



Test Cylinders

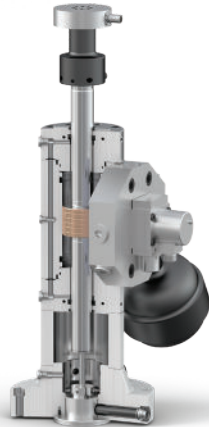
100% Made In Germany

Hänen has supported the test and simulation industry for over a century by providing actuators crafted for precision, smooth motion, and durability. Today, testing faces complex challenges like minimizing friction and maintaining repeatable performance under high frequencies and loads. Our cylinders are built with ultra-rigid, wear-resistant materials and patented sealing solutions that do not exist anywhere else in the market. Every detail is engineered to keep your data clean and your results consistent for years to come.

Advantages at a Glance

- Over 100 years of expertise in test and simulation cylinder manufacturing
- Rigid construction meaning a long service life, no leakage, and clean data
- Largest cylinder range on the market, machined to your exact application size
- Made in Germany with rigorous quality control and craftsmanship
- Patented sealing customized to your application's friction and stick-slip tolerance
- Lead times as fast as 8 weeks for standard cylinders and 14 weeks for specialized, dynamic cylinders

Specialty Test Actuators for Clean Data



Performance

Rugged welded design for repeatable data

Using a robustly-designed round head over a tie-rod cylinder means exceptional rigidity and low friction. The symmetrical shape helps distribute stress evenly across the cylinder, resulting in a very durable and accurate build.

Friction-free sealing for all sizes

We offer hydrostatic bearings for extremely low friction, dynamic movement starting at an inch diameter, where competitors use basic synthetic guides.

High pressure up to 4,640 psi (320 bar)

Most manufacturers only offer standard maximum pressures of 3,045 psi. With Hänchen, you can achieve up to 4,640 psi without increasing the size.



Ratio Clamp® Keeps the Position for You

With a rod locking device, position stays locked no matter what happens to hydraulic pressure. Ensure stability and control during every testing operation.

Lifetime and Savings

Long service life lasting over 40 years

Hänchen's specialized cylinders have lasted for decades in service thanks to patented sealing technologies found nowhere else in the market, as well as highly honed, cross-hatch finishes.

Pressure control without leakage pump

Our hydrostatic cylinders have venting and leakage ports built into the sealing concept. This design keeps pressure steady without needing an extra pump, reducing energy use and lowering operating costs.

Customization

12 different sealing combinations

Customize your cylinder for static or dynamic loads with a variety of seals and guides for low friction, low stick-slip, or high side-loading.

Configure Your Test Cylinder

Once you save your cylinder design, we can provide a price quote with your configuration ID.



Test Cylinder Information Sheet v2.1 / July 2026