



CH

CHAMELEON LOAD CELLS



- ✓ Compact design
- ✓ Easy installation
- ✓ High reliability
- ✓ Versatility

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

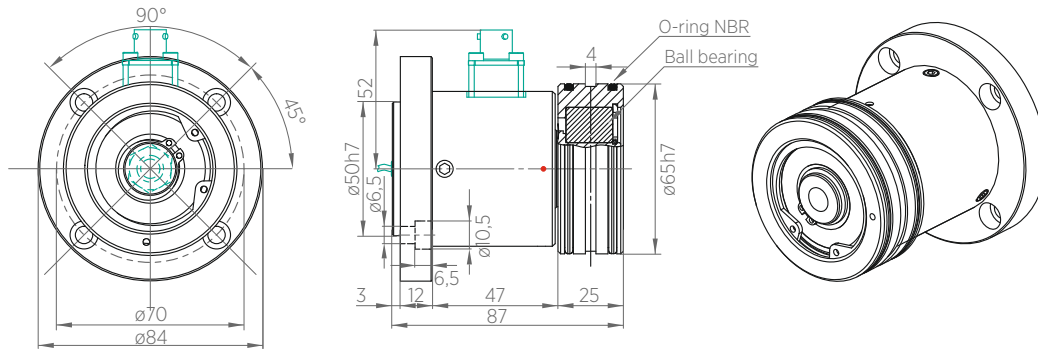
They are usually installed at the end of a cantilever measuring roller or pulley to precisely detect the resultant of the forces generated by pulling of the material depending on the wrapping angle.

The load cell is very versatile as, accordingly to the application, the roller can be fixed in different ways. CH load cells made with double foil for a very precise and linear detection of the web tension, moreover, thanks to this structure, the can support high load.

Operating principle: CH 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.

TECHNICAL DRAWING

CH load cell with flange and roller holder kit



Selection model table

Code	Load N
CH.25	250
CH.50	500
CH.100	1000

* for other model contact our technical dpt.

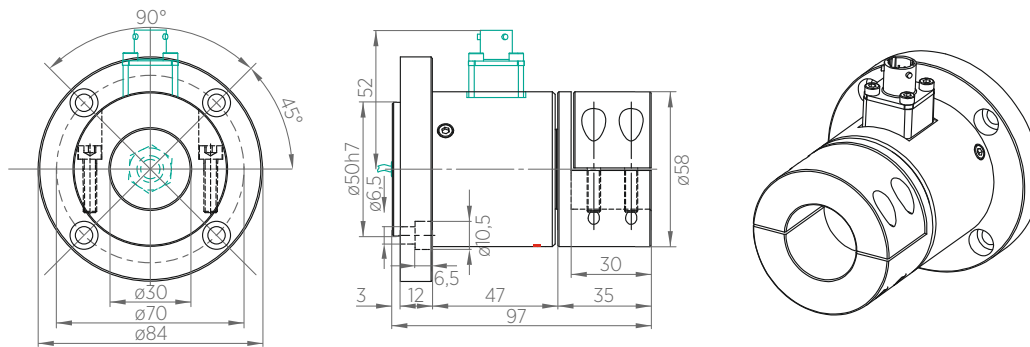
Optional

Back side: Fixing flange

Front side: Kit Roll Hold
Clamp for roller fixing

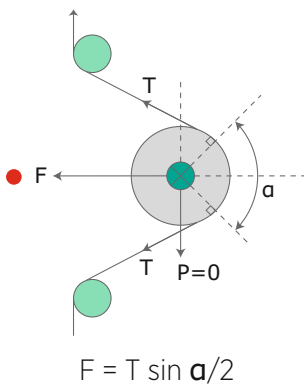
Connector: Axial connector
Lateral connector

CH load cell with flange and clamp for roller fixing

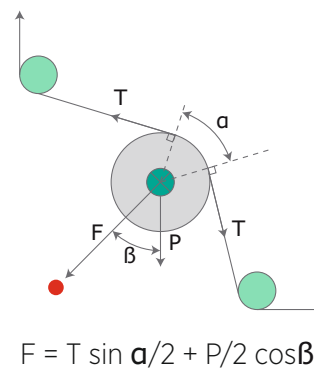


CALCULATION

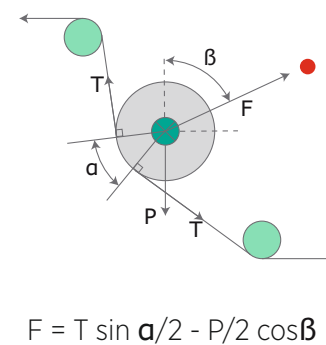
HORIZONTAL RESULTANT



DOWNWARD RESULTANT



UPWARD RESULTANT



TECHNICAL DATA

Precision class			0.5%
Sensitivity	Normal Supply	from 1,5mV/V to 2,0mV/V 10V - max 15V	
Total error-repeatability-hysteresy-linearity			< ± 0,05% end scale value
Measuring principle	strain gauge full bridge		
Strain gauge bridge resistance	350Ω Ohm		
Max overload	300%		
Temperature range	+10° C/+50°C		
Option	4-20 mA output		
Weight			

*Data are subject to technical change without notice



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