

Product

INFORMATION SHEET

MP SERIES MULTIPURPOSE LOAD BARS



Multipurpose load bars

Tru-Test MP Series load bars are the multipurpose load bars in the Tru-Test range. MP load bars are designed for use as a pair in a wide variety of applications, including under platforms, sheep crates and wool presses. MP Series load bars can also be used singularly and as a set of four using a Tru-Test load bar adaptor cable.

Versatile

MP load bars come in 600 mm, 800 mm, and 1010 mm lengths hence the names MP600, MP800 and MP1010. The MP600's have a total capacity of 2000 kg per pair and the MP800 and MP1010 loadbars have a capacity of 3000 kg per pair.

The MP Series load bars are easy to set up and simply require a firm level surface and a rigid crate or platform. MP load bars do not need to be permanently installed and when used with the lightweight Tru-Test aluminium platform they can easily be transported between different weighing sites.

Compatibility is a standard feature of Tru-Test weighing equipment and MP load bars are compatible with Tru-Test indicators without the need for additional calibration.

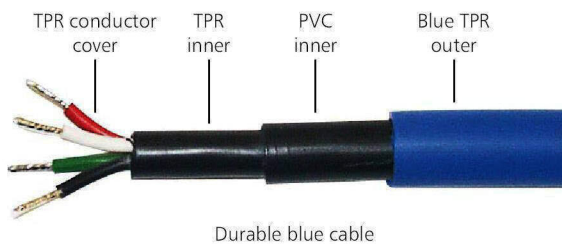
Durable

One of Tru-Test's core competencies is the design and manufacture of load bars for harsh environments. The MP series have a zinc plated, gold passivated, load bar housing for corrosion resistance. The load cells are aircraft grade aluminium and are potted with a two pot polyurethane compound. Heavy-duty TPR/PVC cables are a standard feature of all MP load bars, which minimises the likelihood of cable damage.

Aluminium shear beam load cell

MP Series load bars use an aluminium shear beam load cell. The load bars transform the weight applied to them into a change in electrical resistance which in turn is converted by the indicator into a weight reading. The change in resistance is achieved by bonding a strain gauge to the surface of a flexible load-carrying member (the aluminium beam). The deformation of the aluminium beam, caused by the applied load, causes the strain gauge to stretch or compress, which changes the resistance of the strain gauge by virtue of its changed shape.

The load sensing area of the load bar where the strain gauge is applied is specifically shaped to maximise the surface deformation and the resulting signal. In the MP Series load bars, cavities have been formed on both sides of the aluminium beam leaving a thin web at each end of the load cell where the load is applied.



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Features	Benefits
Multipurpose design	Can be used in a wide variety of applications, including under platforms, sheep crates and wool presses. 3 different lengths ensure that most platforms and crates are catered for.
Zinc plated, gold passivated	Provides corrosion resistance for the load bar housing.
Moisture protective potting	Protects the load cell against moisture.
Aircraft grade aluminium load cell	2000 Series aluminium - strong and lightweight.
Durable TPR / PVC cables	Minimises the likelihood of cable damage. Difficult for animals to chew through the cable.
Peg holes in MP Series load bar foot	Prevents weighing system from sliding by fitting mounting studs into the foundation. The use of pegs dropped into holes drilled into the foundation allows the load bars to be quickly lifted out.
Compatible	MP Series load bars can be used with AG500 Series, 700 Series, EziWeigh, Series 2000 and 3000 indicators. MP Series load bars are interchangeable without any adjustment.
Minimal set up required	The bars can simply be placed on a firm level surface with a crate or platform mounted.
Multiple configurations	MP Series load bars can be used singularly, as a pair or as a set of four.
Extension cables	Extension cables are available if required.

Specifications	MP600	MP800	MP1010
Total capacity	2000 kg	3000 kg	3000 kg
Nominal length	600 mm (23")	800 mm (32")	1010 mm (39")
Platform fixing centres	561 mm (22 ¹ / ₈ ")	761 mm (30")	870 mm (34 ¹ / ₄ ") 915 mm (36") 960 mm (37")
Weight (pair)	13.5 kg (30 lb)	16.5 kg (36 lb)	22 kg (49 lb)
Bar section width	75 mm (3").		
Foot pad dimensions	170 mm x 100 mm (6 ³ / ₄ " x 4")		
Cable length	5 m (16 ¹ / ₂ ')		
Cable type	4 core cable. TPR inner and conductor cover, PVC middle layer for impact protection, blue TPR outer for protection from sunlight and cold.		
Load cell type	Aluminium shear beam.		
Resolution	Fine mode Normal		
	0.1 kg (0.2 lb), when used with Tru-Test indicators. 0.5 kg (1 lb).		
Accuracy	± 1% or two resolutions, whichever is greater.		
Operating temperature	-10 to +40 °C (+15 to +105 °F).		
Storage temperature	-20 to +50 °C (-5 to +120 °F).		
Humidity	95% relative humidity.		



MP1010 load bars



MP800 load bars



Although the information presented in this Product Information Sheet is believed to be accurate and reliable, no responsibility for inaccuracies can be assumed by Tru-Test Ltd. This performance data is typical only and variations due to component manufacturing tolerances are normal. Tru-Test Ltd reserves the right at any time to change performance characteristics or specifications without prior notice.