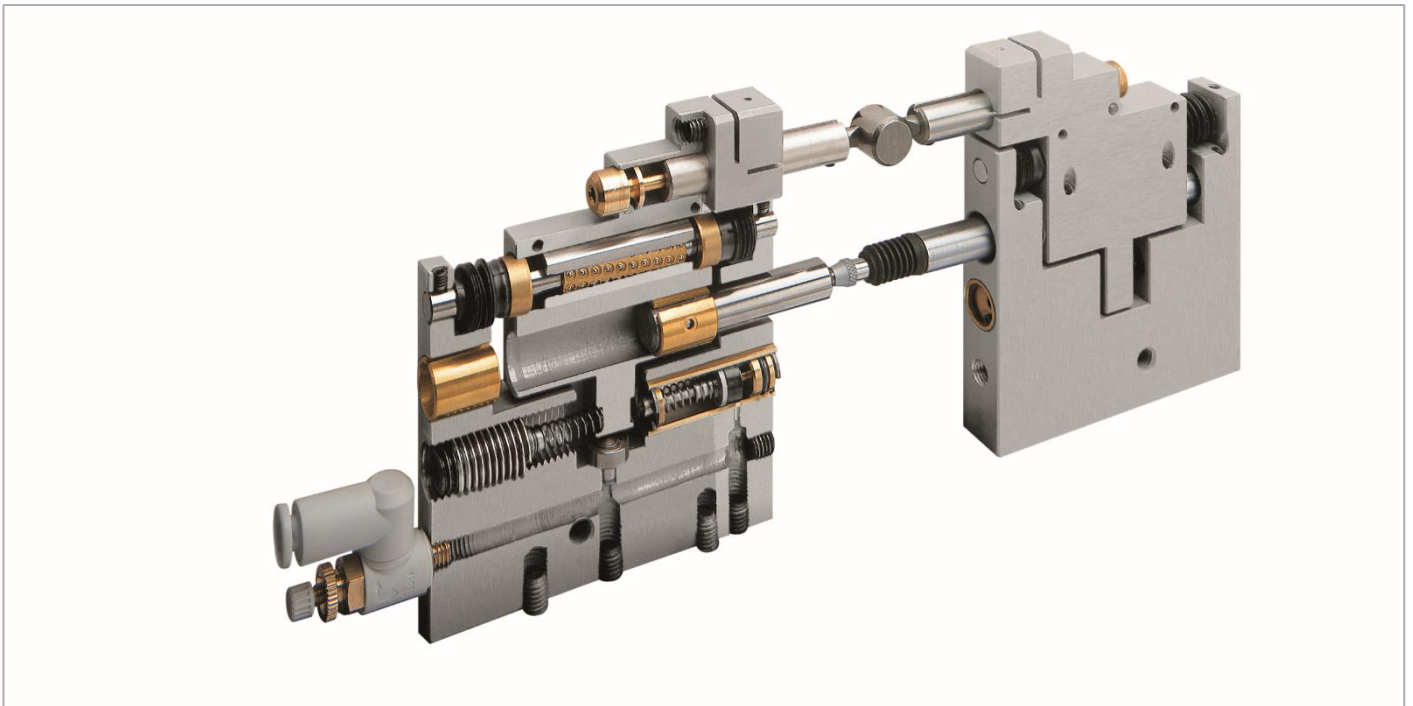


ROBOTAST: Extensive modularity



The pioneer of the parallel guiding systems

PRETEC is leading and well established Swiss manufacturer supplying standard or customized products and systems in the dimensional metrology for more than forty years.

PRETEC parallel guiding systems known as ROBOTAST have been developed as universal measuring component for semi or fully automatic inspection systems. ROBOTAST is the guaranty of success for your projects from the pioneer, when combined with our electronic measuring probes, hardware and software solutions as well as our unique know how.

PRETEC ROBOTAST are Swiss made, modular and compatible with other manufacturers transducers.

PRETEC ROBOTAST parallel guiding systems

The ROBOTAST is a universal measuring component for semi and fully automatic measuring devices. This advanced mechanical system can be used for internal/external diameter or length measurements. ROBOTAST is available in several different designs, sizes and is compatible with the other electronic probe manufacturers. It is actuated pneumatically.

The unique concept behind the ROBOTAST allows to build your own gauge with our comprehensive standard components. With a simple setting and tuning, ROBOTAST can be used as an integrated measuring devices in semi or automated production systems with automated work piece loading and unloading.

A large choice of accessories and options are as well available whether as standard or customizable to cover your application needs.



ROBOTAST RT 30



ROBOTAST RT 60



ROBOTAST RT 12

ROBOTAST features

- Pneumatically activated and retracted
- Mechanical fine adjustment of the measuring pin over 15 mm
- Adjustable measuring pressure
- High precision linear bearing
- Available in three versions for measuring range of 12, 6 and 3 mm
- Internal or external measurement direction
- Compatible with various manufacturers' electronic transducers \varnothing 8 mm
- IP50/IP54 protection
- Extensive modularity
- Custom design and OEMs
- Wide range of accessories available
- Swiss made

Products range and specification

Specification

Model	Retraction travel of the measuring bolt	Mechanical stop	Measuring range	Repeatability	Air pressure	Protection
RT 12	12 mm	0/12 mm	± 6 mm	< 1 µm	3-4 bars	IP50/IP54*
RT 30	3 mm	±1,5 mm	± 1,5 mm	< 0,2 µm	3-4 bars	IP50/IP54*
RT 60	6 mm	-1/+5 mm	± 3 mm	< 0,6 µm	3-4 bars	IP50/IP54*

* For protected probes

Environment/Material

Operating temperature	Maximum relative humidity	Tip force	Sealing bellows	Housing material	Bearings
-10..+65 °C	80%	Adjustable 0,5 to 1 N	Nitrile (viton optional)	chemical nickel plating on steel	Ball bearings

How to order a ROBOTAST?

Order number: RT XX VZ/YY

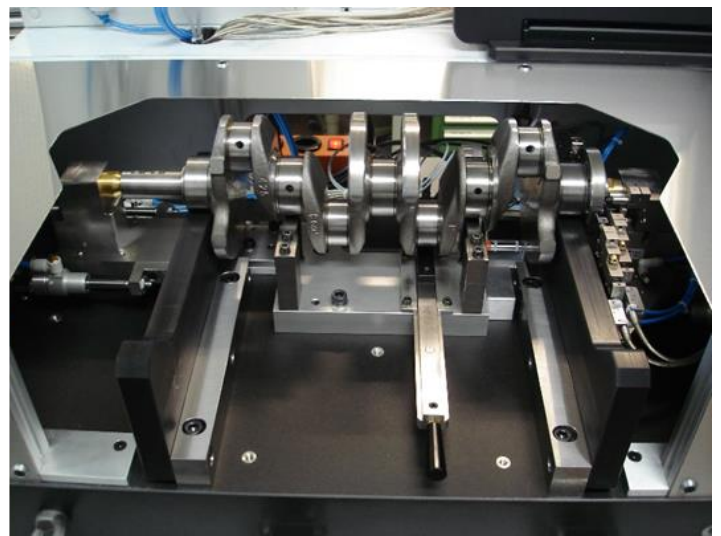
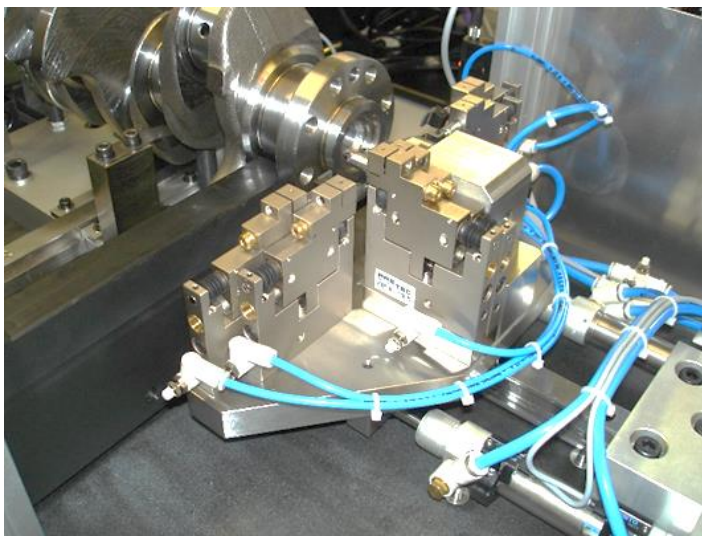
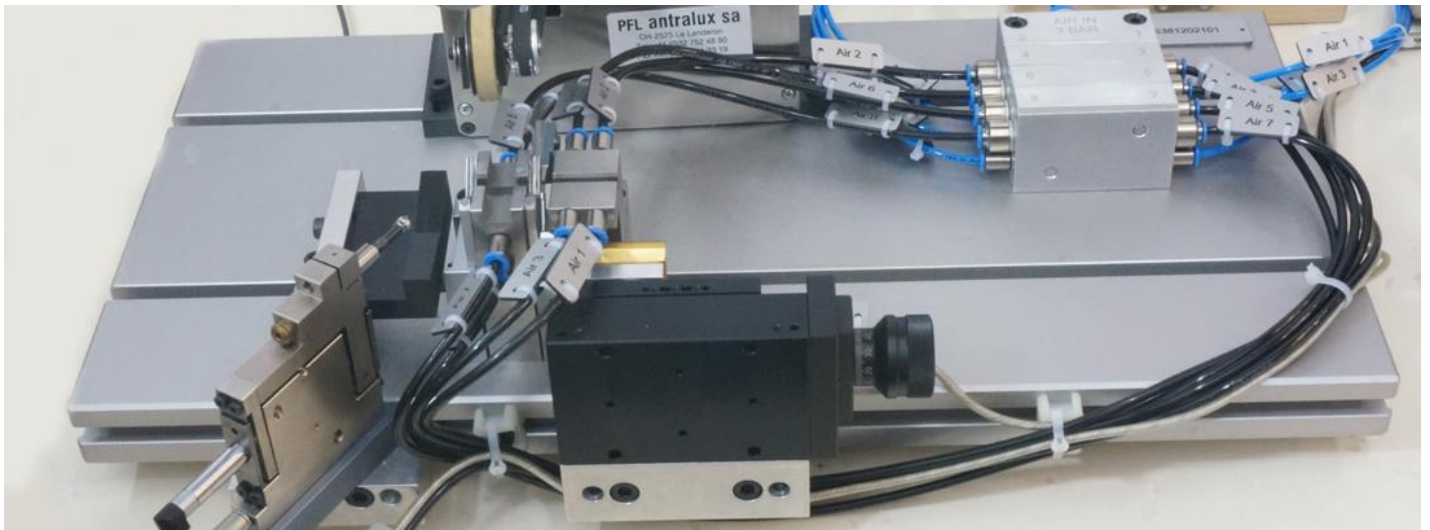
RT	XX: for measuring bolt travel	V: for pneumatic actuation	Z: for measurement direction	YY: for measuring bolt insert holder
Details	12: 12 mm 30: 3 mm 60: 6 mm	V: M (without) V: - (with)	R: external V: internal	00: Standard 30: 3H7 25: M2,5 40: M4

Example: RT 60 MR/00 : 6 mm bolt travel, without air actuation, external dimension, standard bolt insert holder

Standard accessories and CAD drawings

Our accessories product range offer flexibility and suitable applicability of the PRETEC ROBOTASTS for your application. Various measuring arms, probe holders, ball probes, contact points, inserts, support and cables dimensions are proposed. Please refer to the ROBOTAST and accessories CAD drawing in our web site www.pretec.ch/parallel-guiding-systems.html. We produce as well special accessories customized upon your request.

ROBOTAST application examples



Automotive industry : turbocharger and crankshaft inspection systems

PRETEC products and services

- Electronic comparators
- Electronic measuring probes
- Electronic bore gages
- Air electronic converters
- Air plugs and rings
- Measuring computers
- SPC software
- Custom design fixtures
- Engineering projects
- Training



Products ● Solutions ● Services

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