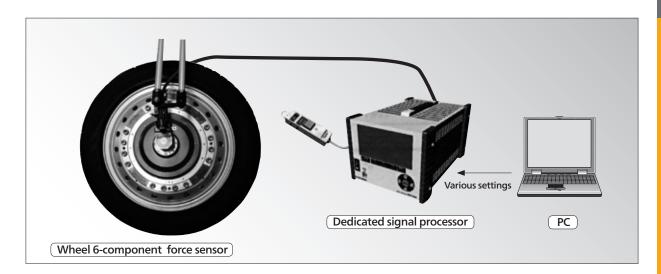
## Wheel 6-component Force Measuring System

Slip-ring Type



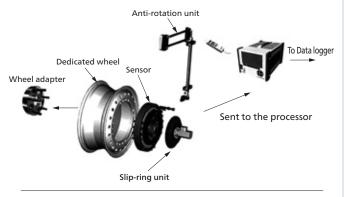
## High reliability and accurate transmission of slip-ring signals

- ●Thin and lightweight sensor
- ●The sensor using slip rings ensure easy handling
- •Signal processors for four wheel are in the one unit.
  - A high-speed DSP improves the processing capability.
- Dedicated signal processor contains an indicator which is easy to view in the field with a userfriendly remote controller.

This system enables measurement of 3-component force (Fx, Fy, Fz) acting on 3 orthogonal axes to the running axle at the wheel mounting part and 3 moments (Mx, My, Mz) around the axe. The wheel itself is made to act as the sensor to detect the 6-component force and output signals are transmitted by the slip-ring to the measuring instrument.

## **Specifications**

Specifications			
Measurement channels 8 (Force 3, torque 3, sensor temperature 1,			
and rotary signal 1)			
Rated Output	±10 V (Analog)		
Capacity (Standard)			
	Measuring components		(Standard) Rated Capacity
		Fx (Longitudinal force)	±20 kN
	Load	Fy (Lateral force)	±12 kN
		Fz (Vertical force)	±20 kN
	Torque	Mx (Yaw moment)	±2.4 kN·m
		My (Torque)	±4.0 kN·m
		Mz (Roll torque)	±2.4 kN·m
	Rotary Speed	N (Rotary Speed)	±2000 rpm
Note: For other rated capacity, please contact us.			
Data Processing	Real-time processing, and converting the still		
	coordinate system to the output voltage		
Installation	Using the hub adapter to install sensors.		
	With exchanging wheel adapters, various of PCD		
	are applicable.		



## **System Components**

- ●6-component force sensor
- Slip-ring unit
- Signal processor

