

## Tensile Force Measuring - Station Typ: 2 R - 80



The tensile - force measuring - station 2 R 80 is a space-saving solution for precise measurement of cables, wires, tirecord and other flexible material.

It is equipped with one guiding-roller and one measuring roller.  
 The measuring-roller run on the radial-force-sensor.  
 Both are mounted on a solid plate.

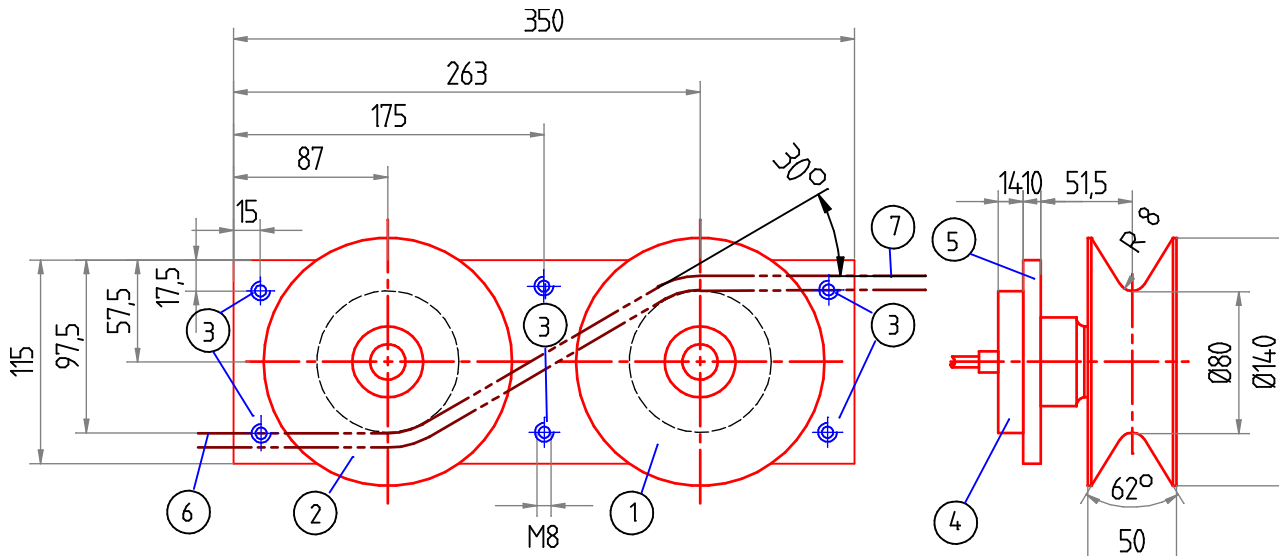
The measuring-station is used, where the angle of contact of the material which is measured, around the measuring-roller, ( where the material run out of the measuring-station ) can be kept constant.

|                              |   |
|------------------------------|---|
| <i>Application</i>           | measuring tensile forces on: cables, ropes, wires, tirecord and other flexible material   |
| <i>Characteristics</i>       | space - saving 2 - roller - system  |
| <i>Nominal loads</i>         | are depending on the built-in radial - force measuring head<br>for built-in the series M 1100 - 20 and M 1100 - 6 are available<br><br>smallest measuring - range - up to 100 N<br>biggest measuring - range - up to 2000 N |
| <i>Vertical-shifting</i>     | run-in of the material up to run-out of the material approx. 80 mm  |
| <i>Angle of contact</i>      | the angle of 30° around the measuring-roller must be kept constant,<br>the angle around the guiding-roller is variable in a wide range  |
| <i>Roller-material</i>       | aluminium-alloy AlCuMgPb Option: ceramic coated rollers   |
| <i>Mounting</i>              | the mounting plate contains 6 fixing-threads M 8  |
| <i>Technical data</i>        | see data-sheets of the radial - force - sensors series<br>M 1300 - 20 or M 1100 - 6   |
| <i>Accessories available</i> | Tensometric tripod with ground-fixing-holes   |

**Technical data :**

**Tensile Force Measuring - Station Typ: 2 R - 80**

Dimensions:



- 1 = Measuring-roller, mounted on the radial-force sensor
- 2 = Guiding - roller
- 3 = Mounting - threads
- 4 = Radial - force sensor
- 5 = Mounting - plate
- 6 = Run - in of the material
- 7 = Run - out of the material in a constant angle ( 30°)

**Measuring - range**

Depending on the measuring-range of the measuring-station, there are different radial-force-sensors built-in.

Tabular 1  
Measuring-range and built-in radial-force-sensor.

| Measuring-range    | built-in radial-force-sensor | Nominal load of the built-in radial-force-sensor |
|--------------------|------------------------------|--|
| 5 N up to 100 N    | M 1300 - 20                  | 60 N   |
| 10 N up to 200 N   | M 1300 - 20                  | 100 N  |
| 20 N up to 400 N   | M 1300 - 20                  | 200 N  |
| 30 N up to 600 N   | M 1100 - 6                   | 300 N  |
| 50 N up to 1000 N  | M 1100 - 6                   | 500 N  |
| 100 N up to 2000 N | M 1100 - 6                   | 1000 N   |