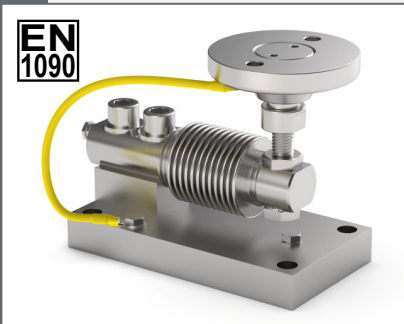


LOAD CELLS AND MOUNTING KITS



SINGLE-POINT

BENDING BEAM

SHEAR BEAM

DOUBLE SHEAR BEAM

COLUMN DIGITAL

COLUMN

COMPRESSION FOR FOOT

COMPRESSION-LOW PROFILE

COMPRESSION / TENSION

TENSION

PIN

FOR FOOT BRAKE

ANCHOR

FOR WIRE ROPE MEASURING

MOUNTING KITS

LCB – UNIVERSAL DIGITIZER FOR LOAD CELLS

CERTIFICATIONS



European Conformity Mark (CE)



UKCA CERTIFICATION (UK Conformity Assessed) for the United Kingdom



EAC CERTIFICATION



OIML APPROVAL



EU TYPE EXAMINATION CERTIFICATE FOR UK Non-Automatic Weighing Instruments (NAWI)



3-A SANITARY STANDARDS



NTEP CERTIFICATION



ATEX CERTIFICATION



IECEx CERTIFICATION



EAC Ex CERTIFICATION



FM HazLoc (Hazardous Locations) CERTIFICATION



PAC CERTIFICATION (Pattern Approval Certificate)



CPA CERTIFICATION (Chinese Pattern Approval)



EN1090



DECLARATION OF CONFORMITY IP69K MARKING PROTECTION RATING

Testing, Calibration, Quality Control

Calibration service through our **accredited laboratory for the calibration** of load cells and load cells + weight indicator.

Issue of the relative certificates for force values between 2 and 100 kN (according to UNI EN ISO 376 and ASTM E 74 standards) or the linearity and repeatability test for force values between 0.5 and 5000 kN (compression) and between 0.5 and 600 kN (traction).

■ LOAD CELLS

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.

SINGLE-POINT	page	4
BENDING BEAM	page	6
SHEAR BEAM	page	6
DOUBLE SHEAR BEAM	page	8
COLUMN DIGITAL	page	8
COLUMN	page	8
COMPRESSION FOR FOOT	page	8
COMPRESSION-LOW PROFILE	page	10
COMPRESSION / TENSION	page	10
TENSION (COMPRESSION)	page	10/12
TENSION	page	12
PIN	page	12
FOR FOOT BRAKE	page	12
ANCHOR	page	12
FOR WIRE ROPE MEASURING	page	12

■ MOUNTING KITS

For all load cells, LAUMAS is able to provide suitable mounting kits, 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.

for SINGLE-POINT load cells	page	14
for BENDING / SHEAR BEAM load cells	page	14/15
for DOUBLE SHEAR BEAM load cells	page	16
for COMPRESSION-LOW PROFILE load cells	page	16/17
for COLUMN load cells	page	17

■ COMPLEMENTARY ACCESSORIES

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■ CUSTOM LOAD CELLS / JUNCTION BOXES

page **21**

■ LCB – UNIVERSAL DIGITIZER FOR LOAD CELLS

page **22**

LOAD CELLS

- CAPACITY
- PLATFORM

PROTECTION RATING

- COMBINED ERROR
- RATED OUTPUT

OIML R60



ON REQUEST

OIML R60

SINGLE-POINT

▼ AISI 420 stainless steel



AF	<ul style="list-style-type: none"> • 5, 15, 50 kg • 150 x 150 mm 	IP65	<ul style="list-style-type: none"> • $\leq \pm 0.05\%$ • 3 mV/V $\pm 10\%$ 	-	-
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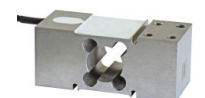
PRC	<ul style="list-style-type: none"> • 6, 15, 30, 50 kg • 350 x 350 mm 	IP67	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ • 2 mV/V $\pm 10\%$ 	-	-
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AZS	<ul style="list-style-type: none"> • 10, 30, 50, 100, 200 kg • 400 x 400 mm 	IP67	<ul style="list-style-type: none"> • $\leq \pm 0.03\%$ • 2 mV/V $\pm 10\%$ 	-	-
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PTC	<ul style="list-style-type: none"> • 30, 50, 75, 100, 150 kg • 400 x 400 mm 	IP67	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ • 2 mV/V $\pm 10\%$ 	-	-
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PEC	<ul style="list-style-type: none"> • 75, 150, 300, 500 kg • 600 x 600 mm 	IP67	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ • 2 mV/V $\pm 10\%$ 	-	-
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▼ 17-4 PH stainless steel



AZLI	<ul style="list-style-type: none"> • 10, 20, 50 kg • 400 x 400 mm 	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ (0.017% C4) • 2 mV/V $\pm 10\%$ 	C3	C4: 10÷50 kg
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	<ul style="list-style-type: none"> • 100, 200, 300, 500 kg • 800 x 800 mm 				
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▼ Aluminum alloy



AS	<ul style="list-style-type: none"> • 0.25, 0.5, 1 kg • 200 x 200 mm 	IP65	<ul style="list-style-type: none"> • $\leq \pm 0.03\%$ • 1 mV/V $\pm 15\%$ 	-	-
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ALL	<ul style="list-style-type: none"> • 3, 5, 10, 15, 20, 30, 50 kg • 250 x 350 mm 	IP65	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ (0.017% C4; 0.014% C5) • 2 mV/V $\pm 10\%$ 	C3	C4 C5
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AU	<ul style="list-style-type: none"> • 3, 6, 15 kg 30, 50 kg • 250 x 400 mm 400 x 600 mm 	IP65	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ • 2 mV/V $\pm 10\%$ 	-	-
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AZL	<ul style="list-style-type: none"> • 10, 15, 20, 30, 50, 100 kg • 400 x 400 mm 	IP65	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ (0.017% C4) • 2 mV/V $\pm 10\%$ 	C3	C4: 15÷50 kg
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AM	<ul style="list-style-type: none"> • 60, 100, 150, 200, 300 kg • 400 x 400 mm 	IP65	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ (0.017% C4; 0.014% C5) • 2 mV/V $\pm 10\%$ 	C3	C4 C5: 300 kg
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APL	<ul style="list-style-type: none"> • 50, 100, 150, 200, 300, 500 kg • 600 x 600 mm 	IP65	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ (0.017% C4) • 2 mV/V $\pm 10\%$ 	C3	C4: 150÷500 kg
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AR	<ul style="list-style-type: none"> • 500, 1000 kg • 800 x 800 mm 	IP65	<ul style="list-style-type: none"> • $\leq \pm 0.05\%$ • 2 mV/V $\pm 10\%$ 	-	-
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ATL	<ul style="list-style-type: none"> • 1000, 2000 kg • 1200 x 1200 mm 	IP65	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ • 2 mV/V $\pm 10\%$ 	C3	-
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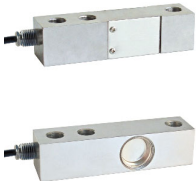









CE UK CA EAC

ON REQUEST



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•	20÷500 kg	•	•	•	-	-	•	-
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LOAD CELLS

CAPACITY		PROTECTION RATING	COMBINED ERROR RATED OUTPUT	OIML R60	ON REQUEST OIML R60	
BENDING BEAM						
▼ AISI 420 stainless steel						
	FCAX	B ▶ 30, 50, 75, 150, 300, 500 kg S ▶ 750, 1000, 1500 kg	IP68	• ≤ ±0.02% • 2 mV/V ±0.4%	-	-
	FCAL	B ▶ 50, 75, 150, 300 kg	IP68	• ≤ ±0.017% • 2 mV/V ±0.1%	C3	-
	FTP	B ▶ 75, 150, 300 kg	IP67	• ≤ ±0.02% • 2 mV/V ±0.1%	C3: 75÷2000 kg	-
		S ▶ 500, 750, 1000, 1500, 2000, 3000, 5000, 10000 kg	IP68			
▼ 17-4 PH stainless steel						
	FCK	B ▶ 5, 10 kg	IP68	• ≤ ±0.02% • 2 mV/V ±1%	-	-
	FCOL	B ▶ 20, 50, 100, 200, 350, 500 kg	IP68	• ≤ ±0.02% (0.017% C4) • 2 mV/V ±1%	C3	C4
	FT-P	S ▶ 300, 500, 1000, 2000 kg	IP68	• ≤ ±0.02% • 2 mV/V ±0.4%	C3	-
	FTZ	S ▶ 500, 1000, 2000, 5000 kg	IP67	• ≤ ±0.02% • 3 mV/V ±0.27%	C3	-
	FTZA	S ▶ 500, 1000, 2000, 5000, 7500, 10000 kg	IP68	• ≤ ±0.02% (0.017% C4) • 2 mV/V ±0.2%	C3	C4: 500÷2000 kg
	FTP DOP 2 output cables for dual safety systems			• ≤ ±0.03% • 2 mV/V ±0.1%	-	-
		S ▶ 1000, 6000 kg	IP67 IP68			
▼ AISI 4340 nickel plated steel						
	FTK	B ▶ 75, 150, 300 kg	IP67	• ≤ ±0.02% • 2 mV/V ±0.1%	C3: 1000÷5000 kg	-
		S ▶ 500, 1000, 2000, 3000, 5000 kg	IP68			
	FTKL	S ▶ 500, 1000, 1500, 2000, 3000, 5000 kg	IP67	• ≤ ±0.02% (0.017% C4; 0.014% C5) • 3 mV/V ±0.1%	C3	C4 C5
▼ Special steel						
	FTH Suitable for on-board vehicle weighing			• ≤ ±0.1% • 1 mV/V ±0.5%	-	-
		S ▶ 5000, 10000 kg	IP68			

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EAC Ex

ON REQUEST



IP69K



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•	50 ÷ 500 kg	•	•	•	-	-	-	-
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CAPACITY

PROTECTION RATING

• COMBINED ERROR
• RATED OUTPUT

OIML R60



ON REQUEST

OIML R60

DOUBLE SHEAR BEAM

▼ AISI 4340 nickel plated steel



DTL	25000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ • 2 mV/V $\pm 0.1\%$ 	C3	-
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DTX	20 klb / 9 ton 30 klb / 13.6 ton 40 klb / 18 ton 50 klb / 23 ton 60 klb / 27 ton	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ • 3 mV/V $\pm 0.267\%$ 	C3	-
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COLUMN DIGITAL

▼ AISI 4340 nickel-plated steel body and AISI 304 stainless steel shell



Two-connector digital output					
COD	25000, 50000 kg	IP69K	<ul style="list-style-type: none"> • $\leq \pm 0.014\%$ • - 	C5	-

COLUMN

▼ 17-4 PH stainless steel



CO	25000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.017\%$ • 2 mV/V $\pm 1\%$ 	C4	-
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COL	30000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.017\%$ • 2 mV/V $\pm 0.1\%$ 	C4	-
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▼ AISI 4340 nickel plated steel



COK-AR 25000 kg anti-rat cable					
COK	15000, 25000, 50000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ • 2 mV/V $\pm 0.1\%$ 	C3	-

COMPRESSION FOR FOOT

▼ 17-4 PH stainless steel



Hygienic device RPSCQC authorized by 3-A SSI					
FLC 3A	1000 kg M12 2000 kg M12 5000 kg M16 - M20 10000 kg M24 - M30 20000 kg M36	IP69K	<ul style="list-style-type: none"> • $\leq \pm 0.1\%$ • 2 mV/V $\pm 0.1\%$ 	-	-

CE UK CA EAC

ON REQUEST




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• no EAC	-	-	-	-	-	•	•	-
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• no EAC	-	-	-	-	-	-	-	•
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CAPACITY	PROTECTION RATING	• COMBINED ERROR • RATED OUTPUT	OIML R60	ON REQUEST
				OIML R60

COMPRESSION-LOW PROFILE

▼ AISI 420 stainless steel



CLS	1000, 2000, 5000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.03\%$ • 2 mV/V $\pm 0.4\%$ 	-	-
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▼ 17-4 PH stainless steel



CK	200, 500, 1000, 2500 kg	IP67	<ul style="list-style-type: none"> • $\leq \pm 0.5\%$ • 1 mV/V $\pm 15\%$ 	-	-
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CBL	250, 500, 1000, 2500, 5000, 7500, 10000, 12500, 15000, 30000, 50000, 100000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.03\%$ (0.02% C3) • 2 mV/V $\pm 0.1\%$ 	C2: 2500 ÷ 10000 kg C3: 12500 kg	C3: 2500 ÷ 10000 kg
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CBX	15000, 30000, 50000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.035\%$ • 2 mV/V $\pm 0.1\%$ 	-	-
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CBLs	200000, 300000, 500000, 750000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.10\%$ • 2 mV/V $\pm 0.1\%$ 	-	-
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COMPRESSION / TENSION

▼ 17-4 PH stainless steel



CLBT	(50, 100)*, 500 kg *Aluminum alloy	IP65	<ul style="list-style-type: none"> • $\leq \pm 0.05\%$ • 2 mV/V $\pm 10\%$ 	-	-
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CL	500, 1000, 2000, 5000, 10000, 20000, 30000, 60000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.05\%$ • 2 mV/V $\pm 0.3\%$ 	-	-
	100000, 150000, 200000 kg	IP67			

TENSION (COMPRESSION)

▼ AISI 420 stainless steel



CTOL	Suitable as load limiter for lifting equipment		<ul style="list-style-type: none"> • $\leq \pm 0.03\%$ • 2 mV/V $\pm 0.4\%$ 	-	-
	50, 100, 200, 300 kg	IP67			
	500, 1000, 2500, 5000 kg				



▼ 17-4 PH stainless steel



CTL	100, 200, 300, 500, 1000, 2500, 5000, 7500, 10000, 12500 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ • 2 mV/V $\pm 0.1\%$ 	C3: 500 ÷ 12500 kg	-
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CE UK CA EAC

ON REQUEST



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•	-	•	•	-	500 ÷ 12500 kg	•	•	-
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CAPACITY	PROTECTION RATING	COMBINED ERROR RATED OUTPUT	OIML R60	ON REQUEST OIML R60
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TENSION (COMPRESSION)

▼ AISI 4340 nickel plated steel (4140)*



SA*	15, 30, 60 kg	IP65	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ • 2 mV/V $\pm 10\%$ 	C3	-
SL	25, 100, 200, 300, 500, 1000, 2500 kg	IP67	<ul style="list-style-type: none"> • $\leq \pm 0.02\%$ (0.017% C4) • 2 mV/V $\pm 0.2\%$ 	C3: 100 ÷ 2500 kg	C4: 100 ÷ 2500 kg

TENSION

▼ 17-4 PH stainless steel



Suitable as load limiter for lifting equipment				
TAL	5000, 10000, 20000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.03\%$ • 2 mV/V $\pm 0.1\%$ 	-
TBT	30000, 40000, 50000, 60000, 100000, 250000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.08\%$ • 1 mV/V $\pm 0.1\%$ 	-

PIN

▼ 17-4 PH stainless steel



Suitable as load limiter for lifting equipment				
LAU	5000, 10000, 20000 kg	IP67	<ul style="list-style-type: none"> • $\leq \pm 0.1\%$ • 1 mV/V $\pm 0.1\%$ 	-

FOR FOOT BRAKE

▼ Aluminum



LPED	100 kg	IP65	<ul style="list-style-type: none"> • $\leq \pm 0.08\%$ • 1 mV/V $\pm 0.2\%$ 	-
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ANCHOR

▼ 17-4 PH stainless steel



CA	30000, 50000, 75000, 100000, 125000, 150000, 180000, 250000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.1\%$ • 2 mV/V $\pm 0.1\%$ 	-
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FOR WIRE ROPE MEASURING

▼ AISI 4140 nickel plated steel



Suitable as load limiter for lifting equipment				
FUN	2000 kg $\varnothing 6 \div \varnothing 14$ mm 4000 kg $\varnothing 10 \div \varnothing 18$ mm 10000 kg $\varnothing 16 \div \varnothing 26$ mm 20000 kg $\varnothing 24 \div \varnothing 36$ mm 40000 kg $\varnothing 24 \div \varnothing 36$ mm	IP67	<ul style="list-style-type: none"> • $\pm 2\%$ ** • 3 mV/V $\pm 0.1\%$ 	-

***) Load limiting accuracy on full scale

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EAC Ex

ON REQUEST



IP69K



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•	100, 500, 1000, 2500 kg	•	•	•	-	-	-	-











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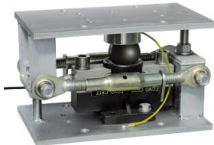
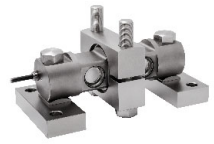



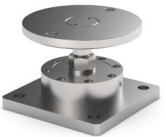


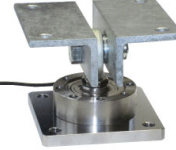




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MODEL	MAX STATIC LOAD	DESCRIPTION	FOR LOAD CELLS	
for SINGLE-POINT load cells				
	T8AZL	200 kg	Mounting kit provided with adjustable upper plate in galvanized steel; lower plate and block in galvanized steel; constraint against lateral forces and anti-tilt by galvanized steel self-centering joint foot; adjustable height.	AZLI (max 50 kg), AZL, AZS
	T8AM	300 kg		AM
for BENDING / SHEAR BEAM load cells				
	TFCPV	200 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel or galvanized steel; lower plate and block in AISI 304 stainless steel; constraint against lateral forces and anti-tilt by stainless steel or galvanized steel self-centering joint foot; partial height adjustment.	B ▶ FCK, FCOL
	TFCPV10 TFCPVZ10	300 kg		B ▶ FCOL 350 ÷ 500 kg
	TFCGP	300 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.	B ▶ FCK, FCOL
	TFCFSB	300 kg	Mounting kit provided with compression joint in AISI 304 stainless steel and rubber; lower plate and block in AISI 304 stainless steel.	B ▶ FCK, FCOL
	TFFSB	500 kg	Mounting kit provided with compression joint in AISI 304 stainless steel and rubber; lower plate and block in AISI 304 stainless steel.	B ▶ FCAL B ▶ FCAX 30 ÷ 500 kg
	TFAST	500 kg	Mounting kit provided with aluminum alloy tension ball joint. AISI 304 stainless steel lower plate.	B ▶ FCAL B ▶ FCAX 30 ÷ 500 kg
	TFPVEN1090	500 kg	 Mounting kit provided with constraint against lateral forces and anti-tilt by AISI 304 stainless steel self-centering joint foot; lower plate and block in AISI 304 stainless steel; partial height adjustment.	B ▶ FCAL
	TFPV2000EN1090	1500 kg		B ▶ FCAX 30 ÷ 500 kg S ▶ FCAX 750 ÷ 1500 kg
	TFPV	500 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel or galvanized steel; lower plate and block in AISI 304 stainless steel; constraint against lateral forces and anti-tilt by stainless steel or galvanized steel self-centering joint foot; partial height adjustment.	B ▶ FCAL
	TFPVZ	500 kg		B ▶ FCAX 30 ÷ 500 kg
	TFPV2000	1500 kg	S ▶ FCAX 750 ÷ 1500 kg	
	TFGP	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.	B ▶ FCAL
	TFGP2000	1500 kg		B ▶ FCAX 30 ÷ 500 kg S ▶ FCAX 750 ÷ 1500 kg

MODEL	MAX STATIC LOAD	DESCRIPTION	FOR LOAD CELLS	
for BENDING / SHEAR BEAM load cells				
	T12FCAGP	1500 kg	Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber; lower plate and block in galvanized steel.	<ul style="list-style-type: none"> B ▶ FCAL B ▶ FCAX 30 ÷ 500 kg S ▶ FCAX 750 ÷ 1500 kg
	T12FTAGP	2000 kg	Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber; lower plate and block in galvanized steel.	<ul style="list-style-type: none"> S ▶ FTKL, FT-P, FTZ B ▶ FTK 75 ÷ 300 kg S ▶ FTK 500 ÷ 2000 kg B ▶ FTP 75 ÷ 300 kg S ▶ FTP 500 ÷ 2000 kg
	TF500	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 or in galvanized steel.	<ul style="list-style-type: none"> S ▶ FTKL, FT-P, FTZ B ▶ FTK 75 ÷ 300 kg S ▶ FTK 500 ÷ 2000 kg B ▶ FTP 75 ÷ 300 kg S ▶ FTP 500 ÷ 2000 kg
	TF2000 TF2000Z	2000 kg		
	PVEN1090	2000 kg	 Mounting kit provided with constraint against lateral forces and anti-tilt by AISI 304 stainless steel self-centering joint foot; lower plate and block in AISI 304 stainless steel; adjustable height.	<ul style="list-style-type: none"> S ▶ FTKL, FT-P, FTZ B ▶ FTK 75 ÷ 300 kg S ▶ FTK 500 ÷ 2000 kg B ▶ FTP 75 ÷ 300 kg S ▶ FTP 500 ÷ 2000 kg
	PV PVZ	2000 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel or galvanized steel; lower plate and block in AISI 304 stainless steel or galvanized steel; constraint against lateral forces and anti-tilt by stainless steel or galvanized steel self-centering joint foot; adjustable height.	<ul style="list-style-type: none"> S ▶ FTKL, FT-P, FTZ B ▶ FTK 75 ÷ 300 kg S ▶ FTK 500 ÷ 2000 kg B ▶ FTP 75 ÷ 300 kg S ▶ FTP 500 ÷ 2000 kg
	TFPS2000 TFPS2000INOX	2000 kg	Mounting kit provided with AISI 304 stainless steel upper plate; lower plate and block in stainless steel or in galvanized steel; constraint against lateral forces and anti-tilt by means of ball-and socket joint; adjustable height.	<ul style="list-style-type: none"> S ▶ FTKL, FT-P, FTZ B ▶ FTK 75 ÷ 300 kg S ▶ FTK 500 ÷ 2000 kg B ▶ FTP 75 ÷ 300 kg S ▶ FTP 500 ÷ 2000 kg
	PV80EN1090	5000 kg	 Mounting kit provided with constraint against lateral forces and anti-tilt by AISI 304 stainless steel self-centering joint foot; lower plate and block in AISI 304 stainless steel; adjustable height.	<ul style="list-style-type: none"> S ▶ FTP 3000 ÷ 5000 kg S ▶ FTZ 5000 kg
	PV80 PV60Z	5000 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel or galvanized steel; lower plate and block in AISI 304 stainless steel or galvanized steel; constraint against lateral forces and anti-tilt by stainless steel or galvanized steel self-centering joint foot; adjustable height.	<ul style="list-style-type: none"> S ▶ FTP 3000 ÷ 5000 kg S ▶ FTZ 5000 kg S ▶ FTK 3000 ÷ 5000 kg
	PS PS10T	5000 kg 10000 kg	Galvanized steel mounting kit provided with constraint against lateral forces and anti-tilt by ball-and-socket joint; adjustable height.	<ul style="list-style-type: none"> S ▶ FTP 3000 ÷ 5000 kg S ▶ FTK 3000 ÷ 5000 kg S ▶ FTZ 5000 kg S ▶ FTP 10000 kg


MOUNTING KITS

MODEL	MAX STATIC LOAD	DESCRIPTION	FOR LOAD CELLS
for DOUBLE SHEAR BEAM load cells			
 VCOKDTL	50000 kg	Mounting kit provided with two integrated galvanized steel stay rods with dual ball-and-socket joints suitable to counter the lateral force; anti-tilt constraint consisting of two threaded rods with self-locking nut.	DTL, COL, COK
 VDTX	60 klb / 27 ton	Nickel-plated steel alloy mounting kit for rigid attachment of the load cell. It prevents horizontal movement.	DTX 30 klb ÷ 60 klb
for COMPRESSION-LOW PROFILE load cells			
 PVCLSEN1090	2000 kg	 Mounting kit provided with constraint against lateral forces and anti-tilt by AISI 304 stainless steel self-centering joint foot; adjustable height.	CLS 1000 kg, 2000 kg
 PVCLS	2000 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel; constraint against lateral forces and anti-tilt by stainless steel self-centering joint foot; adjustable height.	CLS 1000 kg, 2000 kg
 PV80CLSEN1090	5000 kg	 Mounting kit provided with constraint against lateral forces and anti-tilt by AISI 304 stainless steel self-centering joint foot; adjustable height.	CLS 5000 kg
 PV80CLS	5000 kg	Mounting kit provided with adjustable upper plate in AISI 304 stainless steel; constraint against lateral forces and anti-tilt by stainless steel self-centering joint foot; adjustable height.	CLS 5000 kg
 PSCLS2000	2000 kg	Hot-dip galvanized steel mounting kit provided with constraint against lateral forces and anti-tilt by ball-and-socket joint; adjustable height	CLS 1000 kg, 2000 kg
PSCLS	5000 kg		CLS 5000 kg
 Z10000	15000 kg	Mounting kit provided with upper and lower plates in galvanized S355JR construction steel; AISI 304 stainless steel laminas against lateral forces; anti-tilt constraint consisting of two threaded rods with self-locking nut.	CBL 250 ÷ 12500 kg CBX 15000 kg
 V10000 V12750 V10000EN1090 V12750EN1090	15000 kg	 AISI 304 stainless steel mounting kit provided with laminas against lateral forces; anti-tilt constraint consisting of two threaded rods with self-locking nut.	CBL 250 ÷ 12500 kg CBX 15000 kg
 Z15000 Z30000 Z100000	30000 kg 50000 kg 100000 kg	Mounting kit provided with upper and lower plates in galvanized S355JR construction steel; AISI 304 stainless steel laminas against lateral forces; anti-tilt constraint consisting of two threaded rods with self-locking nut.	CBL 15000 kg, CBX 30000 kg CBL 30000 kg, CBX 50000 kg CBL 50000 ÷ 100000 kg

MODEL	MAX STATIC LOAD	DESCRIPTION	FOR LOAD CELLS
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for COMPRESSION-LOW PROFILE load cells



V15000 V30000 V100000 V15000EN1090 V30000EN1090 V100000EN1090	30000 kg 50000 kg 100000 kg 30000 kg 50000 kg 100000 kg	- 	AISI 304 stainless steel mounting kit provided with laminas against lateral forces; anti-tilt constraint consisting of two threaded rods with self-locking nut. CBL 15000 kg , CBX* 30000 kg CBL 30000 kg, CBX* 50000 kg CBL 50000 ÷ 100000 kg <i>*with adapter (page 20)</i>
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P10000 + BASESUP	15000 kg	Lower plate and turned upper base in AISI 304 stainless steel	CBL 250 ÷ 12500 kg CBX 15000 kg
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BASEINF + BASESUP	15000 kg	Turned upper and lower bases in AISI 304 stainless steel.	CBL 250 ÷ 12500 kg CBX 15000 kg
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PIASTRA200 + BASEINF	15000 kg	Lower plate and turned lower base in AISI 304 stainless steel.	CBL 250 ÷ 12500 kg CBX 15000 kg
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for COLUMN load cells



KITCO	25000 kg	Stainless steel mounting kit composed by anti-rotation system with O-ring and 2 bases (upper and lower).	CO
PIACO		Kit composed by 2 AISI 5140 nickel plated steel plates (upper and lower) for KITCO bases.	



KITCOL	30000 kg	Mounting kit composed by anti-rotation system, protective rubber seal, 2 bases (upper and lower) and 3 self-centering cylindrical plates.	COL
KITCOK	50000 kg	KITCOK: AISI 5140 nickel plated steel KITCOL: hardened AISI 420 stainless steel	COK COK-AR

COMPLEMENTARY ACCESSORIES

MODEL	DESCRIPTION	FOR LOAD CELLS
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Horizontal constraints for mounting kits



TENDITORE300	Galvanized steel turnbuckle with dual ball-and-socket. Working load: 2500 kg Ultimate overload: 10000 kg	-
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PTEND	Galvanized steel anchor plate for TENDITORE300	-
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Self-centering joint feet



PIEDINO SB2-PXC	M8	max 500 kg	stainless steel	FCAL, FCAX, FCOL, FTK, FTKL, FTP, FT-P, FTZ
	M10	max 500 kg		
	M12	max 2000 kg		
	M20	max 5000 kg	galvanized steel	
	M12	max 2000 kg		
	M20	max 5000 kg		

Ball-mounted self-centering pluggable feet



PIEDINO STR	M12	max 2500 kg	stainless steel	FCAL, FCAX, FTK, FTKL, FTP, FT-P, FTZ CLS 1000 kg, 2000 kg, FLC
	M20	max 5000 kg		FTP, FTZ, CLS 5000 kg, FLC
	M24	max 10000 kg		FLC

Self-centering adjustable hygienic feet



PIEDINO HD	M12	max 2000 kg	stainless steel	FLC 3A 1000, 2000 kg
	M16	max 5000 kg		FLC 3A 5000 kg
	M20	max 5000 kg		FLC 3A 5000 kg
	M24	max 10000 kg		FLC 3A 10000 kg
	M30	max 10000 kg		FLC 3A 10000 kg
	M36	max 20000 kg		FLC 3A 20000 kg

Adjustable upper plate



PPV PPVZ PPV80 PPV60Z	Plates for constraint against lateral forces and anti-tilt. For self-centering joint foot.			
		max 2000 kg	stainless steel AISI 304	FTK, FTKL, FTP, FT-P, FTZ
		max 2000 kg	galvanized steel	FTK, FTKL, FTP, FT-P, FTZ
		max 5000 kg	stainless steel AISI 304	FTK, FTP, FTZ
	max 5000 kg	galvanized steel	FTK, FTP, FTZ	

Accessory with ball



ACCSFER	M12	max 2000 kg	stainless steel	FTKL, FTP, FT-P, FTK, FTZ, CLS
	M20	max 5000 kg		FTK, FTKL, FTP 3000÷5000 kg, FTZ 5000 kg, CLS 5000 kg

Compression joint



ANTIV	Stainless steel and rubber compression joints to compensate for any misalignments of the support plates.			
	M8	max 500 kg		FCOL, FCK
	M12	max 2000 kg		FTKL, FCAL, FCAX, FTP, FT-P, FTK, FTZ, CLS

Stainless steel and rubber waterproof kit



IP68AM	-			AM
IP68APL	-			APL

MODEL	DESCRIPTION	FOR LOAD CELLS
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Ball-and-socket joint



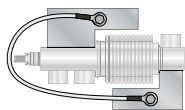
EM-INOX	M12	stainless steel	SL, CTOL, CTL
	M16		CTOL, CTL
	M20		SL, CTOL, CTL
	M24		CTOL, CTL
EM	M6	galvanized C45 steel	SA
	M8		SL
	M10		SL
	M12		SL, CTOL, CTL
	M16		CTOL, CTL
	M20		SL, CTOL, CTL
	M24		CTOL, CTL
	M30		CTL
	M36		CTL

Axial spherical plain bearings to compensate for misalignment of the support plates



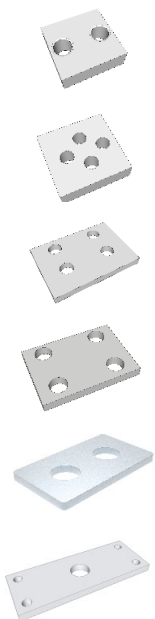
SNODOGE12	Hardened 100Cr6 steel steel bearing. Maximum static load: 2000 kg	CLS, FTK, FTKL, FTP, FT-P, FTZ
SNODOGE20	Kit composed by bearing, galvanized bolt and washer. Maximum static load: 5000 kg	CLS 5000 kg, FTK 3000÷5000 kg, FTKL, FTZ 5000 kg, FTP 3000÷5000 kg
SNODOGE25	Kit composed by bearing, galvanized bolt and washer. Maximum static load: 10000 kg	FTP 10000 kg

Pair of stainless steel tension brackets





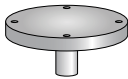
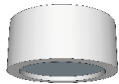

STAFFEALL	Maximum static load: 50 kg	ALL
STAFFEFC	Maximum static load: 100 kg	FCK, FCOL
STAFFEFCA	Maximum static load: 300 kg	FCAX, FCAL

Blocks

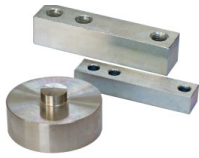
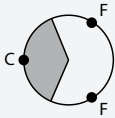
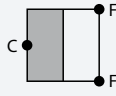
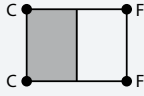


BLOCPRC	Stainless steel drawn block	AZL, AZLI, AZS, PRC
BLOCT8Z	Galvanized steel drawn block	AM
BLOCAPL	Stainless steel drawn block	APL, AZLI
BLOCPEC	Stainless steel drawn block	PEC
PIASTRINO	Special steel block for capacities up to 2000 kg.	FTK, FTKL
PIATTODTL	Galvanized steel plate	DTL

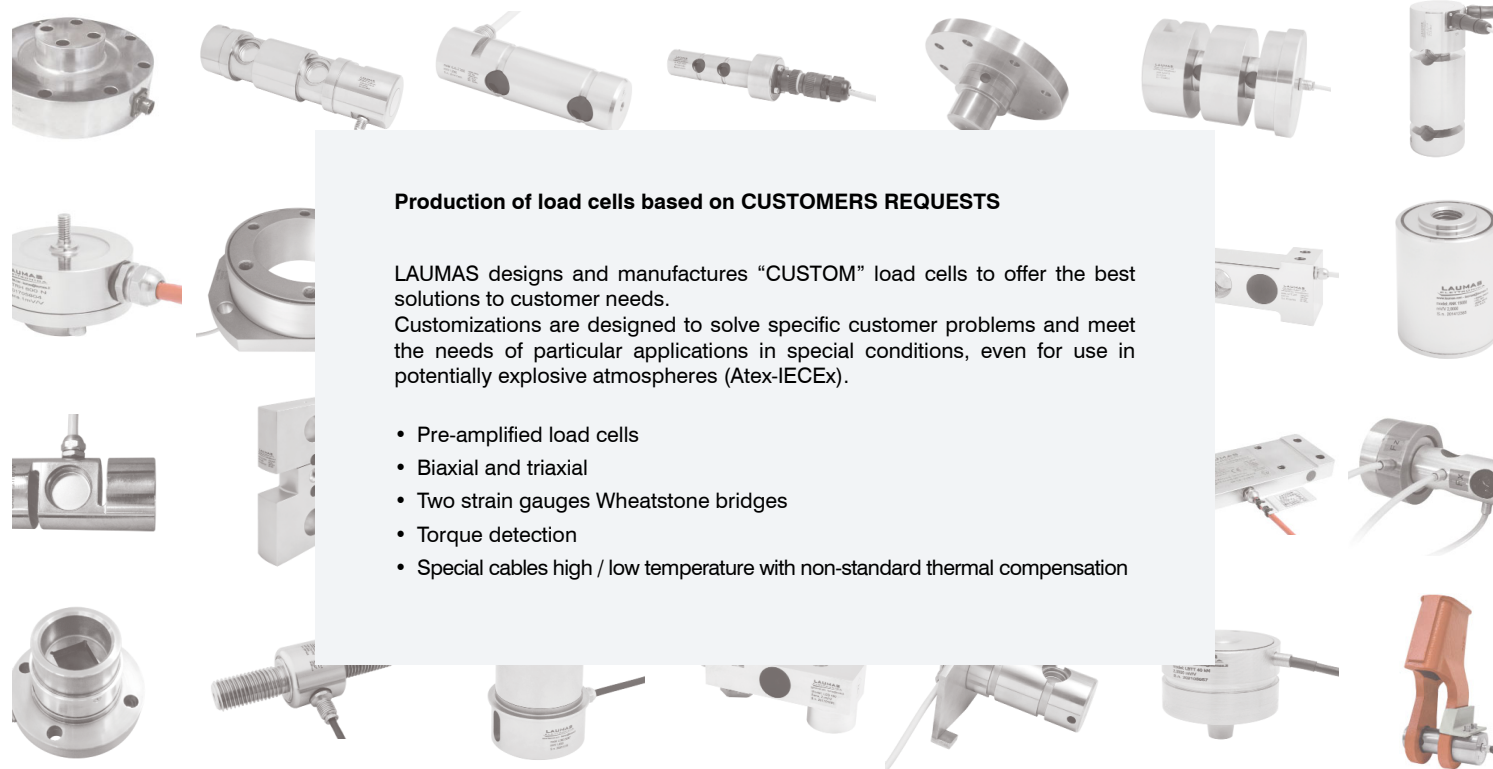
COMPLEMENTARY ACCESSORIES

MODEL	DESCRIPTION	FOR LOAD CELLS
Bases and adapters for compression load cells		
	BASESUPFIL M12 threaded upper base in AISI 304 stainless steel	CBL, CBX
	BINF100 BINF126 BINF165 Lower base turned in AISI 304 stainless steel	CBL 15000 kg CBX 30000 kg CBL 30000 kg CBX 50000 kg CBL 50000÷100000 kg
	BINFCLBT M8 lower base for tension operation	CLBT
	BOTTONE200 BOTTONE BOTTONE750 Upper loading base	CBLS 200000 kg CBLS 300000 kg CBLS 500000÷750000 kg
	ADAT100 ADAT126 ADAT165 AISI 304 stainless steel adapter for mounting kit: V15000 - V15000EN109 - Z15000 V30000 - V30000EN1090 - Z30000 V100000 - V100000EN1090 - Z100000	CBX 15000 kg CBX 30000 kg CBX 50000 kg
	PIAS Upper and lower plates in galvanized steel for load distribution	CA

Level measurements ML - false cells

EQUIVALENT TO LOAD CELLS	MATERIAL	DESCRIPTION
 CBL (250÷100000 kg) CBX (15000÷50000 kg)	stainless steel	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. They do not transmit any electrical signals. They can be mounted on the same mounting kits as the load cells.
FCK (5,10 kg) FCOL (20÷200 kg) FCAL (30÷300 kg) FCAX (30÷1500 kg) FTP (75÷5000 kg) FTK (75÷5000 kg) FT-P (300÷2000 kg) FTKL (500÷5000 kg) FTZ (500÷5000 kg)	galvanized steel	<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>mV signal x 3 mV signal x 2 mV signal x 2</p> <p>C = SUPPORT FOOT WITH LOAD CELL F = SUPPORT FOOT WITH FALSE CELL</p>

CUSTOM LOAD CELLS

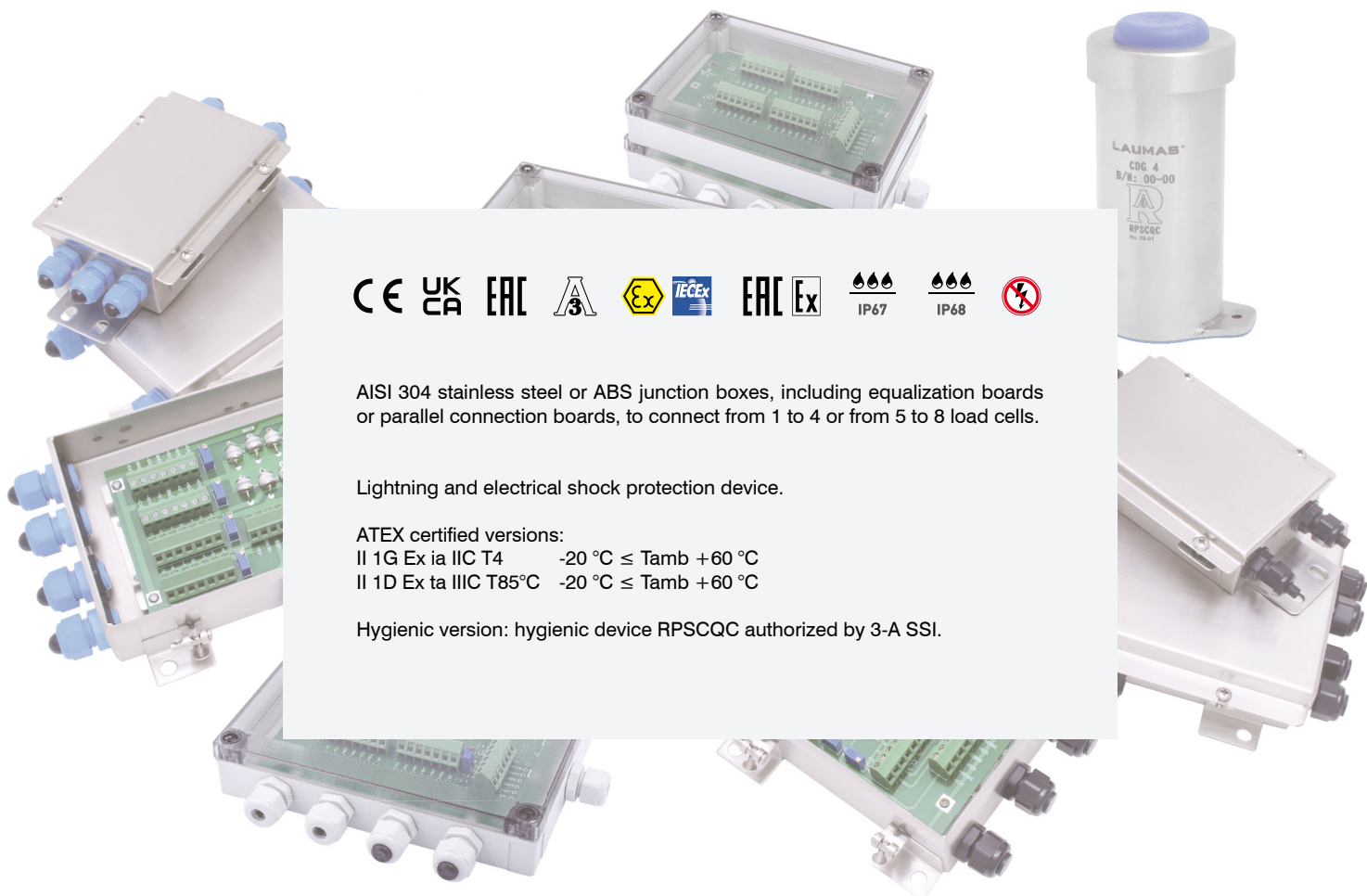


Production of load cells based on CUSTOMERS REQUESTS

LAUMAS designs and manufactures "CUSTOM" load cells to offer the best solutions to customer needs. Customizations are designed to solve specific customer problems and meet the needs of particular applications in special conditions, even for use in potentially explosive atmospheres (Atex-IECEX).

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

JUNCTION BOXES



AISI 304 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.

Lightning and electrical shock protection device.

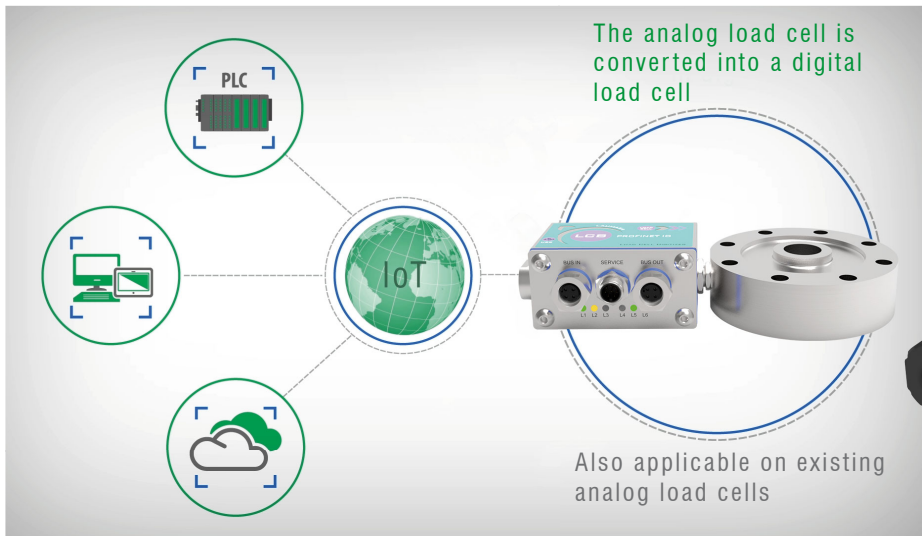
ATEX certified versions:

II 1G Ex ia IIC T4 -20 °C ≤ Tamb +60 °C
 II 1D Ex ta IIIC T85°C -20 °C ≤ Tamb +60 °C

Hygienic version: hygienic device RPSCQC authorized by 3-A SSI.

LCB – UNIVERSAL DIGITIZER FOR LOAD CELLS

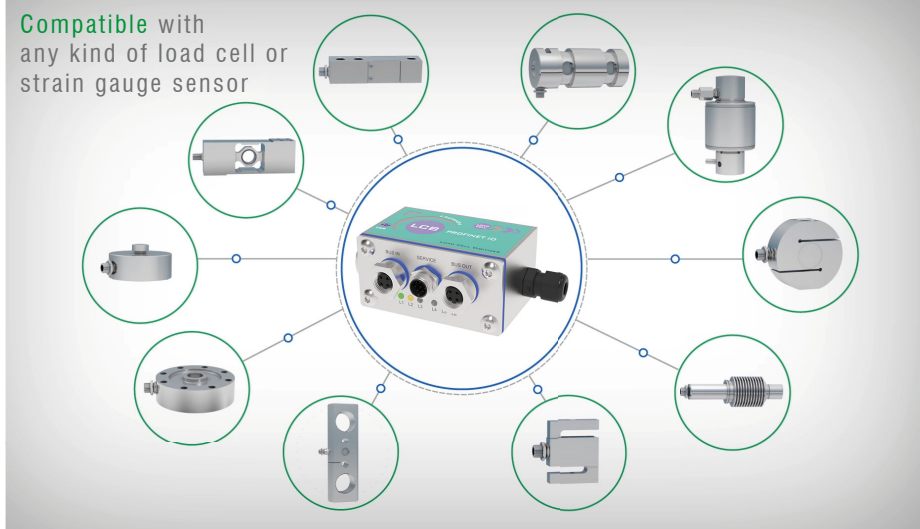
CE UK CA EAC IP67



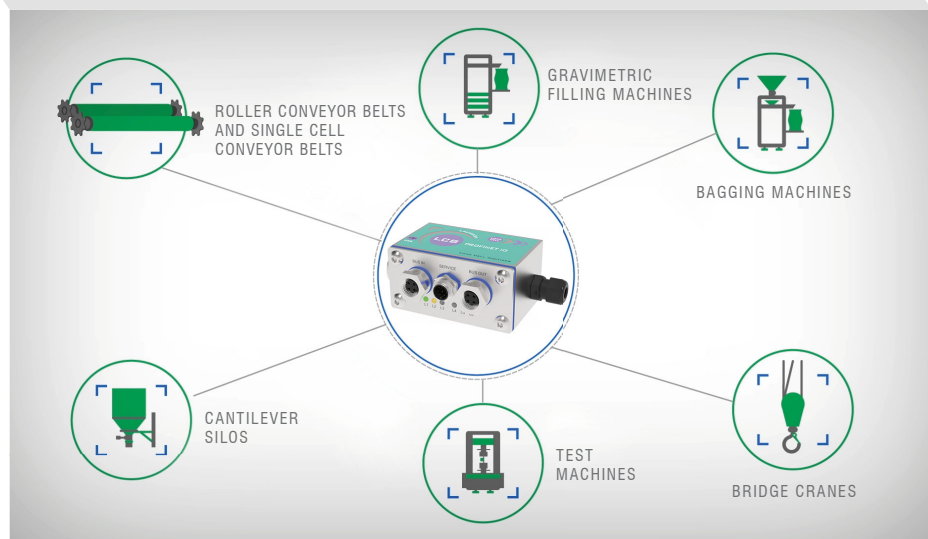
AINSI 304 STAINLESS STEEL VERSION - IP67



Compatible with any kind of load cell or strain gauge sensor



NYLON PA66 VERSION - IP67



HYGIENIC VERSION



MODBUS RTU **MODBUS/TCP** **CANopen** **ETHERNET POWERLINK** **SERCOS interface**
PROFINET **PROFIBUS** **EtherCAT** **EtherNet/IP** **ETHERNET TCP/IP**
CC-Link **CC-Link IE** **IO-Link**

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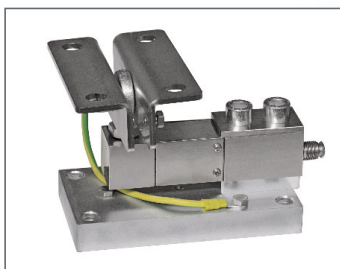
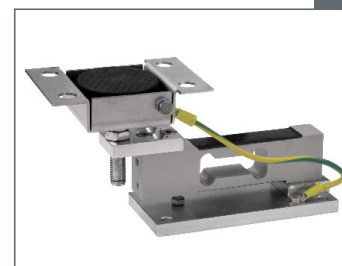
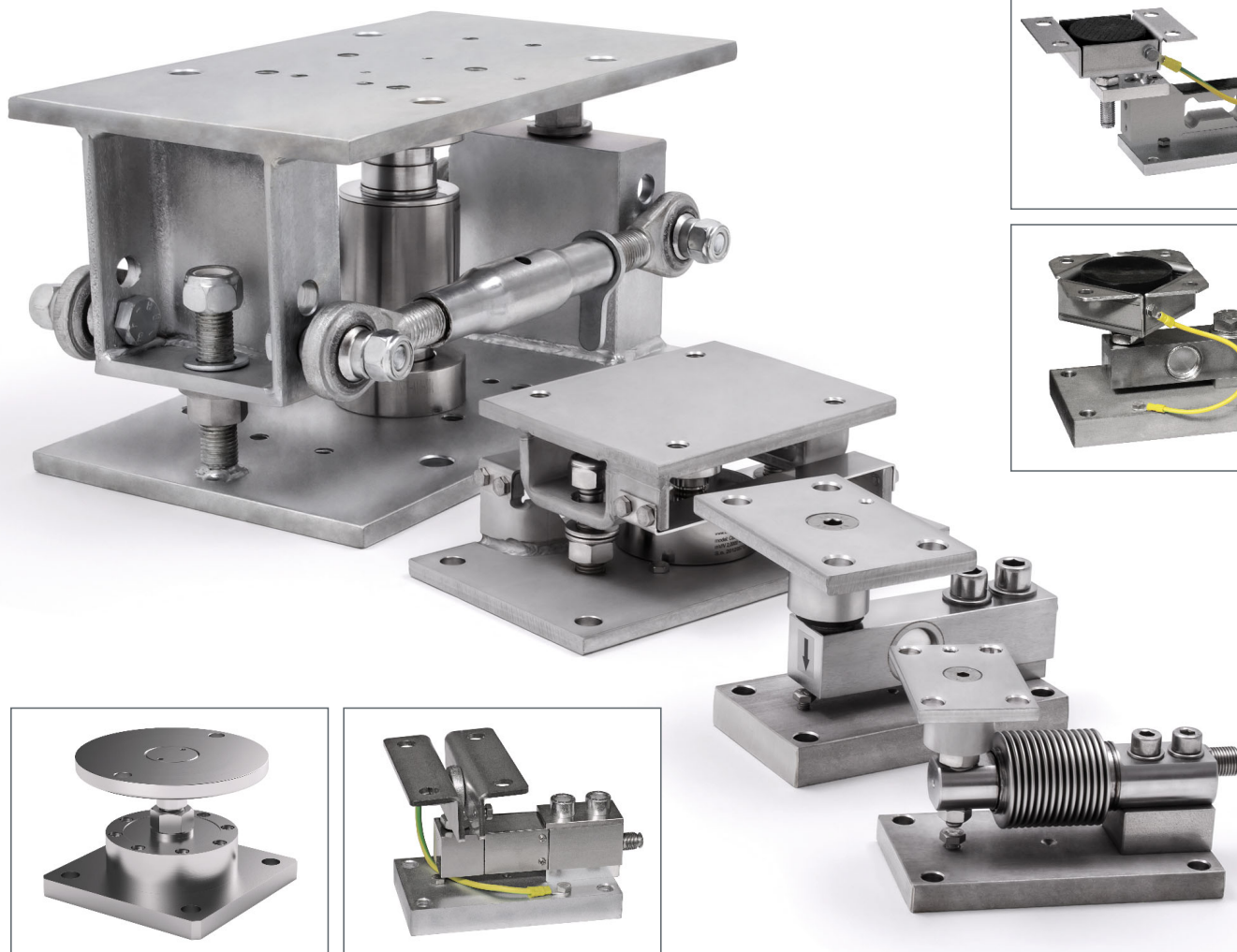
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