

Comparison Chart

PEGASEM 5th Wheel Assemblies

20" Wheel size



General Features	5W-20-Standard	5W-20-AL / 5W20 Spike
Distance Measuring Precision	excellent	excellent
Speed Measuring Precision	excellent	excellent
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	For low and medium speed testing 5W20-AL with airless, maintenance free PUR tyre. 5W20-SPIKE with pneumatic spike tyre especially for winter test
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-AL / 5W20 Spike
Fork Design	round stainless steel tubes	round stainless steel tubes
Fork Surface	polished	polished
Cardan Joint Bearings	stainless ball bearings	stainless ball bearings
Cardan Joint Design	machined high tensile aluminium alloy	machined high tensile aluminium alloy
Damper Type	hydraulic damper with constant force characteristic, filled with special aerospace oil	hydraulic damper with constant force characteristic, filled with special aerospace oil
Damper Temperature Range	-55° to 60 °C	-55° to 60 °C
Damper Travel	150 mm (6 ")	150 mm (6 ")
Wheel	5W-20-Standard	5W-20-AL / 5W20 Spike
Number Of Spokes	48	36
Rim	double side-wall, chrome plated	single wall steel rim
Hub	heavy duty hub with cartridge bearings	heavy duty hub with cartridge bearings
Hub To Fork Mounting	quick release lever	quick release lever
Tyre	20" high pressure pneumatic racing tyre	20" airless PUR tyre (5W20-AL) 20" pneumatic spike tyre
Pulse Transducer	5W-20-Standard	5W-20-AL / 5W20 Spike
Type	128 per revolution 1024 ppr optional TTL compatible signal level	128 per revolution 1024 ppr optional TTL compatible signal level
Miscellaneous	5W-20-Standard	5W-20-AL / 5W20 Spike
Wheel To Vehicle Connection	P-Lock quick fasteners	P-Lock quick fasteners
Vehicle Mounting Options	Using elements of the PEGASEM FMS Mounting System	Using elements of the PEGASEM FMS Mounting System
Transportation Case	included	included

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 40 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	16
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	200 mm
Pulse Transducer	5W-6	5W-12
Type	PEGASEM NFS Sensor	PEGASEM NFS Sensor
Pulse Rate	128 per revolution 256, 512 or 1024 ppr on request TTL compatible signal level	128 per revolution 256, 512 or 1024 ppr on request TTL compatible signal level
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