KISTLER

measure. analyze. innovate.

Crash & Safety

Measurement system solutions for crash testing.

Absolute attention for tomorrow's world

Kistler develops measurement solutions consisting of sensors, electronics, systems and services. In the physical border area between emissions reduction, quality control, mobility and vehicle safety, we deliver excellence for a future- oriented world and create ideal conditions for Industry 4.0. We thereby facilitate innovation and growth for – and with – our customers.

Kistler stands for progress in motor monitoring, vehicle safety and vehicle dynamics and provides valuable data for the development of the efficient vehicles of tomorrow.

Kistler measurement technology ensures top performance in sport diagnostics, traffic data acquisition, cutting force analysis and other applications where absolute measurement accuracy is required.

Kistler systems support all steps of networked, digitalized production and ensure maximum process efficiency and profitability in the smart factories of the next generation.

Contents

Automobile manufacturers carry out extensive crash tests to improve road traffic safety.

Kistler crash test measurement technology – a firm foundation for developing vehicle safety systems

With more automobiles on the roads and increasingly complex traffic conditions, the requirements for vehicle safety are becoming stricter as time goes on. Automobile manufacturers carry out extensive crash tests to bring them nearer to Vision Zero and improve road traffic safety.

These tests supply them with information about the energy absorption behavior of a vehicle and its components, as well showing how the occupants would be affected by an impact. This makes it all the more important for manufacturers to have reliable and flexible measurement systems with suitable data acquisition and recording equipment to deliver precise results.

The overriding goal: maximum vehicle safety
Kistler, one of the world's leading system providers, supplies solutions based on measurement technology for vehicle safety tests. Kistler's range includes high-precision sensors, reliable data acquisition systems, customized services and comprehensive application software for complex measurements in the automotive sector. Drawing on our expertise in measurement technology, we offer complete measurement systems for vehicle and component crash tests as well as specific solutions for customers in this segment.

One cable for everything:
DTI technology from Kistler paves the way to the future
Vehicles are constantly becoming more complex and the level of digitization in automobiles is on the increase – so onboard and in-dummy measuring channels have to meet ever higher requirements. For automobile manufacturers and suppliers to the automotive industry, Kistler's DTI technology opens up a new dimension of process efficiency. What makes this possible: an intelligent bus concept for digital data transmission whereby each bus line supports up to 12 measurement channels per connection port. All the signals from a wide range of different sources are converted into a digital output signal by digitization modules, or DiMods for short. Bundled sensor data is then fed to a central Kistler DTI data recorder in the dummy, from where it is transmitted via Ethernet to the data interface unit. This device connects all the in-vehicle DTI systems to the central network. The special feature: just one single cable to synchronize data, trigger tests and supply power runs from the dummy to the onboard data acquisition unit.

All our solutions are compliant with legal requirements and applicable regulations, and our products always focus on one goal: to make a major contribution towards improving vehicle safety. Our product offering is flanked by comprehensive service, available all over the world.

How to achieve the goal: precise measurement data from Kistler
Kistler's measurement technology plays a key part in preparing, performing and post-processing crash tests. Our measurement systems feature simple installation and intuitive operation. Automated setups save time and money, with fast results guaranteed. With precise measurement data as the basis, Kistler's innovative systems supply valuable knowledge for developers of vehicle safety systems.

Your benefits
- Complete system solutions
- End-to-end documentation
- 100 % quality
- Flexible modification

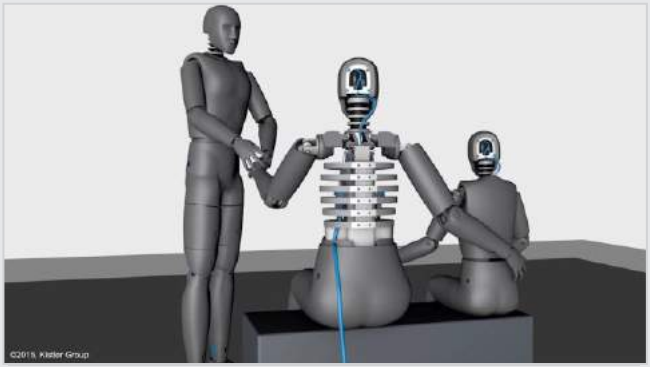
Silent helpers: crash test dummy systems from Kistler
Customers in the automotive sector use crash test dummies to simulate the acceleration, forces and moments that act on human beings during a traffic accident. These dummies – or ATDs (Anthropomorphic Test Devices) – are equipped with numerous sensors to measure the forces that occur before, during and after the test.

For each type of dummy, Kistler offers the right sensor technology to perform highly dynamic measurements, backed up by reliable integrated data acquisition solutions. Kistler's Crash-Designer software makes preparation and performance of crash tests fast and convenient.

Your benefits
- No volume needs to be added to the dummy
- Sensors can be fully integrated if desired (in-dummy)
- Over 25 000 channels with in-dummy data acquisition on the market
- Autonomous data acquisition with just one system connector cable

Sturdy helpers: crash measurement systems from Kistler
As well as crash test dummies, instrumented crash barriers provide automobile manufacturers with important insights into the forces that act on a vehicle during an impact. Kistler offers cutting-edge vehicle sensor technology and high-precision force measurement systems for frontal, side and rear impact tests, developed to comply with legal requirements and applicable regulations. Our systems are complemented by individual highly-integrated data acquisition units and comprehensive software.

Your benefits
- Pre-crash, crash and post-crash-systems
- Reliable high-resolution data acquisition
- Sensor technology for highly dynamic measurements
- Autonomous, integrated data acquisition
- Instrumented crash barriers for frontal impact tests



Experience now online: Kistler's crash test dummy systems
Crash test dummies are used to measure acceleration, moments and forces that act on human beings subjected to accidents and explosions. Kistler offers high-precision sensor technology and cutting-edge integrated data acquisition solutions for all types of dummies:
http://www.kistler.com/dummy-systems

In-dummy measurement instrumentation – load cells

Face load cell

Type M55991A...

Technical data	Type	M55991A...
Measuring range	kN	4,45
Dummy types		Thor (TH)
Data sheet see www.kistler.com	**No.**	**M55991A_003-287**

Skull spring load cell

Type M55191A...

Technical data	Type	M55191A...
Measuring range	kN	4,45
Dummy types		Thor (TH)
Data sheet see www.kistler.com	**No.**	**M55191A_003-211**

Six-axial upper neck load cell

Type M555A6...

Technical data	Type	M555A6...
Measuring range		
F_x / F_y / F_z	kN	9,00/9,00/13,00
M_x / M_y / M_z	N·m	280,00/280,00/280,00
Dummy types		HIII-5 % (HF), HIII-10 % (YA), HIII-50 % (H3), HIII-95 % (HM), HIII-6 year old (Y7), SID-IIs (S2)
Data sheet see www.kistler.com	**No.**	**M555A6A_000-790**

Six-axial upper neck load cell

Type M55516A...

Technical data	Type	M55516A...
Measuring range		
F_x / F_y / F_z	kN	1,30/0,90/4,40
M_x / M_y / M_z	N·m	56,50/113,00/33,90
Dummy types		BioRID (BR)
Data sheet see www.kistler.com	**No.**	**M55516A_000-778**

Six-axial upper neck load cell

Type M55526A...

Technical data	Type	M55526A...
Measuring range		
F_x / F_y / F_z	kN	10,00/10,00/15,00
M_x / M_y / M_z	N·m	280,00/280,00/280,00
Dummy types		EuroSID-2 (E2, ER)
Data sheet see www.kistler.com	**No.**	**M55526A_000-950**

In-dummy measurement instrumentation – load cells

Six-axial upper neck load cell

Type M55596A...

Technical data	Type	M55596A...
Measuring range		
F_x / F_y / F_z	kN	8,90/8,90/13,30
M_x / M_y / M_z	N·m	284,00/284,00/284,00
Dummy types		Thor (TH)
Data sheet see www.kistler.com	**No.**	**M55596A_003-226**

Six-axial upper neck load cell

Type M585A6A...

Technical data	Type	M585A6A...
Measuring range		
F_x / F_y / F_z	kN	0,90/0,90/2,00
M_x / M_y / M_z	N·m	56,00/56,00/34,00
Dummy types		P1 1/2 year old (P2), Crabi
Data sheet see www.kistler.com	**No.**	**M585A6A_000-854**

Six-axial lower neck load cell

Type M557A6A...

Technical data	Type	M557A6A...
Measuring range		
F_x / F_y / F_z	kN	14,20/14,20/14,20
M_x / M_y / M_z	N·m	450,00/450,00/450,00
Dummy types		HIII-50 % (H3), HIII-95 % (HM)
Data sheet see www.kistler.com	**No.**	**M557A6A_000-779**

Six-axial lower neck load cell

Type M56016...

Technical data	Type	M56016...
Measuring range		
F_x / F_y / F_z	kN	4,45/4,45/7,10
M_x / M_y / M_z	N·m	225,00/225,00/140,00
Dummy types		HIII-6 year old (Y7)
Data sheet see www.kistler.com	**No.**	**M56016_003-158**

Six-axial adjustable lower neck load cell

Type M56116A...

Technical data	Type	M56116A...
Measuring range		
F_x / F_y / F_z	kN	13,30/13,30/13,30
M_x / M_y / M_z	N·m	339,00/339,00/180,00
Dummy types		HIII-5 % (HF)
Data sheet see www.kistler.com	**No.**	**M56116A_003-159**

In-dummy measurement instrumentation – load cells

Six-axial adjustable lower neck load cell

Type M561A6A...

Technical data	Type	M561A6A...
Measuring range		
F_x / F_y / F_z	kN	6,67/6,67/8,90
M_x / M_y / M_z	N·m	340,00/340,00/225,00
Dummy types		HIII-50 % (H3), HIII-95 % (HM), FAA-HIII-50 %
Data sheet see www.kistler.com	**No.**	**M561A6A_000-938**

Six-axial lower neck load cell

Type M55696A...

Technical data	Type	M55696A...
Measuring range		
F_x / F_y / F_z	kN	13,30/13,30/13,30
M_x / M_y / M_z	N·m	452,00/452,00/226,00
Dummy types		Thor (TH)
Data sheet see www.kistler.com	**No.**	**M55696A_003-223**

Six-axial lower neck load cell

Type M55616A...

Technical data	Type	M55616A...
Measuring range		
F_x / F_y / F_z	kN	11,00/11,00/11,00
M_x / M_y / M_z	N·m	340,00/340,00/225,00
Dummy types		SID-IIs (S2)
Data sheet see www.kistler.com	**No.**	**M55616A_000-982**

Six-axial universal neck load cell

Type M55556A...

Technical data	Type	M55556A...
Measuring range		
F_x / F_y / F_z	kN	10,00/10,00/12,00
M_x / M_y / M_z	N·m	300,00/300,00/200,00
Dummy types		WorldSID-5 % (W5), WorldSID-50 % (WS)
Data sheet see www.kistler.com	**No.**	**M55556A_000-963**

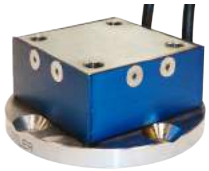
Six-axial universal neck load cell

Type M55636A...

Technical data	Type	M55636A...
Measuring range		
F_x / F_y / F_z	kN	5,00/5,00/6,00
M_x / M_y / M_z	N·m	150,00/150,00/80,00
Dummy types		Q0 ... Q6
Data sheet see www.kistler.com	**No.**	**M55636A_000-796**

In-dummy measurement instrumentation – load cells

Six-axial universal neck load cell



Type M55646A...

Technical data	Type	M55646A...
Measuring range		
F_x / F_y / F_z	kN	13,30/13,30/17,80
M_x / M_y / M_z	N·m	450,00/450,00/240,00
Dummy types		Q10 (QA)
Data sheet see www.kistler.com	**No.**	**M55646A_003-118**

Four-axial clavicle load cell

Type M53894A...

Technical data	Type	M53894A...
Measuring range		
F_x (M) / F_z (M) / F_x (L) / F_z (L)	kN	2,00/2,00/2,00/2,00
Dummy types		Thor (TH)
Data sheet see www.kistler.com	**No.**	**M53894A_003-214**

Triaxial shoulder load cell

Type M536A3A...

Technical data	Type	M536A3A...
Measuring range		
F_x / F_y / F_z	kN	4,00/8,00/4,00
Dummy types		EuroSID-1 (E1), EuroSID-2 (E2, ER)
Data sheet see www.kistler.com	**No.**	**M536A3A_000-785**

Triaxial shoulder load cell

Type M53633A...

Technical data	Type	M53633A...
Measuring range		
F_x / F_y / F_z	kN	4,50/4,50/4,50
Dummy types		SID-IIs (S2)
Data sheet see www.kistler.com	**No.**	**M53633A_000-791**

Triaxial shoulder load cell

Type M53643A...

Technical data	Type	M53643A...
Measuring range		
F_x / F_y / F_z	kN	5,00/10,00/5,00
Dummy types		WorldSID-50 % (WS)
Data sheet see www.kistler.com	**No.**	**M53643A_000-964**

In-dummy measurement instrumentation – load cells

Triaxial shoulder load cell

Type M53653A...

Technical data	Type	M53653A...
Measuring range		
F_x / F_y / F_z	kN	4,00/5,00/4,00
Dummy types		WorldSID-5 % (W5)
Data sheet see www.kistler.com	**No.**	**M53653A_003-078**

Triaxial shoulder load cell

Type M53663A...

Technical data	Type	M53663A...	M53673A...
Measuring range			
F_x / F_y / F_z	kN	2,00/4,00/2,00	2,00/4,00/2,00
Dummy types		Q 10 year old (QA)	Q 10 year old (QA)
Data sheet see www.kistler.com	**No.**	**M536x3A_003-206**	**M536x3A_003-206**

Six-axial arm load cell

Type M56516A...

Technical data	Type	M56516A...
Measuring range		
F_x / F_y / F_z	kN	9,00/9,00/13,50
M_x / M_y / M_z	N·m	225,00/225,00/170,00
Dummy types		WorldSID-50 % (WS), Thor (TH)
Data sheet see www.kistler.com	**No.**	**M56516A_003-094**

Four-axial back plate load cell

Type M540A4A...

Technical data	Type	M540A4A...
Measuring range		
F_x / F_y	kN	3,00/3,00
M_y / M_z	N·m	160,00/160,00
Dummy types		EuroSID-2 (E2)
Data sheet see www.kistler.com	**No.**	**M540A4A_000-777**

Four-axial back plate load cell

Type M54014A...

Technical data	Type	M54014A...
Measuring range		
F_x / F_y	kN	3,00/3,00
M_y / M_z	N·m	160,00/160,00
Dummy types		EuroSID-2 with Rib Extension (ER)
Data sheet see www.kistler.com	**No.**	**M54014A_000-780**

In-dummy measurement instrumentation – load cells

Five-axial thoracic spine load cell

Type M564A5A...

Technical data	Type	M564A5A...
Measuring range		
F_x / F_y / F_z	kN	13,30/13,30/17,80
M_x / M_y	N·m	680,00/900,00
Dummy types		HIII-50 % (H3), HIII-95 % (HM), Polar
Data sheet see www.kistler.com	**No.**	**M564A5A_000-984**

Five-axial thoracic spine load cell

Type M56495A...

Technical data	Type	M56495A...
Measuring range		
F_x / F_y / F_z	kN	13,35/13,35/17,80
M_x / M_y	N·m	680,00/900,00
Dummy types		Thor-M (TH)
Data sheet see www.kistler.com	**No.**	**M56495A_003-210**

Four-axial T12 load cell

Type M53764A...

Technical data	Type	M53764A...
Measuring range		
F_y / F_z	kN	14,00/14,00
M_x / M_y	N·m	1 000/1 000
Dummy types		EuroSID-2 (E2, ER)
Data sheet see www.kistler.com	**No.**	**M53764A_000-786**

Uniaxial abdomen load cell

Type M530A1B...

Technical data	Type	M530A1B...
Measuring range	kN	5,00
Dummy types		EuroSID-1 (E1), EuroSID-2 (E2, ER)
Data sheet see www.kistler.com	**No.**	**M530A1B_000-968**

Triaxial lumbar spine load cell

Type M537A3A...

Technical data	Type	M537A3A...
Measuring range		
F_y / F_z	kN	13,50/13,50
M_x	N·m	550,00
Dummy types		EuroSID-1 (E1), EuroSID-2 (E2)
Data sheet see www.kistler.com	**No.**	**M537A3A_000-949**

In-dummy measurement instrumentation – load cells

Triaxial lumbar spine load cell

Type M562A3A...

Technical data	Type	M562A3A...
Measuring range		
F_x / F_z	kN	13,35/13,35
M_y	N·m	565,00
Dummy types		HIII-50 % (H3), HIII-95 % (HM)
Data sheet see www.kistler.com	**No.**	**M562A3A_003-164**

Six-axial lumbar spine load cell

Type M56216A...

Technical data	Type	M56216A...
Measuring range		
F_x / F_y / F_z	kN	15,00/15,00/20,00
M_x / M_y / M_z	N·m	600,00/600,00/350,00
Dummy types		HIII-50 % (H3) and HIII-95 % (HM)
Data sheet see www.kistler.com	**No.**	**M56216A_000-837**

Triaxial lumbar spine load cell

Type M573A3A...

Technical data	Type	M573A3A....
Measuring range		
F_x / F_z	kN	13,30/17,80
M_y	N·m	680,00
Dummy types		HIII-5 % (HF)
Data sheet see www.kistler.com	**No.**	**M573AxA_003-161**

Five-axial / six-axial lumbar spine load cell

Type M573A5A...

Technical data	Type	M573A5A...	M573A6A...
Measuring range			
F_x / F_y / F_z	kN	13,30/13,30/17,80	13,30/13,30/17,80
M_x / M_y / M_z [1)]	N·m	680,00/680,00	680,00/680,00/600,00
Dummy types		HIII-5 % (HF)	HIII-5 % (HF)
Data sheet see www.kistler.com	**No.**	**M573AxA_003-161**	**M573AxA_003-161**

Six-axial lumbar spine load cell

Type M563A6A...

Technical data	Type	M563A6A...
Measuring range		
F_x / F_y / F_z	kN	4,45/4,45/6,70
M_x / M_y / M_z	N·m	170,00/170,00/113,00
Dummy types		HIII-3 year old (Y6)
Data sheet see www.kistler.com	**No.**	**M563A6A_003-160**

In-dummy measurement instrumentation – load cells

Six-axial lumbar spine load cell

Type M568A6A...

Technical data	Type	M568A6A...
Measuring range		
F_x / F_y / F_z	kN	4,45/4,45/7,10
M_x / M_y / M_z	N·m	240,00/240,00/150,00
Dummy types		HIII-6 year old (Y7)
Data sheet see www.kistler.com	**No.**	**M568A6A_000-939**

Six-axial lumbar spine load cell

Type M56816A...

Technical data	Type	M56816A...
Measuring range		
F_x / F_y / F_z	kN	13,30/13,30/13,30
M_x / M_y / M_z	N·m	450,00/450,00/225,00
Dummy types		SID-IIs (S2)
Data sheet see www.kistler.com	**No.**	**M56816A_000-983**

Six-axial lumbar spine load cell

Type M56826A...

Technical data	Type	M56826A...
Measuring range		
F_x / F_y / F_z	kN	10,00/10,00/12,00
M_x / M_y / M_z	N·m	300,00/300,00/200,00
Dummy types		WorldSID-5 % (W5), WorldSID-50 % (WS)
Data sheet see www.kistler.com	**No.**	**M56826A_000-975**

Six-axial lumbar spine load cell

Type M585A6A...

Technical data	Type	M585A6A...
Measuring range		
F_x / F_y / F_z	kN	0,90/0,90/2,00
M_x / M_y / M_z	N·m	56,00/56,00/34,00
Dummy types		P1 1/2 year old (P2), Crabi
Data sheet see www.kistler.com	**No.**	**M585A6A_000-854**

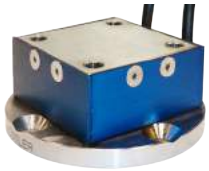
Six-axial lumbar spine load cell

Type M55636A...

Technical data	Type	M55636A...
Measuring range		
F_x / F_y / F_z	kN	5,00/5,00/6,00
M_x / M_y / M_z	N·m	150,00/150,00/80,00
Dummy types		Q1 ... Q6
Data sheet see www.kistler.com	**No.**	**M55636A_000-796**

In-dummy measurement instrumentation – load cells

Six-axial lumbar spine load cell



Type M55646A...

Technical data	Type	M55646A...
Measuring range		
F_x / F_y / F_z	kN	13,30/13,30/17,80
M_x / M_y / M_z	N·m	450,00/450,00/240,00
Dummy types		Q10 (QA)
Data sheet see www.kistler.com	**No.**	**M55646A_003-118**

Twelve-axial sacroiliac load cell

Type M5670BA...

Technical data	Type	M5670BA...
Measuring range		
F_x / F_y / F_z (left and right each)	kN	6,00/12,00/6,00
M_x / M_y / M_z (left and right each)	N·m	800,00/400,00/400,00
Dummy types		WorldSID-5 % (W5), WorldSID-50 % (WS)
Data sheet see www.kistler.com	**No.**	**M5670BA_000-965**

Biaxial iliac wing load cell

Type M52202B...

Technical data	Type	M52202B...	M52212B
Measuring range			
F_x	kN	8,90	8,90
M_y	N·m	255,00	225,00
Dummy types		HIII-5 % (HF)	HIII-5 % (HF)
Data sheet see www.kistler.com	**No.**	**M522x2B_003-185**	**M522x2B_003-185**

Biaxial ASIS iliac wing load cell

Type M52242A...

Technical data	Type	M52242A...	M52212B
Measuring range			
F_{x1}/F_{x2}	kN	18,00/18,00	18,00/18,00
Dummy types		HIII-95 % (HM)	HIII-95 % (HM)
Data sheet see www.kistler.com	**No.**	**M522x2A_003-242**	**M522x2A_003-242**

Biaxial iliac wing load cell

Type M52292A...

Technical data	Type	M52292A...
Measuring range		
F_x	kN	13,00
M_y	N·m	320,00
Dummy types		Thor (TH)
Data sheet see www.kistler.com	**No.**	**M52292A_003-215**

In-dummy measurement instrumentation – load cells

Unixial iliac wing load cell

Type M57611A...

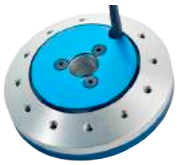
Technical data	Type	M57611A...
Measuring range	kN	13,50
Dummy types		SID-IIs (S2)
Data sheet see www.kistler.com	**No.**	**M57611A_000-794**

Biaxial iliac wing load cell

Type M576x2A...

Technical data	Type	M576R2A...	M576L2A...
Measuring range F_{y1}/F_{y2}	kN	6,75	6,75
Dummy types		SID-IIs (S2)	SID-IIs (S2)
Data sheet see www.kistler.com	**No.**	**M576x2A_003-275**	**M576x2A_003-275**

Uniaxial acetabulum load cell



Type M52811A...

Technical data	Type	M52811A...
Measuring range	kN	8,90
Dummy types		SID-IIs (S2)
Data sheet see www.kistler.com	**No.**	**M52811A_000-792**

Triaxial acetabulum load cell

Type M52893A...

Technical data	Type	M52893A...	M52993A...
Measuring range F_x / F_y / F_z	kN	22,24/13,34/13,34	22,24/13,34/13,34
Dummy types		Thor (TH)	Thor (TH)
Data sheet see www.kistler.com	**No.**	**M52x93A_003-224**	**M52x93A_003-224**

Uniaxial pubic load cell

Type M50241A...

Technical data	Type	M50241A...
Measuring range	kN	12,00
Dummy types		WorldSID-5 % (W5), WorldSID-50 % (WS), Q10 (QA)
Data sheet see www.kistler.com	**No.**	**M50241A_000-974**

In-dummy measurement instrumentation – load cells

Uniaxial iliac wing load cell

Type M531A1A...

Technical data	Type	M531A1A...
Measuring range	kN	20,00
Dummy types		EuroSID-1 (E1), EuroSID-2 (E2, ER)
Data sheet see www.kistler.com	**No.**	**M531A1A_000-784**

Uniaxial pubic load cell

Type M53111A...

Technical data	Type	M53111A...
Measuring range	kN	8,90
Dummy types		SID-IIs (S2)
Data sheet see www.kistler.com	**No.**	**M53111A_000-793**

Triaxial femoral neck load cell

Type M53903A...

Technical data	Type	M53903A...
Measuring range		
F_x / F_y / F_z	kN	10,00/25,00/10,00
Dummy types		WorldSID-50 % (WS)
Data sheet see www.kistler.com	**No.**	**M53903A_000-976**

Triaxial femoral neck load cell

Type M53923A...

Technical data	Type	M53923A...
Measuring range		
F_x / F_y / F_z	kN	10,00/25,00/10,00
Dummy types		WorldSID-5 % (W5)
Data sheet see www.kistler.com	**No.**	**M53923A_003-079**

Six-axial femur load cell

Type M56506A...

Technical data	Type	M56506A...
Measuring range		
F_x / F_y / F_z	kN	15,00/15,00/15,00
M_x / M_y / M_z	N·m	350,00/350,00/200,00
Dummy types		WorldSID-50 % (WS), Thor (TH)
Data sheet see www.kistler.com	**No.**	**M56506A_000-977**

In-dummy measurement instrumentation – load cells

Six-axial femur load cell

Type M56516A...

Technical data	Type	M56516A...
Measuring range		
F_x / F_y / F_z	kN	9,00/9,00/13,50
M_x / M_y / M_z	N·m	225,00/225,00/170,00
Dummy types		WorldSID-5 % (W5)
Data sheet see www.kistler.com	**No.**	**M56516A_003-094**

Uniaxial femur load cell

Type M501A1A...

Technical data	Type	M501A1A...
Measuring range	kN	6,70
Dummy types		HIII-6 year old (Y7)
Data sheet see www.kistler.com	**No.**	**M501A1A_003-150**

Six-axial femur load cell

Type M50626A...

Technical data	Type	M50626A...
Measuring range		
F_x / F_y / F_z	kN	3,35/3,35/6,70
M_x / M_y / M_z	N·m	112,00/112,00/56,00
Dummy types		HIII-6 year old (Y7)
Data sheet see www.kistler.com	**No.**	**M50626A_003-112**

Uniaxial femur load cell

Type M505A1A...

Technical data	Type	M505A1A...
Measuring range	kN	13,50
Dummy types		HIII-5 % (HF), HIII-50 % (H3), HIII-95 % (HM)
Data sheet see www.kistler.com	**No.**	**M505A1A_000-781**

Six-axial femur load cell

Type M506A6A...

Technical data	Type	M506A6A...
Measuring range		
F_x / F_y / F_z	kN	13,30/13,30/22,20
M_x / M_y / M_z	N·m	340,00/340,00/340,00
Dummy types		HIII-5 % (HF), HIII-50 % (H3), HIII-95 % (HM), SID-IIs (S2)
Data sheet see www.kistler.com	**No.**	**M506A6A_000-795**

In-dummy measurement instrumentation – load cells

Six-axial femur load cell

Type M50616A...

Technical data	Type	M50616A...
Measuring range		
F_x / F_y / F_z	kN	13,30/13,30/22,20
M_x / M_y / M_z	N·m	340,00/340,00/340,00
Dummy types		EuroSID-1 (E1) and EuroSID-2 (E2, ER)
Data sheet see www.kistler.com	**No.**	**M50616A_000-782**

Six-axial femur load cell

Type M50636A...

Technical data	Type	M50636A...
Measuring range		
F_x / F_y / F_z	kN	3,35/3,35/6,70
M_x / M_y / M_z	N·m	112,00/112,00/56,00
Dummy types		Q 10 year old (QA)
Data sheet see www.kistler.com	**No.**	**M50636A_003-212**

Uniaxial knee contact load cell

Type M55141A...

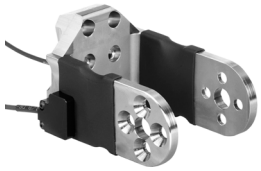
Technical data	Type	M55141A...
Measuring range	kN	20,00
Dummy types		WorldSID-50 % (WS), WorldSID-5 % (W5)
Data sheet see www.kistler.com	**No.**	**M55141A_003-176**

Biaxial knee clevis load cell

Type M55102A...

Technical data	Type	M55102A...
Measuring range (2xF_z)	kN	2x6,80
Dummy types		HIII-5 % (HF)
Data sheet see www.kistler.com	**No.**	**M551x2A_003-137**

Biaxial knee clevis load cell



Type M55112A...

Technical data	Type	M55112A...
Measuring range (2xF_z)	kN	2x8,90
Dummy types		HIII-50 % (H3)
Data sheet see www.kistler.com	**No.**	**M551x2A_003-137**

In-dummy measurement instrumentation – load cells

Biaxial knee clevis load cell

Type M55122A...

Technical data	Type	M55122A...
Measuring range (2xF_z)	kN	2x8,90
Dummy types		HIII-95 % (HM)
Data sheet see www.kistler.com	**No.**	**M551x2A_003-137**

Four-axial / five-axial upper tibia load cell

Type M55214A...

Technical data	Type	M55214x...	M55215x
Measuring range			
F_x / F_y [1] / F_z	kN	11,00/11,00	11,00/11,00/11,00
M_x / M_y / M_z	N·m	400,00/400,00	400,00/400,00
Dummy types		HIII-5 % (HF), HIII-50 % (H3), HIII-95 % (HM), SID-IIs (S2)	HIII-5 % (HF), HIII-50 % (H3), HIII-95 % (HM), SID-IIs (S2)
Data sheet see www.kistler.com	**No.**	**M55214A_000-789**	**M55214A_000-789**

[1] Only five-axial version

Five-axial upper tibia load cell

Type M55235A...

Technical data	Type	M55235A...
Measuring range		
F_x / F_y / F_z	kN	11,00/11,00/11,00
M_x / M_y / M_z	N·m	400,00/400,00
Dummy types		Thor-LX
Data sheet see www.kistler.com	**No.**	**M55235A_000-967**

Five-axial upper tibia load cell

Type M55295A...

Technical data	Type	M55295A...
Measuring range		
F_x / F_y / F_z	kN	11,00/11,00/11,00
M_x / M_y / M_z	N·m	400,00/400,00
Dummy types		Thor (TH)
Data sheet see www.kistler.com	**No.**	**M55295A_003-208**

Five-axial lower tibia load cell

Type M55155A...

Technical data	Type	M55155A...
Measuring range		
F_x / F_y / F_z	kN	11,00/11,00/11,00
M_x / M_y	N·m	400,00/400,00
Dummy types		MIL-LX lower legs
Data sheet see www.kistler.com	**No.**	**M55155A_000-966**

In-dummy measurement instrumentation – load cells

Four-axial / five-axial lower tibia load cell

Type M55204A...

Technical data	Type	M55204x...	M55205x
Measuring range			
F_x / F_y / F_z	kN	11,00/11,00	11,00/11,00/11,00
M_x / M_y	N·m	400,00/400,00	400,00/400,00
Dummy types		HIII-5 % (HF), HIII-50 % H3),HIII-95 % (HM), SID IIs (S2)	HIII-5 % (HF), HIII-50 % H3),HIII-95 % (HM), SID IIs (S2)
Data sheet see www.kistler.com	**No.**	**M55204A_000-788**	**M55204A_000-788**

Five-axial lower tibia load cell

Type M55395A...

Technical data	Type	M55395A...
Measuring range		
F_x / F_y / F_z	kN	11,00/11,00/11,00
M_x / M_y	N·m	400,00/400,00
Dummy types		Thor (TH)
Data sheet see www.kistler.com	**No.**	**M55395A_003-209**

Six-axial tibia load cell

Type M55266A...

Technical data	Type	M55266A...
Measuring range		
F_x / F_y / F_z	kN	20,00/20,00/30,00
M_x / M_y / M_z	N·m	450,00/450,00/385,00
Dummy types		WIAMan
Data sheet see www.kistler.com	**No.**	**M55266A_003-252**

Uniaxial achilles tendon load cell

Type M55491A...

Technical data	Type	M55491A...
Measuring range	kN	4,45
Dummy types		Thor (TH)
Data sheet see www.kistler.com	**No.**	**M55491A_003-225**

Triaxial calcaneus load cell

Type M55163A...

Technical data	Type	M55163A...	M55263A...
Measuring range			
F_x / F_y / F_z	kN	6,00/6,00/12,00	6,00/6,00/12,00
Dummy types		WIAMan	WIAMan
Data sheet see www.kistler.com	**No.**	**M55x63A_003-251**	**M55x63A_003-251**

In-dummy measurement instrumentation – accelerometers

Uniaxial, piezoresistive accelerometer, damped

Type M0040A00-2000

Technical data	Type	M0040A00-2000
Measuring range	g	±2 000
Sensitivity @ 10 VDC excitation	mV/g	0,075
Natural frequency	Hz	>10 000
Damping ratio, typ.		0,7
Data sheet see www.kistler.com	**No.**	**M0040A_003-095**

Description Used in safety crash testing (auto, truck, recreational vehicles, shock testing).

Uniaxial, piezoresistive accelerometer

Type M0064B00-2000

Technical data	Type	M0064B00-2000
Measuring range	g	±2 000
Sensitivity	mV/g	0,15
Resonant frequency	Hz	26 000
Damping ratio, typ.		0,05
Data sheet see www.kistler.com	**No.**	**M0064B_003-099**

Description Used in safety crash testing (auto, truck, recreational vehicles, shock testing).

Uniaxial, piezoresistive accelerometer

Type M0064C00-2000

Technical data	Type	M0064C00-2000
Measuring range	g	±2 000
Sensitivity	mV/g	0,15
Resonant frequency	Hz	26 000
Damping ratio, typ.		0,05
Data sheet see www.kistler.com	**No.**	**M0064C_003-100**

Description Used in safety crash testing (auto, truck, recreational vehicles, shock testing).

Triaxial accelerometer

Type M0068C00-2000

Technical data	Type	M0068C00-2000
Measuring range	g	±2 000
Sensitivity	mV/g	0,15
Resonant frequency	Hz	26 000
Damping ratio, typ.		0,05
Data sheet see www.kistler.com	**No.**	**M0068C_003-101**

Description Used in automotive crash testing, impact testing, off-road testing, road testing, dummy instrumentation.

On-board measurement instrumentation – accelerometers

Uniaxial, piezoresistive accelerometer

Type M0052F00-2000

Technical data	Type	M0052F00-0500	M0052F00-2000
Measuring range	g	±500	±2 000
Sensitivity	mV/g	0,4	0,15
Natural frequency	Hz	15 000	26 000
Damping ratio, typ.		0,05	0,05
Data sheet see www.kistler.com	**No.**	**M0052F_003-096**	**M0052F_003-096**

Description Used in safety crash testing, high impact research, biomechanical studies, blast testing.

Uniaxial, piezoresistive accelerometer

Type M0052M30-2000

Technical data	Type	M0052M30-0500	M0052M30-2000
Measuring range	g	±500	±2 000
Sensitivity	mV/g	0,4	0,15
Natural frequency	Hz	15 000	26 000
Damping ratio, typ.		0,05	0,05
Data sheet see www.kistler.com	**No.**	**M0052M30_003-097**	**M0052M30_003-097**

Description Used in safety crash testing, high impact research, biomechanical studies, shock testing.

Triaxial, piezoresistive accelerometer

Type M0053A00-2000

Technical data	Type	M0053A00-0500	M0053A00-2000
Measuring range	g	±500	±2 000
Sensitivity	mV/g	0,4	0,15
Natural frequency	Hz	15 000	26 000
Damping ratio, typ.		0,3	0,05
Data sheet see www.kistler.com	**No.**	**M0053A00_003-098**	**M0053A00_003-098**

Description Used in safety crash testing, impact testing, off road testing, vehicle testing.

Triaxial, piezoresistive accelerometer

Type M0301A00-2000

Technical data	Type	M0301A00-1000	M0301A00-2000
Measuring range	g	±1 000	±2 000
Sensitivity	mV/g	0,15	0,13
Natural frequency	Hz	20 000	23 000
Damping ratio, typ.		0,05	0,05
Data sheet see www.kistler.com	**No.**	**M0301A00_003-186**	**M0301A00_003-186**

Description Used in safety crash testing, impact testing, off road testing, vehicle testing.

On-board measurement instrumentation – accelerometers

Uniaxial, piezoresistive accelerometer

Type M1200M30-1000

Technical data	Type	M1200M30-0500	M1200M30-1000
Measuring range	g	±500	±1 000
Sensitivity	mV/g	0,40	0,15
Natural frequency	Hz	6 000	7 000
Damping ratio, typ.		0,3	0,1
Data sheet see www.kistler.com	**No.**	**M1200M30_003-102**	**M1200M30_003-102**

Description Used in crash testing, impact testing, off-road testing, transportation testing.

Uniaxial, piezoresistive accelerometer

Type M1201F-1000

Technical data	Type	M1201F-0500	M1201F-1000
Measuring range	g	±500	±1 000
Sensitivity	mV/g	0,40	0,15
Natural frequency	Hz	6 000	7 000
Damping ratio, typ.		0,3	0,1
Data sheet see www.kistler.com	**No.**	**M1201F_003-103**	**M1201F_003-103**

Description Used in crash testing, crush zone testing, impact testing, off-road testing, transportation testing.

Triaxial, piezoresistive accelerometer

Type M1203A00-1000

Technical data	Type	M1203A00-0500	M1203A00-1000
Measuring range	g	±500	±1 000
Sensitivity	mV/g	0,40	0,15
Natural frequency	Hz	6 000	7 000
Damping ratio, typ.		0,3	0,1
Data sheet see www.kistler.com	**No.**	**M1203A_003-104**	**M1203A_003-104**

Description Used in crash testing, vehicle testing, impact testing, off-road testing, transportation testing.

Uniaxial, piezoresistive accelerometer

Type M0101A00

Technical data	Type	M0101A00
Measuring range	g	±1 000
Sensitivity	mV/g	0,12
Natural frequency	Hz	6 000
Damping ratio, typ.		0,15
Data sheet see www.kistler.com	**No.**	**M0101A_003-114**

Description Used in crash testing, impact testing, off-road testing and transportation testing.

On-board measurement instrumentation – current sensors

Current and current pulse sensor

Type M703A...

Technical data	Type	M703A...	M703B...
Measuring range (typ.)			
Overload 30 A (Type ...SI2)	A	±15	±15
Overload 50 A (Type ...SI3)	A	±30	±30
Overload 80 A (Type ...SI5)	A	±50	±50
Overload 200 A (Type ...SI1)	A	±100	±100
Sensitivity (typ. / min. / max.)			
at 10 V	mV/A	37 / 20 / 50	
at 15 V	mV/A		18 / 10 / 30
Wire diameter	mm	2,7 ... 3	2,7 ... 3
Data sheet see www.kistler.com	**No.**	**M703_000-833**	**M703_000-833**

Description

Chronological detection of trigger occurrences in component or crash tests as well as controlling the amperage in the cables in case of a crash.

Current and current pulse sensor

Type M705A...

Technical data	Type	M705A...
Measuring range (typ.)		
Overload 30 A (Type ...SI2)	A	±15
Overload 50 A (Type ...SI3)	A	±30
Overload 80 A (Type ...SI5)	A	±50
Overload 200 A (Type ...SI1)	A	±100
Sensitivity (typ. / min. / max.)		
at 10 V	mV/A	37 / 20 / 50
Wire diameter	mm	4,5 ... 5
Data sheet see www.kistler.com	**No.**	**M705_000-834**

Description

Chronological detection of trigger occurrences in component or crash tests as well as controlling the amperage in the cables in case of a crash.

Current and current pulse sensor

Type M715A...

Technical data	Type	M715A...
Measuring range (typ.)		
Overload 400 A	A	±300
Sensitivity (typ. / min. / max.)		
at 10 V	mV/A	12 / 8 / 15
Wire diameter	mm	13,5 ... 15
Data sheet see www.kistler.com	**No.**	**M715_000-896**

Description

Chronological detection of trigger occurrences in component or crash tests as well as controlling the amperage in the cables in case of a crash.

On-board measurement instrumentation – other sensors

Uniaxial, resistive webbing load cell

Type M51111A

Technical data	**Type**	**M51111A**	**M51111B**
Measuring range	kN	16	16
Sensitivity	µV/V/kN	130	130
Insulation resistance	GΩ	>10	>10
Weight	grams	76	70
Data sheet see www.kistler.com	**No.**	**M51111_000-759**	**M51111_000-759**

Description Measures seat belt forces during a crash test.

Off-board measurement instrumentation – multicomponent force systems

Small overlap barrier

Type 9661B40

Technical data	Type	9661B40
Measuring range, force meas. element		
F_x	kN	0 ... 500
F_y, F_z	kN	–100 ... 100
Calibrated range, force meas. element		
F_x	kN	0 ... 500
F_y / F_z	kN	0 ... –50[1)] / 0 ... 50[1)]
Calibrated partial range, F_x	kN	0 ... 200[1)]
Linearity (FSO), force meas. element	%	≤±1,0
Measuring range, corner element		
F_x	kN	0 ... 300
F_y, F_z	kN	–100 ... 100
Calibrated range, corner element		
F_x	kN	0 ... 250
F_y / F_z	kN	0 ... –50[1)] / 0 ... 50[1)]
Calibrated partial range, F_x	kN	0 ... 100[1)]
Linearity (FSO), corner element	%	≤±1,0
Operating temperature range	°C	0 ... 40
Natural frequency of crash force element alone		
F_x	Hz	≈4 000
F_y, F_z	Hz	≈1 700
Data sheet see www.kistler.com		**on request**

Description

A SmartCrash® overlap segment (650x1 000 mm) consists of 32 SmartCrash standard elements Type 9350B1 (125x125 mm) and of 8 SmartCrash corner elements Type 9359B1 (125x125 mm x R150). Its dimensions and the number of crash force elements can be tailored to the customer's technical requirements. With integrated DTI DAS.

Off-board measurement instrumentation – multicomponent force systems

Modular triaxial SmartCrash® barrier

Type 9655AQ...

Technical data	Type	9655AQ...
Measuring range		
F_x	kN	0 ... 500
F_y / F_z	kN	–100 ... 100
Dimensions (LxWxH) [1]	m	2x1x1,205
Rental possibilities		on request
Data sheet see www.kistler.com		**9655A_000-522**

Description

SmartCrash barrier with triaxial piezoelectric crash elements, each with integrated DTI DAS.

[1] Other sizes on request

Triaxial force plate for RCAR bumper instrumentation

Type Z20616

Technical data	Type	Z20616
Measuring range		
F_x	kN	0 ... 500
F_y / F_z	kN	**±200**
Dimensions (LxWxH)[1]	m	1,5x0,248x0,171
Data sheet see www.kistler.com		**on request**

Description

Triaxial RCAR bumper instrumentation with integrated charge amplifier and summaring data output of F_x, F_y and F_z. Can be easily mounted between front and rear structure element of the standard RCAR bumper. Integrated DTI DAS optional.

Triaxial force plate for RCAR/AZT crash shield for movable crash barriers

Type 9657A2Q

Technical data	Type	9657A2Q
Measuring range		
F_x	kN	0 ... 500
F_y / F_z	kN	±100
Dimensions (LxWxH)	m	1x0,5x0,188
Side corner radius r	mm	150
Top corner radius r	mm	50
Data sheet see www.kistler.com		**on request**

Description

Triaxial RCAR/AZT crash shield to instrument movable crash barriers (trolleys) with integrated charge amplifier and summing data output of F_x, F_y and F_z. Integrated DTI DAS optional.

In-dummy data acquisition systems – DAQ modules

DTI DiMod digitization module

Type DTI307.1

Technical data	Type	DTI307.1
Supply voltage	V	5,2 ... 6
Sensor supply	V	5 + 0,075/–0,125
Sensor input		instr. amplifier
Weight	grams	0,7
Dimensions (LxWxH)	mm	11x9x6
Data sheet see www.kistler.com	**No.**	**DTI307_003-081**

Description For integration into standard dummy sensors and load cells.

DTI DiMod digitization module

Type DTI307.1S

Technical data	Type	DTI307.1S
Supply voltage	V	5,2 ... 6
Sensor supply	V	5 + 0,075/–0,125
Sensor input		instr. amplifier
Weight	grams	0,7
Dimensions (LxWxH)	mm	22x8
Data sheet see www.kistler.com	**No.**	**DTI307_003-081**

Description For integration into standard dummy sensors and load cells.

DTI DiMod digitization module

Type DTI307.11

Technical data	Type	DTI307.11
Supply voltage	V	5,2 ... 6
Sensor supply	V	5 + 0,075/–0,125
Sensor input		instr. amplifier
Weight	grams	0,7
Dimensions (LxWxH)	mm	22x8
Data sheet see www.kistler.com	**No.**	**on request**

Description For integration into standard dummy sensors and load cells.

In-dummy data acquisition systems – DAQ modules

DTI DiMod digitization module

Type DTI307.3

Technical data	Type	DTI307.3
Supply voltage	V	5,2 ... 6
Sensor supply	V	5 + 0,075/–0,125
Sensor input		instr. amplifier
Weight	grams	1,4
Dimensions (LxWxH)	mm	10x10x10
Data sheet see www.kistler.com	**No.**	**DTI307_003-081**

Description For integration into standard dummy sensors and load cells.

DTI DiMod digitization module

Type DTI307.3S

Technical data	Type	DTI307.3S
Supply voltage	V	5,2 ... 6
Sensor supply	V	5 + 0,075/–0,125
Sensor input		instr. amplifier
Weight	grams	1,4
Dimensions (LxWxH)	mm	24,8x18,8
Data sheet see www.kistler.com	**No.**	**DTI307_003-081**

Description For integration into standard dummy sensors and load cells.

DTI DiMod digitization module with memory for free flight objects

Type DTI323.01

Technical data	Type	DTI323.01
Supply voltage	V	5,2 ... 6
Sensor supply	V	5 + 0,075/–0,125
Sensor input		instr. amplifier
Weight	grams	11
Dimensions (LxWxH)	mm	21x19x18
Data sheet see www.kistler.com	**No.**	**on request**

Description For free flight objects.

In-dummy data acquisition systems – DAQ modules

48-channel in-dummy data recording module

Type DTI304.04

Technical data	Type	DTI304.04
DTI pins		4
Measuring channels		48
Weight	grams	100
Dimensions (LxWxH)	mm	56x43x36
Data sheet see www.kistler.com	**No.**	**DTI304_003-063**

Description

Used in safety crash testing (direct assembling in crash test dummies together with the UPS power supply).

96-channel in-dummy data recording module

Type DTI304.08

Technical data	Type	DTI304.08
DTI pins		8
Measuring channels		96
Weight	grams	145
Dimensions (LxWxH)	mm	56x43x36
Data sheet see www.kistler.com	**No.**	**DTI304_003-063**

Description

Used in safety crash testing (direct assembling in crash test dummies together with the UPS power supply).

144-channel in-dummy data recording module

Type DTI304.12

Technical data	Type	DTI304.12
DTI pins		12
Measuring channels		144
Weight	grams	140
Dimensions (LxWxH)	mm	78x50x25
Data sheet see www.kistler.com	**No.**	**DTI304_003-063**

Description

Used in safety crash testing (direct assembling in crash test dummies together with the UPS power supply).

In-dummy data acquisition systems – DAQ modules

UPS power supply for DTI304.04

Type DTI304.04

Technical data	Type	DTI304.01
Supply voltage	V	36 ... 70
Accumulator		
Voltage	V	7
Capacity	mAh	360
Power	W	15
Data sheet see www.kistler.com	**No.**	**DTI304_003-064**

Description

Safety crash testing (direct assembling in crash test dummies together with data recorders).

UPS power supply for DTI304.08

Type DTI304.02

Technical data	Type	DTI304.02
Supply voltage	V	36 ... 70
Accumulator		
Voltage	V	7
Capacity	mAh	740
Power	W	30
Data sheet see www.kistler.com	**No.**	**DTI304_003-064**

Description

Safety crash testing (direct assembling in crash test dummies together with data recorders).

UPS power supply for DTI304.12

Type DTI304V.02

Technical data	Type	DTI304V.02
Supply voltage	V	36 ... 70
Accumulator		
Voltage	V	7
Capacity	mAh	740
Power	W	25
Data sheet see www.kistler.com	**No.**	**DTI304_003-064**

Description

Safety crash testing (direct assembling in crash test dummies together with data recorders).

In-dummy data acquisition systems – DAQ modules

48-channel in-dummy data recording module for Flex PLI with integrated UPS

Type DTI327.04

Technical data	Type	DTI327.04
DTI pins		4
Measuring channels		48
Weight	grams	120
Dimensions (LxWxH)	mm	84x42x19
Data sheet see www.kistler.com	**No.**	**DTI327_003-068**

Description Records data during freeflight phase and the following impact at the vehicle.

48-channel in-dummy data recording module for child dummies with integrated UPS

Type DTI327V.04

Technical data	Type	DTI327V.04
DTI pins		4
Measuring channels		48
Weight	grams	120
Dimensions (LxWxH)	mm	84x42x21
Data sheet see www.kistler.com	**No.**	**DTI327V_003-163**

Description Records data during freeflight phase and the following impact at the vehicle.

288-channel in-dummy data recording module for Thor (TH) with integrated UPS

Type DTI375.TH

Technical data	Type	DTI375.TH
DTI ports		24
Measuring channels		288
Weight	grams	714
Dimensions (LxWxH)	mm	97x63x134
Data sheet see www.kistler.com	**No.**	**DTI375_003-286**

Description Especially designed for recording measurement data in the Thor (TH) dummy.

nxt32 data acquisition module

Type K3870A

Technical data	Type	K3870A
Input voltage range	V	±2,5
Programmable gain		1 ... 10 000
Weight	grams	200
Dimensions (LxWxH)	mm	25x54x85
Data sheet see www.kistler.com	**No.**	**K3870A_003-012**

Description Acquisition module for simultanous data recording in crash testing applications.

On-board systems – KiDAU, KiHUB and KiTimer systems

KiDAU Advanced on-board DAQ

Type K3880C...

Technical data	Type	K3880C...
Input voltage, relating to –EXC	V	18/–5
Programmable gain		0,5 ... 10 000
Weight	kg	2,2
Dimensions (LxWxH)	mm	231x64x90
Data sheet see www.kistler.com	**No.**	**K3880C_003-117**

Description Modular designed on-board DAQ for crash tests.

KiDAU Classic / Basic on-board DAQ

Similar product image

Technical data	Type	K3881C...	K3882C...
Input voltage, relating to –EXC	V	18/–5	5/–2,5
Programmable gain		0,5 ... 10 000	1 ... 10 000
Weight	kg	2,2	1,26
Dimensions (LxWxH)	mm	231x64x90	210x64x65,5
Data sheet see www.kistler.com	**No.**	**K3881C_003-115**	**K3882C_003-116**

Description Modular designed on-board DAQ for crash tests.

KiHUB on-board adapter

Type K3879A...

Technical data	Type	K3879A...
Power consumption	W	18
Weight	kg	1,2
Dimensions (LxWxH)	mm	231x64x70,5
Data sheet see www.kistler.com	**No.**	**K387x_003-082**

Description Modular designed on-board adapter for crash tests.

KiHUB on-board adapter

Type K3879BQ0x

Technical data	Type	K3879BQ0x
Power supply	VDC	20 ... 60
Power consumption	W	20
Weight	kg	1,3
Dimensions (LxWxH)	mm	231x64x77,2
Data sheet see www.kistler.com	**No.**	**K3879BQ0x_003-303**

Description Modular designed on-board adapter for crash tests.

On-board systems – KiDAU, KiHUB and KiTimer systems

Digital event box

Type K3875A01

Technical data	Type	K3875A01	K3875A02
Connectors		Lemo	BNC
Operating temperature range	°C	0 ... 40	0 ... 40
Weight	kg	1,1	1,1
Dimensions (LxWxH)	mm	231x64x70,51	231x64x79
Data sheet see www.kistler.com	**No.**	**on request**	**on request**

Description Provides Lemo resp. BNC connectors for digital event signals.

Airbag timer KiTimer

Type K3889A

Technical data	Type	K3889A
Number of channels		16
Ignition power	A	2,0 (±0,15)
Ignition delay	ms	2,7 (±0,20)
Dimensions (LxWxH)	mm	231x138x97,5
Data sheet see www.kistler.com	**No.**	**K3889A_003-149**

Description Triggers airbag events in vehicle and sled crash tests.

Accessories

Accessories		
Trailing cable	Type	on request
WLAN platform	Type	on request
Quick modus KiDAU	Type	on request

Off-board equipment

Trigger star point

Type K3981B

Technical data	Type	K3981B
Number of channels		10 / 20
Input voltage range	V	85 ... 264
Input frequency	Hz	47 ... 63
Dimensions (LxWxH)	cm	31x48,3x13,3
Data sheet see www.kistler.com	**No.**	**K3981B_003-260**

Description

Non-ruggedized central trigger distribution hub for incoming and outoing Start of Record (SR) and T-Zero (T0) signals.

Wall box

Type K3980B

Technical data	Type	K3980B
Input voltage range	V	85 ... 264
Input frequency	Hz	47 ... 63
Dimensions (LxWxH)	cm	23x30x40
Data sheet see www.kistler.com	**No.**	**K3980B_003-257**

Description

Non-ruggedized wall mounted off-board box to connect the on-board measurement systems via trailing cable with the off-board part.

Airbag timer

Type TNA3889RA

Technical data	Type	TNA3889RA	TNA3889SA
Number of fire channels		4	4
Current recording resolution	mA	2,5	2,5
Voltage recording resolution	mV	25	25
Pulse timing delay	s	0 ... 100	0 ... 100
Data sheet see www.kistler.com	**No.**	**TNA3889RA_003-217**	**TNA3889SA_003-218**

Description

Stationary device developed specifically for airbag and pre-tensioning applications.

Crash test software

CrashDesigner and CrashDesigner Lite

		CrashDesigner	CrashDesigner Lite
Technical data	**Type**	**KKT-CDE...**	**KKT-CDL**
Supported database		Oracle, MySQL, SQL Server, Hypersonic, ...	no database required
Supported hardware		nxt32 in-dummy DAS systems; KiDAU Basic, Classic and Advanced and KiTimer systems; DTI in-dummy DAS systems; DTI Free Motion Heads; MINIDAU® Classic and MINIDAU® Advanced; Type K3789/K3789R Airbag timer 8 or 12 channels (with and without recorder module); TNA3889 stationary airbag timer 4 channels with recorder module; MICRODAU® based nxt in-dummy DAS systems; Kistler Trigger Star Points; Kistler Smart Barriers; 3rd party hardware (optional interface)	nxt32 in-dummy DAS systems; KiDAU Basic, Classic and Advanced and KiTimer systems; DTI in-dummy DAS systems; DTI Free Motion Heads; MINIDAU® Classic and MINIDAU® Advanced; Type K3789/K3789R Airbag timer 8 or 12 channels (with and without recorder module); TNA3889 stationary airbag timer 4 channels with recorder module; MICRODAU® based nxt in-dummy DAS systems; Kistler Trigger Star Points; Kistler Smart Barriers; 3rd party hardware (optional interface)
Licensing		via USB hardlock key or license file	via license file
Data sheet see www.kistler.com	**No.**	**KKT-CDE_003-004**	**KKT-CDL_003-151**

Description Crash test control software.

DeviceMaintenanceTool

Technical data	**Type**	**KKT-DMT**
Features		Locate equipment in network, manage network settings of equipment, perform software updates, manage device internal battery
Supported hardware		nxt32 in-dummy DAS system, KiDAU Basic, KiDAU Classic, KiDAU Advanced and KiTimer systems, DTI in-dummy DAS systems (recorders Types DTI304, DTI327 and 20 kHz DiMods Type DTI307; DTI Bordinterface Type DTI335.30; DTI Airbag Timer Type DTI328.16); DTI Free Motion Heads Type DTI323xx), DTI375 products, MICRODAU® based nxt in-dummy DAS systems, Kistler smart barriers
Data sheet see www.kistler.com	**No.**	**on request**

Description Device maintenance software.

Crash test software

DTImaps

Technical data	Type	DTIMAPS
Features		Check and modify TEDS of recorder and DiMods, live measurement data, measure & compare, check polarity
Supported hardware		DTI recorders (e.g. DTI304, DTI327, DTI375, DTI Crash Barriers), DTI DiMods, analog: 1-wire DS2431, ID module ENDEVCO standard
Licensing		via license file
Data sheet see www.kistler.com	**No.**	**on request**

Description DTI device configuration software.

As a system provider, Kistler supplies customers with complete solutions that accomplish their measurement tasks with optimum results.

Kistler's service – the best measure of success!

Good service is the critical factor in day-to-day customer relations. But for Kistler, good just isn't good enough. That's why we offer you something more: all-round service tailored precisely to your needs and requirements.

Commissioning by service technicians
Kistler's services certainly don't stop once you've purchased our sensors. Our experienced service technicians will come to your premises to ensure that your new Kistler system is optimally installed in your plant, connected and configured. After a short familiarization course, you can get started on your first measuring task!

Calibration with end-to-end documentation
Thanks to our calibration service, you can rest assured that Kistler sensors and systems are – and will remain – fully functional throughout their entire service lifetime: the basis for precise and reliable measurement results. What's more, each calibration is fully documented. On request, our measurement technology experts will also be glad to come and calibrate your equipment on your premises. With our calibration laboratories located in China, the USA, Japan and Germany (for Europe), we can offer a fast and straightforward recalibration service on site.

Engineering: custom solutions
As a system provider, Kistler supplies you with complete solutions that accomplish your measurement tasks with optimum results. Our specialists will be glad to work with you to develop new custom solutions that will deliver added performance in your test environment.

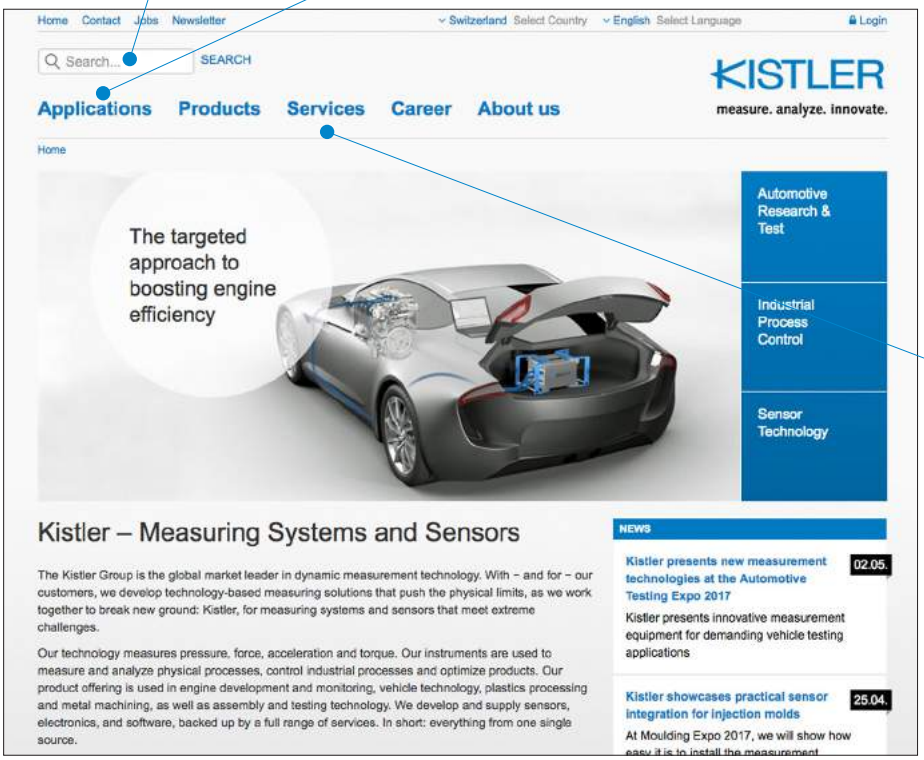
Kistler's services at a glance
- Commissioning
- Calibration
- Repairs
- Engineering / resident engineering
- Technical setup
- Onsite support
- Advisory and training

At our customers' service across the globe

Thanks to Kistler's global sales and service network, we are always close to our customers. Approximately 1 700 employees at 58 locations are dedicated to the development of new measurement solutions and offer customized on-site support of individual applications.

Data sheets and documents
Use our Online Search to download data sheets, brochures or CAD data.

Our representatives are here to help
Whether you would like a consultation or require support during installation – our website provides the contact information for your local representative.



Education and training events
Education and training courses, during which our sensors and measuring systems are explained by Kistler experts, are the most efficient way for you to obtain the required user knowledge.

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