

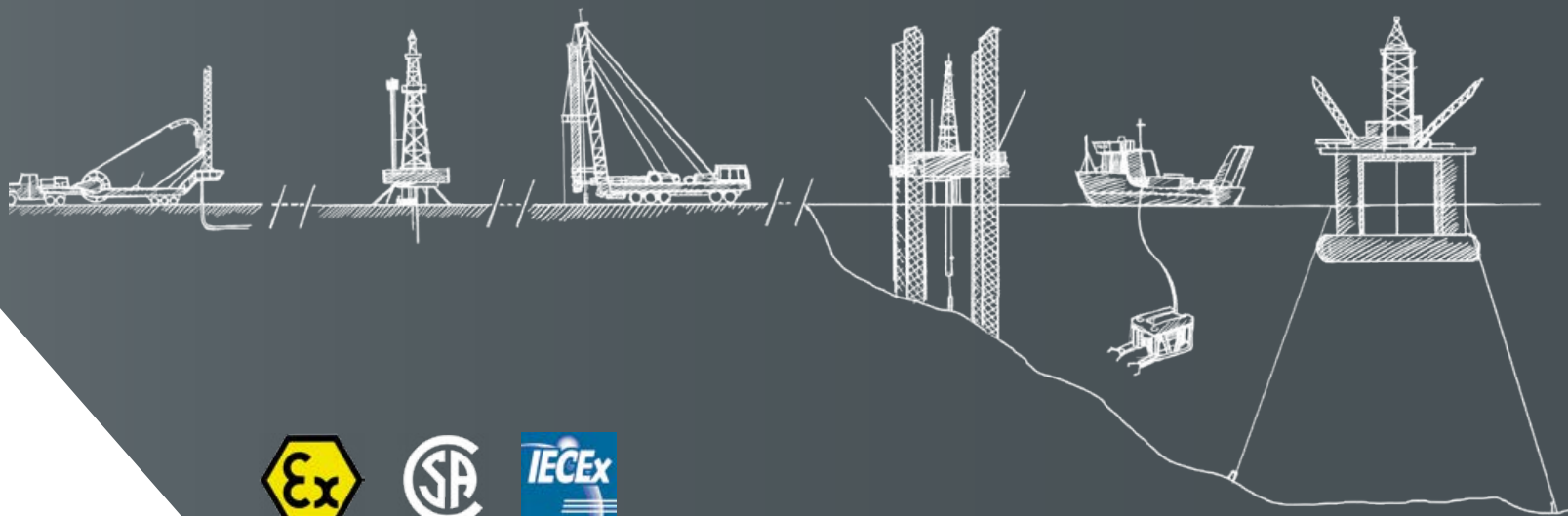


OIL & GAS INSTRUMENTATION

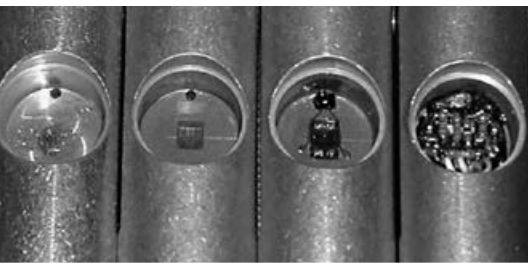
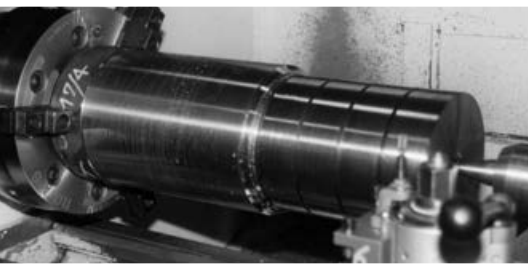
LOAD-FORCE-TORQUE SENSORS



LOAD CELL
MANUFACTURER



**FROM DESIGN TO AFTER-SALES SUPPORT, SENSY IS DEDICATED
TO SERVING THE OIL & GAS INDUSTRY**



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 all [industrial and Oil & Gas sectors](#), including the most demanding ones, such as the [aerospace sector](#). This means that we develop sensors able to work in harshest environments (high temperatures, underwater to depths of 16,000 ft/5,000 m, Ex-certified for use in potentially explosive atmospheres, etc.).

Since our first ATEX certification in 1997, we have developed a great deal of experience in this field. More recently, we have been awarded two new intrinsic safety certifications: [CSA](#) (USA and Canada) and [IECEX](#).

Not only do these certifications impose additional technical constraints, but they also enforce compliance with a specific Quality Assurance system (QA), thereby guaranteeing quality. And, as expected, our quality system is [EN13980](#) and [ISO / IEC 80079-34](#) certified.

Thanks to the valuable resources allocated to our R&D department, SENSY continues to excel in this specialist sector but also on [aerospace industry](#).

In order to meet the specific requirements and to ensure the [highest quality](#) to our customers, SENSY's procedures and processes are in accordance with the [EN9100 quality standards](#).



LOAD CELL
MANUFACTURER



EN 13980



EN 9100
COMPLIANT



RIG INSTRUMENTATION

TOP DRIVE INSTRUMENTATION

Tension - compression

Capacities: 2 - 3,000,000 lbf
(1 - 1,500 tf)

Torque

Capacities: 1 - 350 kft-lb
(1 - 475 kNm)

* Ex wireless



5000



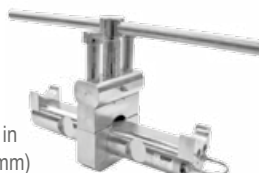
HOOK LOAD

MWD, Mud logging, etc.

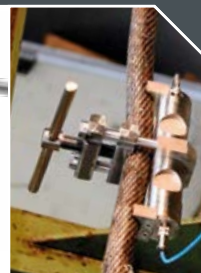
Capacities*: 60 - 150,000 lbf
(30 - 75 tf)

Rope diameter*: 0.875 - 2.25 in
(22 - 57.15 mm)

* Higher on request



5560S



DEAD LINE ANCHOR

- 3 redundant channels
- Accessible wiring terminal for on site cable repair

Capacities: 30 - 120,000 lbf
(15 - 60 tf)



5950-FS



POWER TONGS

Measure the torque through load pin or tension/compression cell

Capacities*: 1 - 100,000 lbf
(1 - 50 tf)

* Higher on request



5000

5100



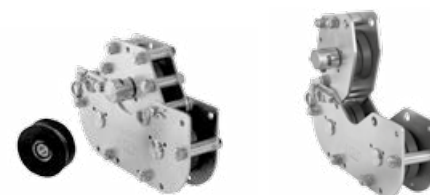
WIRE LINE

Running line: Removable upper sheave block**

Capacities*: 5 - 20,000 lbf Rope diameter: 0.25 - 0.52 in
(2.5 - 10 tf) (6 - 13 mm)

* Higher on request

** Integration of payout and/or speed encoders on request



5580



COILED TUBING

Tension + compression through pancake load cells or load pins / Force measurement at injector

Capacities*: 30 - 80,000 lbf
(15 - 40 tf)

* Higher on request

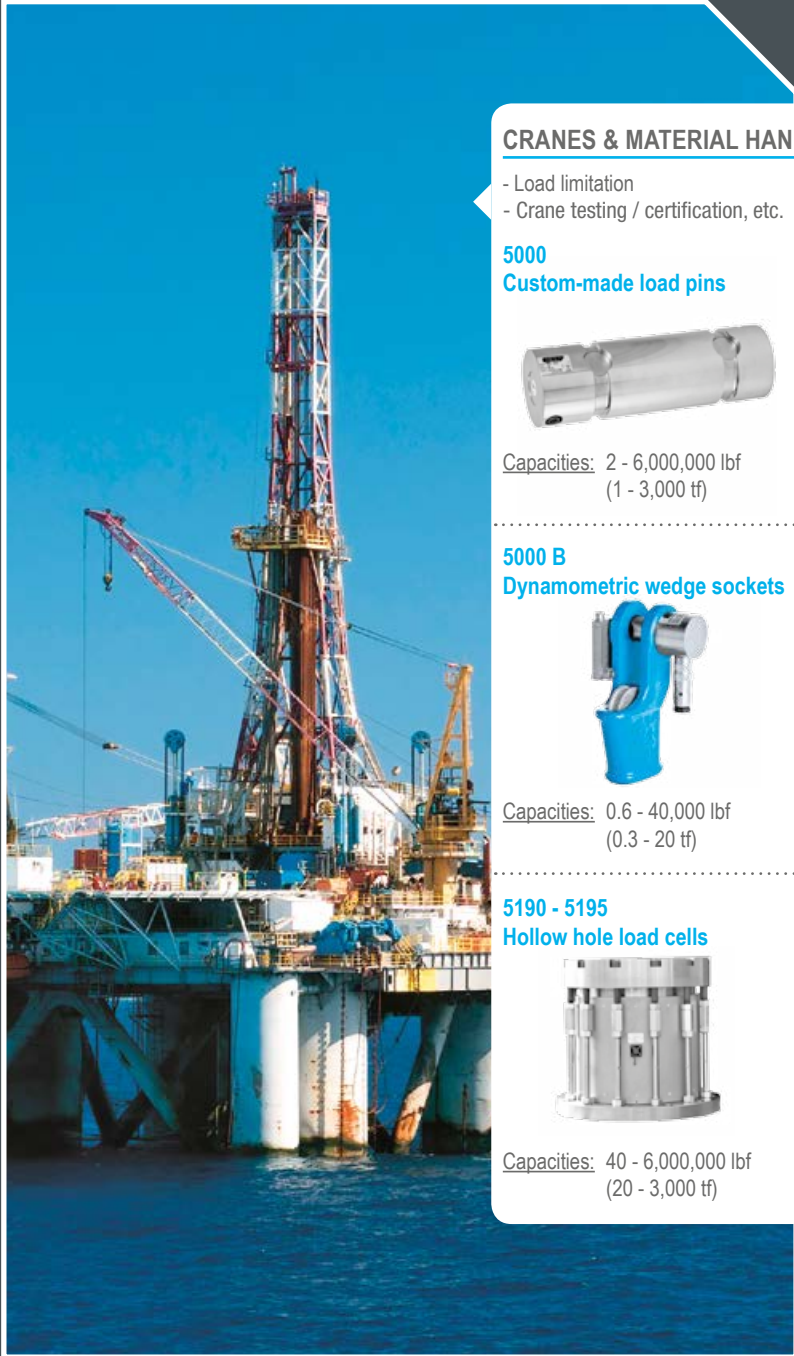


2960

5000



OFFSHORE



CRANES & MATERIAL HANDLING

- Load limitation
- Crane testing / certification, etc.

5000 Custom-made load pins



Capacities: 2 - 6,000,000 lbf
(1 - 3,000 tf)

5000 M Load shackles



Capacities: 2 - 3,000,000 lbf
(1 - 1,500 tf)

5000 B Dynamometric wedge sockets



Capacities: 0.6 - 40,000 lbf
(0.3 - 20 tf)

5200L Tension load cells



Capacities: 1 - 700,000 lbf
(0.5 - 350 tf)

5190 - 5195 Hollow hole load cells



Capacities: 40 - 6,000,000 lbf
(20 - 3,000 tf)

5900 Thru-hole load cells



Capacities: 0.6 - 40,000 lbf
(0.3 - 20 tf)

MARINE & SUBSEA



ROV UMBILICAL (TENSION MONITORING)

Capacities*: 1 - 15,000 lbf Rope diameter**: 0.5 - 2 in
(0.5 - 8 tf) (12 - 50 mm)

- * Higher on request
- ** Integration of payout / speed encoders on request



5570



5580



SUBSEA

Submersible load pins - tension cells - tensiometers
to a depth of 16,000 ft (5,000 m)

Capacities: 1 - 3,000,000 lbf
(0.5 - 1,500 tf)



5560S



5050



5100L



MARINE

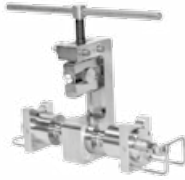


MOORING CONTROL (ON SHIPS, SEMI-SUBMERSIBLES, FPSO's)

Capacities*: 2 - 150,000 lbf (1 - 75 tf) Rope diameter**: 0.875 - 3.54 in (22 - 90 mm)

* Higher on request

** Cable for running line tensiometer (steel ropes or dyneema)



5540S
Quick release
ATEX (Explosion proof)



5580
Integration of payout and/or speed
encoder on request



5575



5050
Up to 2,000,000 lbf
(Up to 1,000 tf)



ELECTRONICS



INSTRUMENTATION

As a manufacturer of load cells and force transducers, we can supply complete measurement chains by connecting electronics to our products to meet your specific needs. Beside analogical or digital amplifiers integrated in our load cells or mounted on cables, we also offer a broad range of electronic equipment, dedicated software and Ex wireless transmitter to meet customer requirements.



Load monitoring of BOP
cranes in ATEX zone



Load display
in ATEX zone

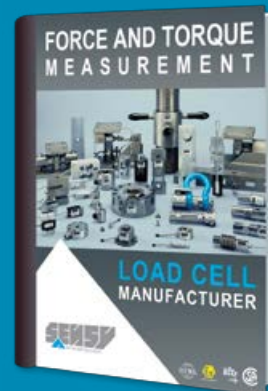
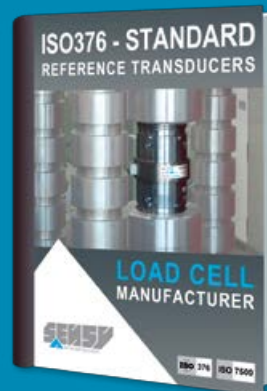
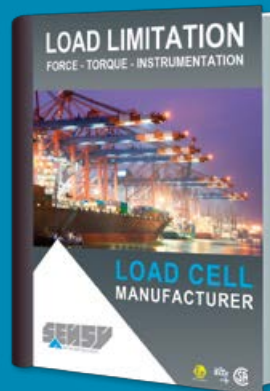
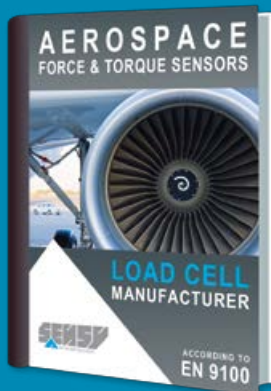


Load limitation
in ATEX enclosure



Tension / Speed /
Payout display

OUR OTHER MARKETS



Z.I. DE JUMET - ALLÉE CENTRALE
BE-6040 JUMET - BELGIUM
TEL +32 71 25 82 00
FAX +32 71 37 09 11
info@sensy.com