

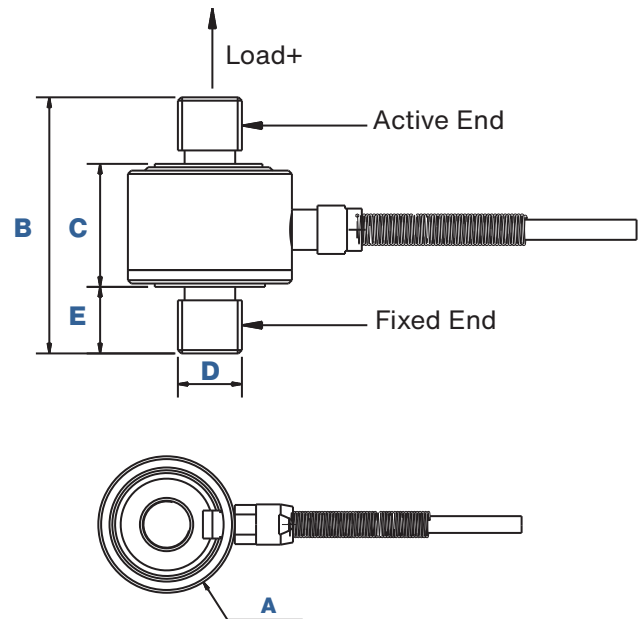
TCM Series

Male Threaded Inline Load Cells



Features

- Compact design for easy implementation
- Upgraded accuracy for improved machine control and measurement reliability
- 17-4PH stainless steel / IP64 design withstands harsh environments
- Variety of common capacities and thread types



Dimensional Attributes

MODEL		TCM-325		TCM-350		TCM-375	
CAPACITIES (±)		2, 3 klbf	9, 13 kN	4, 5 klbf	18, 22 kN	7.5, 10 klbf	33, 45 kN
UNITS		in	mm	in	mm	in	mm
Dimensions (See Drawing)	A	0.96	24.4	0.96	24.4	1.11	28.3
	B	1.50	38.1	2.77	70.4	2.77	70.4
	C	0.72	18.3	1.03	26.2	1.03	26.2
	D	3/8-24	M10x1.5	1/2-20	M12x1.75	3/4-16	M16x2-6
	E	0.39	9.9	0.87	22.1	0.87	22.1

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Models					
PART ID	CAPACITY	SAFE OVERLOAD	OUTPUT	MOUNTING THREAD	DESCRIPTION
TCM325-2KLBF	±2klbf	±4.5klbf	1.3mV/V	3/8in-24	Improved Accuracy Drop-in Replacement for FUTEK FSH04009
TCM325-9KN	±9kN	±19.5kN	1.3mV/V	M10x1.5	Improved Accuracy Drop-in Replacement for FUTEK FSH04008
TCM325-3KLBF	±3klbf	±4.5klbf	2mV/V	3/8in-24	Improved Accuracy Drop-in Replacement for FUTEK FSH04006
TCM325-13KN	±13kN	±19.5kN	2mV/V	M10x1.5	Improved Accuracy Drop-in Replacement for FUTEK FSH04007
TCM350-4KLBF	±4klbf	±7.5klbf	1.6mV/V	1/2in-20	Improved Accuracy Drop-in Replacement for FUTEK FSH04077
TCM350-18KN	±18kN	±33kN	1.6mV/V	M12x1.75	Improved Accuracy Drop-in Replacement for FUTEK FSH04079
TCM350-5KLBF	±5klbf	±7.5klbf	2mV/V	1/2in-20	Improved Accuracy Drop-in Replacement for FUTEK FSH04078
TCM350-22KN	±22kN	±33kN	2mV/V	M12x1.75	Improved Accuracy Drop-in Replacement for FUTEK FSH04080
TCM375-7.5KLBF	±7.5klbf	±15klbf	1.5mV/V	1/2in-20	Improved Accuracy Drop-in Replacement for FUTEK FSH04081
TCM375-33KN	±33kN	±67.5kN	1.5mV/V	M16x2-6	Improved Accuracy Drop-in Replacement for FUTEK FSH04083
TCM375-10KLBF	±10klbf	±15klbf	2mV/V	3/4in-16	Improved Accuracy Drop-in Replacement for FUTEK FSH04082
TCM375-45KN	±45kN	±67.5kN	2mV/V	M16x2-6	Improved Accuracy Drop-in Replacement for FUTEK FSH04084

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General Specifications				
Nonlinearity - %FS		±0.25		
Hysteresis - %FS		±0.25		
Non-repeatability - %FS		±0.05		
ELECTRICAL ATTRIBUTES		TEMPERATURE ATTRIBUTES		
Zero Balance- %RO	±1	Compensated Range	°F	60 to 161
Input Impedance- ohm	410±30		°C	15 to 72
Output Impedance- ohm	350±5	Operating Range	°F	60 to 161
Rated Excitation Voltage- V DC/ AC	10		°C	-42 to 93
Maximum Excitation Voltage- V DC/ AC	15	Effect on Zero- %FS / deg	°F	±0.01
Insulation Resistance- Gigaohm	≥5 GΩ (50 VDC)		°C	±0.02
		Effect on Output- %RDG / deg	°F	±0.01
			°C	±0.02
Material	Stainless Steel			
Integrated Cable	4-conductor, 28 AWG with shield			
Cable Length	ft	10		
	m	3		