

TYPE SERIES VBM 1063			VBM xx65			
PROCESS PARAMETI	ERS					
Material to be measured		meta	l strip			
Max. strip speed	500 m/min		1,000 m/min			
MEASUREMENT PAR	AMETERS		,			
Measurement depth		80 r	nm			
(from the strip edge)		00.				
Positioning	manual					
Pass line variation	max. +/- 5 mm					
Measurement sensor	analog	digital	analog	spindle + analog	digital	
Measurement range	0.1 - 3.2 mm	0.1 - 4.0 mm (up to 9.0 mm with reduced accuracy)	0.1 - 3.2 mm Version FM: 0.01 - 2.0 mm	0.1 - 10.0 mm	0.1 - 9.0 mm Version FM: 0.01 - 2.0 mm	
Measurement resolution		0.000	0.0001 mm			
Measurement accuracy	+/- 0.1 %		+/- 0.1 %	+/- 0.15 %	+/- 0.1 %	
T _i > 100 ms, measurement insert material:	of nominal value but not better than		of nominal value	of nominal value	of nominal value	
diamond, for strip temperatures > 40 °C:	+/- 0.001 mm		but not better than +/- 0.001 mm	but not better than +/- 0.001 mm	but not better than +/- 0.001 mm	
only with heater controller Max. strip temperature	160 °C	for strip widths:) °C	for strip widths:	
wax. Surp temperature	(up to 250 °C with reduced precision)	< 250 mm: 150 °C > 250 mm: 100 °C	(up to 25	50 °C with precision)	<250 mm: 150 °C >250 mm: 100 °C	
Measurement amplifier type	VMF 1000 / 2000	VTS	VMF 100	0 / 2000	VTS	
Sampling interval	1.6 ms	1.0 ms	1.6 ms		1.0 ms	
Averaging time T _i	1.6 - 409.6 ms	1.0 - 2,000.0 ms	1.6 - 409.6 ms		1.0 - 2,000.0 ms	
DIMENSIONS						
Width (installation space)	185	mm		160 mm		
in strip pass direction	with option automatic traverse resp. strip detection 250 mm					
Width outside line	220 mm		200 mm			
Height below pass line	175 mm 210 mm					
CONNECTIONS / CONSU	JMPTIONS / ENVIRONME	NT				
Interfaces	PROFIBUS DP or hardware (digital and analog in- and outputs)					
Supply voltage	3 x 380 - 480 V AC, 50 - 60 Hz (with manual positioning, without option T: 110 - 230 V AC, 50 - 60 Hz)					
Installed load		4 k	W			
Max. cable length between sensor and measurement amplifier	30 m	100 m	30 m		100 m	
Protection class	IP64					
Environment	Sensor system and pneumatics: 5 - 50 °C, control cabinet: 5 - 35 °C, Relative humidity: 0 - 95 %					
Compressed air quality acc. to DIN ISO 8573-1	Solids: quality class $5 = \text{max}$. 40 μ m, particle density < 10 mg/m³ Water content: quality class $5 = 9.4 \text{ g/m}^3$ at 10 °C, Oil content: quality class $4 = \text{oil}$ content < 5 mg/m^3					
Compressed air supply	Pressure: min. 4 bar, Consumption: max. 7 m³/h					
OPTIONS		,	<u>'</u>			
		V/DM 2065: 100 mm	\/DM 2565: 220 mm			
Measurement depth Positioning	VBM 2065: 180 mm, VBM 2565: 230 mm Pneumatic or motorized, positioning accuracy: +/- 1 mm					
Traverse strokes	with manual positioning: 300 / 500 mm					
with motorized or pneumatic positioning: 400 / 600 / 800 / 1,						
Heater controller (T)	two-point controller					
Module for exchange	for VBM 1065 and VBM 2065					
Special design for foil measurement FM		for VBN	1 1065			
Automatic calibration plate swing-in device	for Series VBM xx65					
	Automatic Gauge Control (AGC), data archiving (VRecoS), statistical evaluation (VGraph), pass schedule store, etc.					



