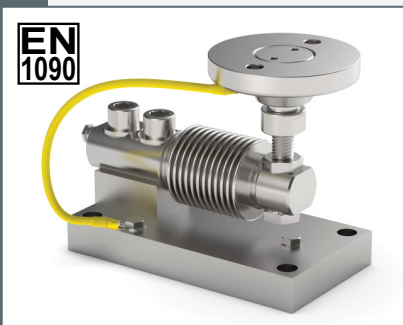


LOAD CELLS AND MOUNTING KITS



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)



Ex NEPSI CERTIFICATION



EN1090



IP69K

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.

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SHEAR BEAM	page	6
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COLUMN DIGITAL	page	8
COLUMN	page	8
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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.

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CUSTOM LOAD CELLS / JUNCTION BOXES

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LCB – UNIVERSAL DIGITIZER FOR LOAD CELLS

page 22

• 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 $\pm 10\%$ 	-	-
	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 $\pm 10\%$ 	-	-
	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 $\pm 10\%$ 	-	-
	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 $\pm 10\%$ 	-	-
	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 $\pm 10\%$ 	-	-

▼ 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
		<ul style="list-style-type: none"> • 100, 200, 300, 500 kg • 800 x 800 mm 				

▼ 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 $\pm 15\%$ 	-	-
	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
	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 $\pm 10\%$ 	-	-
	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
	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
	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
	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 $\pm 10\%$ 	-	-
	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	-

	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			SHEAR BEAM			
▼ AISI 420 stainless steel						
FCAX	B ▶	30, 50, 75, 150, 300, 500 kg	IP68	• ≤ ±0.02% • 2 mV/V ±0.4%	-	-
	S ▶	750, 1000, 1500 kg				
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 ±0.4%	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
FTPDP	2 output cables for dual safety systems				-	-
	S ▶	1000, 6000 kg	IP67 IP68	• ≤ ±0.03% • 2 mV/V ±0.1%		
▼ 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				-	-
	S ▶	5000, 10000 kg	IP68	• ≤ ±0.1% • 1 mV/V ±0.5%		

	ON REQUEST								
									

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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	-
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 $\pm 0.1\%$ 	C3	-

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	-
COL	30000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.017\%$ • 2 mV/V $\pm 0.1\%$ 	C4	-












▼ 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

FLC	75 kg M12 150 kg M12 300 kg M12 500 kg M12 1000 kg M12 2000 kg M12 5000 kg M20 10000 kg M24	IP67	<ul style="list-style-type: none"> • $\leq \pm 0.7\%$ • 2 mV/V $\pm 5\%$ 	-	-
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 $\pm 0.1\%$ 	-	-

  	ON REQUEST								
		 							

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• no EAC	-	-	-	-	-	-	-	-	•

CAPACITY

PROTECTION
RATING

• COMBINED ERROR
• RATED OUTPUT

OIML R60



ON REQUEST

OIML R60

COMPRESSION-LOW PROFILE

▼ AISI 420 stainless steel



CLC	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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CX	1000, 2500, 5000, 7500, 10000, 15000, 30000 kg	IP68	<ul style="list-style-type: none"> • $\leq \pm 0.05\%$ • 2 mV/V $\pm 0.4\%$ 	-	-
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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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CBL5	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
















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

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•	-	•	•	-	•	2500 ÷ 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"> ≤ ±0.02% 2 mV/V ±10% 	C3	-
SL	25, 100, 200, 300, 500, 1000, 2500 kg	IP67	<ul style="list-style-type: none"> ≤ ±0.02% (0.017% C4) 2 mV/V ±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">• ≤ ±0.03%• 2 mV/V ±0.1%	-	-
TBT	30000, 40000, 50000, 60000, 100000, 250000 kg	IP68	<ul style="list-style-type: none">• ≤ ±0.08%• 1 mV/V ±0.1%	-	-

PIN

▼ 17-4 PH stainless steel

LAU	Suitable as load limiter for lifting equipment				
	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"> ≤ ±0.08% 1 mV/V ±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"> ≤ ±0.1% 2 mV/V ±0.1% 	-	-
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FOR WIRE ROPE MEASURING

▼ AISI 4140 nickel plated steel

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

**) Load limiting accuracy on full scale

  	ON REQUEST								
		 							

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

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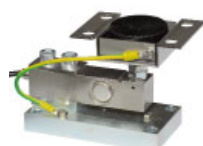
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MODEL	MAX STATIC LOAD	DESCRIPTION	FOR LOAD CELLS
<div></div> for SINGLE-POINT load cells			
T8AZL	200 kg	Mounting kit provided with adjustable upper plate in galvanized steel; lower plate and block in galvanized steel; constraint against lateral forces and anti-tilt by galvanized steel self-centering joint foot; adjustable height.	AZLI (max 50 kg), AZL, AZS
T8AM	300 kg		AM
<div></div> for BENDING / SHEAR BEAM load cells			
TFCPV TFCPVZ	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	<div>EN1090</div> 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 B ► FCAX 30÷500 kg
TFPV2000EN1090	1500 kg		S ► FCAX 750÷1500 kg
TFPV TFPVZ	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 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 B ► FCAX 30÷500 kg
TFGP2000	1500 kg		S ► FCAX 750÷1500 kg



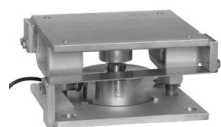
MODEL	MAX STATIC LOAD	DESCRIPTION	FOR LOAD CELLS
for BENDING / SHEAR BEAM load cells			
T12FCAGP	1500 kg	Mounting kit provided with upper plate with a compression joint in AISI 304 stainless steel and rubber; lower plate and block in galvanized steel.	B ▶ FCAL B ▶ FCAX 30 ÷ 500 kg S ▶ FCAX 750 ÷ 1500 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.	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 TF2000 TF2000Z	500 kg 2000 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.	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
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.	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.	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.	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.	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.	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.	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	30000 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
Z30000	50000 kg			CBL 30000 kg, CBX 50000 kg
Z100000	100000 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

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

**with adapter (page 20)*

V15000EN1090
V30000EN1090
V100000EN1090

30000 kg
50000 kg
100000 kg



P10000
+ BASESUP

15000 kg

Lower plate and turned upper base in AISI 304 stainless steel

CBL 250 ÷ 12500 kg
CBX 15000 kg



BASEINF
+ BASESUP

15000 kg

Turned upper and lower bases in AISI 304 stainless steel.

CBL 250 ÷ 12500 kg
CBX 15000 kg



PIASTRA200
+ BASEINF

15000 kg

Lower plate and turned lower base in AISI 304 stainless steel.

CBL 250 ÷ 12500 kg
CBX 15000 kg

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
Horizontal constraints for mounting kits				
TENDITORE300	Galvanized steel turnbuckle with dual ball-and-socket. Working load: 2500 kg Ultimate overload: 10000 kg			-
PTEND	Galvanized steel anchor plate for TENDITORE300			-
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		
	M12	max 2000 kg	galvanized steel	
	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.			FTK, FTKL, FTP, FT-P, FTZ, FLC FTK, FTKL, FTP, FT-P, FTZ FTK, FTP, FTZ, FLC FTK, FTP, FTZ
		max 2000 kg	stainless steel AISI 304	
		max 2000 kg	galvanized steel	
		max 5000 kg	stainless steel AISI 304	
	max 5000 kg	galvanized steel		
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.			FCOL, FCK FTKL, FCAL, FCAX, FTP, FT-P, FTK, FTZ, CLS
	M8	max 500 kg		
	M12	max 2000 kg		
Stainless steel and rubber waterproof kit				
IP68AM	-			AM
IP68APL	-			APL

MODEL	DESCRIPTION	FOR LOAD CELLS
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Ball-and-socket joint



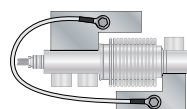
EM-INOX	M12	stainless steel	SL, CTOL, CTL
	M16		CTOL, CTL
	M20		SL, CTOL, CTL
	M24		CTOL, CTL
EM	M6	galvanized C45 steel	SA
	M8		SL
	M10		SL
	M12		SL, CTOL, CTL
	M16		CTOL, CTL
	M20		SL, CTOL, CTL
	M24		CTOL, CTL
	M30		CTL
	M36		CTL

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



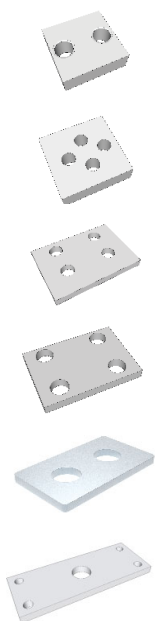
SNODOGE12	Hardened 100Cr6 steel steel bearing. Maximum static load: 2000 kg	CLS, FTK, FTKL, FTP, FT-P, FTZ
SNODOGE20	Kit composed by bearing, galvanized bolt and washer. Maximum static load: 5000 kg	CLS 5000 kg, FTK 3000÷5000 kg, FTKL, FTZ 5000 kg, FTP 3000÷5000 kg
SNODOGE25	Kit composed by bearing, 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	Lower base turned in AISI 304 stainless steel	CBL 15000 kg CBX 30000 kg
BINF126		CBL 30000 kg CBX 50000 kg
BINF165		CBL 50000 ÷ 100000 kg
BINFCLBT	M8 lower base for tension operation	CLBT
BOTTONE200	Upper loading base	CBLS 200000 kg
BOTTONE		CBLS 300000 kg
BOTTONE750		CBLS 500000 ÷ 750000 kg
ADAT100	AISI 304 stainless steel adapter for mounting kit: V15000 - V15000EN109 - Z15000	CBX 15000 kg
ADAT126		CBX 30000 kg
ADAT165		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) FCCK (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)	stainless steel galvanized steel	<p>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.</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> <div> <p>mV signal x 3</p> </div> <div> <p>mV signal x 2</p> </div> <div> <p>mV signal x 2</p> </div> <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.

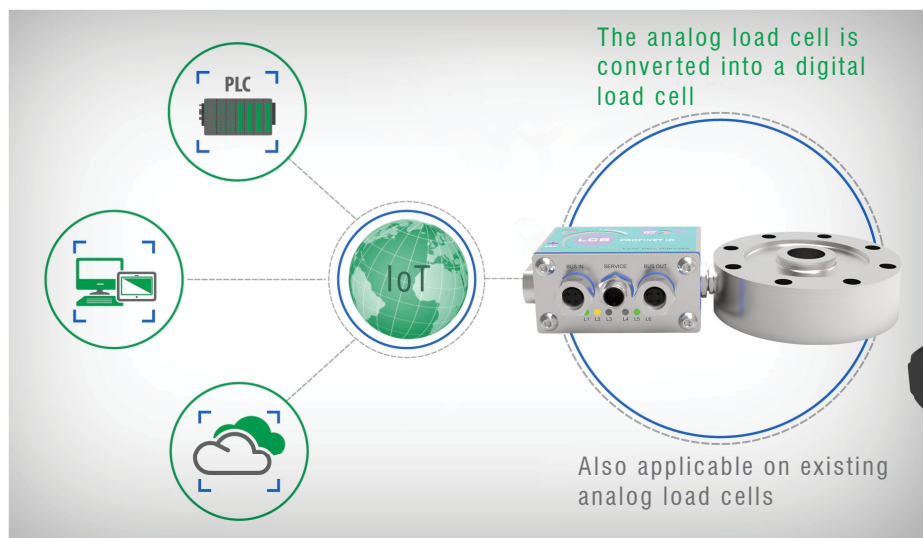
ATEX certified versions:

II 1G Ex ia IIC T4 $-20\text{ }^{\circ}\text{C} \leq \text{Tamb} + 60\text{ }^{\circ}\text{C}$
 II 1D Ex ta IIIC T85°C $-20\text{ }^{\circ}\text{C} \leq \text{Tamb} + 60\text{ }^{\circ}\text{C}$

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

LCB – UNIVERSAL DIGITIZER FOR LOAD CELLS

CE UK EAC IP67

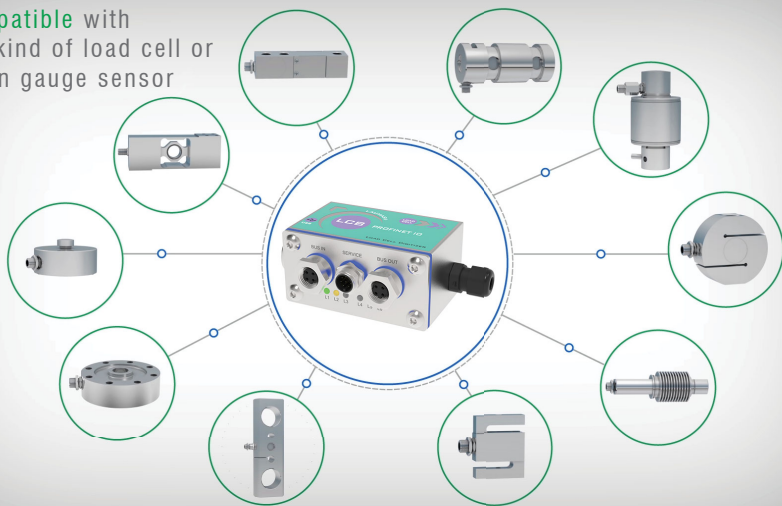


AINI 304 STAINLESS STEEL VERSION - IP67



FLYING CONNECTORS

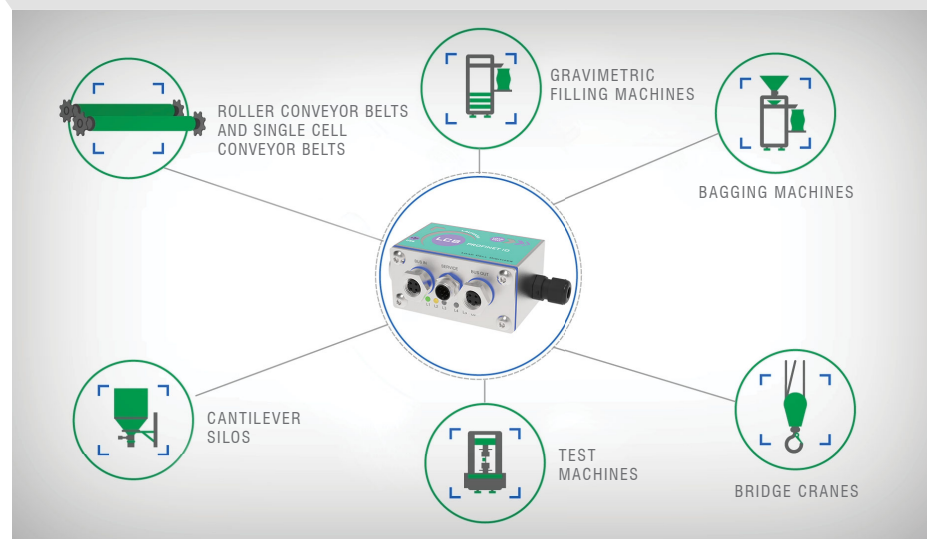
Compatible with any kind of load cell or strain gauge sensor



NYLON PA66 VERSION - IP67

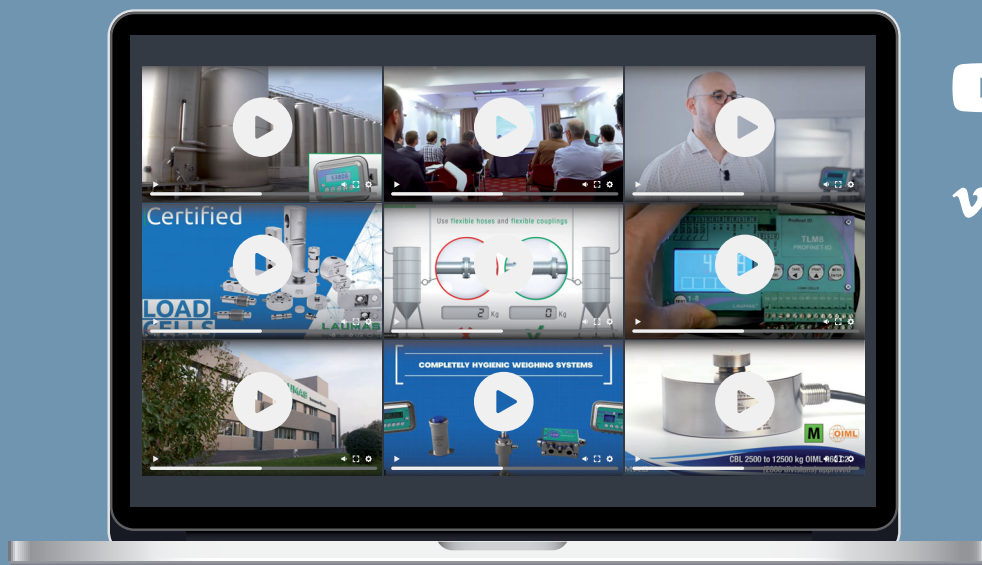


HYGIENIC VERSION



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

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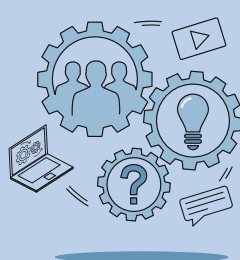
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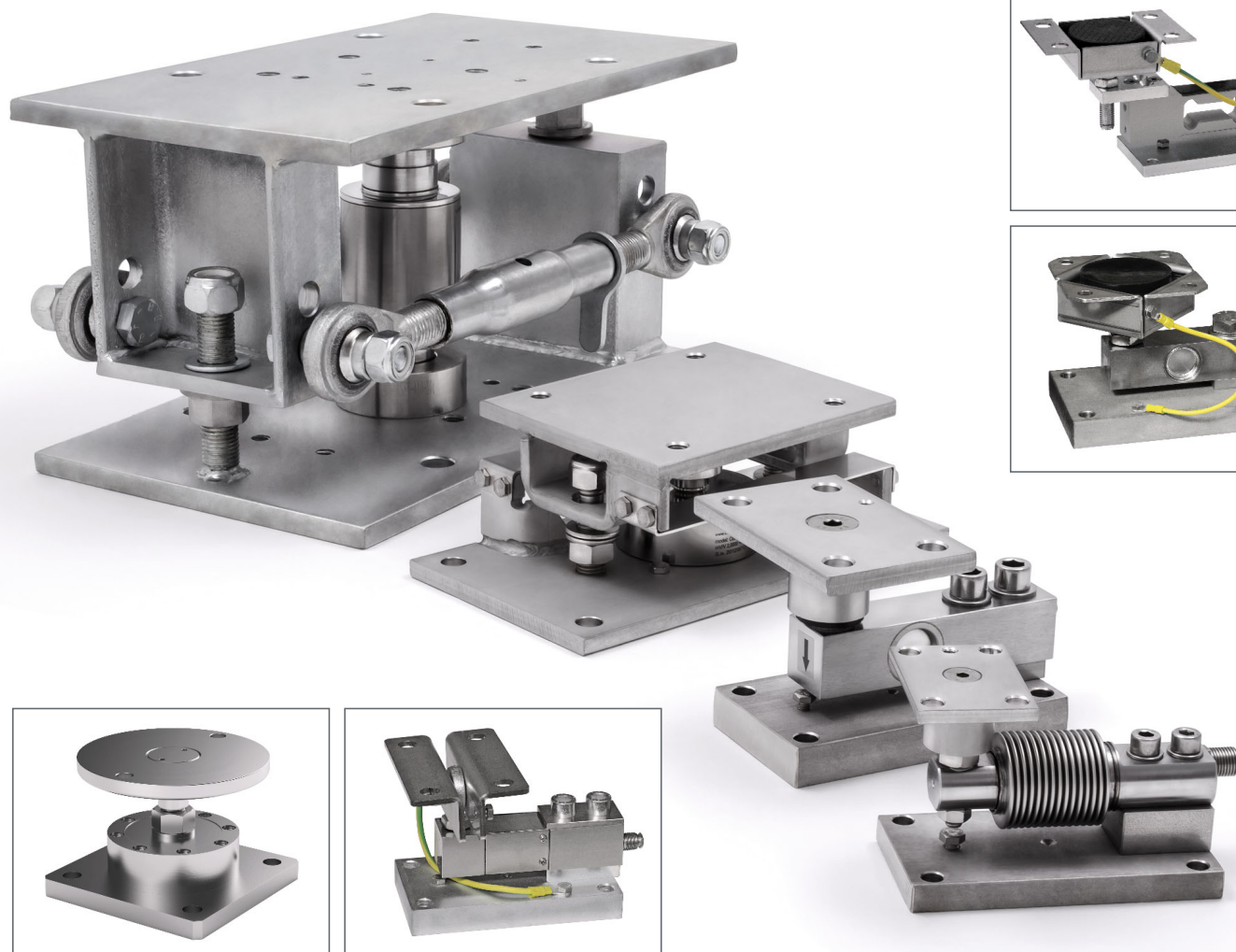
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