

Soft Pedestrian Target

SP-6030

Controllable pedestrian target which can be synchronised to test vehicle for ADAS testing

From 2016, EuroNCAP tests include Autonomous Emergency Braking (AEB) testing with pedestrian dummies. This requires the use of a controllable pedestrian dummy which can be synchronised with the test vehicle. AB Dynamics SPT (Soft Pedestrian Target) uses a flat belt propulsion system, thus not requiring an overhead gantry (in accordance with the EuroNCAP view that a gantry could interfere with the test results). This also results in a portable system which can be quickly installed on any test track.

The SPT system can be used with a standard steering robot motor and controller as a drive unit, whilst programming is done using the easy-to-use RC software which will be familiar to existing robot users. Customers can use their existing steering robot (SR60 or SR60 Torus) to reduce the cost of an SPT system; the steering robot can be quickly and easily installed and removed from the system. Alternatively, a version with a dedicated built-in motor is available.



Precise synchronisation with the test vehicle is possible

SPT20 used with existing steering robot

SPT systems

	SPT20	SPT20S
SR required	Yes – SR60 / SR60 Torus	None – built-in (SR60 equivalent)
Maximum speed	20 kph with 15 kg payload	20 kph with 15 kg payload
Maximum acceleration	> 1 g with 15 kg payload	> 1 g with 15 kg payload
Position measurement accuracy	Uses motor encoder: accuracy at motor better than 0.01 mm, typical dynamic accuracy at platform better than 2 cm	
Drive power	3.2 kW	3.2 kW
Installation	Steering robot can be quickly converted between use as pedestrian drive and steering robot	No extra installation required other than belt
Sled height	25 mm	25 mm
System protection	In built belt tension measurement system checks belt and stops motor if belt tension changes significantly	
Water resistance	Yes, can be used in rainy conditions – but motor box not totally sealed	

Software control modes

The soft pedestrian target can operate in four control modes, according to the test requirements and the other available hardware.



GET IN TOUCH

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RELEASE DATE | 2nd November 2017

ISSUE No. 07