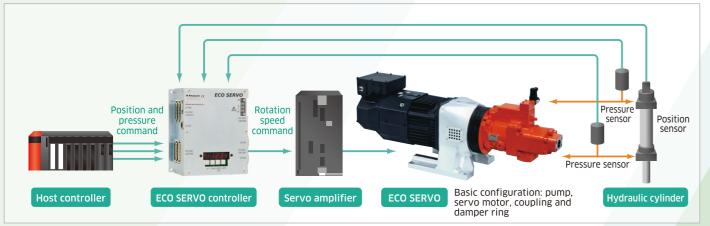
### Product lineup

Pump displacement		cm³	22		45		80		140		200		500
Inverter drive	Motor capacity	kW	7.5	11	22	30	30	37	45	55	75	90	The pump displacement of 500 cm³ is individually available. When considering this capacity, please contact Kawasaki for more details.
	Rated torque*2	N∙m	47.7	70	140	191	191	235	286	350	477	572	
	Max. torque*3	N∙m	71.6	105	211	287	287	353	429	525	715	858	
Servo drive	Motor capacity	kW	5	7	7	11	11	15	37	45	45	55	
	Rated torque*2	N∙m	23.9	33.4	33.4	70	70	95.5	236	286	286	350	
	Max. torque*3	N∙m	71.6	100	100	210	210	286	707	859	859	1,050	
Pump pressure	Max. operation	MPa	32										
	Peak	MPa	35										

\*1: When you consider other combination of pump displacement and motor capacity, please contact Kawasaki for more details. \*2: Rated speed of electric motor is 1,500 min-1 (2,000 min-1 for the servo drive rated at 5 kW and 7 kW). \*3: The maximum torque is short-time rating value. Please select the appropriate servo or inverter drive, so that the effective torque for each cycle is below the corresponding rated torque.

### System configuration



Related products Pump, tank, and valve block, all-in-one energy saving hydraulic units

### **ECO SERVO Light / Avant**

These newly launched products, selectable from two hydraulic units according to your use, offer long system longevity, are easy to maintain, and use minimum hydraulic oil for energy saving.



### Kawasaki Heavy Industries, Ltd.

**Precision Machinery Division** https://www.khi.co.jp/kpm/

### **Tokyo Head Office**

1-14-5 Kaigan, Minato-ku, Tokyo 105-8315, Japan Tel: +81-3-3435-6879 Fax: +81-3-3435-2023

### **Kobe Head Office**

Kobe Crystal Tower, 1-3 Higashikawasaki-cho 1-chome, Chuo-ku, Kobe 650-8680, Japan Tel: +81-78-360-8607 Fax: +81-78-360-8609

### Nishi-kobe Works

234, Matsumoto, Hasetani-cho, Nishi-ku, Kobe 651-2239, Japan Tel: +81-78-991-1133 Fax: +81-78-991-3186

### **OVERSEAS SUBSIDIARIES**

Kawasaki Precision Machinery (UK) Ltd. Ernesettle Lane, Ernesettle, Plymouth, Devon, PL5 2SA United Kingdom Tel: +44-1752-364394 Fax: +44-1752-364816

### Kawasaki Precision Machinery (U.S.A.), Inc. 3838 Broadmoor Avenue S.E. Grand Rapids, Michigan 49512, U.S.A. Tel: +1-616-975-3100 Fax: +1-616-975-3103

Kawasaki Precision Machinery (Suzhou) Ltd. 668 JianLin Rd, New District, Suzhou, 215151 China Tel: +86-512-6616-0365 Fax: +86-512-6616-0366

Kawasaki Precision Machinery Trading (Shanghai) Co., Ltd. 17th Floor (Room 1701), The Headquarters Building, No168, XiZang Road (M), Huangpu District, Shanghai, 200001, China Tel: +86-21-3366-3800 Fax: +86-21-3366-3808

Kawasaki Chunhui Precision Machinery (Zhejiang) Ltd. No.200 Yasha Road Shangyu Economic Development Zone, Shangyu, Zhejiang, 312300, China Tel: +86-575-8215-6999 Fax: +86-575-8215-8699

(Sinchon-dong)6, Gongdan-ro 98beon-gil, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Korea (51567) Tel: +82-55-210-5900 Fax: +82-55-286-5557

Wipro Kawasaki Precision Machinery Private Limited No. 15, Sy. No. 35 & 37, Kumbalgodu Industrial Area, Kumbalgodu Village, Kengeri Hobli, Bangalore, -560074, India



Cat. No. KPM2302 Jan. '23@

# **ECO SERVO**

Electro-hydraulic hybrid system

New-generation high-performance control system that surpasses electric servo



## ECO SERVO Electro-hydraulic hybrid system

## **Environmentally friendly ECO SERVO changes** the operation of hydraulic machines.

ECO SERVO electrically controls the flow rate of hydraulic pumps and maintains the optimal operating conditions, providing solutions to the problems that industrial machine systems need to address, such as high capacity, high efficiency, and energy saving.

Reduced loss: reduced heat

**Energy** saving

Controlled speed; reduced power consumption

> Downsizing by a simplified hydraulic circuit

Reduced hydraulic oil

\*In comparison with existing hydraulic systems

ECO SERVO

installation area

Reduced



### Expanded applications of ECO SERVO:

Various press machines (forging, automotive parts forming, CFRP forming, and scrapping), iron and steel machinery, transport equipment, machine tools, injection molding machines, test equipment, ventilation equipment, commercial dehydrators, marine civil engineering machinery, environmental facilities, etc.

### **Energy saving**

An excellent energy saving system is achieved by highly efficient pump with controlled speed.

### Improved controllability and control functionality

The electro-hydraulic hybrid system achieved excellent responsiveness and reproducibility comparable with an electric system.

### Lower noise

Idling stop system reduces overall operating noise.

### Reduced cost

Variable displacement pump with speed controller optimizes the motor capacity, thus reducing cost.

### **Improved** maintainability

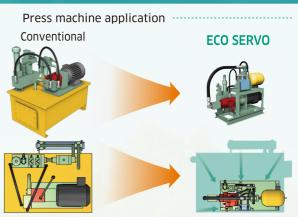
A simplified hydraulic circuit eliminates operator's complicating adjusting works.

### Compact configuration

Downsized oil tank and cooler capacity achieves more space saving.

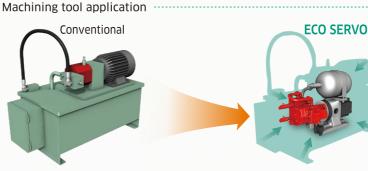
ECO SERVO provides the optimal solutions to the various issues of industrial machine systems.

Substantially down-sized oil tank





**Space-saving** machine tools



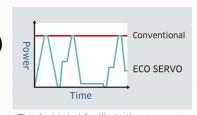
Oil tank (20 Lit)



Industrial machine application

Substantially reduced power consumption: reduced CO<sub>2</sub> emissions





\*The chart is just for illustrative purpose