

Comparison Chart

PEGASEM 5th 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
Pulse Transducer	5W-20-Standard	5W-20-Economy
Type	PEGASEM NFS Sensor with internal signal processing, 128 pulses per revolution. Analogue speed output included	PEGASEM BFS Sensor with digital output, 64 pulses per revolution
Miscellaneous	5W-20-Standard	5W-20-Economy
Wheel To Vehicle Connection	P-Lock quick fasteners	Sliding tongue and groove
Vehicle Mounting Options	Using elements of the PEGASEM FMS Mounting System	Using elements of the PEGASEM FMS Mounting System
Transportation Case	included	not available
Price	5W-20-Standard	5W-20-Economy
Price ex works	On request	On request

Comparison Chart

PEGASEM 5th 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
Maximum Swivel Range	360 ° endless	360 ° endless
Tyre	6" PUR type, puncture proof	12" pneumatic
Number Of Spokes	5	20
Rim and Hub	Integrated rim and hub with cartridge bearings	Aluminium rim, heavy duty hub with cartridge bearings
Hub to Fork Mounting	nuts on axle thread	quick release lever
Mass	2.5 kg	4 kg
Ground Clearance	100 mm	180 mm
Pulse Transducer	5W-6	5W-12
Type	PEGASEM NFS Sensor with internal signal processing	PEGASEM NFS Sensor with internal signal processing
Pulse Rate	256 per revolution, TTL compatible	256 per revolution, TTL compatible
Analogue Speed Output	1 V per 10 km/h Other ratings can be selected	1 V per 10 km/h Other ratings can be selected
Max. Analogue Output Voltage	4 VDC	4 VDC
Power Supply	5 – 30 VDC, < 20 mA	5 – 30 VDC, < 20 mA
Miscellaneous	5W-6	5W-12
Wheel To Vehicle Connection	Sliding tongue and groove	Sliding tongue and groove
Vehicle Mounting Options	Using elements of the PEGASEM FMS Mounting System	Using elements of the PEGASEM FMS Mounting System
Price	5W-6	5W-12
Price ex works	On request	On request