

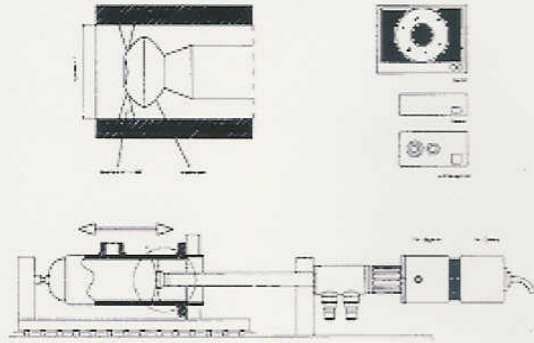
Panoramic View Borescopes

This Special-Borescopes is developed for inspections of the whole inner surface in cylindrical parts. The field of view is 360 degrees around, so it is not necessary to turn the parts or the Borescope. This is very easy for reliable quality inspections of manufactured parts f.e. for lunkers, cracks, corrosions, depositions and grooves. The Panoramic view Borescopes are also to use together with a PC for automatic computer controled inspections. For this is needed special equipment like PC and software from other suppliers. The company Richard WOLF is the only manufacturer and supplier for such a inspection technic.

The optical system is derived from a straight ahead view Borescope and has additionally on the tip a special panoramic view prism mounted. Therefore the straight ahead view will be changed to ring-shaped over 360°. This means with this Borescopes isn't possible to see straight ahead.

An inspection of bright, glossy and polished inner surfaces produce a lot of reflexes and dazzlings, therefore the Borescope is designed with a special illumination system. This makes an even and diffused illumination of the sight area. For the various applications is necessary to have case for case a especially modified illumination system.

The panoramic view prisms are deliverable with various fields of view and also directions of view and are interchangeable very fast and easy within seconds.



Technical Dates:

Model	TRB-1	TRB-3
Outer diameter:	12,0 mm	9,4 mm
Effektive working length:	270 mm	160 mm
Direction of view:	360 ° around	
Field of view:	various with various panoramic prisms (pls. ask for it)	
Focussing:	adjustable	fix focus
Order-No. Borescope:	6.12028.36	1.94015.36

For the useable complete equipment is a light source and a light guide necessary. The Ø 12 mm scope has two light input plugs for equal illuminations therefore two lightsources or one light source with a Y-light guide is necessary.

We do recommend to use for this inspection a video camera system with an inspection via monitor.

Therefore it's to recommend too to fix the Borescope with the video camera and also the parts which is to inspect, because the tip of the Borescope is very sensitive. Via a sliding device the Borescope or the parts are to move in the exactly inspection position with a stopp so that the prism can't be push on the bore end.

Each application needs a special requirement for illumination and picture, therefore it is necessary the Borescope to be modified for each application.

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