

DIN8 A

BELT TENSION METER

Portable electronic instrument to measure the mechanical transmission belts.

The measure is realized by pressing the instrument on the belt in the middle zone between the pulleys and reading the real tension by the relevant reaction force.

The value of the deflection is indicated by two spacer pointer.

The measure appears on the display connected by cable to the sensor.

Each instrument is dimensioned and calibrated for the belts, or range of belts, it will have to measure.

Main features.

- Instrument ready to use and in robust execution
- Sensor: compression load cell
- Manual position on the belt
- Available in many measures and full scales in function of the measuring belts.
- Capacity from 1 to 100 daN
- Accuracy: 2% full scale
- Digital Display wired to the load cell, zero tare and peak value functions.
- Rechargeable Battery set
- Autonomy: 40 hours
- Protection degree IP55

Standard equipment

- Battery charger
- CE declaration
- Calibration certificate
- Suit case

CAMI S.R.L.

MEASUREMENT INSTRUMENTS

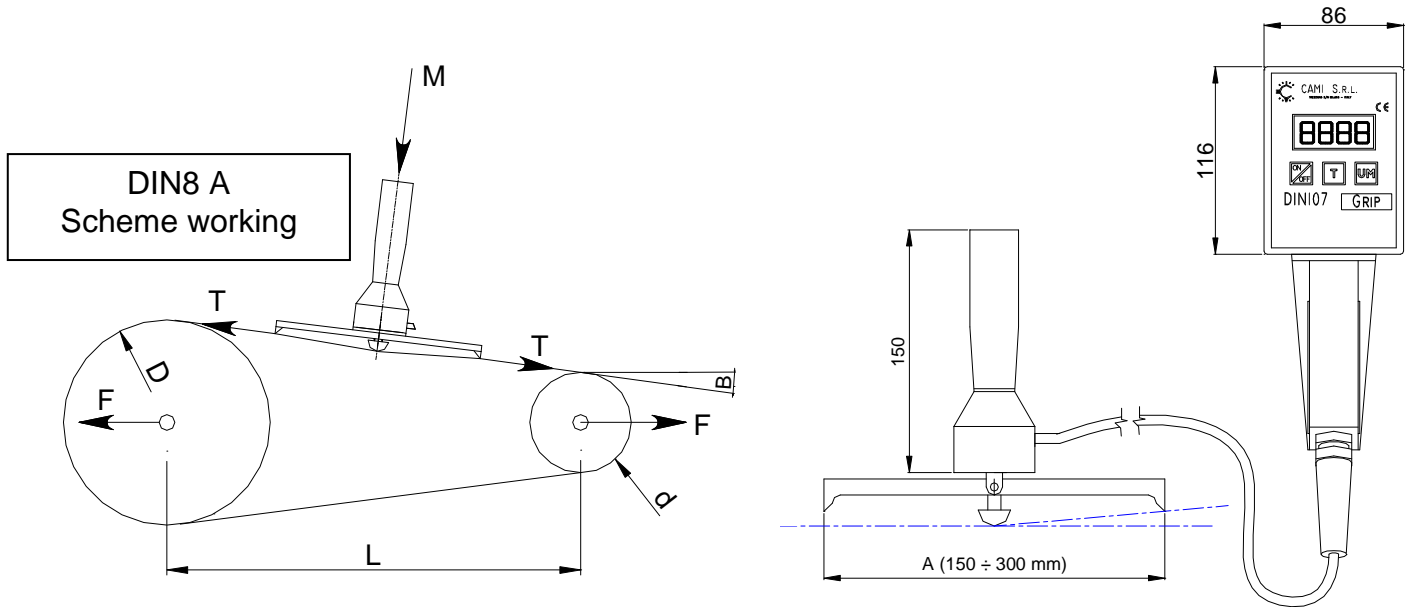
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La quota "A" è funzione del range di misura e del tratto libero della cinghia



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MEASUREMENT OF THE TENSION OF THE DRIVE BELTS USING THE BENDING METHOD

All the operations must be carried out with the belt and relevant drives stationary

- A) Measure the free space between the two pulleys (**L**).
- B) At the center of this space apply the dynamometer bending the belt until the two spaced pointers touch the belt; the applied force **M** must be perpendicular to the belt. Let consider that the bending displacement **S** of the belt must be 1,6 mm each 100 mm of the free space ($S = L * 1.6 / 100$).
- C) Check the reading value **F** on the dynamometer respect the reference value of the manufacturer of the belt; in the below table we indicate the main values recommended by the manufacturers for the standard belts.
- D) Note: installing news belts follow the manufacturer instructions about a possible over tension of the belts and execute new check after the first hours of working.

SECTION	Diameter of lower pulley [mm]	Load M [N]		
		0 ÷ 10 m/s	10 ÷ 20 m/s	20 ÷ 30 m/s
SPZ	67 ÷ 95	12 ÷ 18	10 ÷ 16	8 ÷ 14
	> 95	19 ÷ 26	17 ÷ 24	15 ÷ 22
SPA	100 ÷ 140	22 ÷ 32	18 ÷ 26	15 ÷ 22
	> 140	33 ÷ 48	27 ÷ 40	23 ÷ 34
SPB	160 ÷ 265	38 ÷ 56	32 ÷ 50	28 ÷ 42
	> 265	57 ÷ 72	51 ÷ 64	43 ÷ 58
SPC	224 ÷ 355	72 ÷ 102	60 ÷ 90	50 ÷ 80
	> 355	103 ÷ 132	91 ÷ 120	81 ÷ 110
A			7 ÷ 10	
B			16 ÷ 24	
C			29 ÷ 48	
D			58 ÷ 86	
E			96 ÷ 143	

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