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Microtunneling ELS2 Target Guidance System.

We supply different types of **guidance systems**.

For Sale & For Rent

Specifications ELS1 and ELS2

case	ELS 1	ELS 2
dimensions (without mounting appliance)	330 x 135 x 80 mm	330 x 166 x 108 mm
material	hard aluminium alloy	
weight	ca 5,2kg	ca 8,7kg
protection	IP68 , watertight up to 5m depth, filled with dry nitrogen	
mounting appliance	M6 tapped holes in frontframe, guide rod at rear end	3-point head mounting, rear pin additionally M8 threaded
environment		
storage temperature	-30 to + 70 °C	
operating temperature	-10 to +50 °C	
shock	100g	
optics		
laser power	1 to 3mW	
wavelength	633nm (HeNe-Laser) / 635nm (diodelaser)	
mode	TEM00	
distance to laser	depends on laser and environment (dust)	
measurement and accuracies		
horizontal displacement:		
range	115mm	146mm
accuracy	1mm	
vertical displacement:		
range	60mm	88mm
accuracy	1mm	
yaw angle :		
range	±5°	
accuracy	1mrad (1σ)	
pitch angle :		
range	±15°	
accuracy	1mrad (0,1mrad short time stable)	
roll angle:		
range	±40° (±8°)	
accuracy	0.1° (0.05)	
transmission period:	every 500ms	
calibration and maintenance		
calibration	by manufacturer, data permanently stored in ELS device	
maintenance by manufacturer	suggested interval: 3000 working hours	
operating time	automatically logged in ELS unit	

