

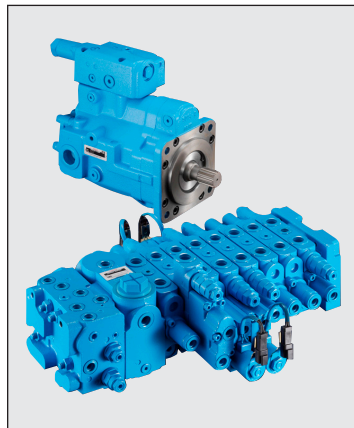
Rotary Center Joint



Features

- **High Pressure** - Maximum Operating Pressure 3625psi (25MPa); Capacity to Endure Pressure 4495psi (31MPa)
- **Operating Fluid** - Petroleum Type VG 32 to 56, Temperature Range -4 to 194°F (-20 to 90°C)
- **High Speed** - Maximum 20 rpm
- **Maximum 11 Ports Available**
- **Non Oil Leak Construction**
- **Lightweight** - 20.9 to 49.0 lbs. (9.5 to 22.2 kg)

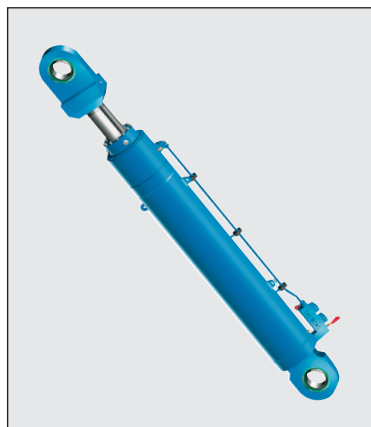
Load Sensing System



Features

- **Anti-Saturation Function**
- **Pressure Compensation Function** according to self loaded pressure
- **Cooperative System** with engine speed
- **LS control** + constant horsepower control

Hydraulic Cylinder



Features

- **Compatibility** - General purpose hydraulic cylinders have a high level of compatibility and interchangeability, plus very stable performance and quality.
- **Standardized** - All component parts are completely standardized for quick delivery and easy parts replacement, maintenance and inspection.
- **Durability** - Specially selected materials used in tubes, rods, packing, bolts and all other parts ensures durability in a tough environment.

NACHI

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NACHI

Hydraulic Equipment

For Compact Construction Machines



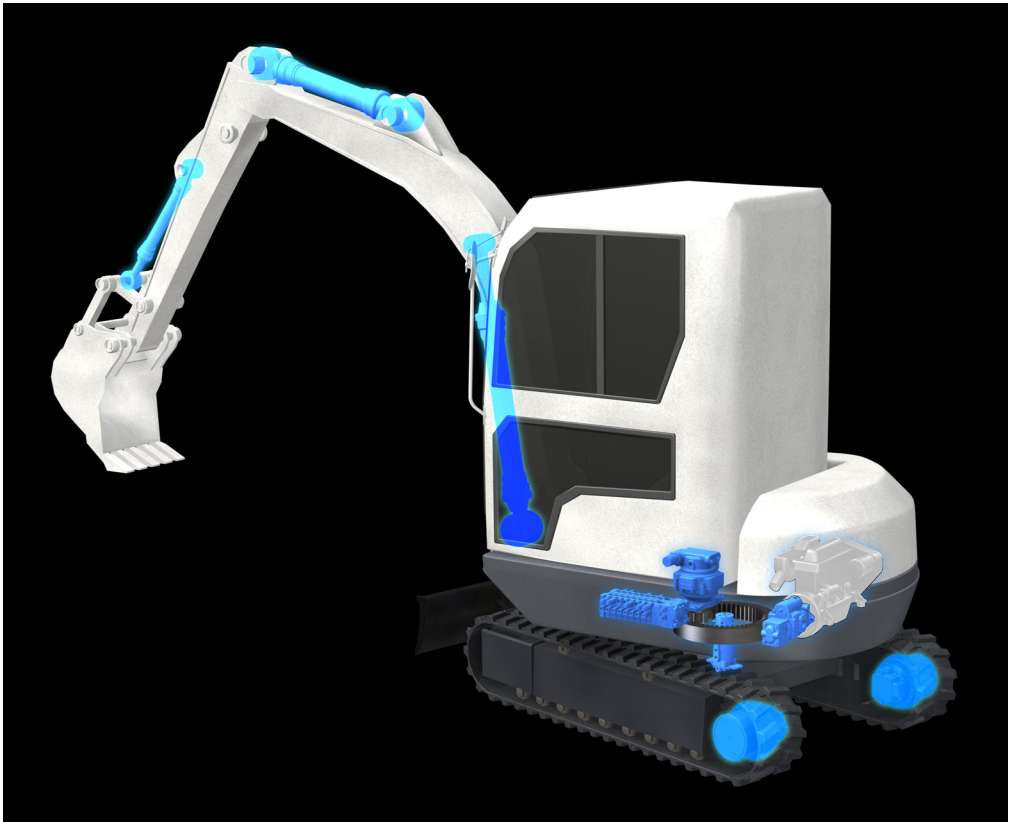
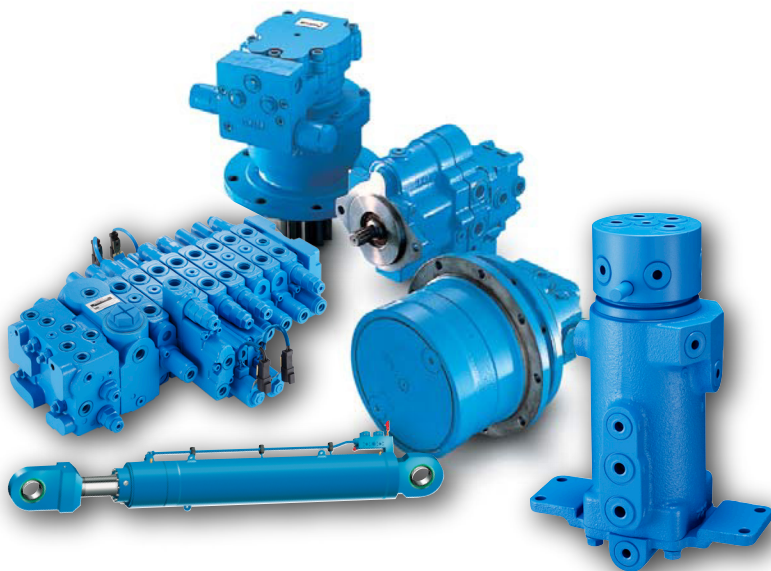
USING OUR COMPREHENSIVE CAPABILITIES,
NACHI can meet your requirements in the diversified
market of compact construction machinery.

There is a growing need for sophisticated
diverse compact construction machinery in
terms of function, productivity, maneuverability,
and versatility.

NACHI offers unique solutions for this market
with our pumps and motors.

Due to our extensive studies of piston motor
design, NACHI has succeeded in achieving
power efficiency, operational stability, and
substantial downsizing of the components.

Using our comprehensive capabilities, NACHI
meets the needs of the world's market for a **complete
line of products** for compact construction machinery.



Travel Motor



- Features**
- **All-in-One Design** - All required components for track drive motor are in one unit. (planetary gearbox, hydraulic motor, negative type parking brake, shockless relief valve, anti-cavitation check valve, other optional valve.)
 - **High Reliability** - All main parts, including the special-made angular ball bearing in the gearbox, are made and tested by NACHI.
 - **High Efficiency** - The axial piston motor can maintain good efficiency at high pressure ranges. It reduces engine stall, and enables better machine maneuverability.
 - **Auto Kick Down** - Speed changes automatically without operating a selector switch.
 - **2-Speed Function**

Slew Motor



- Features**
- **All in One Design** - All required components for slew motor are in one unit. (planetary gearbox, hydraulic motor, negative type parking brake, shockless relief valve, anti-cavitation check valve, other optional valve.)
 - **Compact** - Low height design.
 - **Maintenance-Free** - The gearbox is lubricated by hydraulic oil.
 - **High Efficiency** - The axial piston motor can maintain good efficiency at high pressure ranges.
 - **Shockless** - Shockless relief valves are standard.
 - **Timer Valve**

Split Flow Piston Pump



- Features**
- **Compact** - Easy installation in the engine room due to very short overall length.
 - **Less Than 1% Flow Difference** - Flow difference between each port is minimum.
 - **High Efficiency** - Axial piston pump can maintain high efficiency at high pressure ranges.
 - **Total Horsepower Control - The Engine Will Never Stall**
The constant horsepower control, including feedback from the option gear pump, can keep the pump drive power under the engine power curve.
 - **Optional Gear Pump** - Single or double gear pumps can be installed on the back of the piston pump.
 - **Eliminate Piping for the Case Drain**