



FORCE AND TORQUE MEASUREMENT

- FORCE AND TORQUE TRANSDUCERS
- CUSTOM-MADE LOAD CELLS
- STANDARD REFERENCE TRANSDUCERS
- WEIGHING LOAD CELLS
- TENSIO METERS
- INSTRUMENTATION



LOAD CELL
MANUFACTURER



EN 9100
COMPLIANT

OUR STRENGTHS

SENSY S.A develops and manufactures both **standard** and **custom-made load cells**, load pins and force transducers. These sensors are intended for systems for effort or force measurement (from 10 N to 50 MN / 5 000 tf / 10 000 000 lbf), torque measurement (up to 1 MNm / 737 kft-lb), level measurement (for silos and tanks) and load limitation.

We design transducers for a lot of different sectors, such as mechatronics, automotive and steel industry; medical, pharmaceutical and chemical sector; agricultural engineering and farming technology; and even for the Oil and Gas industry and the aerospace. This means that we develop sensors which can work in the harshest of environments (high temperatures, underwater to depths of 5 000 m / 16 000 ft, Ex-certified for use in potentially explosive atmospheres, etc.).

FROM DESIGN TO AFTER-SALES SUPPORT

SENSY IS SPECIALIZED IN STANDARD AND CUSTOM-MADE LOAD CELLS AND TORQUE SENSORS



FORCE AND TORQUE MEASUREMENT

AUTOMOTIVE INDUSTRY

- Force and torque measurement for R&D
- Control of production line (brake pedals, handbrakes, shock absorbers ...)



2712



9FMPS



9PEBR



AERONAUTICS AND AEROSPACE

- Force and torque measurement
- Embedded force control



9100S



9960S



5000-FORC



RAILWAY INDUSTRY

- Periodic inspection of railroad switch
- Measurement of railway switches closing force



9TGV1



9TGV2



5000W



AGRICULTURAL MACHINERY

- Embedded force control
- Torque measurement on PTO shaft
- (On board) weighing for feeding systems



2625



5510



67000



MATERIAL TESTING

- Concrete compression testing on test benches
- Fatigue life testing
- Destructive testing



2960



3115



5195



MARINE

- Tension force control of tugboat towing cable
- Boat propeller trimming
- Force measurement on sails



5105



5100L



5050



STANDARD REFERENCE FORCE AND TORQUE TRANSDUCERS



FOR UNIAXIAL FORCE TESTING MACHINES

- According to ISO 376
- Verification of uniaxial testing machines

Series 2712-ISO / 2715-ISO

Low capacities
Tension and compression



Capacities: 0.2...10 kN

Series 3115-ISO

High capacities
Compression



Capacities: 30 kN...30 MN

Series 5105-ISO

High capacities
Tension and compression



Capacities: 10 kN...30 MN

Series 3115F-12390

Strain gauge cylinder according to EN 12390-4



Capacity: 2 MN

Series 6105 / 6205

Standard reference torque sensors



Capacities: 2 Nm...1 MNm

Series 6105-TORQ

Custom-made reference torque sensors



Capacities: 2 Nm...1 MNm

CIVIL ENGINEERING APPLICATIONS



- LOAD CONTROL ON VERTICAL LIFT BRIDGES
- FORCE MONITORING OF LOCK GATE



5050 - SUBMERGED LOAD PIN



LOAD CONTROL ON BOAT LIFT



5000

5000

5000M



LOAD CELLS



Wireless available for all models

ELECTRONICS



* Available for models : 5000, 5100, 5105, 5300, 5600, 5560, 2600, 2960

SILO WEIGHING



CAPACITY UP TO 500 t / LOAD CELL

Stainless steel – IP67 – High accuracy – ATEX.



2600 + I2600



3100P + I3100P



REACTOR, TANK, VESSEL AND HOPPER WEIGHING



WEIGHING WITH LOAD CELLS OR INSERT-GAGES®

Stainless steel – IP67 – High accuracy – ATEX



5950



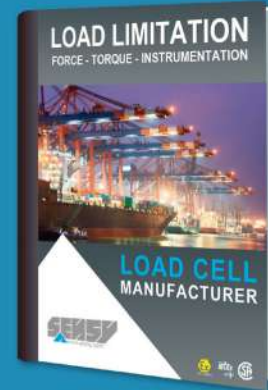
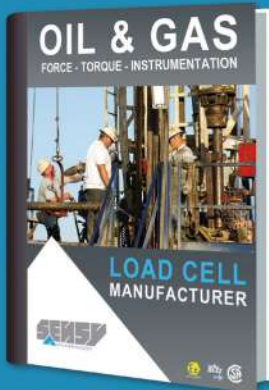
5950 + I5950



3300



OUR OTHER MARKETS



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