

EXTRACTS OF MANUFACTURING STANDARDS FOR METRIC DIAL GAUGES

Manufacturing standard	Field of application	Span of error	Range	Maximum value
0.0100.9.0004	Dial Gauges with 0.1 mm reading	Span of error ft	1 mm	30 µm
		Span of error fe	up to 30 mm	50 µm
			50 mm	80 µm
			80 mm	100 µm
			100 mm	100 µm
Hysteresis fu		15 µm		
Repeatability fw		15 µm		
0.0500.9.0006	Dial Gauges with 0.01 mm reading and back plunger	Span of error ft	0.1 mm	5 µm
		Span of error fe	up to 3 mm	12 µm
			5 mm	17 µm
		Span of error fges	up to 3 mm	15 µm
			5 mm	20 µm
		Hysteresis fu	up to 3 mm	5 µm
Repeatability fw	5 mm	8 µm		
			5 µm	
0.0500.9.0001	High Precision Dial Gauges with 0.001 mm reading and 0.002 mm reading	Span of error ft	0.1 mm	3 µm
		Span of error fe	0.16 mm	3 µm
			1 mm	5 µm
			5 mm	10 µm
		Span of error fges	0.16 mm	4 µm
			1 mm	7 µm
			5 mm	12 µm
Hysteresis fu		3 µm		
Repeatability fw		3 µm		
		Some values may differ on Large Dial Gauges		
0.0500.9.0010	High Precision Dial Gauges FEINIKA with 0.001 mm reading and 0.002 mm reading	Span of error ft	0.01 mm	1 µm
		Span of error fe	0.08 mm	2 µm
			0.16 mm	2 µm
			1 mm	3 µm
		Span of error fges	0.08 mm	3 µm
			0.16 mm	3 µm
	1 mm	4 µm		
Hysteresis fu		1.5 µm		
Repeatability fw		1.5 µm		
1.0200.9.0002	Dial Gauges with 0.01 mm reading and range > 30 mm	Span of error ft	0.1 mm	5 µm
		Span of error fe	50 mm	25 µm
			80 mm	30 µm
			100 mm	50 µm
			up to 80 mm	3 µm
		Span of error fw	100 mm	5 µm
	Some values may differ on Large Dial Gauges			
1.0200.9.0014	Dial Gauges with 0.01 mm reading and ranges 20 – 30 mm	Span of error ft	0.1 mm	5 µm
		Span of error fe		20 µm
		Span of error fges		25 µm
		Hysteresis fu		5 µm
		Repeatability fw		3 µm
			Some values may differ on Large Dial Gauges	

Manufacturing standards for Dial Gauges MU 28 (4.0000.9.0012) and SI-18 (0.4223.9.0008) and for Inch Dial Gauges on request.