UMAC.007.0010.E UMAC® R40-4/6K **UMAC® R63-4/6/8K**

Ultrasonic Wall Thickness Measuring Scanners

For cables, pipes and tubing made of plastics or elastomeres from 1.5 to 63 mm (.06 to 2.48 in.) diameter

The UMAC[®] R40 and -R63 ultrasonic wall thickness scanners offers non-contact wall thickness measurements of cable jackets, small pipes or tubes. An ingenious and proven system guarantees easy threading and guiding of the product and easy passage of lumps and necks during startup. The scanners are built from non-corrosive resins and stainless steel and are largely maintenance-free.

A special, bubble-free water rinsing guarantees uninterrupted transmission of the ultrasonic energy and reliable, accurate measurements.

UMAC[®] R40 and -R63 scanners are designed to be mounted directly into the cooling trough or as an attachment to the existing trough. This prefered location, next to the extrusion head, allows wall thickness adjustments without dead time and also eliminates centering difficulties due to subsequent rotation of the product.

Six particular types are available to provide for a wide diameter range (O.D.) from 1.5 to 63 mm (.06 to 2.48 in.) and for a selection of 4, 6 or 8 measuring points, depending on specification of the product and type of extrusion head:

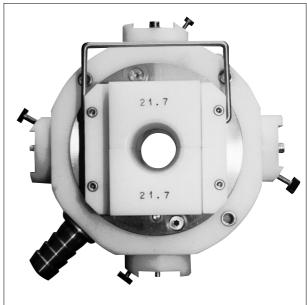
- UMAC® R40-4K - UMAC® R40-6K - UMAC® R63-4K - UMAC[®] R63-6K - UMAC[®] R63-8K

- UMAC® R63-8K2

All types are also available in a water basin ("F"-option) including circulation pump.

Optional Diameter Measurement

With these scanners and in conjunction with the UMAC® ECOWALL processor/display unit, the diameter can optionally be measured with an accuracy of typically 0.1 to 0.2 mm (.003 to .008 in.) in addition to the wall thickness and eccentricity. This option includes an additional sensor which will be mounted near the transducers.

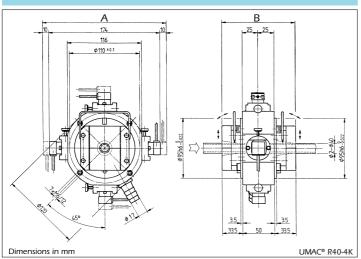


Picture shows UMAC® R40-4K scanner



Picture shows UMAC® R63-8K scanner

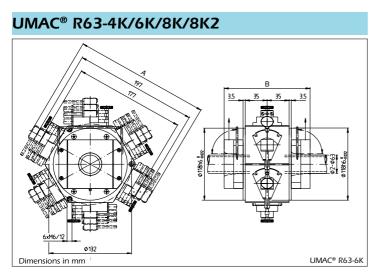
Dimensions UMAC[®] R40-4K/6K



Specifications for UMAC [®] R40				
Scanner typ	Diameter range	А	В	
UMAC [®] R40-4K ¹⁾	1.540	194	117	
	(.061.57)	(7.64)	(4.61)	
UMAC [®] R40-6K ¹⁾	1.540	194	127	
	(.061.57)	(7.64)	(5.00)	

¹⁾ Number of measuring points (transducer) Note: All above types are available with "F"-option.

Dimensions in mm (in.)



Specifications for UMAC [®] R63				
Scanner typ	Diameter range	А	В	
UMAC [®] R63-4K ¹⁾	263	217	137	
	(.082.48)	(8.54)	(5.39)	
UMAC [®] R63-6K ¹⁾	263	217	137	
	(.082.48)	(8.54)	(5.39)	
UMAC [®] R63-8K ¹⁾	2063	215	137	
	(.792.48)	(8.46)	(5.39)	
UMAC [®] R63-8K2 ¹	263	217	167	
	(.082.48)	(8.54)	(5.39)	

¹⁾ Number of measuring points (transducer) Note: All above types are available with "F"-option.

Option "F" water collection basin



The basin can be mounted in 2 ways:

- A) Free standing
 In this case a floor stand is necessary.
- B) Flanged to or between cooling troughs. Both ends incl. mounting holes.
- For all water basin versions ("F"-option) additional floor stands are available.

System Expansions

ZUMBACH manufactures a wide array of precision instruments for industrial applications.

- Measuring electronics and processors: UMAC®-OEM, UMAC®-8K, UMAC®-ECOWALL, UMAC®-OEM/USYS 5002, UMAC®-OEM/USYS 10000, UMAC®-CI, WALLMASTER etc.
- ODAC[®]/USYS Non-contact diameter measuring instruments for on-line or off-line use.
 These systems can provide you with flawless SQC/SPC reports on the final diameter of your product.
 For more details on UMAC[®] processors and ODAC[®]/USYS systems, please ask for the respective ZUMBACH documentation.

Switzerland (H.O.) ZUMBACH Electronic AG P.O. Box CH-2552 Orpund Tel. +41 (0)32 356 04 00 Fax +41 (0)32 356 04 30 E-mail: sales@zumbach.ch UK ZUMBACH Electronics Ltd. Power Road London W4 5PT Tel. +44 (0)20 8995 52 13 Fax +44 (0)20 8994 67 89 E-mail: sales@zumbach.co.uk Technical specifications are subject to change without notice

USA ZUMBACH Electronics Corp. 140 Kisco Avenue Mount Kisco, NY 10549-1412 Tel. +1 914 241 7080 Fax +1 914 241 7096 E-mail: sales@zumbach.com Other **ZUMBACH companies** in Argentina, Belgium, China, France, Germany, Hungary, Italy, Spain and Taiwan, plus agents and service in more than 40 countries. UMAC.007.0010.E DEC. 2001