

## LOAD CELLS AND MOUNTING KITS



*new*

**DIGITAL**

**SINGLE POINT**

**BENDING BEAM**

**SHEAR BEAM**

**DOUBLE SHEAR BEAM**

**COMPRESSION-LOW PROFILE**

**COMPRESSION / TENSION**

**TENSION**

**COLUMN**

**PIN**

**FOR FOOT BRAKE**

**ANCHOR**

**WIRE ROPE MEASURING**

**MOUNTING KITS AND COMPLEMENTARY ACCESSORIES**

## Certifications



**EAC** **EAC Ex** **EAC PAC**



**IP69K**

## Load cells and mounting kits

LAUMAS offers a wide range of load cells of the most common types in the main industrial sectors providing for each of them the quality, availability and assistance.

**Load cells:** Single point, shear beam, double shear, bending, tension, compression, low profile, pin, anchor, wire rope measuring, pre-amplified, column, foot brake, for weighing bridge, digital, load limiters.

**Mounting kits for load cells:** For all load cells, LAUMAS is able to provide suitable weigh modules, with the aim of obtaining the correct application of the cell and maximum reliability and accuracy, and compatibly with the mechanical, electrical and pneumatic connections present on the weighing structure.

## LCB

### Universal load cells digitizer

**IoT INDUSTRY 4.0:** designed for IoT (Internet of Things) applications, LCB converts analog load cells into digital and can be also used on existing load cells.

**INTEGRATED FIELDBUS INTERFACEABLE WITH ANY PLC:** conceived for assembly/wiring integral to the load cell body, it can be connected by fieldbus to PLCs of the most important international brands.

**UNIVERSAL USE:** it is compatible with any kind of load cell or strain gauge sensor distributed in the market, with mV/V.

**SUITABLE FOR AGGRESSIVE ENVIRONMENTS:** IP67 box made of AISI 316 stainless steel with special waterproof connectors, suitable to be installed even in aggressive environments.

**CONFIGURATION:** through the PC program included in the supply, it is possible to perform calibration, set inputs and outputs and store calibration data. PC connection via micro-usb port.



## Production of load cells on CUSTOMER'S REQUEST

LAUMAS designs and manufactures "CUSTOM" load cells to offer the best solutions to customer needs.

Customizations are designed to solve specific problems or meet particular needs of applications in special conditions.














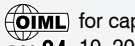






- Pre-amplified load cells
- Biaxial and triaxial
- Two strain gauges Wheatstone bridges
- Torque detection
- Special cables high / low temperature with non-standard thermal compensation



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## LOAD CELLS

For all models on request:   **ERC Ex** II 1GD (zone 0-1-2-20-21-22) - **ERC**

	CAPACITY kg	PLATFORM	MATERIAL PROTECTION RATING	COMBINED ERROR RATED OUTPUT	OIML R60 CERTIFICATION	OPTIONS ON REQUEST	KIT
	<b>AF</b> 5, 15, 50	150 x 150 mm	Special steel IP65	$\leq \pm 0.05\%$ 3 mV/V $\pm 5\%$	-	-	-
	<b>AS</b> 0.25, 0.5, 1	200 x 200 mm	Aluminum alloy IP65	$\leq \pm 0.03\%$ 1-2 mV/V $\pm 15\%$	-	-	-
	<b>ALL</b> 3, 5, 10, 15, 20, 30, 50	250 x 350 mm	Aluminum alloy IP65	$\leq \pm 0.02\%$ (0.017% C4; 0.014% C5) 2 mV/V $\pm 10\%$		 	page 14
	<b>PRC</b> 6, 15, 30, 50	350 x 350 mm	AISI 420 stainless steel IP67	$\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$	-	-	page 14
	<b>AU</b> 3, 6, 15 30, 50	250 x 400 mm 400 x 600 mm	Aluminum alloy IP65	$\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$	-	-	-
	<b>AZL</b> 10, 15, 20, 30, 50, 100	400 x 400 mm	Aluminum alloy IP65	$\leq \pm 0.02\%$ (0.017% C4) 2 mV/V $\pm 10\%$		 for capacities: R60 C4 15, 20, 30, 50 kg	page 10 page 14
	<b>AZLI</b> 10, 20, 50	400 x 400 mm	17-4 PH stainless steel IP68	$\leq \pm 0.02\%$ (0.017% C4) 2 mV/V $\pm 10\%$		 for capacities: R60 C4 10, 20, 50 kg IP69K: Declaration of conformity + IP69K marking protection rating	page 10
	<b>AZS</b> 10, 30, 50, 100, 200	400 x 400 mm	AISI 420 stainless steel IP67	$\leq \pm 0.03\%$ 2 mV/V $\pm 10\%$	-	-	page 10 page 14
	<b>PTC</b> 30, 50, 75, 100, 150	400 x 400 mm	AISI 420 stainless steel IP67	$\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$	-	-	-
	<b>AM</b> 60, 100, 150, 200, 300	400 x 400 mm	Aluminum alloy IP65	$\leq \pm 0.02\%$ (0.017% C4; 0.014% C5) 2 mV/V $\pm 5\%$		  Stainless steel + rubber waterproof kit	page 10 page 14












## LOAD CELLS

For all models on request:    II 1GD (zone 0-1-2-20-21-22) - 

	CAPACITY kg	PLATFORM	MATERIAL PROTECTION RATING	COMBINED ERROR RATED OUTPUT	OIML R60 CERTIFICATION	OPTIONS ON REQUEST	KIT
	<b>APL</b> 50, 100, 150, 200, 300, 500	600 x 600 mm	Aluminum alloy IP65	$\leq \pm 0.02\%$ (0.017% C4) 2 mV/V $\pm 10\%$		 for capacities: 150, 200, 300, 500 kg Stainless steel + rubber waterproof kit	page 14
	<b>PEC</b> 75, 150, 300, 500	600 x 600 mm	AISI 420 stainless steel IP67	$\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$	-	-	page 14
	<b>AR</b> 500, 1000	800 x 800 mm	Aluminum alloy IP65	$\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$	-	-	-
	<b>ATL</b> 1000, 2000	1200 x 1200 mm	Aluminum alloy IP65	$\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$		-	-





















	CAPACITY kg	MATERIAL PROTECTION RATING	COMBINED ERROR RATED OUTPUT	OIML R60 CERTIFICATION	OPTIONS ON REQUEST	KIT
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## BENDING BEAM

	<b>FCK</b> 5, 10	17-4 PH stainless steel IP68	$\leq \pm 0.02\%$ 2 mV/V $\pm 1\%$	-	-	page 10 page 13 page 14
	<b>FCOL</b> 20, 50, 100, 200, 350, 500	17-4 PH stainless steel IP68	$\leq \pm 0.02\%$ (0.017% C4) 2 mV/V $\pm 1\%$		  for capacities from 50 to 500 kg	page 10 page 13 page 14
	<b>FCAX</b> 30, 50, 75, 150, 300, 500	AISI 420 stainless steel IP68	$\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$	-	-	page 10 page 13 page 14
	<b>FCAL</b> 50, 75, 150, 300	17-4 PH stainless steel IP68	$\leq \pm 0.017\%$ 2 mV/V $\pm 0.1\%$		-	page 10 page 13 page 14
	<b>FTP</b> 75, 150, 300	AISI 420 stainless steel IP67	$\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$		-	page 10 page 11 page 13
	<b>FTK</b> 75, 150, 300	Special steel IP67	$\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$	-	-	page 10 page 11 page 13












## LOAD CELLS

For all models on request:    II 1GD (zone 0-1-2-20-21-22) - 

	CAPACITY kg	MATERIAL PROTECTION RATING	COMBINED ERROR RATED OUTPUT	OIML R60 CERTIFICATION	OPTIONS ON REQUEST	KIT
<b>SHEAR BEAM</b>						
	<b>FTL</b> 300, 500, 1000, 2000	17-4 PH stainless steel IP68	$\leq \pm 0.017\%$ 2 mV/V $\pm 0.1\%$		-	page 10 page 11 page 13
	<b>FTK</b> 500, 1000, 2000, 3000, 5000	Special steel IP68	$\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$	 capacities from 1000 to 5000 kg	-	page 10 page 11 page 13
	<b>FT-P</b> 500, 1000, 2000	17-4 PH stainless steel IP68	$\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$		IP69K: Declaration of conformity + IP69K marking protection rating	page 10 page 11 page 13
	<b>FTKL</b> 500, 1000, 1500, 2000, 3000, 5000	Special steel IP67	$\leq \pm 0.02\%$ (0.017% C4; 0.014% C5) 3 mV/V $\pm 0.4\%$		  	page 10 page 11 page 13
	<b>FTZ</b> 500, 1000, 2000, 5000	17-4 PH stainless steel IP67	$\leq \pm 0.02\%$ 3 mV/V $\pm 0.4\%$		-	page 10 page 11 page 13
	<b>FTZA</b> 500, 1000, 2000, 5000, 7500, 10000	17-4 PH stainless steel IP68	$\leq \pm 0.02\%$ (0.017% C4) 2 mV/V $\pm 0.4\%$		 for capacities: 500, 1000, 2000 kg	-
	<b>FCAX</b> 750, 1000, 1500	AISI 420 stainless steel IP68	$\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$	-	-	page 10 page 13 page 14
	<b>FTP</b> 500, 750, 1000, 1200, 1500, 2000, 3000, 5000, 10000	AISI 420 stainless steel IP68	$\leq \pm 0.02\%$ 2 mV/V $\pm 0.4\%$	 capacities from 500 to 2000 kg	-	page 10 page 11 page 13
Suitable for on-board vehicle weighing						
	<b>FTH</b> 5000, 10000	Special steel IP68	$\leq \pm 0.1\%$ 1 mV/V $\pm 0.5\%$	-	-	-



## LOAD CELLS

For all models on request:   **ERC Ex** II 1GD (zone 0-1-2-20-21-22) - **ERC**

	CAPACITY kg	MATERIAL PROTECTION RATING	COMBINED ERROR RATED OUTPUT	OIML R60 CERTIFICATION	OPTIONS ON REQUEST	KIT
<b>DOUBLE SHEAR BEAM</b>						
	<b>DTL</b> 25000	Special steel IP68	$\leq \pm 0.02\%$ 2 mV/V $\pm 0.2\%$		-	page 11 page 14
	<b>DTX</b> 20klb / 9 ton 30klb / 13.6 ton 40klb / 18 ton 50klb / 23 ton 60klb / 27 ton	Nickel plated alloy steel IP68	$\leq \pm 0.023\%$ 3.0 mV/V $\pm 0.1\%$		-	page 11
<b>COMPRESSION-LOW PROFILE</b>						
	<b>CK</b> 200, 500, 1000, 2500	17-4 PH stainless steel IP67	$\leq \pm 0.5\%$ 1 mV/V $\pm 10\%$	<b>ERC PAC</b> <i>on request</i>	-	-
	<b>CLS</b> 1000, 2000, 5000	AISI 420 stainless steel IP68	$\leq \pm 0.03\%$ 2 mV/V $\pm 0.4\%$	<b>ERC PAC</b> <i>on request</i>	-	page 11 page 13
	<b>CBL</b> 250, 500, 1000, 2500, 5000, 7500, 10000, 12500, 15000, 30000, 50000, 100000	17-4 PH stainless steel IP68	$\leq \pm 0.03\%$ (0.02% C3) 2 mV/V $\pm 0.1\%$	 capacities from 2500 to 10000 kg <b>ERC PAC</b> <i>on request</i>	 capacities from 2500 to 12500 kg • 10 m long cable version. • Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. • Two redundant strain gauges Wheatstone bridges (350 $\Omega$ ) with two output cables; for dual safety systems. • AISI 420 stainless steel version (not OIML approved). • IP69K: Declaration of conformity + IP69K marking protection rating	page 12 page 14
	<b>CBX</b> 15000, 30000, 50000	17-4 PH stainless steel IP68	$\leq \pm 0.035\%$ 2 mV/V $\pm 0.1\%$	<b>ERC PAC</b> <i>on request</i>	• Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. • Two redundant strain gauges Wheatstone bridges (350 $\Omega$ ) with two output cables; for dual safety systems.	page 12 page 14
	<b>CBLs</b> 200000, 300000, 500000, 750000	17-4 PH stainless steel IP68	$\leq \pm 0.10\%$ 2 mV/V $\pm 0.1\%$	<b>ERC PAC</b> <i>on request</i>	• Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability. • Two redundant strain gauges Wheatstone bridges (350 $\Omega$ ) with two output cables; for dual safety systems.	page 14

## LOAD CELLS











For all models (except for CLBT) on request:    II 1GD (zone 0-1-2-20-21-22) - **EAC**

	CAPACITY kg	MATERIAL PROTECTION RATING	COMBINED ERROR RATED OUTPUT	OIML R60 CERTIFICATION	OPTIONS ON REQUEST	KIT
<b>COMPRESSION / TENSION</b>						
	<b>CLBT</b> 50, 100, 500*	Aluminium alloy 17-4 PH* stainless steel IP65	$\leq \pm 0.05\%$ 2 mV/V $\pm 10\%$	-	-	pag. 14
	<b>CL</b> 500, 1000, 2000, 5000, 10000, 20000, 30000, 60000, 100000*, 150000*, 200000*	17-4 PH stainless steel IP68 IP67*	$\leq \pm 0.05\%$ 2 mV/V $\pm 0.3\%$	<b>EAC PRC</b> <i>on request</i>	<ul style="list-style-type: none"> <li>• Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability.</li> <li>• Two redundant strain gauges Wheatstone bridges (350 <math>\Omega</math>) with two output cables; for dual safety systems.</li> </ul>	-
	<b>CLK</b> 2000, 5000, 10000*, 20000*	Special steel IP67	$\leq \pm 0.05\%$ $\leq \pm 0.1\%$ * 2 mV/V $\pm 0.3\%$	<b>EAC PRC</b> <i>on request</i>	-	-
<b>TENSION (COMPRESSION)</b>						
	<b>SA</b> 15, 30, 60	Special steel IP65	$\leq \pm 0.02\%$ 2 mV/V $\pm 10\%$		-	page 13
	<b>SL</b> 25, 100, 200, 300, 500, 1000, 2500	Special steel IP67	$\leq \pm 0.02\%$ (0.017% C4) 2 mV/V $\pm 0.2\%$	 capacities from 100 to 2500 kg	 capacities from 100 to 2500 kg	page 13
Can also be used as load limiter for lifting equipment						
	<b>CTOL</b> 50, 100, 200, 300	AISI 420 stainless steel	$\leq \pm 0.03\%$	<b>EAC PRC</b> <i>on request</i>	-	page 13
		IP67	2 mV/V $\pm 0.4\%$			
	<b>CTL</b> 100, 200, 300, 500, 1000, 2500, 5000, 7500, 10000, 12500	17-4 PH stainless steel IP68	$\leq \pm 0.02\%$ 2 mV/V $\pm 0.1\%$	 capacities from 500 to 12500 kg  <b>EAC PRC</b> <i>on request</i>	<ul style="list-style-type: none"> <li>• Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability.</li> <li>• Two redundant strain gauges Wheatstone bridges (350 <math>\Omega</math>) with two output cables; for dual safety systems.</li> <li>• IP69K: Declaration of conformity + IP69K marking protection rating.</li> </ul>	page 13
<b>TENSION</b>						
Can also be used as load limiter for lifting equipment						
	<b>TAL</b> 5000, 10000, 20000	17-4 PH stainless steel IP68	$\leq \pm 0.03\%$ 2 mV/V $\pm 0.1\%$	-	<ul style="list-style-type: none"> <li>• Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability.</li> <li>• Two redundant strain gauges Wheatstone bridges (350 <math>\Omega</math>) with two output cables; for dual safety systems.</li> </ul>	-
	<b>TBT</b> 30000, 40000, 50000, 60000, 100000, 250000	17-4 PH stainless steel IP68	$\leq \pm 0.08\%$ 1.0 mV/V $\pm 0.1\%$	-	<ul style="list-style-type: none"> <li>• Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability.</li> <li>• Two redundant strain gauges Wheatstone bridges (350 <math>\Omega</math>) with two output cables; for dual safety systems.</li> </ul>	-



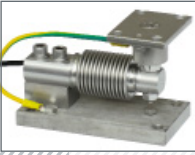

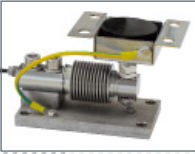

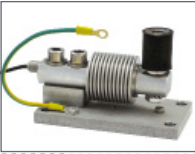







## LOAD CELLS

For all models on request:   **ERC Ex** II 1GD (zone 0-1-2-20-21-22) - **ERC**


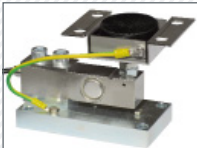


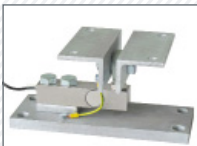





	CAPACITY kg	MATERIAL PROTECTION RATING	COMBINED ERROR RATED OUTPUT	OIML R60 CERTIFICATION	OPTIONS ON REQUEST	KIT	
<b>COLUMN</b>							
	15000, 25000, 50000  COK-AR 25000 anti rat cable	Special steel  IP68	$\leq \pm 0.02\%$  2 mV/V $\pm 0.1\%$	  <b>ERC PAC</b> <i>on request</i>	-	page 11 page 12	
	25000	17-4 PH stainless steel  IP68	$\leq \pm 0.017\%$  2 mV/V $\pm 0.1\%$	  <b>ERC PAC</b> <i>on request</i>	-	page 12	
	30000, 60000	17-4 PH stainless steel  IP68	$\leq \pm 0.013\%$  2 mV/V $\pm 0.1\%$	  <b>ERC PAC</b> <i>on request</i>	-	page 11 page 12	
<b>PIN</b>							
Can also be used as load limiter for lifting equipment							
	5000, 10000, 20000	17-4 PH stainless steel  IP67	$\leq \pm 0.1\%$  1 mV/V $\pm 0.1\%$	-	<ul style="list-style-type: none"> <li>• Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability.</li> <li>• Two redundant strain gauges Wheatstone bridges (350 <math>\Omega</math>) with two output cables; for dual safety systems.</li> </ul>	-	
<b>FOR FOOT BRAKE</b>							
	100	Aluminum  IP65	$\leq \pm 0.08\%$  1 mV/V $\pm 0.2\%$	-	<ul style="list-style-type: none"> <li>• Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability.</li> <li>• Two redundant strain gauges Wheatstone bridges (350 <math>\Omega</math>) with two output cables; for dual safety systems.</li> </ul>	-	
<b>ANCHOR</b>							
	30000, 50000, 75000, 100000, 125000, 150000, 180000, 250000	17-4 PH stainless steel  IP68	$\leq \pm 0.1\%$  2 mV/V $\pm 0.1\%$	<b>ERC PAC</b> <i>on request</i>	<ul style="list-style-type: none"> <li>• Calibration report - ACCREDIA LAT (EA, ILAC, IAF) traceability.</li> <li>• Two redundant strain gauges Wheatstone bridges (350 <math>\Omega</math>) with two output cables; for dual safety systems.</li> </ul>	page 14	
<b>WIRE ROPE MEASURING</b>							
Suitable as load limiter for lifting equipment							
	CAPACITY kg	ROPE $\varnothing$ mm	MATERIAL PROTECTION RATING	COMBINED ERROR RATED OUTPUT	OIML R60 CERTIFICATION	OPTIONS ON REQUEST	KIT
	2000 4000 10000 20000 40000	6-14 10-18 16-26 24-36 24-36	Special steel  IP67	Switching accuracy $\pm 2\%$ on Full Scale  3 mV/V $\pm 0.1\%$	-	-	-

## MOUNTING KITS FOR LOAD CELLS












MODEL	APPLICATION RANGE	DESCRIPTION	FOR LOAD CELLS	
<b>for SINGLE POINT load cells</b>				
 T8-AZLI T8-AZL T8-AZS T8-AM	from 10 to 300 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV); lower plate and block in galvanized steel; constraint against lateral forces and anti-tilt by self-centring galvanized steel joint foot; adjustable height.	AZL, AZLI, AZS, AM	
<b>for BENDING BEAM load cells</b>				
 TFC-PV TFC-PV10	from 5 to 500 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV); lower plate and block in AISI 304 stainless steel; constraint against lateral forces and anti-tilt by self-centring joint foot in stainless steel; adjustable height.	FCK, FCOL	
 TFC-GP	from 5 to 500 kg	Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber; lower plate and block in AISI 304 stainless steel.	FCK, FCOL	
 TFC-FSB	from 5 to 200 kg	Mounting kit provided with compression joint in AISI 304 stainless steel and rubber; lower plate and block in AISI 304 stainless steel.	FCK, FCOL	
 TF-PV TF-PVZ	from 30 to 500 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV); lower plate and block in AISI 304 stainless steel; constraint against lateral forces and anti-tilt by self-centring joint foot in stainless steel (TF-PV, TF-PV-2000) or in galvanized steel (TF-PVZ); limited height adjustment.	FCAL FCAX: 30÷500 kg	<b>B</b>
 TF-PV-2000	from 30 to 1000 kg		FCAL FCAX: 30÷500 kg FCAX: 750÷1000 kg	<b>B</b> <b>S</b>
 TF-FSB	from 30 to 500 kg	Mounting kit provided with compression joint in AISI 304 stainless steel and rubber; lower plate and block in AISI 304 stainless steel.	FCAL FCAX: 30÷500 kg	<b>B</b>
 TF-AST	from 30 to 500 kg	Mounting kit provided with tension ball joint in aluminum alloy; lower plate and block in AISI 304 stainless steel; galvanized screws.	FCAL FCAX: 30÷500 kg	<b>B</b>
 TF-GP	from 30 to 500 kg	Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber; lower plate and block in AISI 304 stainless steel.	FCAL FCAX: 30÷500 kg	<b>B</b>
 TF-GP-2000	from 30 to 1500 kg		FCAL FCAX: 30÷500 kg FCAX: 750÷1500 kg	<b>B</b> <b>S</b>
 T12-FCA-GP	from 30 to 1500 kg	Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber; lower plate, block and screws in galvanized steel.	FCAL FCAX: 30÷500 kg FCAX: 750÷1500 kg	<b>B</b> <b>S</b>
 T12-FTA-GP	from 75 to 2000 kg	Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber; lower plate, block and screws in galvanized steel.	FTL, FTKL, FT-P, FTZ FTK: 75÷300 kg FTK: 500÷2000 kg FTP: 75÷300 kg FTP: 500÷2000 kg	<b>B</b> <b>S</b> <b>B</b> <b>S</b>

**B = bending beam load cell; S = shear beam load cell**

## MOUNTING KITS FOR LOAD CELLS

MODEL	APPLICATION RANGE	DESCRIPTION	FOR LOAD CELLS
<b>for SHEAR BEAM load cells</b>			
 TF500	from 75 to 500 kg	Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber. TF500: lower plate, block and screws in AISI 304 stainless steel TF2000: lower plate, block and screws in AISI 304 stainless steel TF2000Z: lower plate, block and screws in galvanized steel	FTL, FTKL, FT-P, FTZ FTK: 75÷300 kg FTK: 500 kg FTP: 75÷300 kg FTP: 500 kg
 TF2000 TF2000Z	from 75 to 2000 kg		FTL, FTKL, FT-P, FTZ FTK: 75÷300 kg FTK: 500÷2000 kg FTP: 75÷300 kg FTP: 500÷2000 kg
 PV PVZ	from 75 to 2000 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV); constraint against lateral forces and anti-tilt by self-centring joint foot; adjustable height. PV: lower plate, block and foot in stainless steel PVZ: lower plate, block and foot in galvanized steel	FTL, FTKL, FT-P, FTZ FTK: 75÷300 kg FTK: 500÷2000 kg FTP: 75÷300 kg FTP: 500÷2000 kg
 TF-PS 2000	from 75 to 2000 kg	Galvanized steel mounting kit designed for weighing silos, tanks, mixing machines and hoppers subject to vibrations caused by moving parts; constraint against lateral forces and anti-tilt by ball joint; adjustable height.	FTL, FTKL, FT-P, FTZ FTK: 75÷300 kg FTK: 500÷2000 kg FTP: 75÷300 kg FTP: 500÷2000 kg
 PV80 PV80Z	from 3000 to 5000 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV80); constraint against lateral forces and anti-tilt by self-centring joint foot in stainless steel; adjustable height. PV80: lower plate and block in AISI 304 stainless steel PV80Z: lower plate and block in galvanized steel	FTP: 3000÷5000 kg FTZ: 5000 kg FTK: 3000÷5000 kg
 PS PS10T	from 3000 to 5000 kg 10000 kg	Hot worked galvanized steel mounting kit designed for weighing silos, tanks, mixing machines and hoppers subject to vibrations caused by moving parts; constraint against lateral forces and anti-tilt by ball joint; adjustable height.	FTP: 3000÷5000 kg FTK: 3000÷5000 kg FTZ: 5000 kg FTP: 10000 kg
<b>for DOUBLE SHEAR BEAM load cells</b>			
 VCOKDTL	from 15000 to 50000 kg	Galvanized steel mounting kit designed for weighing silos, tanks, mixing machines and hoppers subject to vibrations caused by moving parts.	DTL COL COK
 VDTX	from 30 klb/13.6 ton to 60 klb/27 ton	Nickel-plated steel alloy mounting kit for rigid attachment of the load cell. It prevents horizontal movement.	DTX: 30÷60 klb
<b>for COMPRESSION-LOW PROFILE load cells</b>			
 PVCLS	from 1000 to 2000 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV); constraint against lateral forces and anti-tilt by self-centring joint foot in stainless steel; adjustable height.	CLS: 1000÷2000 kg
 PV80CLS	5000 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel (PPV80); constraint against lateral forces and anti-tilt by self-centring joint foot in stainless steel; adjustable height.	CLS: 5000 kg

## MOUNTING KITS FOR LOAD CELLS

MODEL	APPLICATION RANGE	DESCRIPTION	FOR LOAD CELLS
<b>for COMPRESSION-LOW PROFILE load cells</b>			
 PSCLS	5000 kg	Hot worked galvanized steel mounting kit designed for weighing silos, tanks, mixing machines and hoppers subject to vibrations caused by moving parts; constraint against lateral forces and anti-tilt by ball joint; adjustable height.	CLS: 5000 kg
 V10000 V10275	from 250 to 15000 kg	AISI 304 stainless steel mounting kit designed for weighing silos, tanks, mixing machines and hoppers subject to vibrations caused by moving parts; laminas against lateral forces, anti-tilt and jack functions.	CBL: 250 ÷ 12500 kg CBX: 15000 kg
 V15000	from 15000 to 30000 kg		CBL: 15000 kg *CBX: 30000 kg
 V30000	from 30000 to 50000 kg		CBL: 30000 kg *CBX: 50000 kg
 V100000	from 50000 to 100000 kg		CBL: 50000 ÷ 100000 kg *CBX: 50000 kg
 P10000 + BASESUP	from 250 to 15000 kg	Lower plate and turned upper base in AISI 304 stainless steel.	CBL: 250 ÷ 12500 kg CBX: 15000 kg
 BASEINF + BASESUP	from 250 to 15000 kg	Turned upper and lower bases in AISI 304 stainless steel.	CBL: 250 ÷ 12500 kg CBX: 15000 kg
 PIASTRA + BASEINF	from 250 to 15000 kg	Lower plate and turned lower base in AISI 304 stainless steel.	CBL: 250 ÷ 12500 kg CBX: 15000 kg
<b>for COLUMN load cells</b>			
 KIT_COK	from 15000 to 50000 kg	Mounting kit composed by protective rubber seal, 2 bases (upper and lower) and 3 self-centring cylindrical plates. KIT_COK: special steel KIT_COL: AISI 420 hardened steel	COK COK-AR
 KIT_COL	from 30000 to 60000 kg		COL
 KIT_CO PIA_CO	25000 kg	Kit composed by 2 stainless steel bases. Kit composed by 2 special steel plates (upper and lower) for KIT_CO bases.	CO

## COMPLEMENTARY ACCESSORIES FOR LOAD CELLS

MODEL	DESCRIPTION	FOR LOAD CELLS
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### Adjustable upper plate



<b>PPV</b>	AISI 304 stainless steel plates for self-centring joint foot.	FTK, FTKL, FTL, FTP, FT-P, FTZ
<b>PPV80</b>		FTK, FTP, FTZ

### Self-centring joint foot



<b>PIEDINOSB2M8</b>	M8 x 1.25 mm	max 500 kg	stainless steel	FCAL, FCAX, FCOL, FTK, FTKL, FTL, FTP, FT-P, FTZ
<b>PIEDINOSB2M10</b>	M10 x 1.50 mm	max 500 kg	stainless steel	
<b>PIEDINOSB2INOX</b>	M12 x 1.75 mm	max 2000 kg	stainless steel	
<b>PIEDINOSB2M20</b>	M20 x 2.50 mm	max 5000 kg	stainless steel	
<b>PIEDINOSB2ZNCM8</b>	M8 x 1.25 mm	max 500 kg	galvanized steel	
<b>PIEDINOSB2ZNCM10</b>	M10 x 1.50 mm	max 500 kg	galvanized steel	
<b>PIEDINOSB2ZNC</b>	M12 x 1.75 mm	max 2000 kg	galvanized steel	
<b>PIEDINOSB2ZNCM20</b>	M20 x 2.50 mm	max 5000 kg	galvanized steel	

### Accessory with ball



<b>ACCSFERM12</b>	M12 x 1.75 mm	stainless steel / max static load 2000 kg	FTKL, FTL, FTP, FT-P, FTK, FTZ, CLS
<b>ACCSFERM20</b>	M20 x 2.50 mm	stainless steel / max static load 5000 kg	FTK, FTKL, FTP 3000-5000 kg, FTZ 5000 kg, CLS 5000 kg

### Compression joint



<b>ANTIV35</b>	Stainless steel + rubber joints, to compensate for misalignment of the support plates: Ø25x63 mm; M8x1.25 mm; max static load 500 kg	FCOL, FCK
<b>ANTIV40</b>		FTKL, FTL, FCAL, FCAX, FTP, FT-P, FTK, FTZ, CLS
<b>ANTIV45</b>		FCAL, FCAX

### Spherical plain thrust bearings to compensate for misalignment





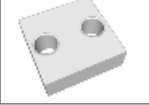

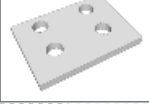
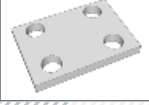
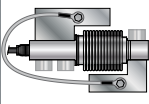

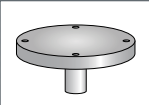



<b>SNODOGE12AX</b>	Steel joint.	CLS, FTK, FTKL, FTL, FTP, FT-P, FTZ
<b>SNODOGE20AXKIT</b>	Kit composed by steel joint + galvanized bolt (20x80 mm) and washer (22x60 mm).	CLS 5000 kg, FTK 3000-5000 kg, FTKL, FTZ 5000 kg
<b>SNODOGE25AXKIT</b>	Kit composed by steel joint + galvanized bolt (24x100 mm) and washer (26x72 mm).	FTP 10000 kg

### Ball-and-socket joint


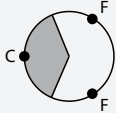
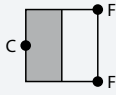
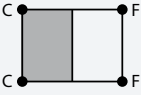


MODEL	DESCRIPTION	FOR LOAD CELLS	MODEL	DESCRIPTION	FOR LOAD CELLS
<b>EM6</b>	M6 x 1.00 mm	SA	<b>EM20</b>	M20 x 1.50 mm	SL, CTOL, CTL
<b>EM8</b>	M8 x 1.25 mm	SL	<b>EM25</b>	M24 x 2.00 mm	CTOL, CTL
<b>EM10</b>	M10 x 1.50 mm	SL	<b>EM30</b>	M30 x 2.00 mm	CTL
<b>EM12</b>	M12 x 1.75 mm	SL, CTOL, CTL	<b>EM35</b>	M36 x 3.00 mm	CTL
<b>EM16</b>	M16 x 2.00 mm	CTOL, CTL			

MODEL / DESCRIPTION	FOR LOAD CELLS
 <p><b>TENDITORE300</b> Galvanized steel stay rod with dual ball-and-socket joints suitable for static applications, to be placed horizontally. Working load: 2500 kg Breaking load: 10000 kg</p>	-
 <p><b>PTEND</b> Galvanized steel anchor plate for TENDITORE300.</p>	-
 <p><b>STAFFEALL</b> Pair of tension stainless steel brackets (max 50 kg).</p>	ALL
 <p><b>IP68 -AM/APL</b> Stainless steel + rubber waterproof kit.</p>	AM, APL
 <p><b>BLOCPRC</b> Stainless steel drawn block 31x30 mm; tickness 10 mm</p>	AZS, PRC
 <p><b>BLOCT8Z</b> Galvanized steel drawn block 36x35 mm; tickness 10 mm</p>	AZL, AM
 <p><b>BLOCAPL</b> Stainless steel drawn block 60x43 mm; tickness 5 mm</p>	APL
 <p><b>BLOCEPC</b> Stainless steel drawn block 50x32.5 mm; tickness 5 mm</p>	PEC
 <p><b>STAFFE -FC/FCA</b> Pair of tension stainless steel brackets: max static load: 100 kg max static load: 300 kg</p>	FCK, FCOL FCAX, FCAL
 <p><b>PIATTODTL</b> Galvanized steel plate 210x80 mm; tickness 12 mm</p>	DTL
 <p><b>BINFCLBT</b> Lower base for tension operation.</p>	CLBT

MODEL / DESCRIPTION	FOR LOAD CELLS
 <p><b>BASESUPFIL</b> Threaded upper base in AISI 304 stainless steel for compression load cells.</p>	CBL CBX
<p>Turned lower base in AISI 304 stainless steel for compression load cells.</p>	
<p><b>BINF100</b> Ø110x22 mm <b>BINF126</b> Ø140x23 mm <b>BINF165</b> Ø180x23 mm</p>	CBL: 15000 kg CBX: 30000 kg CBL: 30000 kg CBX: 50000 kg CBL: 50000 ÷ 100000 kg
<p>AISI 304 stainless steel adapter for mounting kits: V15000, V30000, V100000.</p>	
<p><b>ADAT100CBX15T</b> Ø100x6 mm <b>ADAT126CBX30T</b> Ø126x9 mm <b>ADAT165CBX50T</b> Ø165x29 mm</p>	CBX: 15000 kg CBX: 30000 kg CBX: 50000 kg
<p>Upper plate</p>	
<p><b>BOTTONE200</b> Ø119 mm; tickness 60 mm</p>	CBL: 200000 kg
<p><b>BOTTONE</b> Ø198 mm; tickness 60 mm</p>	CBL: 300000 kg
<p><b>BOTTONE750</b> Ø198 mm; tickness 89 mm</p>	CBL: 500000 ÷ 750000 kg
<p>Galvanized steel upper / lower plate for load distribution.</p>	
<p><b>PIAS50CASUP</b> Ø98x25 mm <b>PIAS75CASUP</b> Ø98x27.5 mm <b>PIAS120CASUP</b> Ø150x27.5 mm <b>PIAS165CASUP</b> Ø199x30 mm <b>PIAS225CASUP</b> Ø250x30 mm <b>PIAS50CAINF</b> Ø170x25 mm <b>PIAS75CAINF</b> Ø170x25 mm <b>PIAS120CAINF</b> Ø240x30 mm <b>PIAS165CAINF</b> Ø290x30 mm <b>PIAS225CAINF</b> Ø330x35 mm</p>	CA

## LEVEL MEASUREMENTS - FALSE CELLS

CAPACITY kg	MATERIAL	DESCRIPTION
 <p><b>ML</b> CBL250-10000 - CBX15000 CBL15000 - CBX3000 CBL30000 - CBX5000 CBL50000-100000</p>	Stainless steel	<p>"False cells" (ML) are structural mechanical steel elements that can be used in combination with the load cells for measuring the level of liquid or weighing powder products that do not require a high degree of precision. False cells feature similar dimensions to the load cells and can be mounted on the same accessories as the latter.</p> <p>- Structure with 3-point support = 1 load cell + 2 false cells - Structure with 4-point support = 2 load cells + 2 false cells</p>
<p>FCAL-FCAX FCK-FCOL FTK75-2000 FTP75-2000 FTL300-2000 FTZ500-2000 FTK3000-5000 FTP3000-5000</p>	Galvanized steel	 <p>Signal mV x 3</p>  <p>Signal mV x 2</p>  <p>Signal mV x 2</p> <p>C = SUPPORT FOOT WITH LOAD CELL F = SUPPORT FOOT WITH FALSE CELL</p>



## JUNCTION BOXES

Stainless steel or ABS junction boxes, including equalization boards or parallel connection boards, to connect from 1 to 4 or from 5 to 8 load cells.  
IP67 protection rating.  
Lightning and electrical shock protection versions.  
ATEX II 1GD certified versions.



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