PACKAGING

FLUID POWER

WOOD

METAL

INDUSTRIAL LIFTING

FOOD

TEXTILE

AUTOMOTIVE

INDUSTRIAL PRINTING

PLASTICS

MATERIAL TEST MACHINES

TEST BENCHES AND TEST EQUIPMENT

TECHNOLOGY

Gefran load cells and force transducers, built in various sizes and capacities, are available in stainless or in aluminium, with protection levels from IP65 to IP68 and many precision classes.

The cells measure the deformation generated by compression, traction/compression, cutting, double cutting, and bending, and convert it by means of glued strain-gauge technology.

The strain-gauges are linked to form a Wheatstone bridge that converts the deformation into an easily managed electrical signal.

PRECISION, STRENGTH, ACCURACY

Gefran load cells and force transducers offer precision, strength, and reliability.
They have been developed for all applications demanding **maximum precision** of measurement: automation, industrial control and weighing, robotics.

Load cells and force transducers are used in many industrial applications. They have an electrical output in mV/V and a measurement range from 50Kg to 50,000 Kg.
The range includes force transducers designed specifically for applications in the plastic film and textile/knitting industry, as well as small cells that are perfect for robotics.

GUIDE TO SELECTION

LOAD CELLS

LOAD TYPE	DIMENSIONS	RANGE	OUTPUT SIGNAL	ACCURACY	PROTECTION LEVEL	PROTECTION LEVEL
Compression	compact	up to 1000kg	mV/V	0,2%	IP67	CU
	standard	up to 50000kg				CM
Traction or Compression	compact	up to 1000kg				TU
	standard	up to 20000k				TC
Cutting	standard	up to 5000kg		D1 (OIMLR60)	IP66	SB
		up to 10000kg				SH
Bending		up to 200kg		C1,C2,C3 (OIMLR60)	IP68	CB

FORCE TRANSDUCERS

LOAD TYPE	DIMENSIONS	RANGE	OUTPUT SIGNAL	ACCURACY	PROTECTION LEVEL	PROTECTION LEVEL
Compression	compact	up to 20kN	mV/V	1%	IP65	AM
	standard	up to 1500kN		1%		CC
		up to 3000kN		0,5%		CT
Traction or Compression	standard	up to 100kN		0,2%		TH
Bending		up to 2kN		0,5%		TR