



CF.120 FLANGE LOAD CELLS

- Compact design
- Easy installation
- ✓ High reliability
- ✓ Strain gauge technology
- Measuring range from 250N to 2000N

A reliable web tension control may reduce web tears in order to increase productivity. CF flange load cells, used in a precise tension control system, are designed to carry out these delicate tasks.

They are installed at the end of a measuring roller to precisely detect the resultant of the forces generated by pulling of the material depending on the wrapping angle.

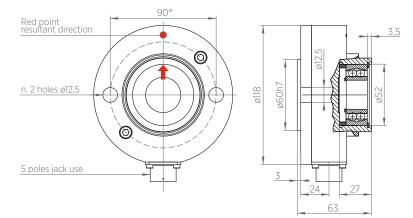
CF load cells have been designed with a compact design, to easily fit them in narrow spaces, to be installed very easily and to reach a very high reliability.

Operating principle: CF load cells use the strain gauge operating principle to guarantee a perfect detection of the web tension. Strain gauges resistors are mounted on a inner metal foil of a load cell and connected to each other in a "wheatstone bridge" able to convert a mechanical movement into an electrical signal, that must be amplified by suitable amplifiers.



Re S.p.A. via Firenze 3 20060 Bussero (MI) Italy **T** +39 02 9524301 **F** +39 02 95038986 **E** info@re-spa.com Assistenza tecnica Technical support **T** +39 02 952430.300 **E** support@re-spa.com Assistenza commerciale Sales support **T** +39 02 952430.200 **E** sales@re-spa.com

TECHNICAL DRAWING



Selection model table

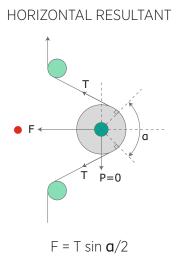
Code	Load N	bearing size
CF.120.25.52	250	52x25
CF.120.50.52	500	52x25
CF.120.100.52	1000	52x25
CF.120.200.52	2000	52x25
* 6		

* for other model contact our technical dpt.

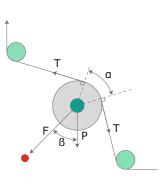
CF.120.xx.xx

Ball bearing size

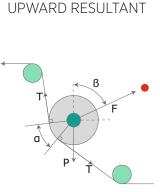
CALCULATION



DOWNWARD RESULTANT



 $F = T \sin a/2 + P/2 \cos b$



 $F = T \sin a/2 - P/2 \cos \beta$

TECHNICAL DATA

Precision class	
Sensitivity	Normal from 1,5mV/V to 2,0m Supply 10V - max
Total error-repeatability-histeresy-linearity	< ± 0,05% end scale v
Measuring principle	strain gauge full br
Strain gauge bridge resistance	350 Ω (
Max overload	30
Temperature range	0°C/+6
Option	4-20 mA ou

*Data are subject to technical change without notice



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