



Dongguan Zhongli Instrument Technology Co., Ltd.

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We are Zhongli Instrument Technology Co., Ltd, an instrument Expert, Headquartered in Dongguan, Guangdong, China since 2007, specialized in manufacturing Lab testing equipments.

Throughout its more than 15 years of history, Our products have sold well in the Europe, America and Southeast Asia market and total more than 90 countries these years, especially favored by European and American countries.

Our equipments cover a wide range of industries, such as Safety helmet testing equipment, rubber and plastics industry, packaging industry, electronics industry, etc. and are suitable for all scientific research units, quality inspection institutions and academic fields.

The company has passed ISO9000 certification and multiple certifications by internationally renowned testing organizations such as BV, SGS, TUV, and its products comply with GB, ISO, ASTM, EN, JIS, TAPPI, ISTA, DIN, BS and other domestic and foreign standards.

In addition to standard machines, our R&D team can customize it for you. Just tell us your needs and we will make you satisfied.

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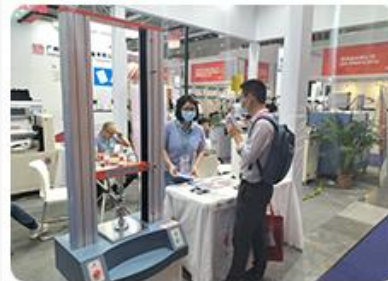
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Our Exhibition and Customer





东莞中力仪器科技有限公司

ZhongLi Instrument Technology Co., Ltd.



Safety Helmet Testing Equipment



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ZL-1801 Helmet Shock absorption and Resistance to penetration Tester

Meet standards: EN397 、 GB/T2812-2006、 GB 2811-2007

ECE、 EN、 ASTM、 JIS、 SNELLM2015、 AS/NZS 2063

Can be customized according to the above standards

Model	ZL-1801
Impact Hammers	Mass 5-5.01kg
Piercing Hammers	Mass 3-3.05kg, puncture section cone angle 60°, cone tip diameter 1mm, length 40mm, maximum diameter 28mm, hardness HRC45, material 45# steel
Sensor	Dynamic force sensor, range 0-20KN, sampling frequency 20kHz, sampling time 50ms, accurate to 1N, precision 1%.
Drop Height	1000mm±10mm adjustable
Head Mould	Weight 5.0±0.1kg
Power Supply	AC220V, 50Hz



ZL-1802 Safety Helmet Chin Strap Anchorages Lateral Deformation Tester

Meet standards: ECE R22.05、GB/T2812-2006、GB 2811-2007

ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063

Can be customized according to the above standards

Force range	0 to 1000N, accuracy 1%
Displacement range	0-500mm, accuracy 0.01mm
Timing range	0-99min, accuracy 0.1s
Artificial chin	Rigid shaft diameter 12.5mm±0.5mm, distance between two shafts 75mm±2mm
Drop hammer height	1000mm±10mm Adjustable.
Crossbeam speed	0-500mm/min at no load, infinitely variable speed adjustable. Easy and quick to adjust the position according to the safety cap. Test 150N/min, 20N/min, 100N/min etc. automatically switchable according to the test.
Lateral rigidity	Metal plate hardness 45HRC
Working power	AC220V , 50Hz



ZL-1803 Safety Helmet Anti-Static Tester

Meet standards: GB/T2812-2006, GB 2811-2007
ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063
Can be customized according to the above standards

Model	ZL-1803
Voltage Range	100V DC, 250V, 500V, 1000V available
Resistance Range	0.01M Ω - 200G Ω
Measurement Error	1%
Power Supply	DC: 8 x 1.5V (AA, R6) battery; AC: 220V/50Hz
Instrument Size	25 x 22 x 15



ZL-1804 Safety Helmet Electrical properties Tester

Meet standards: ISO 16073、 En 397、 GB/T2812-2006

ECE、 EN、 ASTM、 JIS、 SNELLM2015、 AS/NZS 2063

Can be customized according to the above standards

Model	ZL-1804
Voltage Range	0-5000V, self-adjustable, standard requirement 1200V±25V, indication error: 1%
Timing	0-99S, standard requirement is 15S, indication error: 1%
Current	0-2mA or 0-20mA, 1% tolerance
Probe	4mm diameter with hemispherical tip
Power supply	AC220V , 50Hz

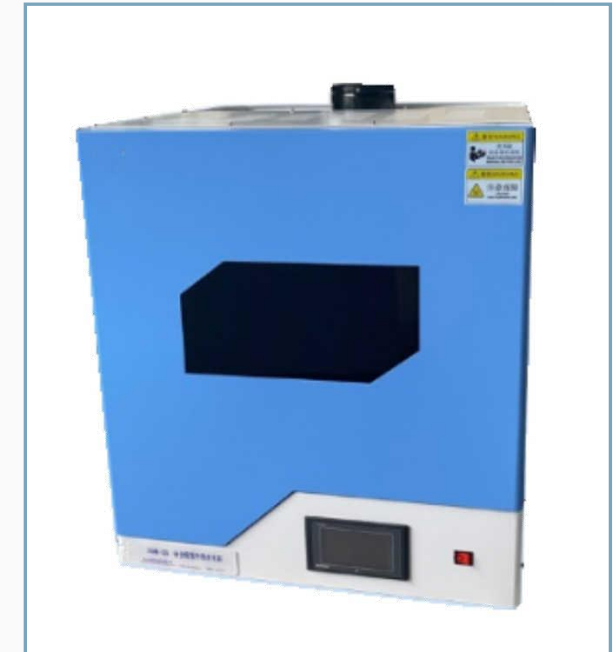


ZL-1805 Helmets UV Aging Tank

Meet standards: GB/T2812-2006, GB 2811-2007、ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063
Can be customized according to the above standards

Cooling Method	Air-cooled
Timing Range	0-999 hours
Number of Pre-Treated Safety Caps	1 - 14 caps
Working Power Supply	AC220V , 50Hz , 800W
Instrument Size	850×850×1350mm

UV light source	450W short pulse high pressure xenon lamp
Timing range	0-999 hours
Temperature range	0-200°C
Operating power supply	AC220V , 50Hz , 800W
Number of samples	1-7 helmets, spherical distributed construction



ZL-1806A Safety Helmet High Temperature Pre-Treatment Chamber

Meet standards: GB/T2812-2006, GB 2811-2007、ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063
Can be customized according to the above standards

Model	ZL-1806A
Test Temperature	50°C±2°C
Temperature Range	0~200°C, temperature control accuracy≤1°C
Time Range	0~99H, can be set by yourself, standard test time 3H
Number of Samples	0-6 top, can be customized according to the specific needs of customers
Operating Power	220V 50HZ 2KW



ZL-1806B Safety Helmet Very High Temperature Tester

Meet standards: GB/T2812-2006, GB 2811-2019

ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063

Can be customized according to the above standards

Test Chamber Temperature	Room temperature - 200°C, standard operating temperature 150±5°C
Number of tests	0-99 min, self-adjustable, 60±2 min standard
Number of tests	1-4 Tops
Head temperature	50°C±2°C
Test heads	Wall thickness > 1.5mm, size GB2812 of 1#, material aluminium alloy, internal hollow
Head temperature measurement points	Distance from the midpoint of the head mould <40mm
Instrument size	870*710*1100mm
Instrument power supply	220V 50HZ 2.8KW



ZL-1807 Safety Helmet Low and Constant Temperature Water Immersion Pretreatment Chamber

Meet standards: GB/T2812-2006, GB 2811-2007
ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063
Can be customized according to the above standards

Model	ZL-1807
Flood tank temperature	20°C±1°C
Low temperature	-20°C±1°C or -10°C±1°C selectable
Digital timer timing range	0~99.99 hours, automatic sound alarm prompt when time is up
Temperature setting range	-30°C ~ 30°C



ZL-1808 Safety Helmet Flame Resistance Tester

Meet standards: EN 397、GB/T2812-2006、GB 2811-2007
ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063
Can be customized according to the above standards

Model	ZL-1808
Flame height	50±2mm and equipped with a 50mm scale for flame height.
Flame-throwing head	Horizontally placed fuel nozzle with 10mm inner diameter
Fuel supply unit	Pressure regulating valve, gas volume regulating valve, gas storage tank device, can ensure the flame jet head stable spray 50mm length of blue flame.
Power supply	220V 50HZ 100W
Gas source	Industrial grade methane (customer supplied)



ZL-1810 Safety Helmet Vertical Distance and Wearing Height Tester

Meet standards: GB/T2812-2006、 GB 2811-2007
ECE、 EN、 ASTM、 JIS、 SNELLM2015、 AS/NZS 2063
Can be customized according to the above standards

Model	ZL-1810
Scale accuracy	0.1mm
Wearing height resolution	0.01mm
With height resolution	0.01mm



ZL-1811 Motorcycle Helmet Lateral Deformation Tester

Meet standards: GB811-2010

ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063

Can be customized according to the above standards

Model	ZL-1811
Force range	0 to 2000N, accuracy 1%
Displacement range	0-500mm, accuracy 0.1mm
Timing range	0-99min, accuracy 0.1s
Test speed	0-500mm/min at no load, infinitely variable speed adjustable Convenient to quickly adjust the position according to the size of the helmet. Loading 50N/min and unloading 100N/min during the test is automatically switched according to the test process.
Stiffness plate	Metal plate hardness 45HRC
Operating power	AC220V , 50Hz



ZL-1812 Helmet Peripheral Vision Meter

Meet standards: GB811-2010

Model	ZL-1812
Horizontal field of view left and right	$\pm 150^\circ$
Vertical field of view up and down	$\pm 90^\circ$
Field of view resolution	1°
Operating power	220V, 50Hz



ZL-1813 Helmet Strength of retention system Tester

Meet standards: NIJ 0104.02、GA294-2012、DOT218、GB811-2010
ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063
Can be customized according to the above standards

Model	ZL-1813
Force range	0 to 2000N, accuracy 1%
Displacement range	0-500mm, accuracy 0.1mm
Timing range	0-99min, accuracy 0.1s
Artificial chin	Rigid shaft diameter 25mm, distance between two shafts 75mm, shaft length 50mm
Crossbar speed	0-500mm/min at no load, infinitely variable speed adjustable. Easy and quick to adjust position according to helmet. Automatic switching according to the test specifics such as 113N/min for category A and 75N/min for category B during the test.
Working power	AC220V , 50Hz



ZL-1814A Motorcycle Helmet Resistance to penetration Tester

Meet standards: GB811、GB24429、GJB1564A
ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063
Can be customized according to the above standards

Model	ZL-1814A
Head moulds	Full head die with head weights of 4kg, 5kg and 6kg respectively.
Piercing steel cone	Made of tool steel, mass 3kg, hardness ≥ 50 HRC, cylinder with cone end diameter 25mm, cone tip radius 0.5mm, angle 60° , overall length > 40 mm.
Impact height	0-1000mm/15000mm/3000mm, optional



ZL-1814B Motorbike Helmet Impact Energy Attenuation Tester

Meet standards: GB811、GB24429、GJB1564A
ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063
Can be customized according to the above standards

Head moulds	Magnesium aluminium alloy full or half head mould, response frequency <1400HZ, resonance frequency \geq 2500HZ, weight 4kg, 5kg, 6kg (including transducers and connections etc.) (Optional)
Flat anvil	Made of T10A tool steel, impact roughness \geq Ra0.8, hardness \geq 50HRC, diameter 130 ± 3 mm, thickness \geq 15mm cylindrical impact surface.
Hemispherical anvils	Spherical impact surface made of T10A tool steel, impact roughness \geq Ra0.8, hardness \geq 50 HRC, radius 48mm.
Pavement stone anvils	Impact surface made of T10A tool steel, impact roughness \geq Ra0.8, hardness \geq 50 HRC, length 125mm-127mm, height 50mm-52mm, bevel angle 105 plus or minus 5°, bevel angle rounded, diameter 15 ± 0.5 mm.
Acceleration sensors	Single or triaxial sensors are available. Range 1-1000g, error 2.5%, frequency 0-1000HZ, band cut-off -4~-3.5dB, decay slope -9~-25Db/oct.
Impact height	0-2000mm, can be set by yourself
Impact velocity	0-20m/S real time detection of falling speed at fixed points and digital display



ZL-1815 Motorbike Helmet Goggles Impact Performance Tester

Meet standards: ECE R22.05、EN1077、GB811-2010
ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063
Can be customized according to the above standards

Model	ZL-1815
Perforator quality	0.3kg±10g
Perforator cone angle	60°±1°
Perforator cone tip radius	0.5mm
Drop hammer mass	3kg±25g
Impact height	1000mm±5mm
Weight of head die	4kg、5kg、6kg
Working power	220V 50Hz



ZL-1816 Motorbike Effectiveness of retention system Tester

Meet standards: EN1078、ECE R22.05、GB811-2010
ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063
Can be customized according to the above standards

Model	ZL-1816
Head weight	4kg、5kg、6kg
Initial weight	3±0.1kg
Weight of falling object	10±0.01kg
Fall height	0.5±0.01m
Fixed Pulley	Φ100mm
Pulley height	Above the head reference plane 600mm
Working power	220V 50HZ



ZL-1817 Safety Belt Integral Slip Tester

Meet standards: ASTM 、 ECE、 EN、 ASTM、 JIS、 SNELLM2015、 AS/NZS 2063

Can be customized according to the above standards

Model	ZL-1817
Column	Φ50mm
material	45#steel
The distance between the suspension point of the belt and the fixed hanging point	200~300mm
Equipped with anti-friction protection pad to effectively protect the test dummy	
Can be integrated with the overall dynamic load and static load of the safety belt.	



ZL-1818 Seat Belt Test Rubber Dummy

Meet standards: ASTM 、 ECE、 EN、 ASTM、 JIS、 SNELLM2015、 AS/NZS 2063

Can be customized according to the above standards

Model	ZL-1818
Simulator use	Specifically for overall dynamic load (impact) and overall static load testing of seat belts



ZL-1823 Safety Belt Abrasion Tester

Meet standards: ASTM D6770

ECE、EN、ASTM、JIS、SNELLM2015、AS/NZS 2063

Can be customized according to the above standards

Load	2.3±0.05 kg
Rollers	φ400 mm
Drive type	Motor driven
Test fixture	2 sets, 3 sets (depending on the size of the webbing)
Friction angle	85±2°
Test stroke	300±20 mm
Test speed	30±2 times/min
Counting method	LCD display
Hexagonal bar	6.35±0.03 mm, chamfer 0.5±0.1 mm
Volume	L800*W750*H1230mm
Weight	Approx. 260 kg
Power supply	AC220V,50Hz



ZL-1824 Helmet Splash Tester for Molten Metal Resistance

Meet standards: GB/T2812-2006、 GB 2811-2019
ECE、 EN、 ASTM、 JIS、 SNELLM2015、 AS/NZS 2063
Can be customized according to the above standards

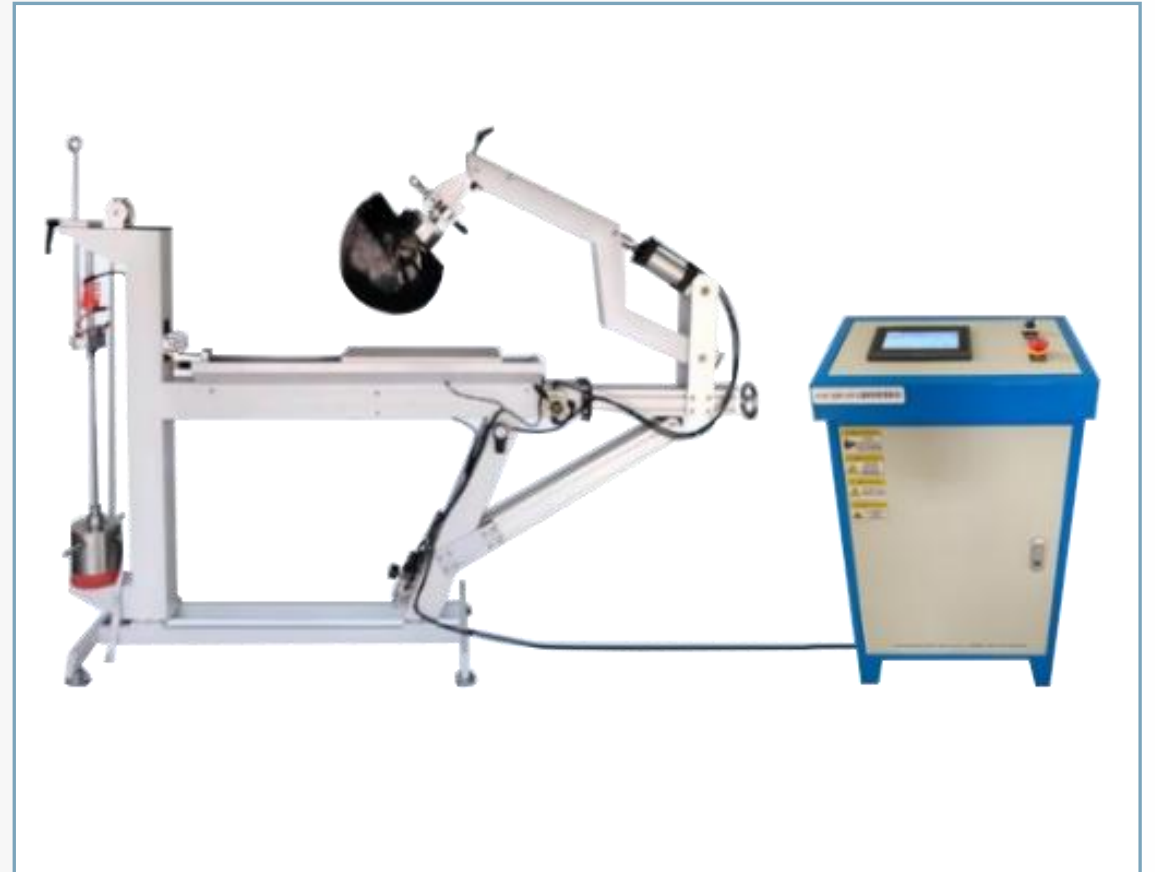
Model	ZL-1824
Dumping height	Standard height $225\pm 5\text{mm}$ and adjustable, adjustment space 100mm
Pouring temperature	0-1800°C, standard temperature $1400\pm 20^\circ\text{C}$
Molten metal	150±10g of iron content of not less than 93% of the iron parts, melted to liquid
Cooling method	Control system water-cooled cooling, test chamber air-cooled cooling
Instrument size	1250*750*1350mm
Instrument power supply	380V 50HZ 25KW



ZL-1825 Helmet Surface Projection Shear and Friction Tester

Meet standards: ECE R22.05 、 EN、 ASTM、 JIS、 SNELLM2015、 AS/NZS 2063
Can be customized according to the above standards

Model	ZL-1825
Friction sandpaper	Aluminium oxide coated sandpaper 300mm - 303mm long, grade 80
Steel cutter	6mm high and 25mm wide, with a 1mm radius chamfer on the top edge of the cutter
Impact weights	15kg - 15.5kg
Weight drop height	0-1000mm
Pre-loaded weights	400N-410N
Sensor range	0-120mm
Instrument power supply	220V 50HZ



Aluminum alloy full headform with EN960 standard

Meet standards: ECE R22.05 、 EN、 ASTM、 JIS、 SNELLM2015、 AS/NZS 2063
Can be customized according to the above standards





Packaging and Shipping

