



LOAD CELL
MANUFACTURER

LOAD LIMITATION

LOAD-FORCE-TORQUE SENSORS

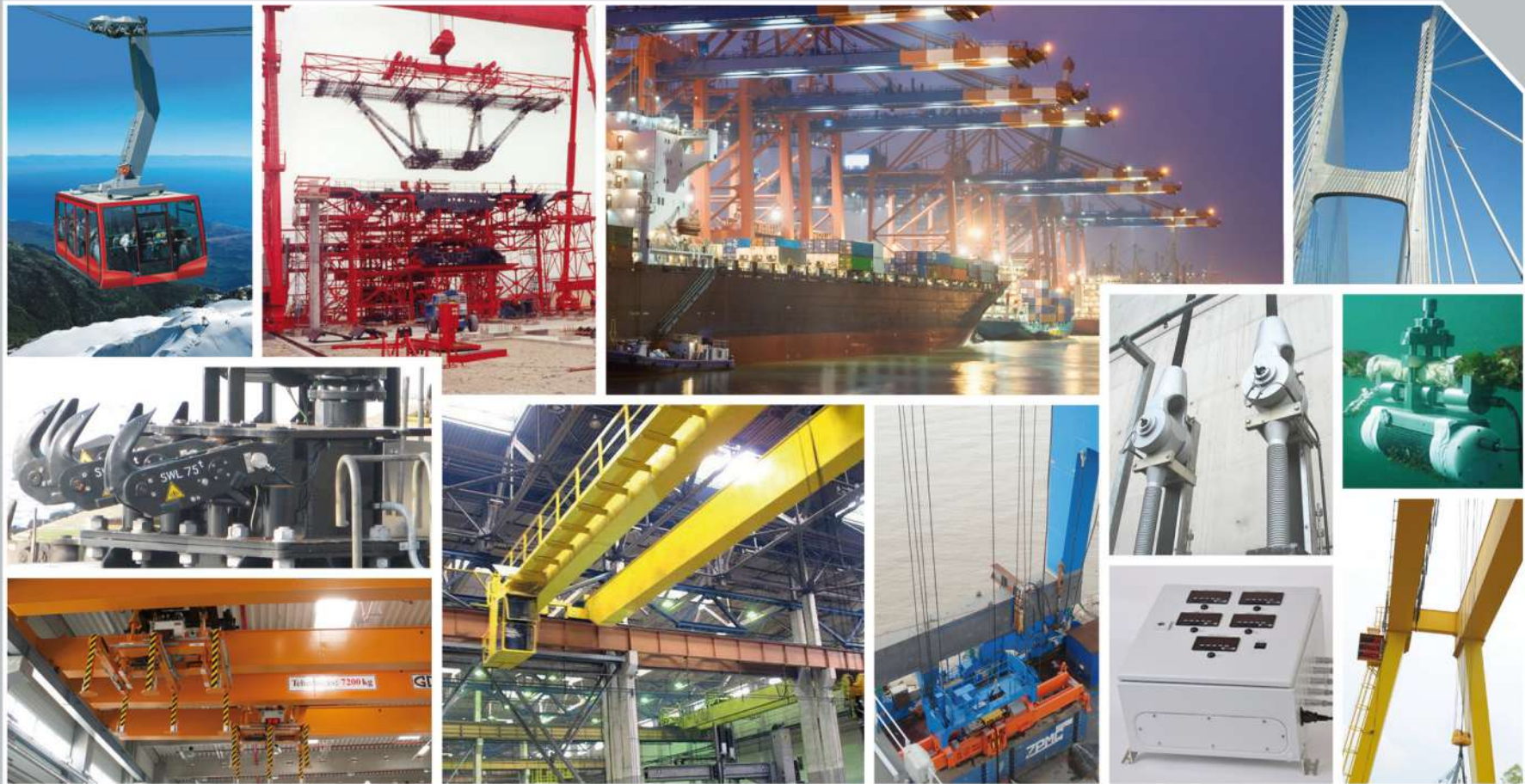
OUR STRENGTHS

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 load limitation, effort or force measurement (from 1 to 6,000,000 lbf / 3,000 tf), torque measurement (from 1 to 350 kft-lb / 475 kNm), and level measurement (for silos and tanks).

We also design transducers for **Oil & Gas industry**, including the most demanding ones, such as the **aerospace**.

This means that we develop sensors which can work in the harshest of environments (high temperatures, underwater to depths of 16,000 ft / 5,000 m, Ex-certified for use in potentially explosive atmospheres, etc.).

FROM DESIGN TO AFTER-SALES SUPPORT, SENSY IS SPECIALIZED IN LOAD LIMITATION



TYPICAL APPLICATIONS



ECONOMICAL LOAD LIMITER

Wire rope load cell
BRIDGE-BOY
1 or 3 set points
Capacities:
0.25 - 24 t / fall



5500 BRIDGE-BOY

LOAD LIMITER WITH LARGE DISPLAY

Load Pin (0.15 - 1500 t) 3 set points Large Display up to 400 mm
Standard or Customized:



5000 CRANE-BOY DISP-FPxx

HEAVY EOT

Load limitation of 2 hoisting devices with data recorder



5500 2IB1SUMD COACH-II

COMPLEX HOISTING

Load limitation of several hoisting devices and a mathematical function (sum, difference, ratio) of the different loads

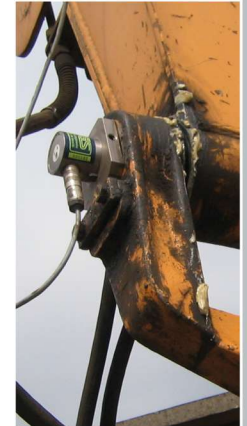


5000 CUSTOM-MADE LOAD PINS 4IB1SUMD



WEIGHING ON MOBILE GRAPPLE CRANES

Designed to avoid overloading of trucks during bulk loading.
Accuracy : 1 %
Totalizer function



5000 INDI-PAX



DOUBLE FRAME WEIGHING ON EOT

Weighing and load limiter
Full range : up to 500 t
Accuracy : 0.1 %



5950 CRANE-BOY JBOX-LCI

The system is designed for communicating with PLC through different communication protocols (RS232, RS485, PROFIBUS, USB).

TYPICAL APPLICATIONS



LOAD LIMITATION OF RIGGING SYSTEMS FOR THEATERS - TV STUDIOS - EXHIBITION HALLS - STAGES

With redundant signals for improved safety. Fully independent signals



5000M



5000
CUSTOM-MADE LOAD PINS



SIL3 ready



LOAD LIMITATION ON STS CRANES

Capacities: up to 60 t

Accuracy : 1 %

The system can communicate with PLC through different communication protocols (RS232, RS485, Ethernet, CANBus).



5900



5000



COACH-II



LOAD LIMITATION ON ELEVATORS

Sturdy design

Safety factor : 1000 %



5900



5000



BRIDGE-BOY-3R



CONTAINER WEIGHING

According to IMO MSC 1/CIRC.1475 Guidelines

Wide choice of load cells



5000M



5180B



5900



LOAD LIMITATION : SENSY SOLUTIONS



LOAD CELLS

Load pin



5000-5300-5050-5600

From 1 t to 1500 t
(higher capacities on request)
IP rating : up to 68
SIL3 Ready on request
Temperature: up to 180 °C

Load shackle



5000M

From 0.5 t to 1500 t
(higher capacities on request)
IP rating : up to 68
SIL3 Ready on request
Temperature: up to 180 °C

Load wedge socket



5000B

From 0.3 t to 25 t
Cable diameter : 9 to 39 mm
3/8" to 1 1/2"
IP rating : up to 68
Easy to install

Wire rope load cell



5500

0.25 t to 24 t on the wire rope
Cable diameter : 6 to 45 mm
IP 65
Reliable and economical solution
Temperature: up to 180 °C

Annular compression load cell



5900

From : 0.3 t to 20 t
IP 67
SIL3 Ready on request
Temperature: up to 180 °C
Easy to install

Tension Load Cell



5205(L)

From : 0.5 t to 300 t
(Higher capacities on request)
Sturdy design
IP rating : up to 67M
Breaking load > 500%

* Wireless option available

ELECTRONICS

Load monitoring



BRIDGE-BOY

Overload detection
Slack cable and intermediate load detection
Combined load of different hoisting devices
Analog output signal (0-10 V / 4-20 mA)
Positive safety
Test button
Summing modules available

Digital load monitoring



CRANE-BOY

Overload detection
Slack cable and intermediate load detection
Combined load of different hoisting devices
Analog and digital output signals
Positive safety
Test button
Easy to calibrate
Summing modules available

Large digital display



DISP-FPxx

Broad range of enclosures and large displays
Process input : 0..10 V and 4(0)..20 mA
4 or 6 digits
Digits height : from 57 to 400 mm

Dedicated data logger for hoisting devices



COACH-II

Analog and digital inputs
Calculation of safe working period (SWP)
Configuration through USB or Ethernet port
High data recording capacity
Optional alert system (via SMS)
Support for maintenance planification

Smart junction box



JBOX-LCI

Easy calibration by keys and 4 digits display
Ensure the positive safety for load limitation systems
Fail safe relay
Protection of parameters by secret code
Summing function (others available)

Load limitation for 2 hoisting devices



DISP-BOY-DP

Overload detection
A math function (+, -, * or %) can be performed on both signals
Analog and digital output signals
Positive safety
Internal monitoring system of the integrity of the load cells
Maximum and minimum memories, Smart filter

EXPLOSION PROOF SOLUTIONS

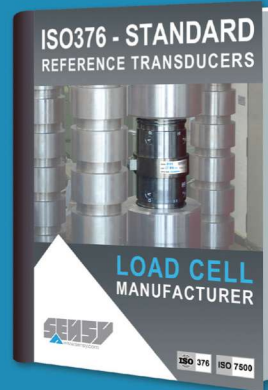
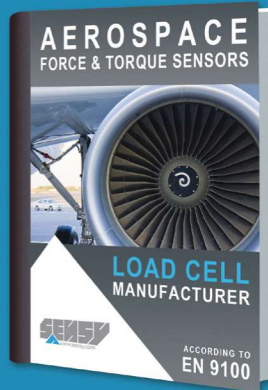
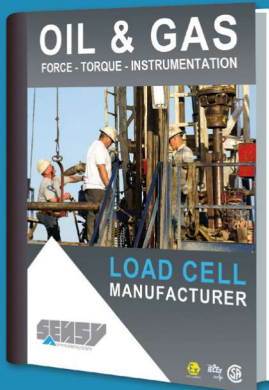
KNOW-HOW AND FLEXIBILITY THE WAY TO EXCELLENCE

Load monitoring Load display Load limitation

INTRINSICALLY SAFE

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

OUR OTHER MARKETS



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