

Product Information for Agricultural and Construction Equipment

Koro



JTEKT CORPORATION

For superior strength and durability in all en vironments

Heavy machinery in the agriculture and construction supports economic growth and infra structure, and is indispensable in daily life. JTEKT's highly functional products contribute to ensuring long service life in severe conditions and improving reliability.

> **JTEKT p roducts** supporting hea vy machinery in agriculture an d construction

> > Under such severe conditions, JTEKT responds with



No.1 & Only One technologies.

Responding to Needs with No.1 & Only One Technologies

With a manufacturing history of more than 90 years, JTEKT clearly understands the needs of its customers, promptly delivers the reliability and product competitiveness required, and backs it up with a global support system.



- Inner specification optimization
- •Crowning optimization
- ·Low temperature rise design
- •KE heat treatment: case-hardened steel
- •SH heat treatment: bearing steel
- •Shaft System Analysis Program
- •CAE analysis (static analysis/dynamic analysis)
- Benchmark evaluation tests
- •X-ray/ultrasound analysis
- •Special coating process
- •Surface roughness optimization

JTEKT products responding to agricultural/ construction machinery needs 🕕







JTEKT products responding to agricultural/construction machinery needs 2





 Roller maximized Number of rollers increased · Roller position stabilized

Inner ring ·JTEKT specification steel

Bearing composition diagram









Low temperature technology

Low temperature performance improved **2-fold**

Features

Sealing performance of hydraulic pump and other parts improved by enhancing low-temperature daynamic run out followability.



Hydraulic Components



With a standard lineup by highly efficient external gear pump technologies, JTEKT hydraulic systems are built to respond to customer's requirements and specific needs.



Cooling fan system with hydraulic motor control (HMC) (HMC system)

Hydraulic control of fan speed ensures optimized cooling conditions for the engine and radiator.



Hydraulic (external gear) pump/motor lineup

		Model	Basic Displacement	Max. Pre
	Hydraulic (external gear) pumps	6 series 43 models	0.25-100cc/rew	33M
	Hydraulic (external gear) motors	4 series 29 models	0.25-100cc/rew	25M

With a basic displacement of 0.25-100cc/rev and maximum operating pressure of up to 33MPa, wide-range products can be provided to customer's needs.



Electric pump set/power pack lineup

		Model	Flow Rate	Output P
	Electric pump set (Micro/Mini)	DC Type	0.4-25 L/min	400-400
		АС Туре	1-25 L/min	550-400
	Power pack (Micro/Mini)	DC Type	0.4-25 L/min	400-40
		AC Type	0.4-25 L/min	550-400







Global Technical Support (Bearing Development Bases)





Europe (5 bases)

European Region ·The Netherlands (Almere) ·Germany (Munich) ·Germany (Künsebeck) France (Colmar) ·The Czech (Brno)



China / Southeast Asia (2 bases)

ASEAN Region ·China (WUXI) ·Thailand (Bangkok)



JAPAN Region ·W-TEC (Osaka) ·C-TEC (Aichi) ·T-TEC (Kanagawa) ·R&D (Nara)



Americas (2 bases) North America Region

·U.S.A. (Michigan) ·U.S.A. (South Carolina)

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Value & Technology





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