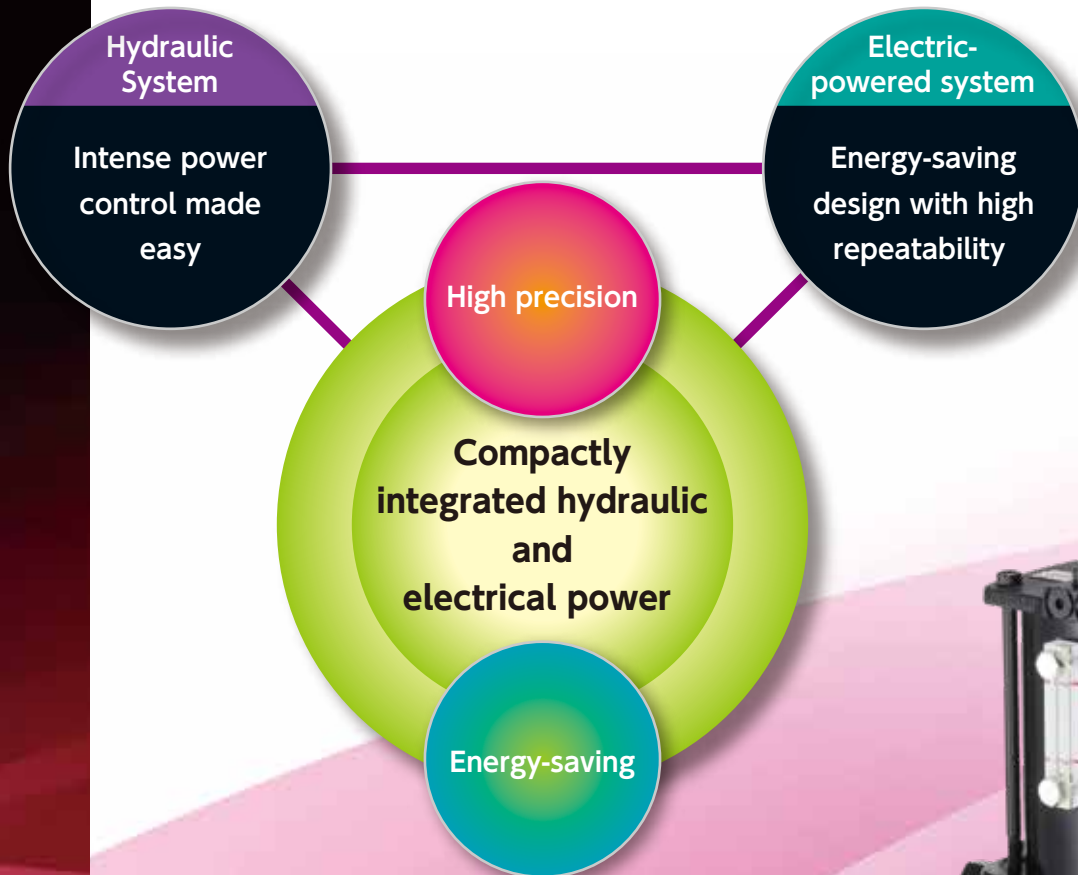


Realized high precision and energy saving

## POWER MEISTER

Enabled high precision position,  
speed and pressure control



- Control hydraulic pump rotational speed and orientation with AC motor
- Intense power of 30mPa maximum output
- Servo controller enables  $\mu\text{m}$  order position setting
- Compact and integrated space-saving design



## Application Example



### Precision Press Machines

#### Electrical/Electronic Parts Manufacturing

- **Highly precise position setting**  
Advance in high speed just before work piece and decelerate to set position Proven example: 5 $\mu$ m
- **Suppress surge pressure**  
Switch to pressurization control without surge pressure from high speed motion for improved product quality and reduced cycle time
- **High output power**  
Generate high-thrust 530kN with  $\phi$ 150mm cylinder at 30MPa maximum pressure
- **Space-saving**



### Roller Press

#### Laminators, Calendars and Rolling Mills

- **Energy-saving**  
Compact and intense output by hydraulic cylinder  
Lots of flexibility due to only piping required for installation of hydraulic unit
- **Highly precise pressure control**  
Control pressure drop: Pressure accuracy of  $\pm$  0.025MPa (Proven example)
- **Highly precise position control**  
Control roll gap: Position accuracy of  $\pm$  5 $\mu$ m (Proven example)



### Caulking Machines, Press Fitting Machines

- **Improved machine capabilities by high precision control system**  
Improved work (finished product) processing dimension accuracy by position control  
"Zero" cracked rivet by suppressing surge pressure  
Automated press fitting quality control from low to high pressure by highly precise pressure control
- **Space-saving**  
Install hydraulic unit in the idle space of machines  
(ex: Behind or under the table of machine)

## Other

### ■ Straightening Machines

Less than 1/10 consumption power and hydraulic fluid amount 1/40  
Space-saving hydraulic unit to install in the machine body

### ■ Bending Machines (such as press-brake, pipe bender, etc.)

Improved process dimension quality  
50% reduction in consumption power  
Compact design with less hydraulic fluid

### ■ Pipe Expander/Reducer Machines

Manage jig press fitting amount using position control at high precision

### ■ Grinders

Detect work defect using abnormal pressure detection feature  
Control grinding wheel position at 1 $\mu$ m when start grinding  
Reduce 95% of power when running long continuous pressurization  
Low heat generation

### ■ Powder Molding Machines

Reduce size of machine body by compact hydraulic unit saves energy

### ■ Testers

Control load in wide range, save energy at low noise

# NACHI

NACHI-FUJIKOSHI CORP.

[www.nachi.com](http://www.nachi.com)

Head Office Shiodome Sumitomo Bldg. 17F, 1-9-2 Higashi-Shinbashi, Minato-ku, Tokyo 105-0021 TEL:+81-(0)3-5568-5240 FAX:+81-(0)3-5568-5236

NACHI AMERICA INC. HEAD QUARTERS	Indiana, U.S.A.	TEL:+1-317-530-1001	FAX:+1-317-530-1011	<a href="http://www.nachiamerica.com/">http://www.nachiamerica.com/</a>
NACHI EUROPE GmbH	GERMANY	TEL:+49-(0)2151-65046-0	FAX:+49-(0)2151-65046-90	<a href="http://www.nachi.de/">http://www.nachi.de/</a>
NACHI TECHNOLOGY (THAILAND) CO., LTD.	THAILAND	TEL:+66-2-714-0008	FAX:+66-2-714-0740	<a href="http://www.nachi.co.th/">http://www.nachi.co.th/</a>
NACHI SINGAPORE PTE. LTD.	SINGAPORE	TEL:+65-65587393	FAX:+65-65587371	<a href="http://www.nachinip.com.sg/">http://www.nachinip.com.sg/</a>
FUJIKOSHI-NACHI (MALAYSIA) SDN. BHD.	MALAYSIA	TEL:+60-(0)3-80247900	FAX:+60-(0)3-80235884	
NACHI-FUJIKOSHI (CHINA) CO., LTD.	CHINA	TEL:+86-(0)21-6915-2200	FAX:+86-(0)21-6915-5427	<a href="http://www.nachi-china.com.cn/">http://www.nachi-china.com.cn/</a>

● Features may change without notice. ● Unauthorized use of the contents of this catalog are prohibited.

CATALOG NO. **H9314E**

2019.12-MD-MIZUNO