

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

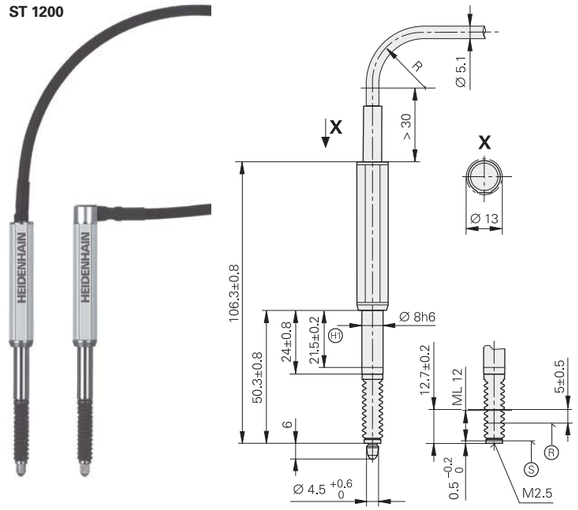
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Visit our website - *Click HERE*

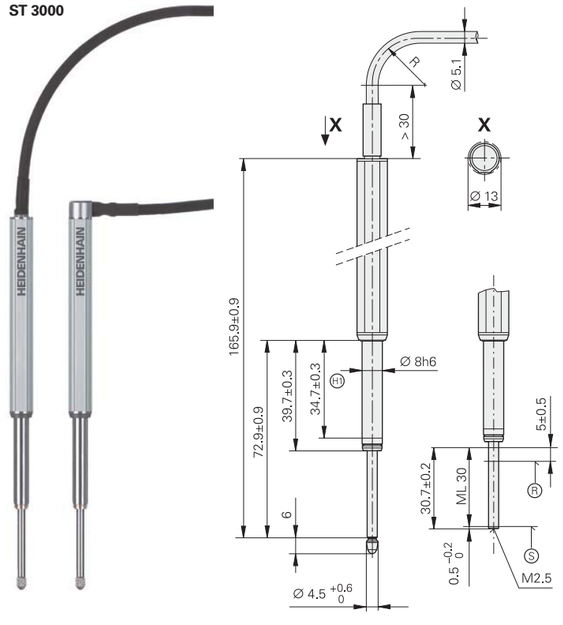
HEIDENHAIN-SPECTO

Incremental length gauges with ± 1 µm accuracy
- **Very compact dimensions**
- **Splash-proof**
- **Ball-bush guided plunger**

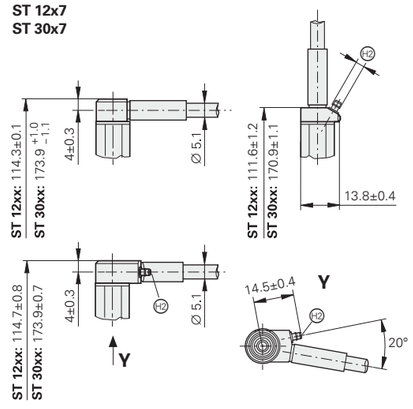
ST 1200



ST 3000



ST 12x7
ST 30x7



mm
Tolerancing ISO 8015
ISO 2768 - m H
< 6 mm: ±0.2 mm

Ⓡ = Reference mark position
Ⓢ = Beginning of measuring length
Ⓗ1 = Clamping area
Ⓜ2 = Air connection for 2 mm tube

Mechanical Data	**ST 1278** ⊓⊔ TTL **ST 1288** ∿ 1 V_{PP}	**ST 3078** ⊓⊔ TTL **ST 3088** ∿ 1 V_{PP}	**ST 1277** ⊓⊔ TTL **ST 1287** ∿ 1 V_{PP}	**ST 3077** ⊓⊔ TTL **ST 3087** ∿ 1 V_{PP}
Plunger actuation Position of plunger at rest	By measured object Extended		Pneumatic Retracted	
Measuring standard	DIADUR grating on glass; grating period 20 µm			
System accuracy	± 1 µm			
Position error per signal period	≤ ± 0.2 µm			
Reference mark	Approx. 5 mm below upper stop			
Measuring range	12 mm	30 mm	12 mm	30 mm
Gauging force	See *Gauging force—plunger actuation*			
Compressed air	–		≤ 2.5 bar	
Radial force	≤ 0.8 N (mechanically permissible)			
Fastening	Clamping shank Ø 8h6			
Operating attitude	Any			
Vibration 55 to 2000 Hz **Shock** 11 ms	≤ 100 m/s^2 (EN 60068-2-6) ≤ 1000 m/s^2 (EN 60068-2-27)			
Operating temperature	10 °C to 40 °C; reference temperature 20 °C			
Protection EN 60529	IP 64 (for connecting elements see *Connecting Elements and Cables*)			
Weight without cable	40 g	50 g	40 g	50 g

Electrical Data	**ST 127x** **ST 307x**		**ST 128x** **ST 308x**
Interface	⊓⊔ TTL x 5		∿ 1 V_{PP}
Integrated interpolation*	5-fold	10-fold	–
Signal period	4 µm	2 µm	20 µm
Edge separation a at scanning frequency*/traverse speed 100 kHz ≤ 72 m/min[1)] 50 kHz ≤ 60 m/min 25 kHz ≤ 30 m/min	 ≥ 0.48 µs ≥ 0.98 µs ≥ 1.98 µs	 ≥ 0.23 µs ≥ 0.48 µs ≥ 0.98 µs	 –
Electrical connection*	Cable 1.5 m with D-sub connector (male) 15-pin (integrated interface electronics)		Cable 1.5 m with • D-sub connector (male), 15-pin • M23 connector (male), 12-pin
Cable outlet*	Axial or radial		
Cable length	≤ 30 m with HEIDENHAIN cable		
Power supply	5 V DC ± 0.5 V		
Current consumption	< 230 mA (without load)		< 90 mA

***** Please select when ordering

[1)] Mechanically limited

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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