Main specifications

Applicable vehicle		From a scooter to a large vehicle	
Vehicle data	Mass	100～400kg	100～600kg
	Maximum axle weight	300kg	300kg
	Maximum speed	200km/h	300km/h
Rated capacity Respiration / driving		55/40kW	110/80kW
Roller surface force		1,980N	3,960N
Roller	Diameter	1,061mm	
	Width	300mm	
	Material	Iron or aluminum	
	Surface shape	Smooth, knurling, or non-slip coating	
Inertia compensation method		All electric inertia or mechanical inertia (maximum 5 adjustment disks) + electric inertia	
Vehicle cooling fan		We will meet the customer's requests in terms of rating and shapes.	
Actuator for vehicle self-driving		Each control on throttle, clutch, and shift by the AC servo motor	

Notes *1. Please consult us regarding the allowable weight of test vehicle.
*2. It is possible to finalize the rated capacity and the roller surface force in accordance with the the testing details.

Measuring and Control System (MEIDACS-DY6200P)

Item		Main functions		
Running resistance setting		Type notation by Japanese, US, and EU standards ・Running resistance correction & verification functions, mechanical loss measuring function, running resistance data ・Mechanical loss data saving ・Printing		
Display functions		Real-time monitoring function		
Vehicle self-driving functions (using the self-driving actuator)		・Operation pattern programming: maximum number of pattern repetitions 999,999 times. Graph showing on the programmed operation pattern, step transition conditions ・Setting of test information: vehicle information		
Measurement condition setting		Average measurement	High speed measurement	Continuous measurement
Measuring condition setting		Start button	Start button Measurement items (threshold high, low, uphill passing, downhill passing, width)	
Ending-measurement condition		Stop button	Stop button Measurement items (threshold high, low, uphill passing, downhill passing, width)	
			Time (s)	Time (h)
Measured items		Measurement, arithmetic calculation, special measuring items	Maximum 100 items from the measurement and operation items	Measuring and computing items
Measuring period		0.1 (s)	1～999 (ms)	1～99.9 (s)
Maximum number of measuring times		8,000,000 times / number of measuring items	400,000 times / number of measuring items	50,000 times
		However, the upper limit of the maximum number of measurements per measurement item is 50,000 times.		
Number of data files		One file per test	Nine hundred and ninety-nine file per test	One file per test
Other		・Measurement interval period (with the number of measurements) ・Time (s), linking with the completion of the fuel consumption measurement ・Number of measurement items: maximum 250 items		
Monitoring upper and lower limits		・Monitored directions ・Higher limit, high limit, low limit, lower limit ・Setting of the remote monitoring timer		
Correlation monitoring		・Monitoring pattern (in combination): within 10 patterns ・Monitored directions:Higher limit, high limit, low limit, lower limit ・Setting of the remote monitoring timer		
Measurement during failure	For high speed	・Measurement period / 10 (ms) pitch of 10 (ms) to 90 (ms) ・Number of measurements after the occurrence of failure: maximum 3,000 times ・Measuring items: maximum 50 items		
	For low speed	・Measurement period / 0.1 (s) to 99.9 (s) ・Number of measurements after the occurrence of failure: maximum 3,000 times ・Measuring items: maximum 50 items		
Standard graph generation		Types of generated spreadsheet data: listing data: average measurement data, high speed measurement data, continuous measurement data		
External CPU interface		LAN (for exhaust gas analysis communication), RS-232C, communication with the driver's aid, data scramble in the common folder		
Security level		Setting three security levels on the user side / Setting the range of operation for each security level		
Option		Gradient pattern instruction function		