hydraut

HYDRAULICS FOR AGRICULTURE

Engineering, testing and field support, all tailored to your machine



— WHO WE ARE

The European bridge to Asian hydraulic technology

Since **2006**, Hydraut has been the European point of reference for machine builders choosing hydraulic components of Asian origin. Every Hytek product follows a precise path before it reaches your machine. It leaves the plant **already tested** and enters our warehouse in Gallarate.

If your application requires it, it is then assembled, configured and parametrized to your specifications, with a **second test** on our bench before delivery.



For agricultural hydraulics, our partner is Hytek, for which we are the exclusive European hub.

HYTEK
POWER CO. LTD.

— OUR PARTNER FOR AGRICULTURE

Hytek, over twenty years of hydraulic technology

We select our partners against precise criteria: production capacity, investment in research and development, modern plants and documented quality controls. Hytek meets them all, which is why we are its **exclusive hub for Europe**.

HYTEK
POWER CO. LTD.



PUMPS · MOTORS · SINCE 2002

Founded in **2002**, Hytek Power has built its growth on continuous research and development. The Chinese government has awarded it "**High Technology Enterprise**" status, granted to companies with a high technological content. In its plants, every family of pumps and motors is tested on two separate benches: one measures performance, the other long-term durability.

ISO 9001 ISO 14001 ISO 45001

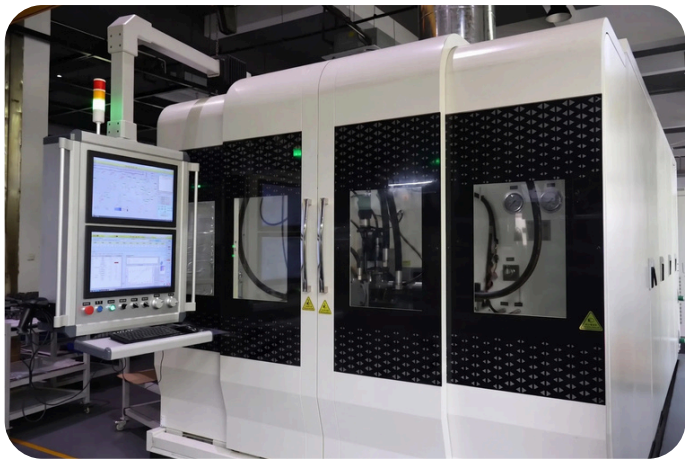
— TWO LEVELS OF TESTING

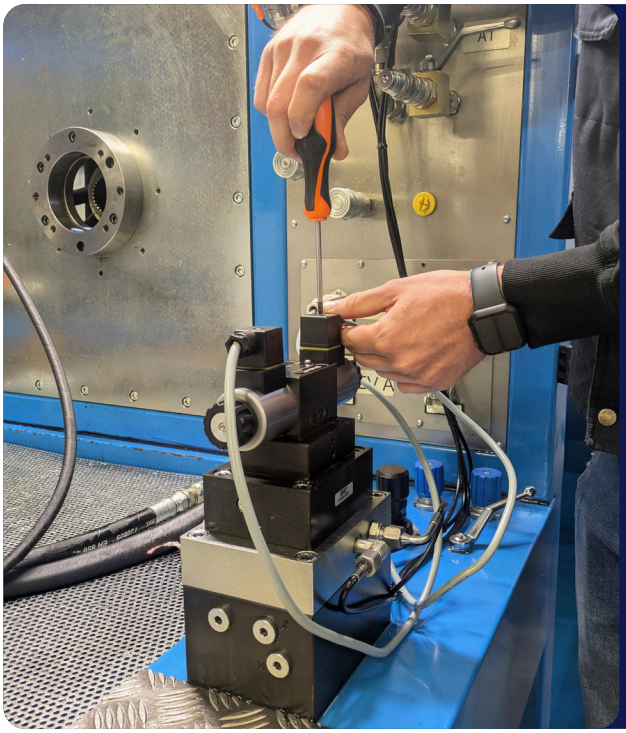
Every check where it really matters

A builder adopting a new supplier wants to know who checks what, and when. For Hytek components the answer is simple: the first test takes place at the factory, the second at our facility, every time a unit is customized to the customer's requirements.

At the factory — Hytek
Components leave the plant after performance and durability testing. Standard units arrive in Gallarate ready for delivery or for customization.







In Italy — on our test bench

Whenever we assemble, configure or parametrize a Hytek unit, we repeat the performance tests before shipping, to guarantee the same quality level as the manufacturer.
We don't replace the manufacturer's quality control: we confirm it and, where needed, add a second level.

Hydraut-branded products are also 100% tested.

WHY HYDRAUT

Six reasons to build agricultural machinery with us

One technical point of contact

Pumps, valves and motors from a single European supplier, with one technical contact before and after delivery.

European lead times

24–48 hour shipping on stock items. Availability that replaces the usual waiting times of sourcing directly from abroad.

Standardization

The same solutions across multiple machine models: fewer part numbers in your BOM, simpler spare parts management and a leaner technical archive to keep up to date.

Engineering by your side

Our engineers work with your design office on component selection and sizing, from prototype to series production.

European warranty, managed by us

12 months on Hytek products, 24 months on the Hydraut line. We handle every request directly from Italy.

After-sales service

Spare parts, technical and testing documentation, with a contact who already knows your machine.

— THE RANGE

All your machine’s hydraulics from one partner

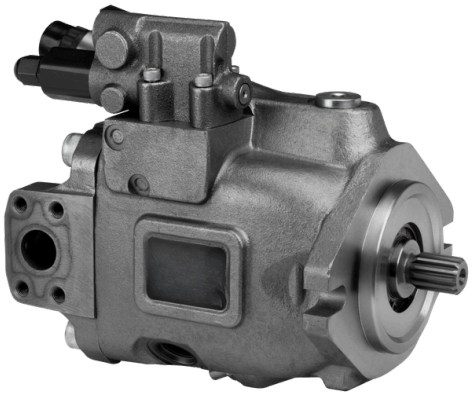
On agricultural machinery, hydraulics perform two main tasks: driving the vehicle’s hydrostatic transmission and powering the auxiliary functions. The Hytek range covers both, with axial piston pumps and motors for the hydrostatic transmission, and variable displacement and internal gear pumps for the auxiliary functions.

A wide product range and the option of configuring components at our Gallarate facility let you find the right solution for your application.

AXIAL PISTON PUMPS – VARIABLE DISPLACEMENT

HP3VO SERIES

- Displacements: 40cc to 85cc
- Compact design
- Open circuit
- Continuous nominal pressure: 280 bar
- Maximum pressure: 320 bar
- Nominal speed: up to 2,600 rpm (2,500 rpm for the 85 cc size)



ADVANTAGES

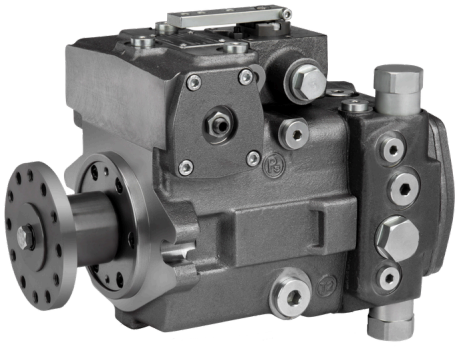
- Option to couple a second pump, for a more compact system
- Low noise thanks to the optimized design
- Multiple control options: pressure cut-off, load sensing, power control, proportional pressure/displacement control

— THE RANGE

AXIAL PISTON PUMPS – VARIABLE DISPLACEMENT

HP2VC SERIES

- Displacements: 56cc to 180cc
- Closed circuit
- Nominal pressure: 400 bar
- Maximum pressure: 450 bar
- Maximum speed: 3,600 rpm



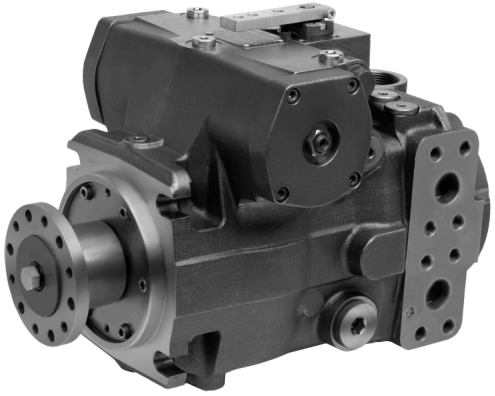
ADVANTAGES

- Full bidirectional protection
- Compact integrated boost pump
- Multiple control options (hydraulic, mechanical, electro-proportional)

AXIAL PISTON PUMPS – VARIABLE DISPLACEMENT

HA4VTG SERIES

- Displacements: 71cc to 100cc
- Closed circuit
- Nominal pressure: 400 bar
- Maximum pressure: 450 bar
- Maximum speed: 3,050 rpm



ADVANTAGES

- Full bidirectional protection
- Compact integrated boost pump
- Multiple control options (hydraulic, mechanical, electro-proportional)

— THE RANGE

INTERNAL GEAR PUMPS

HIPD SERIES

- Displacements: 8cc to 63cc
- Maximum pressure: 315 bar
- Nominal pressure: 300 bar
- Maximum speed: 3,600 rpm



ADVANTAGES

- Low noise and seamless integration with electric motors
- Dynamic load response for improved steering feel
- Internal compensation: continuous high-efficiency operation, high shock resistance and longer service life
- Compact footprint, easy to fit in tight spaces

AXIAL PISTON MOTORS – FIXED DISPLACEMENT

HA2FM SERIES

- Displacements: from 23cc to 160cc
- Bent-axis design, tapered pistons with piston rings
- For open and closed circuits
- Nominal pressure: 400 bar
- Maximum pressure: 450 bar
- Maximum speed: 6,300 rpm



ADVANTAGES

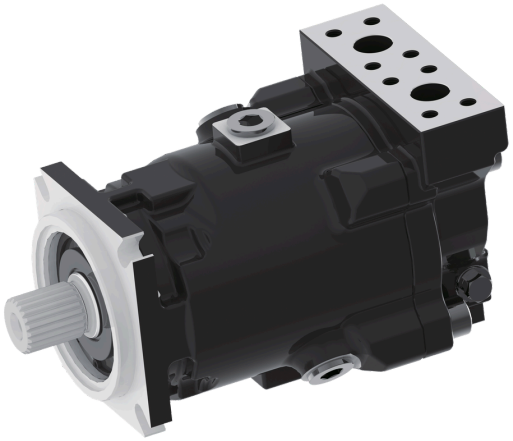
- Excellent volumetric efficiency, even at high pressure
- Stable operation at both low and high speeds
- Integrated overload protection for the drive

— THE RANGE

AXIAL PISTON MOTORS – FIXED DISPLACEMENT

HM4F SERIES

- Displacements: 35cc to 130cc
- Maximum pressure: 480 bar



ADVANTAGES

- Compact design
- For open and closed circuits

AXIAL PISTON MOTORS – VARIABLE DISPLACEMENT

HA6VM SERIES

- Displacements: 28cc to 250cc
- Nominal pressure: 400 bar
- Maximum pressure: 450 bar
- Open or closed circuit
- Maximum speed: up to 5,500 rpm
- Speed sensor available



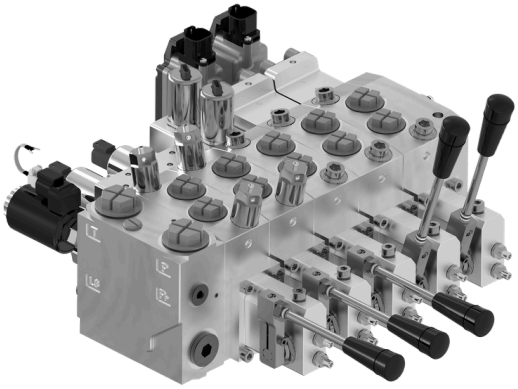
ADVANTAGES

- Automatic high-pressure control
- High power density in a compact package
- Optional flushing valve for thermal management and oil cleaning in closed circuits

— THE RANGE

PROPORTIONAL VALVE BLOCK

PC12 SERIES



- Maximum inlet flow: 140 L/min (side inlet), 230 L/min (central inlet)
- Maximum flow to work ports: up to 125 L/min
- Open-centre and closed-centre versions (open centre for fixed pumps, closed centre for variable pumps)
- Nominal pressure: 350 bar pump side, 400 bar work ports
- Maximum pressure: 400 bar

ADVANTAGES

- Load-independent constant flow
- Modular design
- Anti-shock and anti-cavitation valves on every section
- Manual, hydraulic, electro-hydraulic or electronic (CAN bus) control



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