Zumbach

SWISS PRIME MEASURING SINCE 1957

Transducer holder for Eccentricity and Wall Thickness Measurement with WALLMASTER Control System

UMAC® Z

For cable jacket, insulation, tube, hose up to ø 180 mm (7 in.)

UMAC® Z transducer holder (pat. pend.) for ultrasonic measurement represent a smart and simple solution for in-line wall thickness measurement and control when the WALLMASTER data acquisition, processing and display system is used.

Many advantages

- Two quick hand adjustments to suit the new product diameter take just a few seconds
- Quick and easy symmetrical positioning of all transducers, centrally adjustable
- Large measuring range with the same transducer holder
- No readjustments, no tools, no change of transducers
- Fully non-contact, uncritical centring
- 100% made of non-corrosive materials for maintenance-free long-life operation under water

Numerous Benefits

- Extremely compact, for installation into existing cooling trough
- Reduced start-up time thanks to early recognition of concentricity
- Control of the minimum wall thickness
- Important material savings
- Return on investment within few months

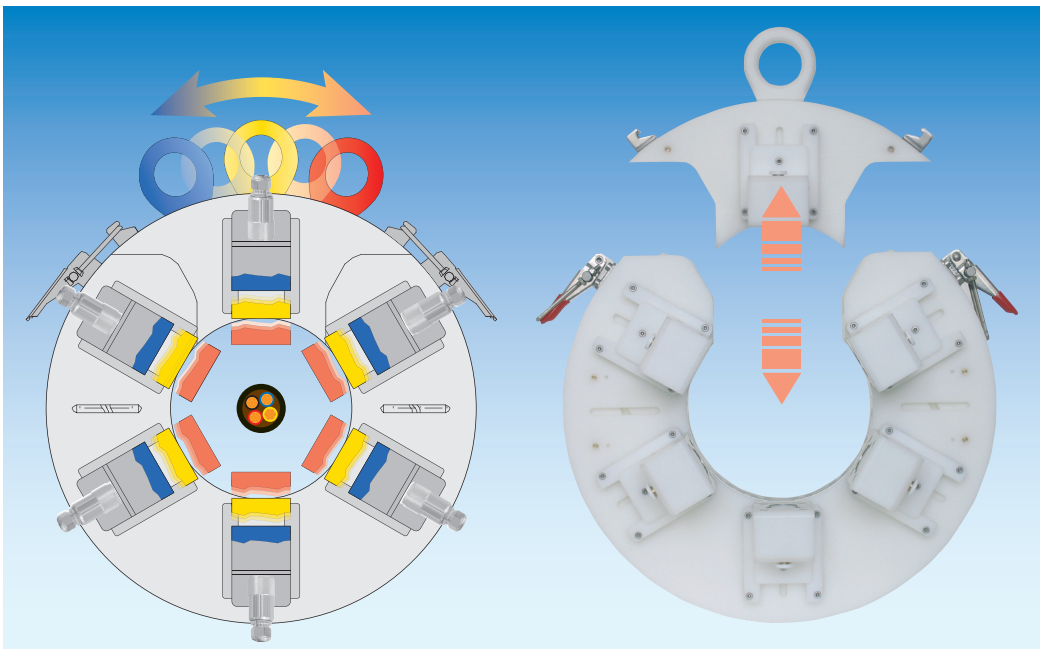
Transducer holder with 6 measuring points (6K) (Models: UMAC Z50, Z100, Z180)

Transducer holder with 4 measuring points (4K), models: UMAC Z50, Z100)

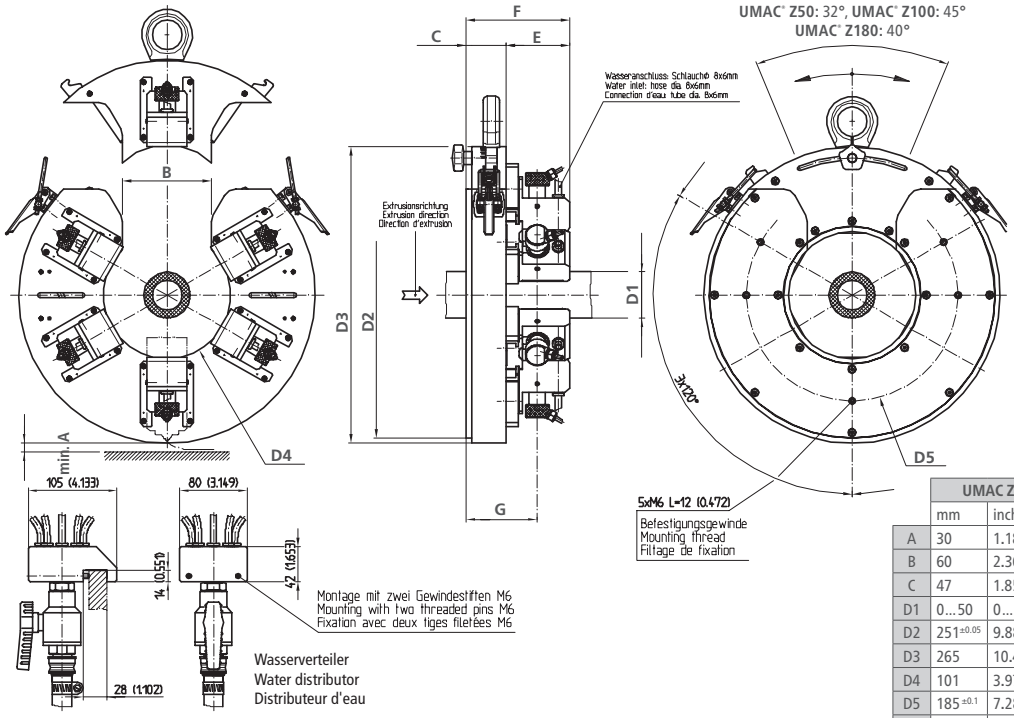
Adjusted within seconds

Thanks to the completely new construction (pat. pend.), the transducers can be synchronously adjusted to the best possible measuring position within seconds (upon request motorized).
Thanks to the special holder version H, the complete transducer holder can be turned into any position.

A quickly removable segment enables an easy product change.



Dimensions UMAC® Z50 / Z100 / Z180 (standard models)



Dimensions in mm (in.)

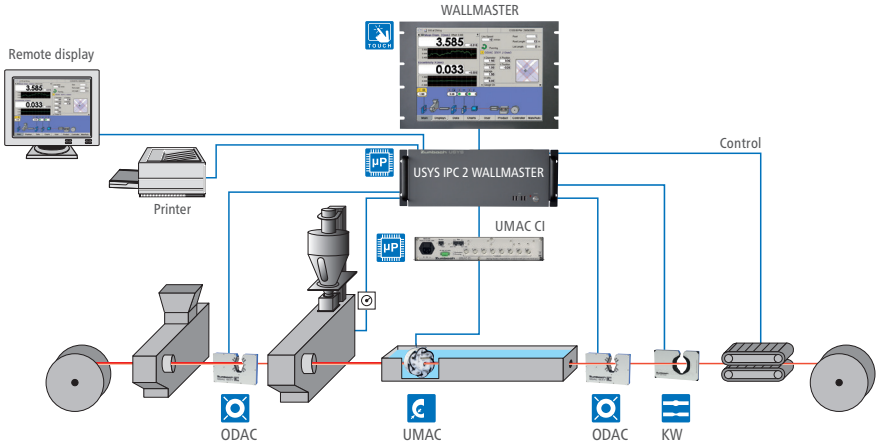
	UMAC Z50		UMAC Z100		UMAC Z180	
	mm	inch	mm	inch	mm	inch
A	30	1.181	10	.394		
B	60	2.362	105	4.133	185	7.283
C	47	1.850	47	1.850	53.2	2.094
D1	0...50	0...1.969	10...100	.394...3.934	25...180	.984...7.086
D2	251 ±0.05	9.882 ±0.002	337 ±0.05	13.267 ±0.002		
D3	265	10.433	350	13.779	505	19.882
D4	101	3.976	150	5.905	250	9.843
D5	185 ±0.1	7.283 ±0.004	250 ±0.1	9.842 ±0.004	375 ±0.1	14.764 ±0.004
E	75	2.953	75	2.953	74.2	2.921
F	122	4.803	122	4.803	127.4	5.016
G	84	3.307	84	3.307	89.4	3.520

Additionally to the standard models, all transducer holders are available with fixation elements as so called **version H**. These models can directly be installed into the existing cooling trough, without need of additional devices. For an installation before or after the cooling trough, all transducer holders are also available with an additional water basin (**version F**); see "Accessories".

► Dimensional drawings of the H and F versions upon request

System Expansions

ZUMBACH manufactures a wide array of precision instruments for industrial applications. By means of further components, such USYS WALLMASTER processor and display units, ODAC laser diameter scanners, KW fault detectors etc., an UMAC WALLMASTER system can be extended for any case for highest possible productivity and product quality. These systems can provide you with flawless SQC / SPC reports of the final product.



Accessories

- **F versions:** In addition to the standard transducer holder, these versions include a water basin with circulation pump and water level monitoring. These versions can be installed at the beginning or end of the existing cooling trough with little effort.
- Motorized vacuum and servo valves, low pressure controllers for tube and hose applications
- Speed and length measuring systems
- Printers, alarm units, remote displays and more

► For more details on system expansions and accessories, ask for the respective documentation.

• Technical specifications are subject to change without notice

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