

VEHICLE DYNAMICS AND DURABILITY



Standard mounting units

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Kistler - your system provider for vehicle testing

As a technology leader in the vehicle dynamics and durability testing market Kistler provides sophisticated system solutions for measuring the related forces, torques, motions/kinematics and accelerations.

This brochure shows a selection of the most important mounting units for use with Kistler measurement equipment in the field of vehicle dynamics and durability testing.

The mounting units shown on the following pages are examples of standard mounting units for cars. In addition to these we are able to provide standard mounting equipment for utility vehicles and also customized solutions if required.

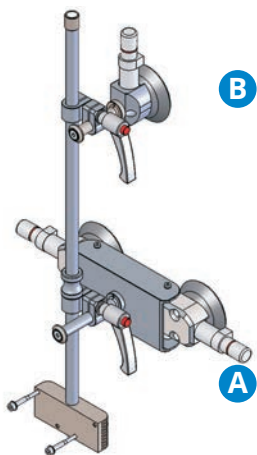
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Car body mounting

3-Point suction holder for HF sensor and KiMotion Racing

Mounting example



Type 18012595



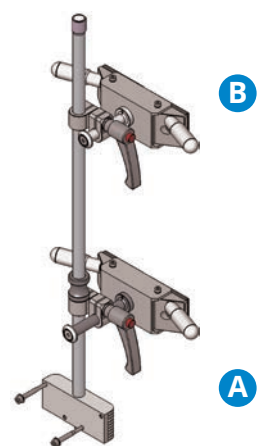
Description

The 3-point suction holder Type 18012595 for HF sensor and KiMotion Racing consists of the suction holder unit including the mounting rod and sensor mounting plate (A), plus a stabilizing element (B). It is suited for side mounting on the car body.

Together with the extension Type 18012564 (see page 6) you can also use it for vehicle front mounting.

8-Point magnetic holder for HF sensor and KiMotion Racing

Mounting example



Type 18012490



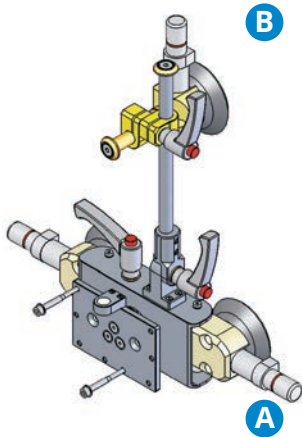
Description

The 8-point magnetic holder Type 18012490 for HF sensor and KiMotion Racing consists of the magnetic holder unit including the mounting rod and sensor mounting plate (A), plus a stabilizing element (B). It is suited for side mounting on the metal car body.

Together with the extension Type 18012564 (see page 6) you can also use it for vehicle front mounting.

3-Point suction holder for HF sensor, KiMotion Racing and L-/S-Motion

Mounting example



Type 18012551



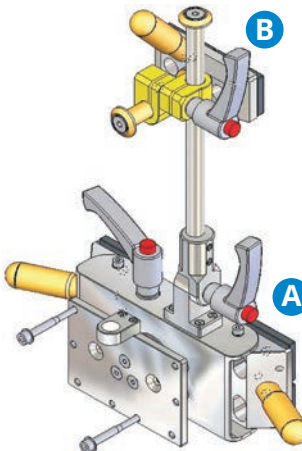
Description

The 3-point suction holder Type 18012551 for HF sensor, KiMotion Racing and L-/S-Motion consists of the suction holder unit including the mounting rod and sensor mounting plate (A), plus a stabilizing element (B). It is suited for side mounting on the car body.

For easy adjustment of the sensor, the top of the mounting plate is fitted with a liquid level indicator. You can install the suction holder either horizontal or vertical. An optional sensor mounting extension (Type 18012594) provides more flexibility regarding the mounting height. Together with the extension Type 18012564 (see page 6) you can also use it for vehicle front mounting.

6-Point magnetic holder for HF sensor, KiMotion Racing and L-/S-Motion

Mounting example



Type 18012545



Description

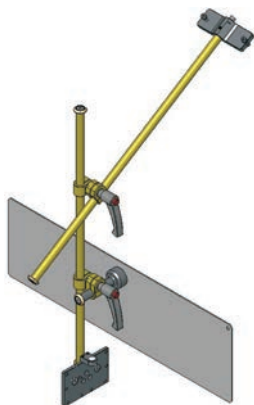
The 6-point magnetic holder Type 18012545 for HF sensor, KiMotion Racing and L-/S-Motion consists of the magnetic holder unit including the mounting rod and sensor mounting plate (A), plus a stabilizing element (B). It is suited for side mounting on the metal car body.

For easy adjustment of the sensor, the top of the mounting plate is fitted with a liquid level indicator. You can install the magnetic holder either horizontal or vertical. An optional sensor mounting extension (Type 18012594) provides more flexibility regarding the mounting height. Together with the extension Type 18012564 (see below) you can also use it for vehicle front mounting.

Extension with mounting plates for front mounting for HF sensor, KiMotion Racing and L-/S-Motion

Mounting example

Description



Type 18012564

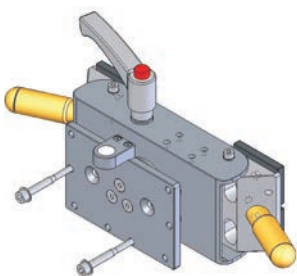


The extension with mounting plates Type 18012564 can be used with suction holders Type 18012595 or 18012551 and magnetic holders Type 18012490 or 18012545 to enable sensor mounting on the front of the vehicle.

4-Point magnetic holder for HF sensor, KiMotion Racing and L-/S-Motion

Mounting example

Description



Type 18012575



The 4-point magnetic holder Type 18012575 for HF sensor, KiMotion Racing and L-/S-Motion is designed for easy and quick mounting of HF laser height sensors on the metal car body.

For easy adjustment of the sensor, the top of the mounting plate is fitted with a liquid level indicator. You can install the suction holder either horizontal or vertical.

Car body/indoor mounting

Laptop car mounting for standard laptops



Type 18012508

Mounting example



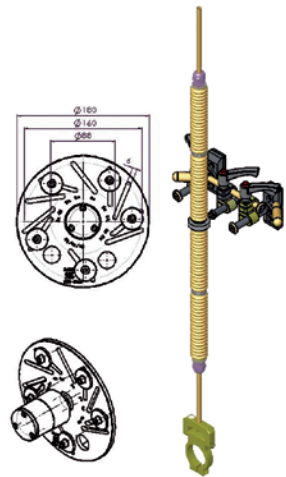
Description

The laptop car mounting kit includes a base, a stand, a swivelling arm, and a table top that can securely hold all types of laptops that are not exceeding 370 mm width. The adjustable laptop position provides optimal viewing angle. A retaining element to lock the Laptop on the mounting ensures best possible safety. Rubber dampers absorb damaging shock and vibration helping to prevent them from transferring to your laptop. The laptop's power supply can be stored safely underneath the laptop.

For further information please refer to separate data sheet KCD14539_000-921e.

Wheel mounting

Wheel mounting unit for DCA System



Type 55064168

Mounting example



Description

The DCA wheel mounting unit consists of a mounting disk (Type 55064168), a sensor mounting bracket for mounting the HF sensors (Type 18012546) and a torsion rod with suction holders (Type 18012571) for fixing the DCA system on the car body.

For easy adjustment of the sensors, the top of the sensor mounting bracket is fitted with a liquid level indicator. An optional mounting plate (Type 18012510) enables to mount a KiMotion Racing sensor for additional slip angle measurement.

Suction mount system for Wheel vector sensor RV-5



Type 18012519

Mounting example



Description

The RV-5 suction mount system is designed for safe, secure mounting on the vehicle hood and is proofed for all testing conditions. It consists of a stable mounting bar, suction cups with ball joints and aluminum clamps with locking levers. A ball joint on each suction cup element enables fast and accurate positioning of the suction mountings. The RV-5 mounting system is available as 4-point suction mount for use with one RV-5 sensor (Type 18012520) or as 8-point suction mount for use with two RV-4 sensors (Type 18012519).

Other wheel mount units for use of the RV-5 sensor in combination with other sensors are available:

- Wheel mount L-/S-Motion, 55065232
- Wheel mount KiMotion Racing, HF, 55065126
- Wheel mount WPT, 55065319

Wheel Pulse Transducer mounting hardware

Mounting example



Type 18012627



Description

The WPT mounting hardware Type 18012627 is designed to mount Kistler wheel pulse transducers Type CWPTA... on the vehicle. The wheel pulse transducer mounts to the wheel lug nuts via adjustable mounting collets. The torsional protection rod (which maintains rotation around the wheel axis) is affixed to the vehicle body with suction holders (standard) or magnetic holders (option).

Adaptions

Wheel mounting unit for DCA System



RoaDyn S625 WFT

Spare parts

Wheel mounting unit for DCA System



Type 18012403 – Mini suction unit, complete



Type 18012404 – Suction holder unit, complete

Clamps



Type 18012393 – Mounting for towing lug



Type 18012389 – Saddle clamp



Type 18012396 – Strip with flange clamp



Type 18012390 – Cross clamp



Type 18012388 – Clamp



Type 18012391 – Parallel clamp

Others



Type 18012395 – Safety line



Type 18012402- Tube ø25, l = 600 mm, including end plug
Type 18012401 – Tube ø25, l = 500 mm, including end plug
Type 18012400 – Tube ø25, l = 250 mm, including end plug
Type 18012399 – Tube ø25, l = 150 mm, including end plug

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