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Comparison Chart		
PEGASEM 5 th Wheel Assemblies 20'' Wheel size		
General Features	5W-20-Standard	5W-20-Economy
Distance Measuring Precision	excellent	excellent
Speed Measuring Precision	excellent	good
Measuring Direction	forward	forward
Carefree Reversing Ability Without Lifting the Wheel	yes	yes
Targeted Application Range	General Vehicle testing. Ideal for frequent heavy duty applications on plain and semi-rough roads, and icy test tracks	For occasional use as well as for low and medium speed testing
Maximum Swivel Range	± 90°	± 90°
Speed Range	0 to 250 km/h	0 to 130 km/h
Fork and Frame	5W-20-Standard	5W-20-Economy
Fork Design	round stainless steel tubes	square steel tubes
Fork Surface	polished	hot dip galvanised
Cardan Joint Bearings	stainless ball bearings	polymer friction bearings
Cardan Joint Design	machined high tensile aluminium alloy	welded aluminium tubes
Damper Type	hydraulic damper with constant force characteristic, filled with special aerospace oil	spring damper with linearly increasing force
Damper Temperature Range	-55° to 60 °C	–30°C to 60 °C
Damper Travel	150 mm (6 ")	100 mm (4 ")
Wheel	5W-20-Standard	5W-20-Economy
Number Of Spokes	48	36
Rim	double side-wall, chrome plated	single wall steel rim
Hub	specially designed heavy duty hub with cartridge bearings	standard bicycle hub
Hub To Fork Mounting	quick release lever	quick release lever
Tyre	20" high pressure racing tyre	20" standard bicycle tyre
Pulso Tropoducer	5W-20-Standard	
Pulse Transducer	PEGASEM NFS Sensor with	5W-20-Economy PEGASEM BFS Sensor with
Туре	internal signal processing, 128 pulses per revolution. Analogue speed output included	digital output, 64 pulses per revolution
		5W-20-Economy
Miscellaneous	5W-20-Standard	
Miscellaneous Wheel To Vehicle Connection	5W-20-Standard P-Lock guick fasteners	
Miscellaneous Wheel To Vehicle Connection Vehicle Mounting Options	P-Lock quick fasteners Using elements of the PEGASEM	Sliding tongue and groove Using elements of the PEGASEM
Wheel To Vehicle Connection	P-Lock quick fasteners	Sliding tongue and groove
Wheel To Vehicle Connection Vehicle Mounting Options Transportation Case	P-Lock quick fasteners Using elements of the PEGASEM FMS Mounting System included	Sliding tongue and groove Using elements of the PEGASEM FMS Mounting System not available
Wheel To Vehicle Connection Vehicle Mounting Options	P-Lock quick fasteners Using elements of the PEGASEM FMS Mounting System	Sliding tongue and groove Using elements of the PEGASEM FMS Mounting System

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Comparison Chart		
PEGASEM 5 th Wheel Assemblies 6" and 12" Wheel Size		
General Features	5W-6	5W-12
Distance Measuring Precision	excellent	excellent
Speed Measuring Precision	excellent	excellent
Measuring Direction	forward and backwards	forward and backwards
Carefree Reversing Ability Without Lifting the Wheel	yes	yes
Targeted Application Range	Indoor and outdoor testing of small industrial vehicles on smooth roads Escalator testing	Same as 5W-6 but more suitable on semi-rough terrain
Speed Range	0 to 50 km/h	0 to 100 km/h
Mechanical	5W-6	5W-12
Mechanical Maximum Swivel Range	360 ° endless	360 ° endless
Maximum Swivel Range Tyre	360 ° endless 6" PUR type, puncture proof	
Maximum Swivel Range Tyre Number Of Spokes	360 ° endless 6" PUR type, puncture proof 5	360 ° endless 12" pneumatic 20
Maximum Swivel Range Tyre Number Of Spokes Rim and Hub	360 ° endless6" PUR type, puncture proof5Integrated rim and hub with cartridge bearings	360 ° endless 12" pneumatic 20 Aluminium rim, heavy duty hub with cartridge bearings
Maximum Swivel Range Tyre Number Of Spokes	360 ° endless6" PUR type, puncture proof5Integrated rim and hub with cartridge bearingsnuts on axle thread	360 ° endless 12" pneumatic 20 Aluminium rim, heavy duty hub with cartridge bearings quick release lever
Maximum Swivel Range Tyre Number Of Spokes Rim and Hub Hub to Fork Mounting Mass	360 ° endless 6" PUR type, puncture proof 5 Integrated rim and hub with cartridge bearings nuts on axle thread 2.5 kg	360 ° endless 12" pneumatic 20 Aluminium rim, heavy duty hub with cartridge bearings quick release lever 4 kg
Maximum Swivel Range Tyre Number Of Spokes Rim and Hub Hub to Fork Mounting	360 ° endless6" PUR type, puncture proof5Integrated rim and hub with cartridge bearingsnuts on axle thread	360 ° endless 12" pneumatic 20 Aluminium rim, heavy duty hub with cartridge bearings quick release lever
Maximum Swivel Range Tyre Number Of Spokes Rim and Hub Hub to Fork Mounting Mass Ground Clearance	360 ° endless 6" PUR type, puncture proof 5 Integrated rim and hub with cartridge bearings nuts on axle thread 2.5 kg	360 ° endless12" pneumatic20Aluminium rim, heavy duty hubwith cartridge bearingsquick release lever4 kg
Maximum Swivel Range Tyre Number Of Spokes Rim and Hub Hub to Fork Mounting Mass Ground Clearance Pulse Transducer	360 ° endless 6" PUR type, puncture proof 5 Integrated rim and hub with cartridge bearings nuts on axle thread 2.5 kg 100 mm	360 ° endless 12" pneumatic 20 Aluminium rim, heavy duty hub with cartridge bearings quick release lever 4 kg 180 mm
Maximum Swivel Range Tyre Number Of Spokes Rim and Hub Hub to Fork Mounting Mass Ground Clearance	360 ° endless 6" PUR type, puncture proof 5 Integrated rim and hub with cartridge bearings nuts on axle thread 2.5 kg 100 mm 5W-6	360 ° endless 12" pneumatic 20 Aluminium rim, heavy duty hub with cartridge bearings quick release lever 4 kg 180 mm 5W-12
Maximum Swivel Range Tyre Number Of Spokes Rim and Hub Hub to Fork Mounting Mass Ground Clearance Pulse Transducer	360 ° endless 6" PUR type, puncture proof 5 Integrated rim and hub with cartridge bearings nuts on axle thread 2.5 kg 100 mm 5W-6 PEGASEM NFS Sensor with	360 ° endless 12" pneumatic 20 Aluminium rim, heavy duty hub with cartridge bearings quick release lever 4 kg 180 mm 5W-12 PEGASEM NFS Sensor with
Maximum Swivel Range Tyre Number Of Spokes Rim and Hub Hub to Fork Mounting Mass Ground Clearance Pulse Transducer Type Pulse Rate	360 ° endless 6" PUR type, puncture proof 5 Integrated rim and hub with cartridge bearings nuts on axle thread 2.5 kg 100 mm 5W-6 PEGASEM NFS Sensor with internal signal processing	360 ° endless 12" pneumatic 20 Aluminium rim, heavy duty hub with cartridge bearings quick release lever 4 kg 180 mm <u>5W-12</u> PEGASEM NFS Sensor with internal signal processing 256 per revolution, TTL compatible
Maximum Swivel Range Tyre Number Of Spokes Rim and Hub Hub to Fork Mounting Mass Ground Clearance Pulse Transducer Type	360 ° endless 6" PUR type, puncture proof 5 Integrated rim and hub with cartridge bearings nuts on axle thread 2.5 kg 100 mm 5W-6 PEGASEM NFS Sensor with internal signal processing 256 per revolution, TTL compatible 1 V per 10 km/h	360 ° endless 12" pneumatic 20 Aluminium rim, heavy duty hub with cartridge bearings quick release lever 4 kg 180 mm 5W-12 PEGASEM NFS Sensor with internal signal processing 256 per revolution, TTL compatible 1 V per 10 km/h
Maximum Swivel Range Tyre Number Of Spokes Rim and Hub Hub to Fork Mounting Mass Ground Clearance Pulse Transducer Type Pulse Rate Analogue Speed Output	360 ° endless 6" PUR type, puncture proof 5 Integrated rim and hub with cartridge bearings nuts on axle thread 2.5 kg 100 mm SW-6 PEGASEM NFS Sensor with internal signal processing 256 per revolution, TTL compatible 1 V per 10 km/h Other ratings can be selected	360 ° endless 12" pneumatic 20 Aluminium rim, heavy duty hub with cartridge bearings quick release lever 4 kg 180 mm SW-12 PEGASEM NFS Sensor with internal signal processing 256 per revolution, TTL compatible 1 V per 10 km/h Other ratings can be selected
Maximum Swivel Range Tyre Number Of Spokes Rim and Hub Hub to Fork Mounting Mass Ground Clearance Pulse Transducer Type Pulse Rate Analogue Speed Output Max. Analouge Output Voltage	360 ° endless 6" PUR type, puncture proof 5 Integrated rim and hub with cartridge bearings nuts on axle thread 2.5 kg 100 mm 5W-6 PEGASEM NFS Sensor with internal signal processing 256 per revolution, TTL compatible 1 V per 10 km/h Other ratings can be selected 4 VDC	360 ° endless 12" pneumatic 20 Aluminium rim, heavy duty hub with cartridge bearings quick release lever 4 kg 180 mm SW-12 PEGASEM NFS Sensor with internal signal processing 256 per revolution, TTL compatible 1 V per 10 km/h Other ratings can be selected 4 VDC
Maximum Swivel Range Tyre Number Of Spokes Rim and Hub Hub to Fork Mounting Mass Ground Clearance Pulse Transducer Type Pulse Rate Analogue Speed Output Max. Analouge Output Voltage Power Supply	360 ° endless 6" PUR type, puncture proof 5 Integrated rim and hub with cartridge bearings nuts on axle thread 2.5 kg 100 mm SW-6 PEGASEM NFS Sensor with internal signal processing 256 per revolution, TTL compatible 1 V per 10 km/h Other ratings can be selected	360 ° endless 12" pneumatic 20 Aluminium rim, heavy duty hub with cartridge bearings quick release lever 4 kg 180 mm SW-12 PEGASEM NFS Sensor with internal signal processing 256 per revolution, TTL compatible 1 V per 10 km/h Other ratings can be selected
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