

HANDELIC: GLOBAL LEADER IN HYDRAULIC SOLUTIONS

Reliable Hydraulic Cylinder Solutions for Global OEMs

Handelic is a premier, OEM-focused hydraulic cylinder manufacturer dedicated to high-performance engineering. We specialize in the research, development, and high-volume supply of high-pressure, long-life, and high-quality hydraulic cylinders tailored to the world's strictest industrial machinery requirements.

WHY HANDELIC?

- **Trusted OEM Partner:** Strategically integrated into the supply chains of leading global machinery and material handling equipment brands.
- **Advanced Production Base:** Fully equipped with specialized automated production lines and state-of-the-art robotic welding systems.
- **Rigorous Testing:** Multi-stage non-destructive testing and 100% full-cycle hydraulic pressure testing processes.
- **International Qualifications:** Complete quality and environmental system management certifications tailored for cross-border engineering projects.

INTERNATIONAL CERTIFICATIONS

IATF 16949:2016

Automotive-grade quality management system ensuring absolute stability and defect prevention.

ISO 3834-2

Comprehensive quality requirements for fusion welding of metallic materials, crucial for heavy-duty structural safety.

ISO 9001 & ISO 14001

Full standard compliance for consistent quality manufacturing and environment-friendly operations.

CORE APPLICATION FIELDS

Our engineered solutions deliver high reliability across 7 core heavy industrial and manufacturing fields:

Forklifts & Material Handling	Construction Equipment	Mining & Heavy Duty Machinery
Aerial Work Platforms (AWP)	Cranes & Lifting Systems	Agricultural Machinery
New Energy Industrial Applications		

GLOBAL TRUST & CORPORATE TRACK RECORD

Our systems are engineered to benchmark and perfectly replace components across fleets associated with elite industry names such as: TOYOTA, Linde, MITSUBISHI, PALFINGER, SANY, JUNGHEINRICH, CLARK, HYSTER-YALE, TEREX, Epiroc, WIRTGEN, Metso, Genie, ENERPAC, CARGOTEC, and HIAB.

PRODUCT CAPABILITY & TECHNICAL SPECIFICATIONS

Precision Manufacturing Dimensions & Parameters

Every Handelic cylinder is calculated and modeled to sustain demanding industrial pressure cycles. Below are our standard design boundaries and high-tier component specifications.

Technical Parameter	Handelic Standard Production Capability
Bore Diameter	25 mm to 500 mm
Stroke Length	Up to 6,000 mm
Working Pressure	Up to 35 MPa (High-Pressure Heavy Workloads)
Tube Material	ST52 (Cold-Drawn Honed / DOM, Ra ≤ 0.4 μm) / CK45 (Quenched & Tempered Premium Medium Carbon Steel)
Rod Surface Treatment	Hard Chrome Plating (Induction Hardened Options Available, High Salt Spray Resistance)
Seal Brands	Premium International Sealing Systems: Hallite / NOK / Parker
Welding Standard	ISO 3834-2 Certified Automated & Robotic Systems
OEM & ODM Service	Fully Supported (Custom development based on customer drawings, parameters, or samples)
MOQ	Flexible Engineering & Prototyping Quantities Supported
Standard Lead Time	15 to 90 Days (Dependent on raw material optimization and scheduling)

ENGINEERING & GLOBAL SUPPLY SUPPORT

- **Custom Engineering:** Seamless transition from your blueprint drawings, legacy standard part numbers, or physically worn samples into accurate digital production designs.
- **Non-Standard & Replacement Support:** Specialized team to handle low-volume, high-complexity custom OEM requirements and rapid replacement parts.
- **Full-Traceability Testing:** Every component is backed by chemical and structural analysis, non-destructive welding inspection, and rigorous final pressure verification.
- **International Export Footprint:** Decade-long delivery experience strictly handling ocean, air, and customs documentation serving complex logistics across Europe, Southeast Asia, North America, and the Middle East.

FACTORY MANUFACTURING & QUALITY CONTROL

State-of-the-Art Production & Advanced Defect Prevention

Quality is not an afterthought at Handelic—it is embedded inside every step of our cold-drawing, machining, welding, and sealing operations.

PRODUCTION & MANUFACTURING LINES

- **CNC Precision Machining:** Dedicated multi-axis CNC machine lines for extreme dimensional accuracy on heads, caps, and pistons.
- **Automated Robotic Welding:** Stabilized, multi-pass robotic welding ensuring perfect penetration without human variance.
- **Precision Fluid Clean Assembly:** Dust-controlled assembly zones protecting precision seals from particulate micro-abrasions.
- **Export Packaging Standards:** Anti-rust oiled, individually wrapped, and reinforced heavy crate container loading processes.

ADVANCED QUALITY INSPECTION INSTRUMENTS

Our facility is fully equipped with state-of-the-art laboratory testing instruments to verify metallurgy and dimensional limits:

- **Coordinate Measuring Machines (CMM)** for high-tolerance dimensional checks.
- **Ultrasonic & Magnetic Flaw Detectors** for structural welding verification.
- **Raw Material Spectroscopy** to verify accurate chemical elements.
- **Tensile Testing & Hardness Testers** to secure mechanical load limits.
- **Salt Spray Environmental Chambers** for anti-corrosion layer validation.

Quality Assurance Statement: All hydraulic cylinders are manufactured under strict ISO 9001:2015 and IATF 16949 quality management infrastructures. Full 100% static and dynamic hydraulic pressure testing is applied before warehouse exit. **All materials can be fully supplied with original EN 10204 3.1 Mill Test Certificates upon request.**

CONTACT OUR GLOBAL SOURCING DIVISION

For immediate pricing turnarounds, technical feasibility evaluations, or to submit your detailed RFQ and CAD drawings, please contact our international sales desk below:

CONTACT	Zhenghua Ke Regional Sales Director Mobile / WhatsApp: +86 13335741573
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Suggested Email CTA: *If you are currently sourcing premium hydraulic cylinders or looking for a highly capable, certified OEM manufacturing partner in Asia, we would be glad to discuss your project requirements, technical drawings, or direct component replacement needs.*