2D-32	32	22.62	266	3/4" BSP(F)	3/4" BSP(F)
HP160-2D-40	40	17.28	332	1/2" BSP(F)	1/2" BSP(F)
HP160-2D-56	56	12.72	465	1/2" BSP(F)	1/2" BSP(F)
HP160-2D-80	80	8.832	664	3/8" BSP(F)	3/8" BSP(F)
HP160-2D-130	130	5.64	1,079	3/8" BSP(F)	3/8" BSP(F)
HP160-2D-160	160	4.56	1,328	3/8" BSP(F)	3/8" BSP(F)
HP160-2D-200	200	3.60	1,660	3/8" BSP(F)	3/8" HP(F)
HP160-2D-260	260	2.04	2,158	3/8" BSP(F)	1/4" HP(F)
HP160-2D-355	355	1.50	2,947	3/8" BSP(F)	1/4" HP(F)

Maximum flow at 0 bar and 2 Hz. Pressure values are based on 8.3 bar drive air. Actual flow reduces as outlet pressure increases; final TTU connections and working rating are confirmed for the selected configuration.

HYDRACO HP TEST PUMPS

HP250 pump selection

HP250 is the high-flow choice for larger test volumes and faster filling or pressure build-up. Single- and double-acting versions can be used alone or combined with an HP160 high-pressure stage.

SINGLE ACTING
Up to 117.75 l/min

At 0 bar and 1.66 Hz

DOUBLE ACTING
Up to 54.90 l/min

At 0 bar and 1.66 Hz

AVAILABLE RATIOS
4 to 240

Pressure values up to 1992 bar

HP250 · SINGLE ACTING

Pump model	Ratio	Max. flow at 0 bar (l/min)	Max. pressure at 8.3 bar air (bar)	Typical TTU fluid inlet	Typical TTU test outlet
HP250-S-04	4	117.75	33	1" BSP(F)	1" BSP(F)
HP250-S-10	10	75.30	83	3/4" BSP(F)	3/4" BSP(F)
HP250-S-25	25	29.40	208	3/4" BSP(F)	3/4" BSP(F)
HP250-S-40	40	18.80	332	3/4" BSP(F)	3/4" BSP(F)
HP250-S-69	69	10.60	573	1/2" BSP(F)	1/2" BSP(F)
HP250-S-100	100	7.30	830	1/2" BSP(F)	1/2" BSP(F)
HP250-S-156	156	4.70	1,295	3/8" BSP(F)	3/8" HP(F)
HP250-S-190	190	2.70	1,577	3/8" BSP(F)	3/8" HP(F)
HP250-S-240	240	2.20	1,992	3/8" BSP(F)	3/8" HP(F)

HP250 · DOUBLE ACTING

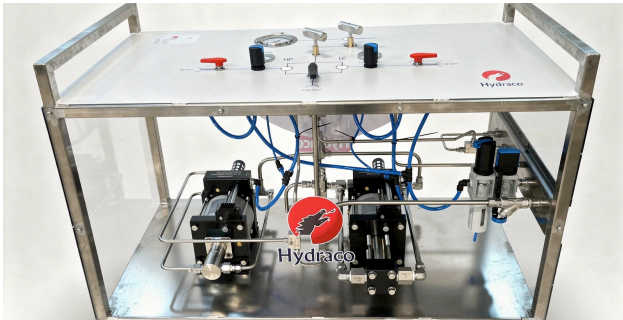
Pump model	Ratio	Max. flow at 0 bar (l/min)	Max. pressure at 8.3 bar air (bar)	Typical TTU fluid inlet	Typical TTU test outlet
HP250-D-25	25	54.90	208	1" BSP(F)	1" BSP(F)
HP250-D-40	40	35.10	332	3/4" BSP(F)	3/4" BSP(F)
HP250-D-69	69	19.70	573	3/4" BSP(F)	3/4" BSP(F)
HP250-D-100	100	13.70	830	3/4" BSP(F)	3/4" BSP(F)
HP250-D-156	156	8.70	1,295	3/8" BSP(F)	3/8" HP(F)
HP250-D-190	190	7.10	1,577	3/8" BSP(F)	3/8" HP(F)
HP250-D-240	240	5.60	1,992	3/8" BSP(F)	3/8" HP(F)

Maximum flow at 0 bar and 1.66 Hz (100 strokes/min). Pressure values are based on 8.3 bar drive air. Actual flow reduces with pressure; final working rating is set by the complete TTU circuit.

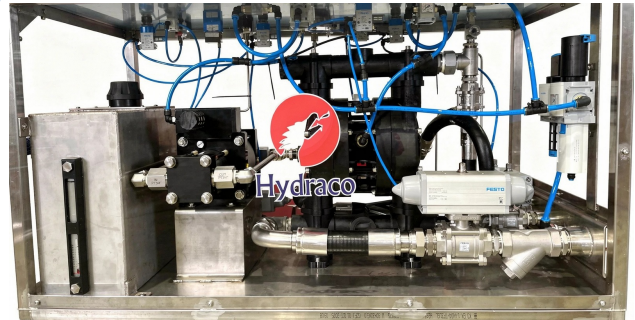
CONFIGURED TO ORDER

One platform. Many proven possibilities.

Hydraco combines the required pressure, flow, test lines, controls and fluid handling in one complete TTU configured for the application. TTU systems can be configured for water, mineral oils, water-based hydraulic fluids, subsea fluids and a wide range of chemicals. Wetted materials and seals are selected for the specified medium.



Dual HP160 configuration with dedicated high- and low-pressure pumps and one test line.



Pneumatically operated TTU with a diaphragm feed pump, one Hydraco HP160 test pump, a 10 L chemical-injection tank and a compact dosing pump.

Core TTU platform

- Stainless-steel frame and base plate
- High-strength transparent polycarbonate panels
- Integrated operator panel with clear flow diagram
- Connection panel with project-defined test connections
- Pump controls, pressure regulation and isolation
- Selected Hydraco HP test pumps, gauges and test lines

Available configurations & options

- Wheels for easier repositioning
- Emergency stop
- Hand-operated valves
- Pneumatically actuated valves
- Integrated reservoir
- External-tank connection
- Diaphragm feed pump
- Chemical-injection tank
- Chemical dosing pump
- Filtration or fluid conditioning
- Additional, isolated or mixed-pressure test lines
- Additional pressure transmitters
- Digital pressure indication
- Data logging
- Hydraco pressure-test software
- Instrument lid
- Protective cover
- Lifting points
- Forklift pockets



ATEX / Ex configuration available as an option

The required hazardous-area specification is confirmed for each project.

Tell us about your pressure-test challenge.

SCAN FOR TTU PRODUCT PAGE

Hydraco will take it from there and configure a TTU to match your complete test requirements.

