

JTEKT

JTEKT CORPORATION

# For superior strength and durability in all en vironments

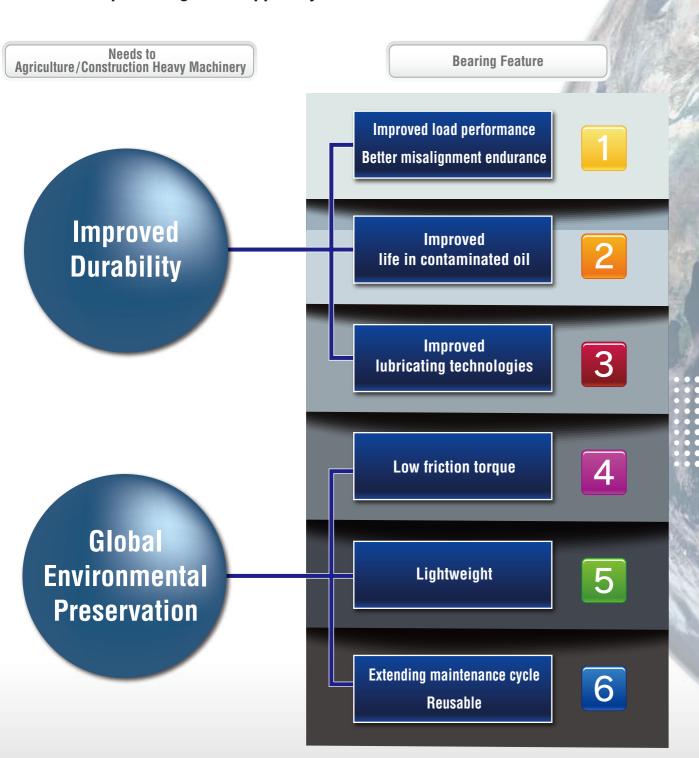


# Responding to Needs with No.1 & Only One Technologies

With a manufacturing history of more than 90 years,

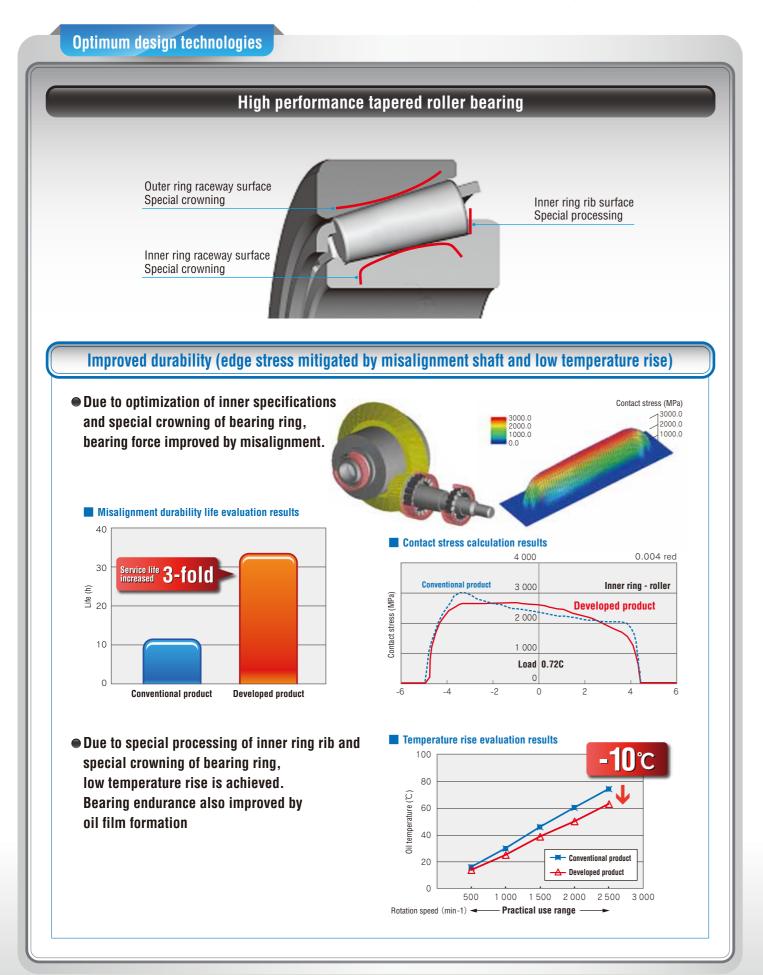
JTEKT clearly understands the needs of its customers,

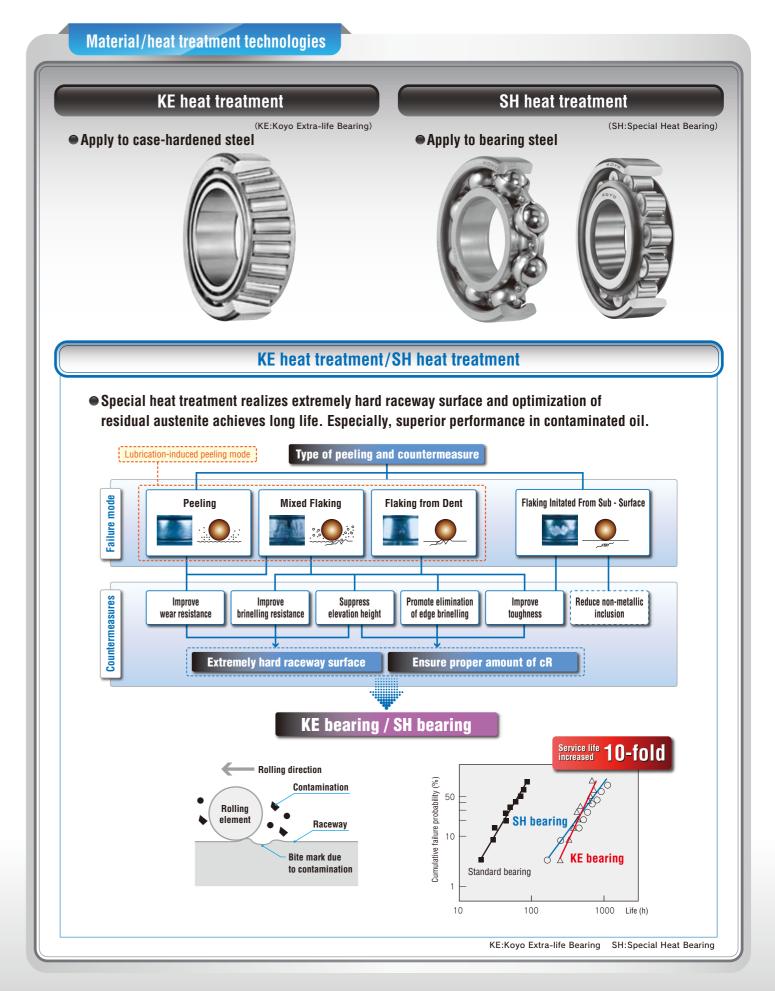
promptly delivers the reliability and product competitiveness required,
and backs it up with a global support system.





# JTEKT products responding to agricultural/construction machinery needs 1





# JTEKT products responding to agricultural/construction machinery needs @



#### **Large-sized Bearing Technology Development Center**

• JTEKT has established and started operation of the Large-size Bearing Technology Development Center, where large-sized bearings used in industrial machinery are evaluated and analyzed. Until now, large bearings were manually inspected and then put into the actual machinery for basic evaluations. However, the newly established development center enables more detailed evaluation by reproducing environments close to those of actual use inside the company.



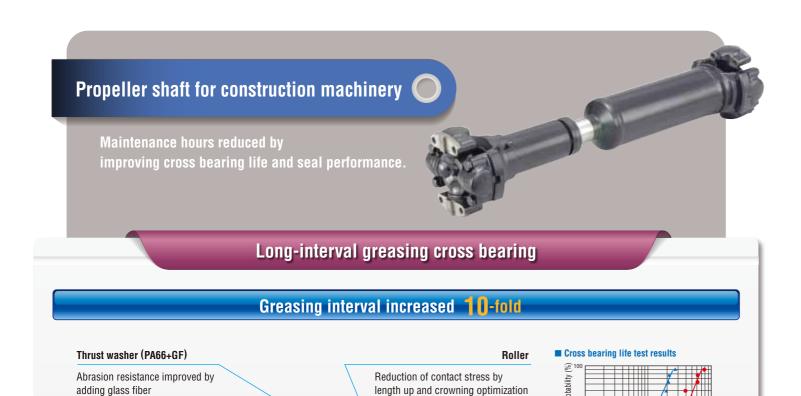












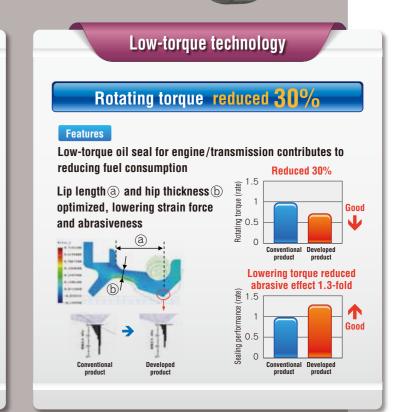
# Spline seal structure of muddy water resistance improvement Muddy water resistance improved 5-fold Oil seal Cover tube Rigidity of seal lip increased by Function of labyrinth achieved by Vent (dedicated to exhaust)/O ring changing material, extending the distance between seal and spline from NBR to polyurethane rubber Prevent suction of muddy water when spline sliding

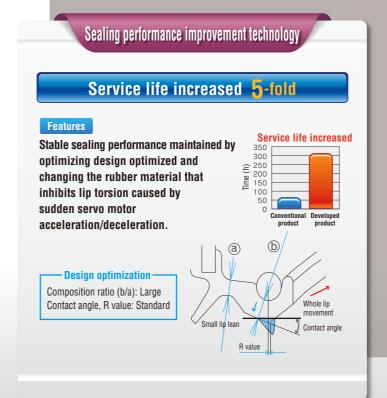
## Seal technologies responding customers' needs for a variety of applications. Muddy water resistance technology Lip wear width reduced 60% Features ■ Muddy water resistance performance results using actual car Side lip added to axle oil seal, creating multi-structured lip that prevents muddy water inclusion/oil leakage when traveling. Tub formed using side lip Metal case Each flange bend inhibits Spring [Muddy water side] Main lip Side lip

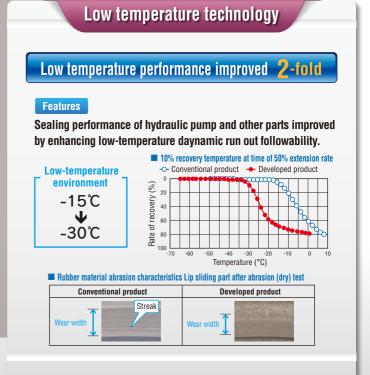
Minor lip

[Oil side]

Oil seal







Oil seal

Seal lip from double to triple,

and the optimization of the

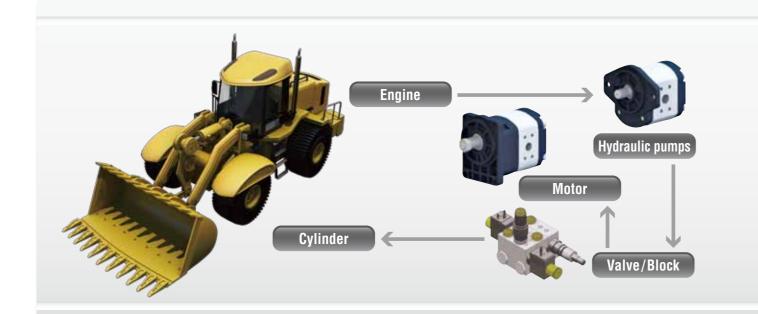
shape and position

## **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.



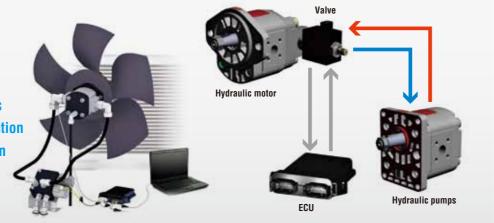
## Cooling fan system with hydraulic motor control (HMC) (HMC system)



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

#### Features

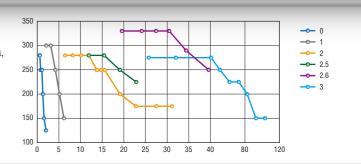
- •Fuel consumption reduced
- Low noise
- On-demand cooling possible by setting various parameters
- Downsizing and Weight reduction
- Fan-stop and Reverse function



### Hydraulic (external gear) pump/motor lineup

	Model	Basic Displacement	Max. Pressure	
Hydraulic (external gear) pumps	6 series 43 models	0.25-100cc/rew	33Мр	Series 0 Series 1 Series 2 & 2,5 Series 2,6 Series 3
Hydraulic (external gear) motors	4 series 29 models	0.25-100cc/rew	25Мр	Series 0 Series 1 Series 2 & 2,5 Series 3

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 Power	
Electric pump set	DC Type	0.4-25 L/min	400-4000 W	in the second
(Micro/Mini)	AC Type	1-25 L/min	550-4000 W	
Power pack	DC Type	0.4-25 L/min	400-4000 W	
(Micro/Mini)	АС Туре	0.4-25 L/min	550-4000 W	

## Valve/Block lineup

Valve	Pilot poppet Solenoide valves	1	Spool solenoide valves	There are a second
Block	BAF Assocative Function Blocks for in-Line mounfing		MBS Modular Block System	

#### Global Technical Support (Bearing Development Bases)



#### www.jtekt.co.jp

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# **Value & Technology**



