Bohnenstingl

Surveying Tools & Accessories

Computer Holders

Panasonic **FZ-G2** Trimble **T10** Trimble **T7**

Panasonic **FZ-G1** Trimble **TSC7** Trimble **T100**

Panasonic **FZ-M1** Leica **CS35** Leica **CS10/15/20**

Panasonic **CF-20** Leica **CC200** Leica **CS30**

Panasonic **FZ-A3** Leica **CC170** Microsoft **Surface Book 2**

Panasonic **CF-33** Leica **CC80** Getac **UX10**
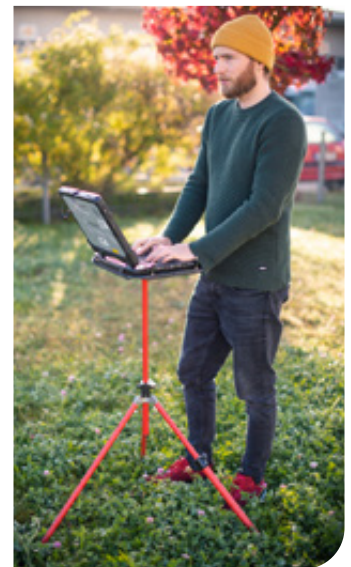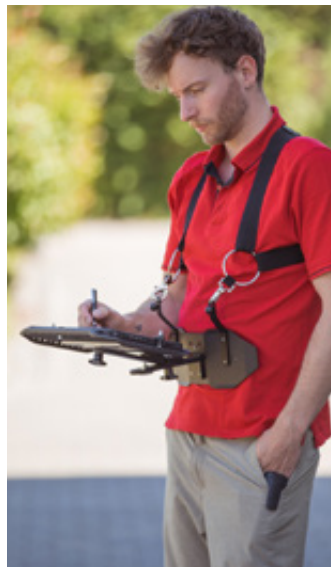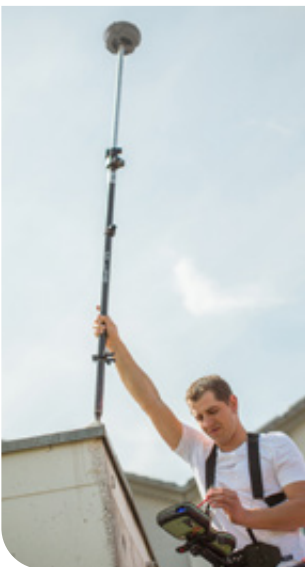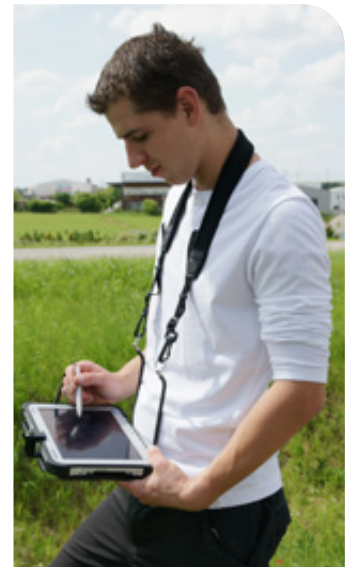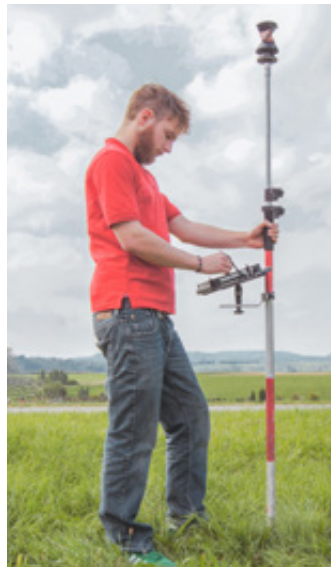
Getac **F110** Getac **T800**

Holder for Tablets & other devices

- Mounting options to pole or tripod
- Can be used with carrying systems (mobile)
- Efficient switching between different applications
- Protection of the computer by protruding holder

Holders specifically for certain computers

For computers frequently used in surveying, we offer custom holders designed specifically for use with the computer in question.

■ Panasonic

- Panasonic **FZ-G1**: page 4
- Panasonic **FZ-G2**: page 3
- Panasonic **FZ-M1**: page 6
- Panasonic **CF-20**: page 7
- Panasonic **FZ-A3**: page 13
- Panasonic **CF-33**: page 9

■ Trimble

- Trimble **T10**: page 5
- Trimble **T00**: page 22
- Trimble **T7**: page 22
- Trimble **TSC7**: page 20

■ Getac

- Getac **T800**: page 10
- Getac **F110**: page 11
- Getac **UX10**: page 12

■ Leica

- Leica **CS35**: page 4
- Leica **CS 10/15/20**: page 18
- Leica **CS30**: page 14
- Leica **CC80**: page 6
- Leica **CC170**: page 14
- Leica **CC200**: page 3

■ Microsoft

- **Surface Book 2**: Seite 10

Tablet-holders

Laptop-holders

Universal Holder System (ALOVAR)

Due to the large market diversity, we cannot offer a special computer holder for every type of computer. Our universal holders in different sizes, however, make it possible to accommodate almost any computer safely in a holder.

s. page 15

Smartphone Holder

Increasingly powerful smartphones are also becoming more and more relevant. The X-Grip mounts are fast, secure and can be used with our other accessories.

s. page 23

Accessories

Can be easily combined with our computer holders: Pole clamps, mobile carrying systems, adapters, tripods, connecting arms, ball heads, etc.

s. page 24

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prices do not include any taxes

Leica CC200

Holder for Panasonic FZ-G2 / Leica CC200

The FZ-G2/CC200 is inserted into the holder and fixed stably in seconds with a rotary lever and secured against falling out (see pictures below). Upside-down transport is also possible. All interfaces remain freely accessible, only the contact strip for the dokking station is covered.

- Black powder coated light metal shell
- Usable with **all battery types**, handstrap not usable
- Confirmed: Use with **Trimble- and Leica radio is possible**
- Use of camera function always possible
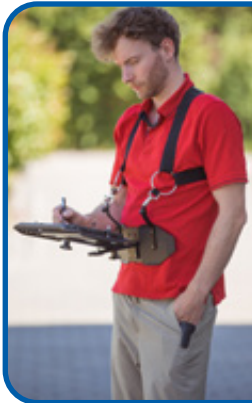- Holes to attach a RAM 1" or 1.5" ball
- Weight: 475 g

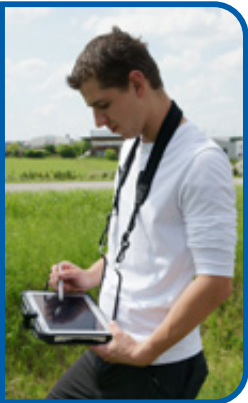| Description	Order-No.	Euro
Holder for Panasonic FZ-G2, with thread connections: **M8, 3/8"**	**5849**	184,-

INFO If you want to use the optional keyboard, the holder no. 5849 cannot be used. Instead, you can use the holder No. 5870.CF20 instead (only for exclusive use as a laptop).

Mobile

with carry easy mobile system

With holding brackets

Vehicle

Car mount

Pole / Tripod
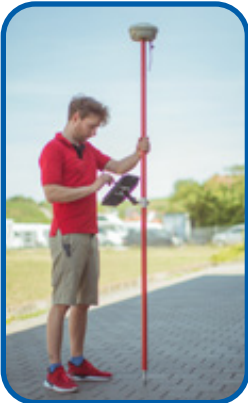
Pole clamp

Light Tripod

Easy Going tripod

Clamping Lever

Nach dem Einlegen wird der Rechner mit einem Klemmhebel fixiert.

RAM-Connection

Retrofit RAM ball:

Pen holder

Pen holder:

Table of contents

Print page

previous page

next page

step back

step forward

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Computer Mount: Panasonic FZ-G1 / Leica CS35

The FZ-G1/CS35 is inserted into the holder and can be fixed into it in a matter of seconds by using a rotary lever. It is then stable and secured against falling out. Transportation upside down is now also possible. All interfaces remain freely accessible, only the contact strip for the docking station will be covered.

- Black powder-coated light metal shell
- Can be used with the flat battery FZ-VZSU84U and the bigger battery FZ-VZSU88U
- Can be used with integrated Trimble- and Leica radios
- Use of the camera function always possible (cut-out is provided)
- Handstrap not usable
- Weight: 475 g

Description	Order-No.	Euro
Holder for Panasonic Fz-G1 / Leica CS35, threads **M8, 3/8"**	**5846**	184,-
Holder for Panasonic Fz-G1 / Leica CS35, with **RAM-1"-ball**	**5846.R**	184,-

Light Tripod
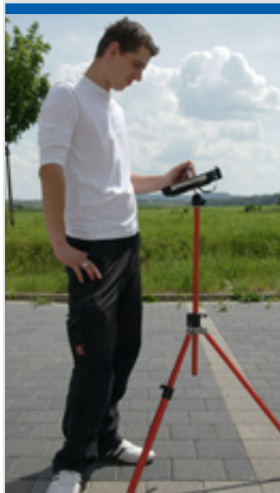
Easy Going Tripod

On poles or a tripod

Pole mount

Mobile
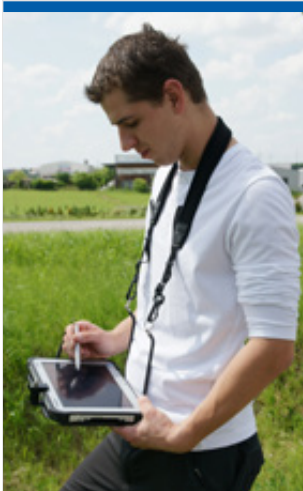
With holding brackets
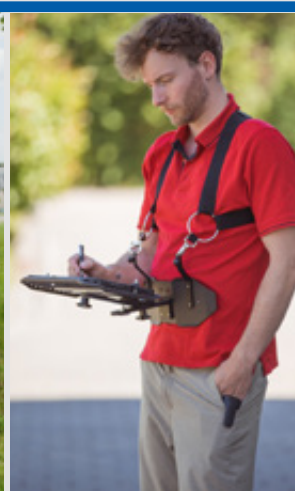
With Carry Easy System

In Vehicle

Car mount

Table of contents

Print page

previous page

next page

step back

step forward

Computer Mount for Trimble T10

The Trimble T10 is inserted on the holder and can be fixed to it in a matter of seconds by using a rotary lever. It is then stable and secured against falling out. Transportation upside down is now also possible. All interfaces remain freely accessible, only the contact strip for the docking station will be covered.

- Black powder-coated light metal shell
- Use of the camera function always possible (cut-out is provided)
- **Handstrap is usable**
- Weight: 475 g

optional pen holder,
s. page 44

Description	Order-No.	Euro
Computer holder for Trimble T10 with threads **M8, 3/8"**	**5846**	184,-

Mobile

With Carry Easy System
page 37
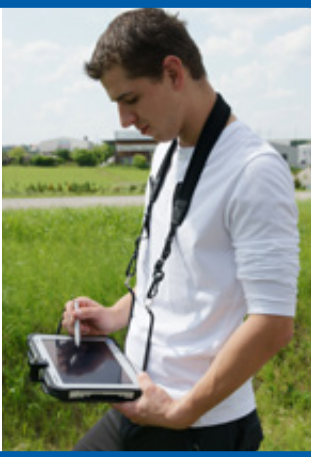
With holding brackets
page 35

On poles or a tripod

Pole mounts
page 25

Light Tripod

Easy Going Tripod
page 31

Vehicle

Car suction holder
page 42

RAM-Ball

Retrofitting RAM-ball,
page 45

Note: The pictures below show the Panasonic FZ-G1. An application with the Trimble T10 would be comparable. The same accessories can be used.

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Computer mount for Panasonic FZ-M1

The FZ-M1 is slipped into the holder from above and fixed in place and secured against falling out by an integrated pressure point. Even transportation upside down is possible. All relevant interfaces remain freely accessible.

• Black powder-coated perforated aluminium sheet with stable edge protection
• Two guide rails give the computer a secure hold
• Bottom-mounted RAM 1" ball for versatile applications
• Can be used with all available battery types

Description	Order-No.	Euro
Computer holder for Panasonic FZ-M1, with **RAM-Connection**	**5870.M1.R**	137,-

Underside

■ Integrated pen holder

For transport, the pen can also be deposited lengthwise in the guide.

Mobile
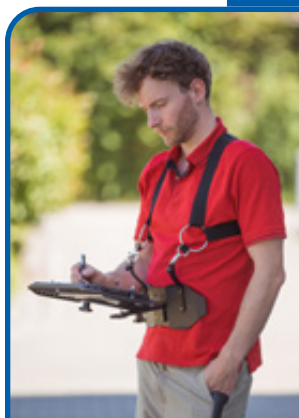
Carry Easy System
page 37

eyelets & neck strap
page 34

Light tripod
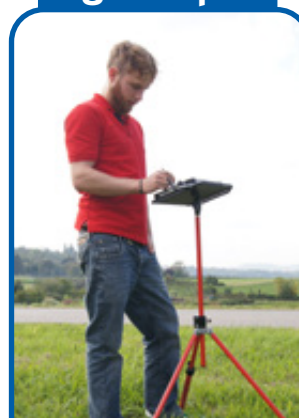
Easy Going tripod
page 31

On pole or tripod

Pole mount
page 25

In Vehicle

Car suction holder
page 42

Picture shows FZ-G1. However, the application is comparable.

Table of contents
Print page
previous page
next page
step back
step forward

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1

2

3

4

Mount for Panasonic Thoughbook CF-20

The Panasonic field computer can be used in 3 different variants:

- As a classic Laptop (Fig. 1)
- As a Tablet, using only the separated display-part (Fig. 2)
- As a Tablet, with the keyboard-party flipped below the display-part (Fig. 3)

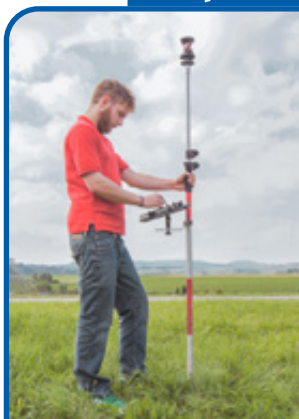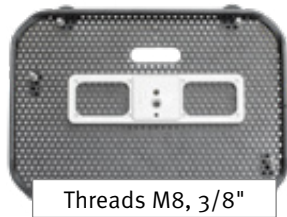Two clamping levers and two positioning pins fix the computer securely on the holder and allow it to be transported upside down. All relevant interfaces remain freely accessible. When using the display on the keyboard, the CF-20 and its holder can be carried like a bag with the handle integrated in the computer housing (Fig. 4).

■ Features

- Holds computer in all its variants
- Black powder-coated aluminium perforated plate
- Stable edge protection
- Cut-out for integrated camera
- Two clamping levers and two positioning pins to secure computer
- Weight: 520 g

Threads M8, 3/8"

Adapting the holder to the variants

To be able to use the CF-20 both with the lower part of the keyboard and only with the display, the holder has two variable positioning pins and a clamping lever.

■ Using the CF-20 with the keyboard

- Place disc with positioning pins backwards (Fig. 1)
- Rotate the clamping lever with the **side without orange marking** (Fig. 2) over the keyboard-housing

5

6

■ Using only the display-part as a tablet

- Turn disc with the pins towards the front until they stop at the computer housing (Fig. 3)
- Turn clamping lever **with orange** marking (Fig. 4) over the display-housing

7

8
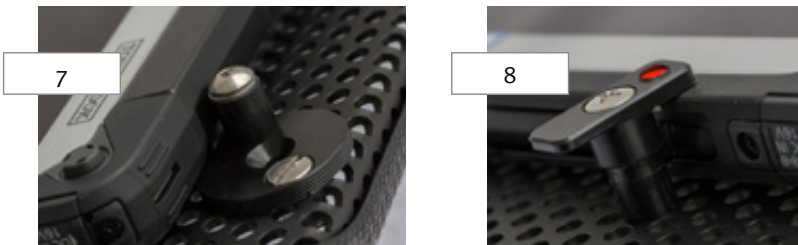
Description	Order-No.	Euro
Holder for Panasonic CF-20, with threads **M8, 3/8"**	**5870.CF20**	158,-

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■ **Accessories for Panasonic CF-20**

Mobile
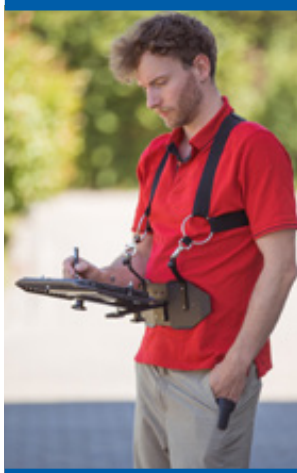
With Carry Easy system
page 37

With holding brackets
page 35

On pole or tripod

Pole mount
page 25

Light Tripod

Easy Going tripod
page 31

Vehicle

car suction holder
page 42
Image shows FZ-G1.
Application, however,
is comparable.

Pen holder

Pen holder
page 44

RAM-Ball

Retrofitting RAM-ball,
page 45

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Holder for Panasonic CF-33

The CF33 is inserted into the holder and fixed in place in seconds with **two clamping levers** and secured against falling out. A total of 4 clamping levers are attached. Two for securing the CF-33 as a tablet and the other two for securing the CF-33 as a laptop (attached diagonally).

Upside-down transport is also possible.
All relevant interfaces remain freely accessible.

- Black powder coated aluminum perforated plate
- Stable edge protection
- Connection options: M8, 3/8"
- 4 clamping levers for use of the CF33 in tablet or laptop function
- Holes for screwing on a 1.5" RAM ball

Description	Order-No.	Euro
Holder for Panasonic CF33, with threads **M8, 3/8"**	**5870.CF33**	160,-

Mobile
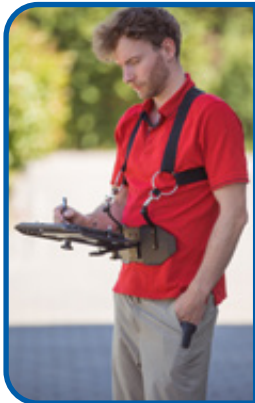
With Carrying System „Carry Easy"
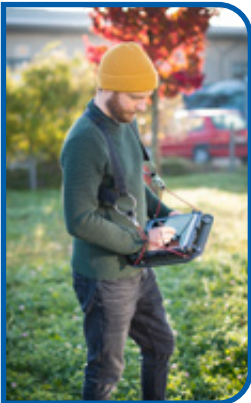
4-point-cord-adapter

Pole / Tripod
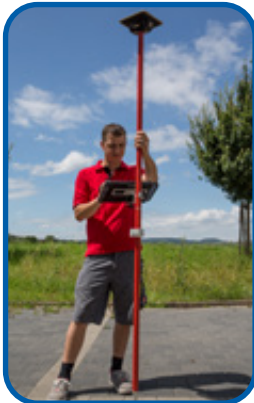
Pole mounts

Light Tripod
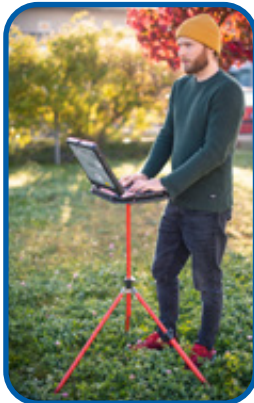
Easy Going Tripod

Vehicle

Car mounts
Picture shows FZ-G1.
Application comparable.

Clamping lever and adjustable positioning pin

A total of four clamping levers. Two diagonal ones each secure the CF-33 as a tablet and a laptop, respectively.

A variable positioning pin secures either tablet or laptop against slipping:
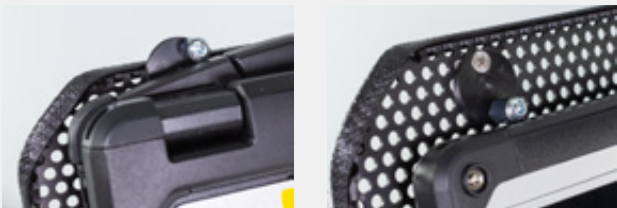
RAM 1.5" ball

Retrofitting RAM-1.5" ball:

Pen Holder

Table of contents

Print page

previous page

next page

step back

step forward

Computer Mount for Getac T800

The T800 is placed on four rubberized support points. Due to the shape of its housing the computer does not slip around on them. With two clamping levers, which can be rotated onto the display-casing, the computer is secured against falling out. Thefore a transportation upside-down is also possible. All relevant interfaces remain freely accessible.

- Black powder-coated aluminium perforated plate
- Sturdy edge protection
- Two lockable clamping levers give computer a secure hold
- The T800 can be used with or without snapback.
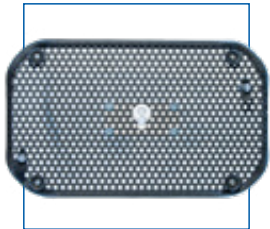
Description	Order-No.	Euro
Holder for Getac T800, with threads **3/8", M8**	**5870.T8**	128,-

pen holder, page 44

Mobile

eyelets & neck strap
page 34

On pole or tripod

pole mount
page 25

Light tripod

Easy Going tripod
page 31

Vehicle

car suction holder
page 42
Image shows FZ-G1. Application, however, is comparable.

RAM-Ball

Retrofitting RAM-ball,
page 45

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prices do not include any taxes

Computer Mount for Getac F110

The F110 is put onto the holder and can be locked in place with two clamping levers in a matter of seconds. It is then fixed in a stable way and secured against falling out. Transportation upside down is also possible.
All interfaces remain freely accessible.

- Black powder-coated aluminium per-forated plate
- Sturdy edge protection
- Two clamping levers give computer a secure hold
- Not compatible with Generation 6 and upwards

Description	Order-No.	Euro
Computer holder for Getac F110, with threads M8, 3/8"	**5870.F110**	160,-

pen holder, page 44
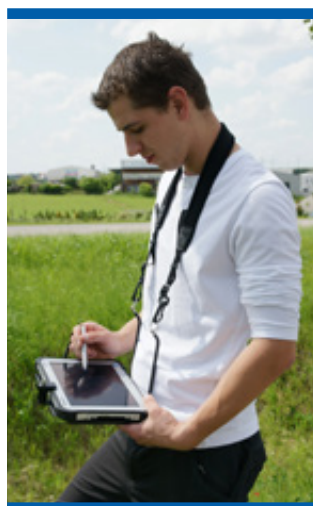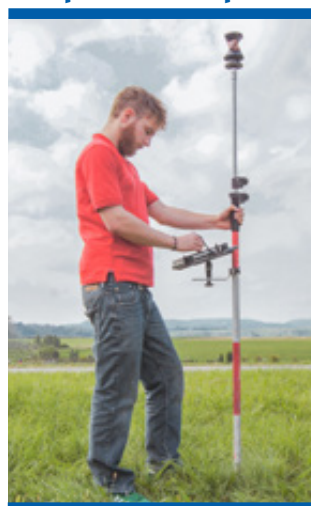
Mobile

With holding brackets
page 35

On pole or tripod

pole mount
page 25

Light Tripod

Easy Going tripod
page 31

Vehicle

car suction holder
page 42
Image shows FZ-G1. Application, however, is comparable.

RAM-Ball

Retrofitting RAM-ball,
page 45

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Holder for Getax UX10

The UX10 is inserted into the holder and is clamped with two levers within seconds Stably fixed and secured against falling out. Even a transport upside down is possible. All interfaces remain freely accessible.
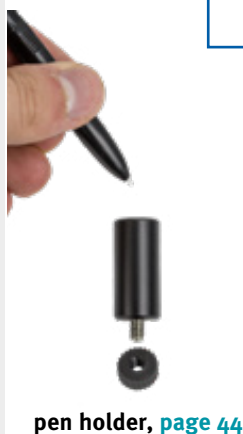
- Black powder-coated perforated aluminum sheet
- Stable edge protection
- Two lockable clamps give computer a secure hold
- Three positioning pins secure the computer from slipping
- Milled base plate with internal thread M8 and 3/8"
- **All battery types can be used with this holder!**
- Rear camera is covered by holder plate (can not be used)
- Weight: 525 g

Description	Order-No.	Euro
Holder for Getac UX10, with threads M8, 3/8"	**5870.UX10**	160,-

Mobile

With support brackets
page 35
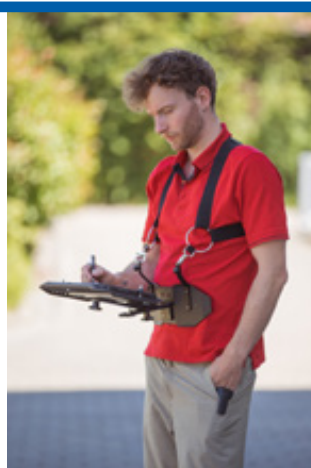
Ring eyelets & neck strap
page 34

Carry Easy „Fold"
page 37

Pen Holder

Pen Holder
page 44

Light Tripod

Easy Going Tripod,
page 31

On GNSS-Pole

Pole Holder,
page 25

In Vehicles

Car Holder
page 42

RAM-Connection

Retrofitting RAM 1" ball
page 45

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Table of contents

Print page

previous page

next page

step back

step forward
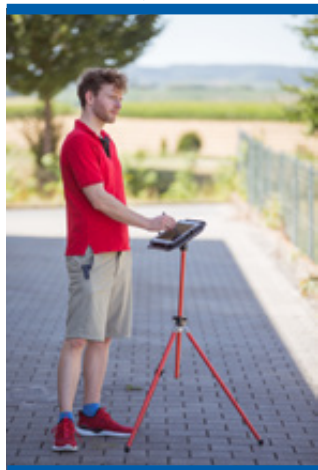
Holder for Panasonic FZ-A3

The A3 is inserted into the holder and is clamped with two levers within seconds Stably fixed and secured against falling out. Even a transport upside down is possible. All interfaces remain freely accessible.

- Black powder-coated perforated aluminum sheet
- Stable edge protection
- Two lockable clamps give computer a secure hold
- Three positioning pins secure the computer from slipping
- Milled base plate with internal thread M8 and 3/8"
- Holder can be used with all battery types
- Weight: 470 g

Description	Order-No.	Euro
Holder for Panasonic FZ-A3, with threads M8, 3/8"	**5870.A3**	160,-

Mobile

With support brackets
page 35
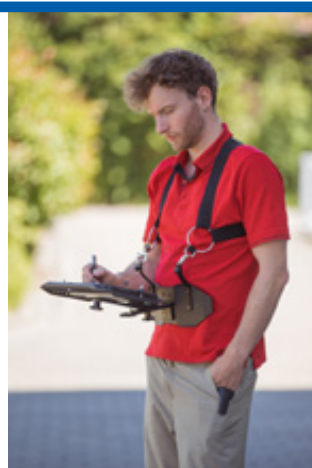
Ring eyelets & neck strap
page 34

Carry Easy „Fold"
page 37

Pen Holder

Pen Holder
page 44

Light Tripod

Easy Going Tripod,
page 31

On GNSS-Pole

Pole Holder,
page 25

In Vehicles

Car Holder
page 42

RAM-Connection

Retrofitting RAM 1" ball
page 45

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Table of contents

Print page

previous page

next page

step back

step forward

Holder for Leica CS30 / CC170

The CS30 / CC170 is inserted into the holder and fixed in place in seconds with **two clamping levers** and secured against falling out. Systematically attached support points prevent the unit from moving after it has been clamped in place. The support points leave enough space between the computer and the holder so **even the thick battery and the LRBT module have enough space**.

Upside-down transport is also possible.
All relevant interfaces remain freely accessible.

- Black powder coated aluminum perforated plate
- Stable edge protection
- Connection options: M8, 3/8"
- 2 clamping levers, 4 support points and 2 positioning pins

bottom side
(adapter plate)

Description	Order-No.	Euro
Holder for Leica CS30/CC170, thread connection: **M8, 3/8"**	**5870.CS30**	126,-

Mobile use
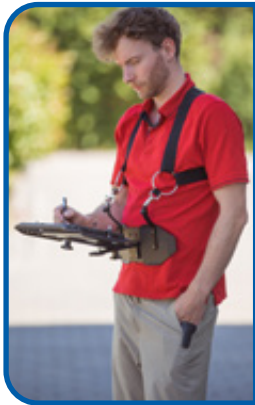
With „Carry Easy" carrying harness
page 37
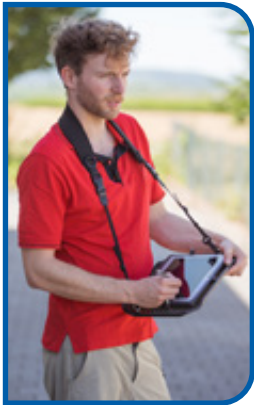
With eyelet adapter

Pole /Tripod
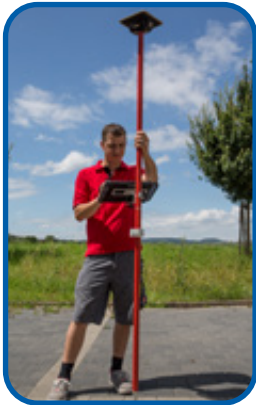
Pole mount
page 26

On light tripod

Easy Going tripod
page 31

In vehicle

Vehicle holder
page 42
Image shows Panasonic FZ-G1. Application comparable.

Clamping lever and positioning pin

Rubber support pins
(2 pc.)

Clamping lever
(2 pc.)

Support pin (2 pc.)
Also serves as slip protection

Positioning pin (2 pc.)
Prevents slipping
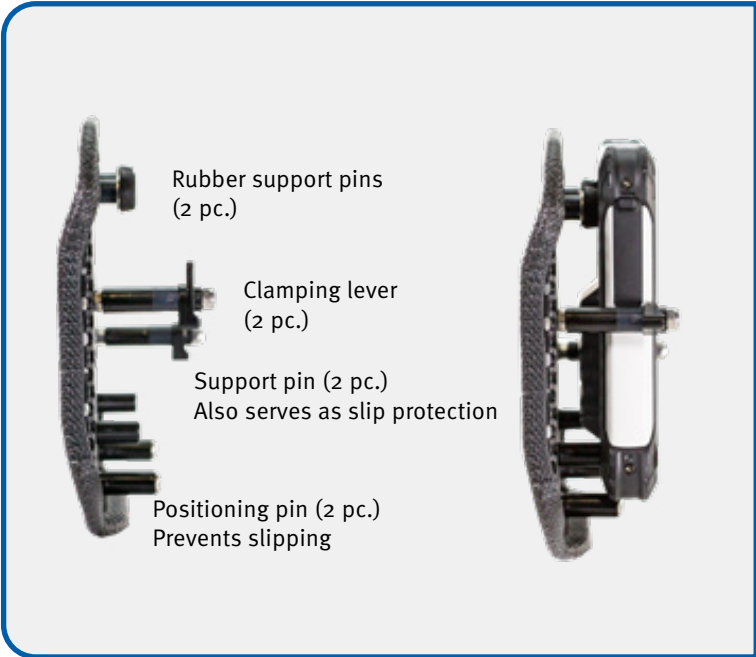
RAM 1" connection

Retrofitting a RAM-1" ball:
page 45

Pen holder

Pen holder: **page 44**

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prices do not include any taxes

Universal Holder ALOVAR

Small computers, laptops and tablets are also increasingly used in surveying. The standard mounts available for this purpose often do not meet the rough conditions of use in surveying.
Our ALOVAR series, specially designed for outdoor use, are stable and allow universal use with tripods, poles and carrying systems.

- High-quality holder made of aluminum: Stable and lightweight (powder-coated)
- The tablet computer is protected in the holding tray
- Stable edge protection
- Variable application possibilities due to threads or RAM connection options
- Adjustable clamping levers allow quick locking and guarantee secure hold (sold separately). See below.

ALOVAR **Base plates** see **page 16**

▪ Adjustable clamping levers

With (at least) two clamping levers, the computer is stably fixed in seconds and secured against falling out.
- Transport upside down is possible
- All interfaces remain freely accessible
- By repositioning plastic distance pieces the clamping levers can be adjusted for any height in 1-mm increments up to the max. height of the order number

Clamping levers see **page 16**

Mobile

With support brackets
page 35
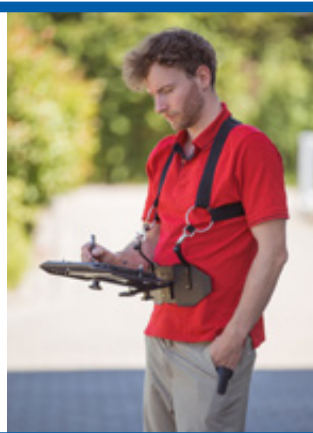
Ring eyelets & neck strap
page 34

Carry Easy „Fold"
page 37

Pen Holder

Pen Holder
page 44

Light Tripod

Easy Going Tripod,
page 31

On GNSS-Pole
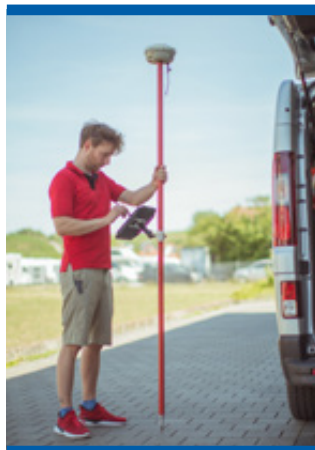
Pole Holder,
page 26

In Vehicles

Car Holder
page 42

RAM-Connection

Retrofitting RAM 1" ball
page 45

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prices do not include any taxes
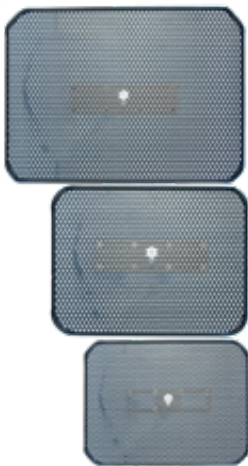
underside

underside (S1 & S2)

Determine suitable base plate for your computer
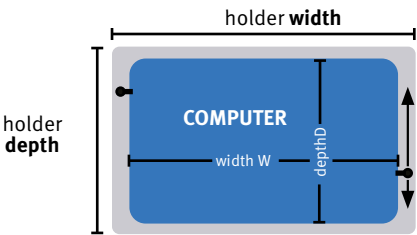
holder **width**

holder **depth**

COMPUTER
width W
depthD

The position of the clamping levers can be freely selected on the perforated plate so that all important inputs remain accessible.

The adapter plate offers connection options for M8 and 3/8" threads.

Type	for comp. up to max.		holder ALOVAR				
	width W	depth D	width	depth	weight	Order-No.	Euro
S2	242 mm	144 mm	285 mm	175 mm	315 g	**5870.S2**	108,-
S1	250 mm	190 mm	290 mm	215 mm	390 g	**5870.S1**	108,-
270	270 mm	220 mm	300 mm	230 mm	560 g	**5870.270**	116,-
320	320 mm	255 mm	350 mm	265 mm	660 g	**5870.320**	131,-
370	370 mm	280 mm	400 mm	300 mm	760 g	**5870.370**	147,-
420	420 mm	310 mm	450 mm	330 mm	875 g	**5870.420**	163,-

Determine suitable clamping levers for your computer

The computer is clamped at keyboard level for laptops or at display level for touchbooks/pads. By simply repositioning plastic sleeves, the clamping levers can be adjusted for any height in 1 mm increments up to the max. height of the order number. To determine the height H, please place the calculator on a flat surface.

example Laptop/Netbook

Keyboard level

Height H

Bottom of device
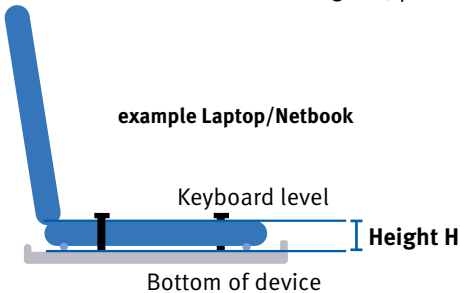
example Touchpad/Tablet
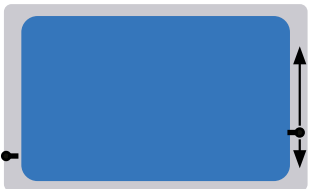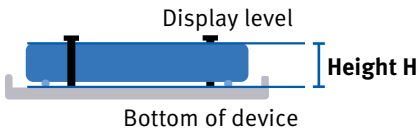
Display level

Height H

Bottom of device

Description	Order-No.	Euro
Clamping lever up to max. **17 mm**, 1 piece	**5870.K0**	9,50
Clamping lever up to max. **27 mm**, 1 piece	**5870.K1**	9,50
Clamping lever up to max. **37 mm**, 1 piece	**5870.K2**	9,50
Clamping lever up to max. **47 mm**, 1 piece	**5870.K3**	9,50
Clamping lever up to max. **57 mm**, 1 piece	**5870.K4**	9,50

The position of the clamping levers can be freely selected on the perforated plate so that all important inputs remain accessible.

INFO To securely fix the computer to the holder, you will need **at least two clamping levers**. The installation of the clamping levers is explained in detail in the instructions supplied.
Positioning pins can also be very helpful ().

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Holder for Microsoft Surface Book 2

The Surface Book 2 is inserted into the holder and fixed stably in seconds with **two clamping levers** and secured against falling out. The left clamping lever can be used to fix the Surface Book 2 as a laptop and as a tablet. The right clamping lever has two different noses with different clamping heights. One clamping height is intended for clamping device as a laptop and one for clamping the device as a tablet.

All relevant interfaces remain freely accessible.

- Black powder coated aluminum perforated plate
- Stable edge protection
- Connection options: M8, 3/8"
- Threads for attaching a 1.5" RAM ball
- Clamp lever **for use of Surface Book 2 in tablet or laptop** function

Description	Order-No.	Euro
Holder for Microsoft Surface Book 2, with threads **M8, 3/8"**	**5877.MS01**	163,-

Mobile
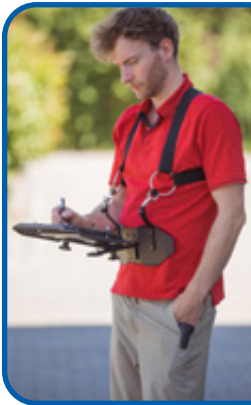
With Carry Easy mobile system **page 37**
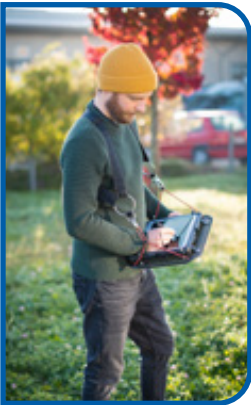
With 4-point Cord belt adapter **page 36**

Light Tripod

Easy Going tripod **page 31**

Clamping lever, positioning pins & camera cut-out

Clamping levers on the right and left of the laptop/tablet Secure the device against from falling out and slipping. Two stop pins provide additional support.

Two additional positioning pins fix the device at the rear.
A cut-out allows taking pictures when the tablet is inserted into the cradle.

RAM 1.5" ball

Retrofit RAM-1.5" ball, **page 45**

Pen Holder

Pen holder, **page 44**

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Extends application range!

Adapter plate: Leica-Controller Nova CS10, 15, 20

For use of the controller with other accessories e.g. carrying holder, tripod etc.

There are two ways to screw on the adapter plate.
Instructions on the next page, page 19.

- Aluminium, black anodized
- Weight: 100 g

Description	Order-No.	Euro
Adapter plate for Leica Viva CS10, CS15, CS20 incl. fixing screw	**5272**	86,-

M8 (common thread for all application examples below)

Holes for mounting on the controller

M5 threads for mounting RAM adapters

3/8" for mounting on photo threads

1/4" adapter **page 189**

Examples of use

■ **Lightweight tripod „Easy Going"**

For longer use in the same measuring range, the controller does not always have to be worn on the body. It can be operated very easily on the lightweight stand, leaving your hands free.

■ **On GNSS-/ prism pole**

With the adapter plate, you can also use our established Bohnenstingl pole clamps, as an alternative to the Leica pole clamp.

■ **Mobile use with „Carry Easy RAM"**
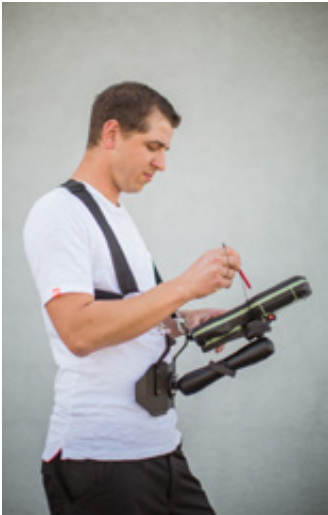
The belly support is equipped with a RAM 1.5" ball. A 1.5" ball is also screwed to the adapter plate.
With the RAM double joints a universal adjustment of the controller is possible.

■ **Mobile use with „Carry Easy Fold"**

The **„carry easy Fold"** holder has a hinge attached to the belly support. This allows for optimal adjustment and folding of the computer.

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Instructions for adapter plate: Leica-Controller

The adapter plate is suitable for mounting the following controllers:

• **Leica GHT62** for Nova CS 10 and 15
• **Leica GHT66** for Nova CS 20

The 2 possibilities of installation:

(pictures show the assembly for the GHT66, for the GHT62 it is done the same way)

■ Screw directly onto the controller holder GHT62 or GHT66

Loosen the M4 star grip screw and remove the crossbar for pole connection

Screw on the adapter plate with enclosed flat head screw M4x16 mm

■ Screw onto the crossbar for pole connection

If, in addition to the applications with the adapter plate, parallel use of the original Leica pole clamp is to remain possible, the crosshead must not be removed. However, the crosshead must then be provided by us with 4 threaded holes for screwing on the adapter plate. This does not affect the function and stability.

Screw on the traverse with the enclosed flat head screw M4x16 mm instead of the original star grip screw

Fasten the adapter plate to the 4 additional drill holes using flat head screws M4x10 mm

Please inquire if required and send us the truss.
4 flat head screws M4 x 10 mm are supplied with the return shipment.

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Table of contents

Print page

previous page

next page

step back

step forward

Adapter plate for Trimble-Controller TSC 7

3/8"

M8

M5 threads to mount RAM-balls to

Bore holes to mount controller to

For use of the TSC 7 with further accessories e.g. carrying bracket, tripod etc.

There are two ways to screw on the adapter plate.
Instructions **see next page, page 21.**

• Aluminium, black anodized
• Weight: 110 g

Description	Order-No.	Euro
Adapter plate for Trimble TSC 7, incl. 4 fixing screw M4 x 10 mm	**5832**	68,-
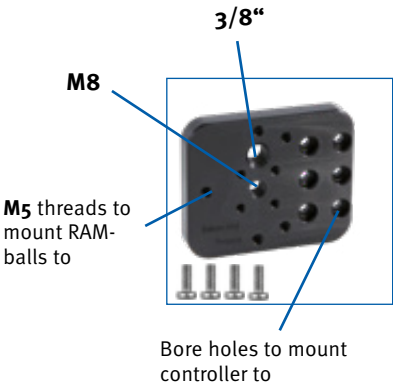
Examples of use

■ Lightweight tripod „Easy Going"

page 31

For longer use in the same measuring range, the controller does not always have to be worn on the body. It can be operated very easily on the lightweight stand, leaving your hands fr

■ With GNSS-/ prism pole
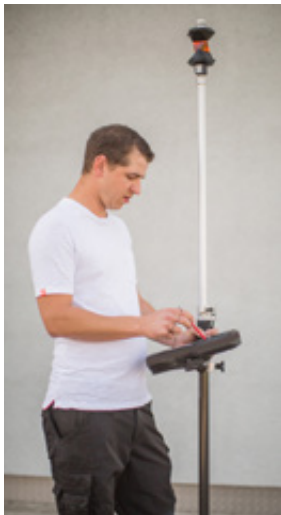
page 25

With the adapter plate, you can also use our established Bohnenstingl pole clamps, as an alternative to the Trimble pole clamp.
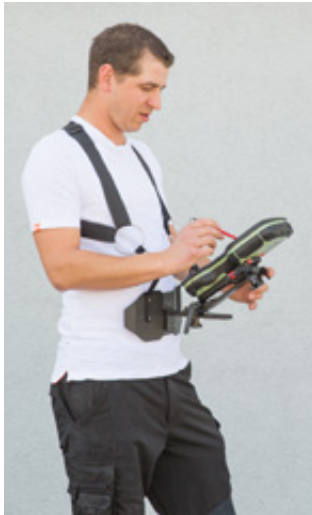
■ Mobile use with „Carry Easy RAM"
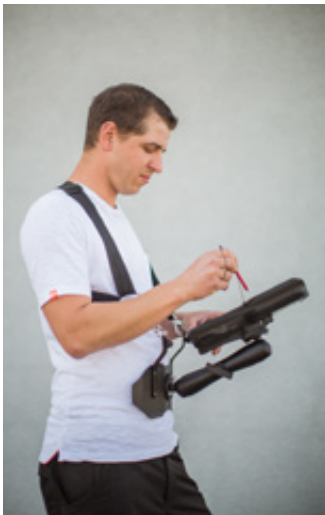
page 40

The belly support is equipped with a RAM 1.5" ball. A 1.5" ball is also screwed to the adapter plate.
With the RAM double joints a universal adjustment of the controller is possible.

■ Mobile use with „Carry Easy Fold"
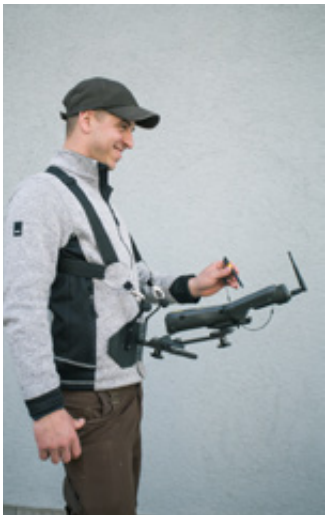
page 37

The „**carry easy Fold**" holder has a hinge attached to the belly support. This allows for optimal adjustment and folding of the computer.

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prices do not include any taxes
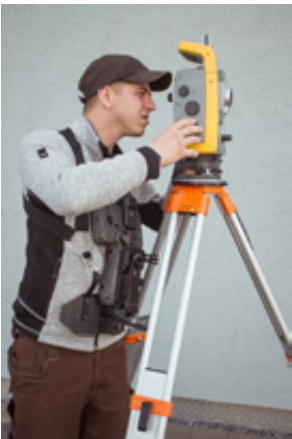
Table of contents

Print page

previous page

next page

step back

step forward

Instructions for Adapter Plate: Trimble TSC 7

The adapter plate is mounted on the Trimble pole holder for the TSC 7

There are 2 possibilities of installation:

■ Screwed directly onto controller holder (without crossbar)

Loosen the factory-fitted M4 screws .

Remove the pole connection crossbar.
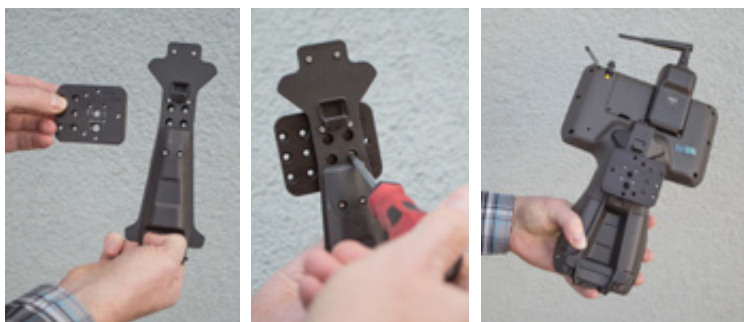
Screw on the adapter plate with the enclosed 4 flat head screws M4x10 mm.

■ Screw onto the pole connection crossbar

In addition to the applications with the adapter plate, parallel use of the original Trimble pole clamp remains possible. The only requirement is a crossbar that has four additional M4 threaded holes (made by the factory-side), in addition to the required holes. If necessary, contact your Trimble dealer!

Then the adapter plate can also be screwed in directly.

Fasten the adapter plate to the 4 additional threaded holes using the enclosed M4x10 mm flat head screws.

prices do not include any taxes

Adapter for Trimble Spigot Ø1/2" to M8

Trimble has a unique quick-change system that uses a 1/2" dia. bolt attached to the field computer/controller holder.

With the **adapter Ø 1/2" - M8**, the accessories from Bohnenstingl can also be used. The adapter is plugged onto the Trimble bolt Ø 1/2" and secured by a horizontal screw with star grip. The **inner M8 thread** is used to connect to our accessories, such as holders for poles, tripods and carrying systems (see below).

- Adapter made out of aluminium (anodized)
- Weight: 72 g

M8

Ø0.5"

Description	Order-No.	Euro
Adapter for Trimble Spigot/bolt Ø1/2" to **M8**	**5833**	50,-

INFO Trimble mounts with 1/2" bolt diameter are available for the TSC7, T7 and T100 (see below). For other available models, please contact your Trimble dealer. The bolt can also be retrofitted if necessary.

■ **Trimble T7**   ■ **Trimble TSC7**   ■ **Trimble T100**

+ + M8

Mobile

Pole / Tripod
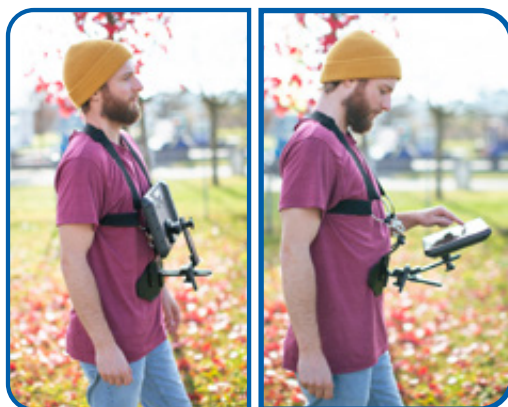
Light Tripod

With carrying system „Carry Easy"
page 37

Pole mount
page 25

Easy Going tripod
page 31

Smartphone Holder RAM X-Grip

Holders for the secure mounting of smartphones on poles.

To insert the device, the holding clamp is pressed slightly open by hand. An integrated tension spring exerts constant and even pressure on the housing of the smartphone via four rubberized support points. To remove the device, the X-clip is slightly pressed apart again.

- With 1" RAM ball on the back
- Including rubber pad, which can be optionally attached as an additional safety feature to prevent the device from falling out (see below)
- Integrated tension spring
- 4 rubberized retaining claws
- Available in two sizes

Description	Order-No.	Euro
Smartphone Holder X-Grip: For **devices width up to 82 mm**	**5861**	52,–
Smartphone Holder X-Grip: For **devices width up to 114 mm**	**5862**	55,–

■ Rubber pad as additional protection

Under extreme circumstances (e.g. use of the holder on/in vehicles, strong vibrations etc.) it may be useful to use the rubber pad supplied with the unit. It is put over the retaining clip from behind. Then the rubber slings are pulled over the 4 corners of the smartphone (see picture). Thus the Smartphone is additionally protected from falling out.

■ Accessories

Basically, any suitable RAM accessory can be connected to the rear 1" RAM ball. If the Smartphone is to be used as compactly as possible on a rod, we recommend the combination of the very short double joint 4805.05 and the universal pole clamp 4810.1 below.

Description	Order-No.	Euro
RAM double socket for 1" ball connection, 50 mm	**4805.05**	23,-

For other lengths of the double socket, as well as other RAM connection possibilities .

Description	Order-No.	Euro
Pole clamp **Ø 18 to 32 mm**, with RAM 1"-ball	**4810.1**	79,-

Pole clamps for other diameters or exclusively Ø32 mm: .

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prices do not include any taxes

Accessories for Computer Holders

After choosing the right computer holder, you need to find the right accessories. Do you like to have the calculator with you on a pole, on an extra tripod or mobile with a carrying system? Our accessories guarantee a quick change between all application areas.

■ On the pole or on the tripod leg

Thread or RAM ball make it possible to connect the computer to a pole holder. Pole mounts are available with clamps from Ø18 to Ø40 mm.

Pole solutions for special holders **s. page 25**
Pole solutions for universal holders & smartphone mounts **s. page 26**

■ On light tripod „easy going" or other tripods

Each computer mount has a thread or RAM ball on the back. Combined with an adapter, the computer can be placed on any tripod. Our lightweight tripod „easy going" was specially developed for use in the field.

Tripod solutions **s. page 31**

■ Mobile use with carrying systems

In the field, working with a light tripod or a holder attached to the pole is not always the best solution. If you want to be as mobile as possible, a carrying system in which the computer is worn on the body is a good choice.
Please refer to the overview to find out which carrying system is suitable for your holder:

Carrying systems **s. page 32**

■ Use in vehicle

Our suction mounts are simply attached to the windshield similar to a navigation system.

Suction holder for cars **s. page 42**

■ With hook for hanging on instrument tripod

A classic instrument tripod offers the possibility of simply attaching the computer holder to the metal tabs on the tripod plate using a hook. An additional joint offers the possibility to adjust the angle. In addition, the computer can also be optimally positioned on the desk in the office.

Hook and joint suppor **s. page 43**

■ Other accessories

- Mouse tray   **s. page 44**
- Pen holder   **s. page 44**
- Positioning pins   **s page 44**
- 3/8" to 1/4" adapter   **s. page 44**
- Tripod leg clamp   **s. page 48**

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■ Computer holders for specific computer types: Clamping to poles or tripod legs

Panasonic / Leica						Getac			Trimble	
Panasonic **FZ-G2**	Panasonic **FZ-G1** Leica CS35	Panasonic **FZ-M1**	Panasonic **CF-20**	Panasonic **FZ-A3**	Leica **CS 10/15/20**	Getac **F110**	Getac **T800**	Getac **UX10**	Trimble **TSC7**	Trimble **T10**

| with thread No. **5849** 184,- page 3 | with thread No. **5846** 184,- page 4 | only with RAM-connection available | with thread No. **5870.CF20** Rechner_CF-20 page 7 | with thread No. **5870.A3** 160,- page 13 | with thread No. **5272** 86,- page 18 | with thread No. **5870.F110** 160,- page 11 | with thread No. **5870.T8** 128,- page 10 | with thread **5870.UX10** 160,- page 12 | with thread No. **5832** 68,- page 20 | with thread No. **5847** 184,- page 5 |

| | with RAM-ball No. **5846.R** 184,- page 4 | with RAM-ball No. **5870.M1.R** 137,- page 6 | | | | | | | | |

| only with thread connections available* | | | only with thread connections available* | only with thread connections available* | only with thread connections available* | only with thread connections available* | only with thread connections available* | only with thread connections available* | only with thread connections available* | only with thread connections available* |

RAM-1"-ball to retrofit
No. **5175** • 14,-
page 45

RAM 1.5" Systems
page 45

1/4" Thread adapter
page 44

*) With the RAM-1" ball all holders with threaded connection can also be adapted to the RAM-ball-system/accessories

Ball head M8, star screw
No. **5081.3** • 56,-
page 27

RAM Mount, star screw
No. **4800.M8S** • 58,-
page 27

RAM double joint
various lengths
page 46

Slotted pole clamp
No. **5020.18** • 79,-
page 27

Pole clamp, with RAM-1"
No. **4810.1** • 79,-
page 28

On pole with slotted crossbar

On pole with RAM joint

prices do not include any taxes

■ **ALOVAR Universal computer holders and smartphone mounts: Attachment to pole and tripod legs**

Universal Holders S1, S2, 270, 320

with thread
No. **5870.S2** • 108,-
page 16

with thread
No. **5870.S1** • 108,-
page 16

with thread
No. **5870.270** • 116,-
page 16

with thread
No. **5870.320** • 131,-
page 16

Smartphone Holders

with RAM ball
No. **5861** • 62,-
page 23

with RAM ball
No. **5862** • 65,-
page 23

Universal Holders 370, 420

Due to the large width and depth of the ALOVAR-370 and 420 holders, they are not compatible with pole holders at all or only to a limited extent.

with thread
No. **5870.370** • 147,-
page 16

with thread
No. **5870.420** • 163,-
page 16

RAM-1"-ball to retrofit
No. **5175** • 14,-
page 45

ball head M8
No. **5081.3** • 56,-
page 27

RAM mount with M8
No. **4800.M8S** • 58,-
page 27

Slotted crossbar with pole clamp
for various pole-Ø
page 27

On pole/tripod with slotted crosshead

RAM-1"-ball to retrofit
No. **5175** • 14,-
page 45

RAM double joint
various lengths
page 46

Length recommendations:
5861/5862: 4805.05
5870.S1/.S2/.270: 4805.08
5870.320: 4805.14

Pole clamp with RAM-ball
for various pole-Ø
page 28

On pole/tripod with RAM joint

RAM 1.5" Systems
page 45

1/4" thread adapter
page 44

prices do not include any taxes

Long hole beam with pole clamp

- The slotted hole beam allows an optimized installation of the computer with minimum distance to the pole, either on the side or in front of it
- With the ball head, the display can be ergonomically adjusted (inclined and rotated) with regard to thesunlight
- With the stable screw clamp, the holder can be attached to the pole

Description	Order-No.	Euro
Slotted beam with clamp for poles with **Ø 18 to 32 mm**	**5020.18**	79,-
Slotted beam with clamp for poles with **Ø 30 to 45 mm**	**5020.45**	79,-
Slotted beam with clamp for poles with **Ø 32 mm**	**5020.F**	79,-

Ø 18 - 32 mm	Ø 32 mm
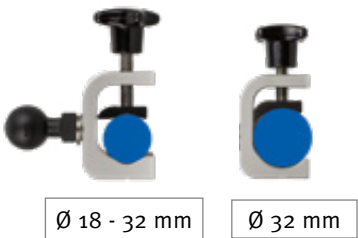
INFO If only poles with **Ø 32 mm** are used, we recommend the clamp 5020.F to protect the pole material.

Ball head with bottom star grip screw

Description	Order-No.	Euro
Ball head **M8** with star grip screw / counter nut	**5081.3**	56,-
RAM-mount M8 with star grip screw	**4800.M8S**	58,-

■ **Application examples**

Table of contents

Print page

previous page

next page

step back

step forward

Pole clamp with RAM-ball

- Stable screw mounting option on the pole
- Joint can be tilted and inclined as desired
- Position is fixed via a central screw

Ø 18 - 32 mm
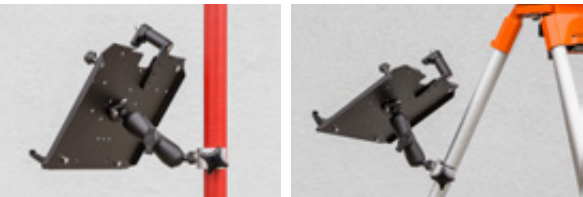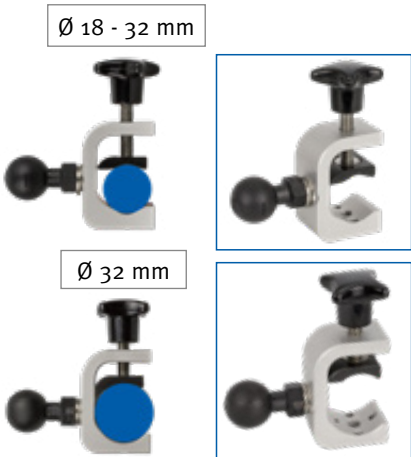
Ø 32 mm

Description	Order-No.	Euro
Pole clamp **Ø 18 bis 32 mm**, with RAM 1"-ball	**4810.1**	79,-
Pole clamp **Ø 32 mm**, with RAM 1"-ball	**4810.F**	79,-
Pole clamp **Ø 30 bis 45 mm**, with RAM 1"-ball	**4810.2**	79,-

INFO If you are using poles with **Ø32 mm** exclusively, we recommend using the 4810.F clamp to protect the pole material.
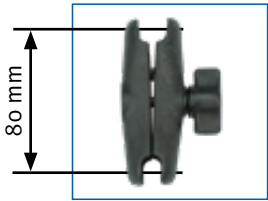
▢ Double Joint Beam

Connecting piece between pole clamp and computer holder with RAM connection.

80 mm

Description	Order-No.	Euro
RAM 1" double joint beam L= 80 mm	**4805.08**	26,-

SECO-Claw-Clamp and Adapter

Advantages as above, but with an additional function: With the push button of the SECO connection, the holder with both RAM-1" balls and the double joint can be removed, only the SECO clamp remains on the pole.

Description	Order-No.	Euro
Claw-Clamp from SECO for poles with Ø32 mm	**1890.1**	76,-

All commercially available SECO clamps (screw clamps and CLAW clamps) can be used.

Description	Order-No.	Euro
Adapter SECO-Clamp - RAM 1"-ball	**4808**	47,-

▢ Double Joint

The same double joint is required as above.

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Holder on Tripods

■ **Holders with thread connection**

Special holders **s. page 2**
Universal holders **s. page 15**

■ **Holders with RAM-1"-ball on back**

Special holders **s. page 2**
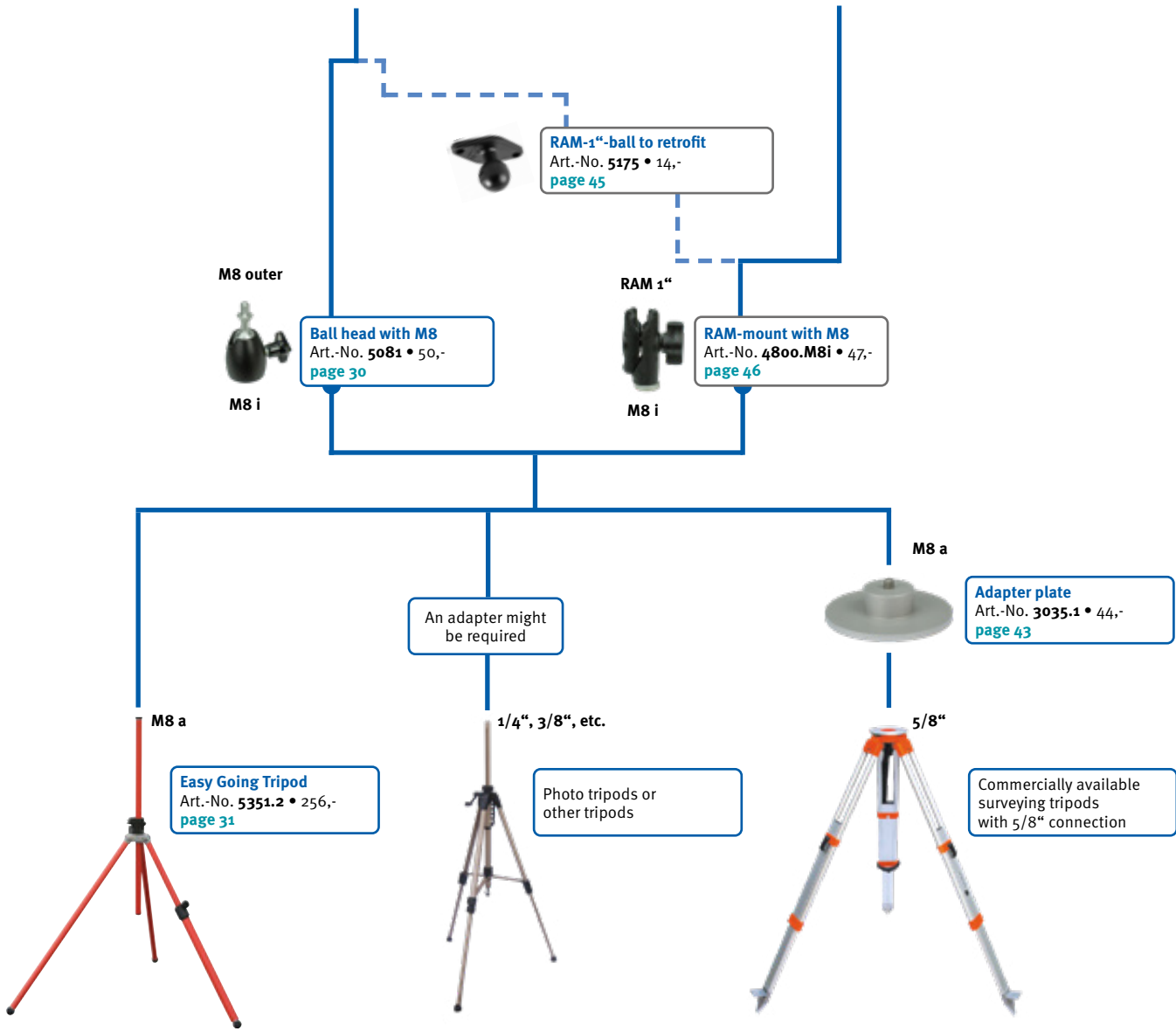
RAM-1"-ball to retrofit
Art.-No. **5175** • 14,-
page 45

M8 outer

Ball head with M8
Art.-No. **5081** • 50,-
page 30

M8 i

RAM 1"

RAM-mount with M8
Art.-No. **4800.M8i** • 47,-
page 46

M8 i

M8 a

Adapter plate
Art.-No. **3035.1** • 44,-
page 43

An adapter might be required

M8 a

Easy Going Tripod
Art.-No. **5351.2** • 256,-
page 31

1/4", 3/8", etc.

Photo tripods or other tripods

5/8"

Commercially available surveying tripods with 5/8" connection

■ **Examples**

Ball Heads

- Simple and stable clamping of the ball head with lateral star grip
- Optimal adjustment within seconds of the computer with regard to ergonomics and sunlight irradiation
- Inner thread in lower part
- External thread on moveable ball-part

■ Ball heads 1/4", 3/8", M8

Description	max. load	ball head weight	Order-No.	Euro
Ball head **M8-15**	**up to** 3 kg	130 g	**5081**	50,-
Ball head **M8-35**	**from** 3 kg	250 g	**5082**	68,-

INFO Ball heads with 3/8" or 1/4" threads (instead of M8) are also also available on request.

Quick-change feature of the ball head

Our ball heads no. 5081, 5082 and 5084 are equipped with a quick-change feature, when using multiple ball head base parts. By the use of multiple ball head base parts the application area of the computer can be changed within seconds.

The pictures show a field computer when changing from a lightweight tripod easy-going to a GNSS or prism pole mount.

The star grip screw is loosened and unscrewed until the upper part of the ball head with the computer holder can be removed. The lower part remains on the tripod or the holder.
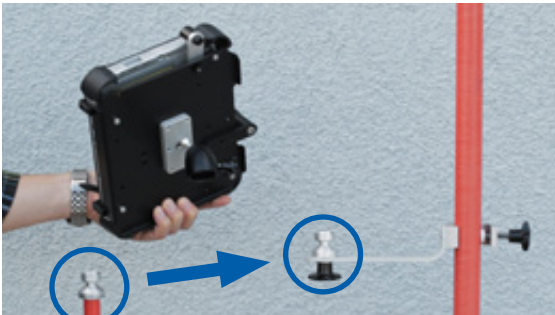
Description	Order-No.	Euro
Base part of the ball head M8-15	**5081.5**	17,-
Base part of the ball head M8-35	**5082.15**	21,-

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Lightweight tripod "easy going"

The computer on the tripod can be placed anywhere next to the total station. When measuring in robotic mode, the computer can be easily picked up and put down directly at the object point. There, no heavy device dangling around the neck prevents the operator from carrying out further work in addition to the actual measuring activity.

■ Features

- Very light (850 g), easy to operate and extremely sturdy
- Comfortable carrying of the tripod even in chilly weather
- Dimensions: 0,75 m (retracted) up to 1,2 m (extracted)
- **1 leg is telescopic:** Adjusting the tripod perpendicularly even in extreme terrain

M8 outer thread (on request other threads available)

high-quality plastic clamp and eccentric lever

indestructible composite material:
Mixed fabric carbon/glass fibre

stainless steel tips or rubber balls as feet
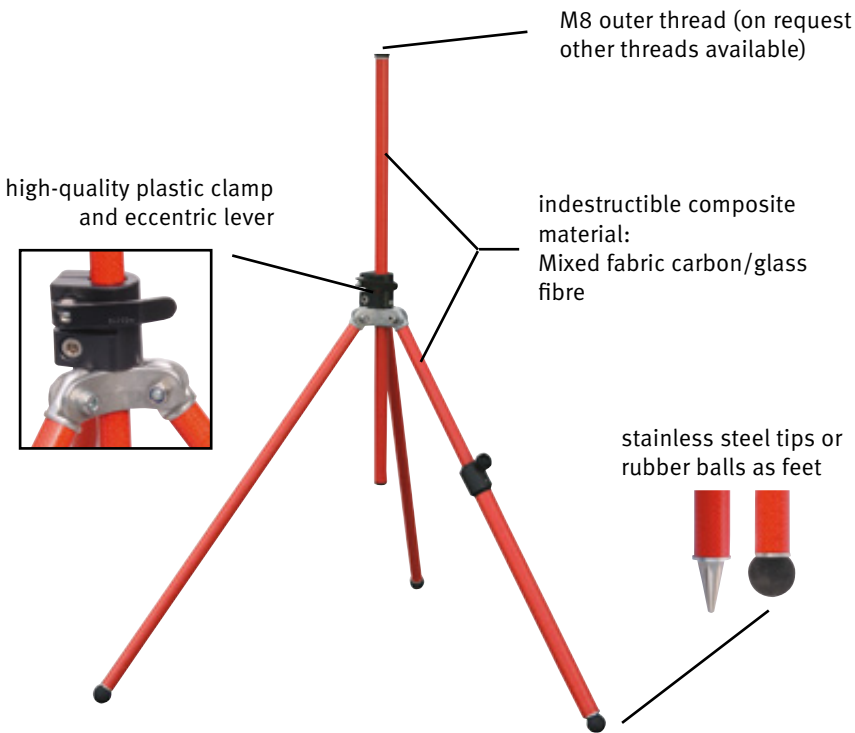
Lightweight Tripod easy going

Description	Order-No.	Euro
Tripod M8 outer thread "easy going" **with rubber ball feet**	**5351.2**	256,-

Spare parts: Tripod foot tips

Description	Order-No.	Euro
Stainless steel tips with M6 inner threads, 3 pieces	**5355**	21,-
Rubber ball feet Ø25 mm with M6 inner threads, 3 pieces	**5356**	21,-

■ Matching ball heads, adapters and holders:

- **page 29** - for special holders
- **page 29** - for univeral holders (System ALOVAR)

prices do not include any taxes

Mobile operation with Carrying Systems

Cross strap

Neoprene strap

Carry Easy Harness
(s. page 37)
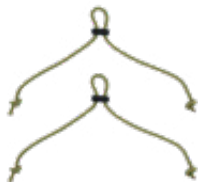
4-Point-System
(s. page 36)

Strap adapter with brackets
(s. page 35)

Eyelets
(s. page 34)

Which carrying system is compatible with your computer holder please refer to the table on **page 33**.

Carrying straps

Cross Strap

- Weight is evenly distributed on the shoulders. Long and comfortable carrying is possible
- Well finished seams and sturdy metal carabiners

Description	Order-No.	Euro
Cross straps with 2 metal carbines	**5790**	57,-

Neoprene Strap

- Uncomplicated carrying around the neck
- Particularly recommended when frequently switching between stationary and mobile work

Description	Order-No.	Euro
Neoprene strap with 2 plastic carbines	**5780**	29,-

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Table of contents

Print page

previous page

next page

step back

step forward

Carrying Systems

2. Find a system

1. Choose computer/holder

Panasonic / Leica

Panasonic FZ-G2
Art.-No. **5849** • 184,- **page 3**
Systems: A1, A2, E1, E3, F2, F4, H2

Panasonic CF-20
Art.-No. **5870.CF20** • 158,- **page 7**
Systems: B2, E1, E3, F2, F4, H2

Panasonic FZ-A3
Art.-No. **5870.A3** • 160,- **page 13**
Systems: B2, E1, E3, F2, F4, H2

Panasonic FZ-G1 / Leica CS35
Art.-No. **5846** • 184,- **page 4**
Systems: A1, A2, E1, E3, F2, F4, H2

Pre-mounted RAM-Ball-Connection:
Art.-No. **5846.R** • 184,- **page 4**
Systems: A1, A2, E2, F3

Panasonic FZ-M1 (RAM)
Art.-No. **5870.M1.R** • 137,- **page 6**
Systems: D1, E2, F3

Adapter plate: Leica CS 10/15/20
Art.-No. **5272** • 86,- **page 18**
Systems: E1, E3, F1, F2, F4, H2

Getac

Getac F110
Art.-No. **5870.F110** • 160,- **page 11**
Systems: B2, E1, E3, F2, F4, H2

Getac T800
Art.-No. **5870.T8** • 128,- **page 10**
Systems: B2, D1, E1, E3, F2, F4, H2

Getac UX10
No. **5870.UX10** • 160,- **page 13**
Systems: B2, E1, E3, F2, F4, H2

Trimble

Trimble T10
Art.-No. **5847** • 184,- **page 5**
Systems: A1, A2, E1, E3, F2, F4, H2

Adapter plate: Trimble TSC7
Art.-No. **5832** • 68,- **page 20**
Systems: E1, E3, F1, F2, F4, H2

Bolt Adapter: Trimble T7
Art.-No. **5833** • 50,- **page 22**
Systems: E1, F2

Bolt Adapter: Trimble T100
Art.-No. **5833** • 50,- **page 22**
Systems: E1, F2

Microsoft

Microsoft Surface Book 2
Art.-No. **5877.MS01** • 163,- **page 17**
Systems: C1, F2, H2

Universal Holder ALOVAR

Universal Holder ALOVAR S1
Art.-No. **5870.S1** • 108,- **page 15**
Systems: D1, E1, E3, F1, F2, F4, H2

Universal Holder ALOVAR S2
Art.-No. **5870.S2** • 108,- **page 15**
Systems: C1, D1, E1, E3, F1, F2, F4

Universal Holder ALOVAR 270
Art.-No. **5870.270** • 116,- **page 15**
Systems: B1, B2, C1, D1, E1, E3, F2, F4

Universal Holder ALOVAR 320
Art.-No. **5870.320** • 131,- **page 15**
Systems: B1, B2, C1, E1, E3, F2, F4

Universal Holder ALOVAR 370
Art.-No. **5870.370** • 147,- **page 15**
Systems: C1, E3, F2, F4, H2

Universal Holder ALOVAR 420
Art.-No. **5870.420** • 163,- **page 15**
Systems: C1, F2, H2

	RAM adapter	ball head	expansion	Suspension system	strap	
A1						No. **5238** • 89,- **page 35** No. **5790** • 57,- **page 32**
A2						No. **5238** • 89,- **page 35** No. **5780** • 29,- **page 32**
B1						No. **5238.L** • 32,- **page 35** No. **5790** • 57,- **page 32**
B2						No. **5238.L** • 89,- **page 35** No. **5780** • 29,- **page 32**
C1						No. **5786** • 15,- **page 36** No. **5790** • 57,- **page 32**
D1						No. **5784** • 15,- **page 34** No. **5780** • 29,- **page 32**
E1						No. **5081.3** • 56,- **page 30** No. **5740** • 173,- **page 37** No. **5790** • 57,- **page 32**
E2						**4800.M8S** • 58,- **page 27** **5740** • 173,- **page 37** **5790** • 57,- **page 32**
E3						No. **5175** • 14,- **page 45** No. **4800.M8S** • 58,- **page 27** No. **5740** • 173,- **page 37** No. **5790** • 57,- **page 32**
F1						No. **5742** • 145,- **page 39** No. **5740** • 173,- **page 37** No. **5790** • 57,- **page 32**
F2						No. **5081** • 50,- **page 30** No. **5742** • 145,- **page 39** No. **5740** • 173,- **page 37** No. **5790** • 57,- **page 32**
F3						No. **4800.M8i** • 47,- **page 30** No. **5742** • 145,- **page 39** No. **5740** • 173,- **page 37** No. **5790** • 57,- **page 32**
F4						No. **5175** • 14,- **page 45** No. **4800.M8i** • 47,- **page 30** No. **5742** • 145,- **page 39** No. **5740** • 173,- **page 37** No. **5790** • 57,- **page 32**
G1						No. **5743** • 66,- **page 38** No. **5740** • 173,- **page 37** No. **5790** • 57,- **page 32**
H1						No. **4806.23** • 61,- **page 46** No. **5740.R** • 173,- **page 40** No. **5790** • 57,- **page 32**
H2						No. **5176** • 25,- **page 45** No. **4806.23** • 61,- **page 46** No. **5740.R** • 173,- **page 40** No. **5790** • 57,- **page 32**

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Mobile use with ring eyelets and carrying strap

Two ring eyelets are attached diagonally to each other to the mount on the sides of the holder (see pictures). A 2-point strap or a cross strap can be attached to the eyelets.
The 2-point system has the advantage that the tablet can be folded to the body (see picture) easily when not in use. This ensures a clear view of the ground when walking.

Ring Eyelets

Description	Order-No.	Euro
Ring eyelets (V2A), **2 pc**. and 4 pc. knurled nut (plastic)	**5784**	15,-

Neoprene Carrying Strap

Description	Order-No.	Euro
Neoprene strap with 2 plastic carbines (**s. page 32**)	**5780**	29,-

INFO Please refer to our compatibility table on **page 33** to find out whether the eyelets are compatible with your computer holder.

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Mobile use with strap adapter / carrying strap

In the field, working with a light tripod or a holder attached to the pole is not always the best solution.

If you want to be as mobile as possible and carry the computer "around your neck", you can attach a strap adapter to the holder. No changes are necessary on the computer itself.

Due to the geometry of the retaining brackets, the holder hangs with the computer horizontally. The display is completely visible, no strap obstructs the operation of the touch screen during pen operation.

Description	Order-No.	Euro
Strap adapter with two brackets for **ALOVAR**-holders	**5238.L**	89,-
Strap adapter with two brackets for holders 5846, 5847, 5849	**5238**	89,-

Cross Strap

Description	Order-No.	Euro
Cross strap, with two metal carbines (**s. page 32**)	**5790**	57,-

Neopren-Tragegurt

Description	Order-No.	Euro
Neoprene strap with 2 plastic carbines (**s. page 32**)	**5780**	29,-

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Table of contents

Print page

previous page

next page

step back

step forward

Example image

Mobile use with carrying strap / 4-point system

For ALOVAR holders S1, 270-420, as well as holders CF-20, F110.

Somewhat larger and heavier computers are better when carrying their weight distributed and balanced over 4 instead of 2 points of the holder.

The two cord-strap adapters are inserted through the perforated plate to the left and right of the computer and fastened with a knot underneath the holder. A stable cord stopper creates a loop to which the carrying strap is attached (detailed instructions available).
A 2-point strap or cross strap can be used; due to the geometry of the strap adapters, the holder always hangs horizontally with the computer. The keyboard or display can be used without restriction.
The advantage of the system is the easy disconnection of the carrying strap from the holder with only two carabiners. For temporary use in the office or on a tripod, the strap adapter can remain mounted.
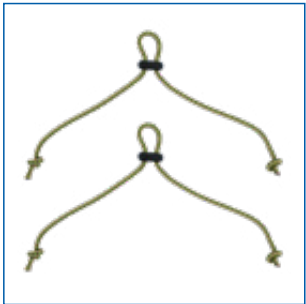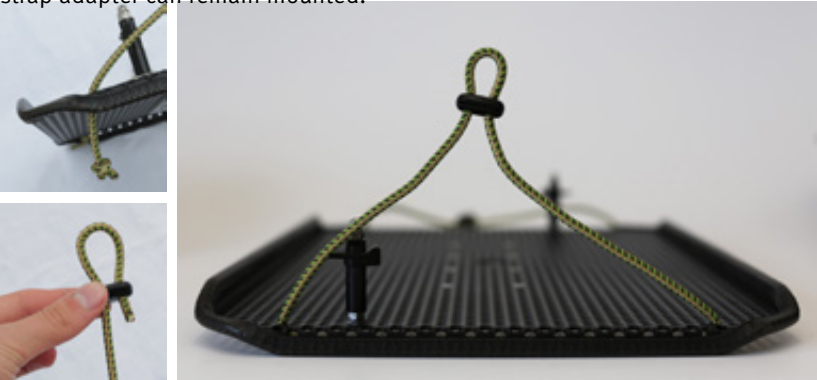
Description	Order-No.	Euro
Cord-Strap-Adapter ALOVAR **F110, CF-20, S1, 270, 320 (2 pc.)**	**5786**	15,-
Cord-Strap-Adapter ALOVAR **370, 420 (2 pc.)**	**5787**	15,-

Cross strap

Description	Order-No.	Euro
Cross strap with two metal carbines (**s. page 32**)	**5790**	57,-

INFO Please refer to our compatibility table on **page 33** to find out whether the cord-strap adapter is compatible with your computer holder.

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Mobile Carrying holder „Carry Easy"

With the "Carry Easy" holder, tablets, controllers, field computers and computers up to a size of approx. 12" can be carried and operated in the field in front of the body / abdomen. We have fundamentally revised the mount. The main part "basic" is always necessary. As before all computer mounts can be used which are equipped with a ball head / ball joint.

Now "**basic**" can be extended by two additional variants.

With the additional part "**pole**" field computer mounts can be adapted, which can be screwed to a prism or GNSS pole via a clamp.

The additional part "**fold**" represents a real innovation. The main advantage is that the device can be folded towards the body very quickly via a hinge.

Finally, double joints of the RAM system 1.5" can be used with the likewise new "**Carry Easy RAM**".

Carry Easy „Basic"

- Abdominal support: An ergonomically shaped, powder-coated aluminum plate with foam rubber overlay provides a **pleasant distribution of the supporting force** to the abdominal and hip area
- Belt braces: A two-point riser can be quickly and safely attached to two struts mounted on the plate. The design of the struts ensures that the computer is **evenly balanced**. To distribute the weight evenly over the shoulder area, we recommend the use of our cross strap
- Long hole traverse: An M8 star grip screw is used to fasten the controllers and field computers at the **optimum distance from the body**:
  - With ball head M8 ()
  - With RAM-1"-ball mount ()
  - With add-on item „pole" ()
  - With add-on item „fold" ()
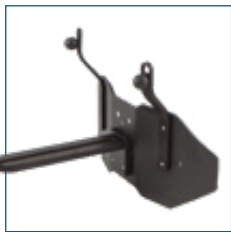
Along the slotted traverse, the mount can be adjusted to the most ergonomically favourable body distance for operating the computer and tilted via the ball head so that the screen can be viewed optimally.

Description	Order-No.	Euro
Carry Easy „Basic" (without carrying strap)	**5740**	173,-

Carrying Strap

- Weight is evenly distributed on the shoulders. A long comfortable carrying is possible
- Well processed seams and stable metal carabiners

Description	Order-No.	Euro
Cross belt with 2 metal carabiners	**5790**	57,-

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Carry Easy „Ball Head M8"

For computer mounts with M8 female thread.

- To screw the ball head into the M8 female thread of the computer holder
- Move the ball head on the slotted hole of the "Basic-Traverse" until the optimal distance of the computer from the body. Tightening with M8 star grip screw
- Adjust the inclination with the horizontal M8 star grip screw on the ball head

Description	Order-No.	Euro
Ball head **M8** with star grip screw	**5081.3**	56,-

Carry Easy „RAM 1"-Mount"

For computer mounts with RAM-1" ball.

- Inserting the RAM-1" ball from the computer holder into the RAM mount
- Move the ball holder on the slotted hole of the "Basic Traverse" until the optimal distance of the computer from the body is reached. Tighten with M8 star grip screw
- Adjust and fix the inclination with the horizontal wing screw on the ball holder

Description	Order-No.	Euro
RAM-ball mount M8 with wing screw	**4800.M8S**	58,-

Carry Easy „Pole"

For lightweight computers and controllers to quickly switch between use on the GNSS/prism pole and the "carry easy" support

An extension arm with pole piece Ø32 mm is attached to the "basic" slotted hole traverse with optimum body distance using the M8 star grip screw. It is swung out laterally so that the computer is positioned exactly in the center of gravity. The controller is attached to the Ø32 mm pole piece with the existing standard pole clamp of the controller holder. Usually, the inclination can also be adjusted with this clamp.

Description	Order-No.	Euro
Carry Easy „Pole" - add-on item for „carry easy basic"	**5743**	66,-

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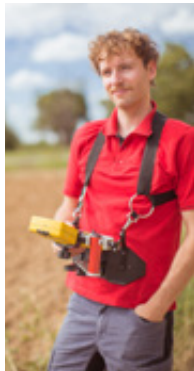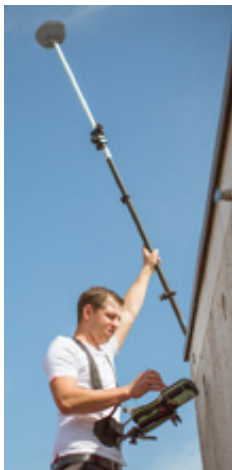
Carry Easy „Fold"

With the folding mechanism, field-suited computers and controllers can be optimally used on the move.
When folded out, the respective device can be perfectly adjusted in terms of ergonomics, operation and readability. The pleasantly large distance to the body provides a good view of the display, and the neck does not have to be stretched as much when looking down. In addition, an inclination adjustment of the device is possible.

With a quick grip the computer can be "put away" by folding it against the body.

Advantages of folding

- The computer lies securely on your body. Screen and keyboard are protected against weather (rain, snow, etc.)
- Protect the device from shocks or damage. The danger of "getting stuck", e.g. when walking through narrow places such as bushes, is also reduced
- The center of gravity of the device is close to the body, the leverage of the weight mass is reduced
- Free view of the ground/runway
- No getting stuck on the tripod or total station/instrument during operation. When the instrument is folded up, settings are made on the total station/total station.
- After the instrument has been folded out, at an appropriate distance from the tripod, inputs, readings and measurements are taken on the computer.
  A quick change is possible

Properties of „Fold"

1. Moving the "Fold" add-on part along the "basic" oblong hole traverse using an M8 tightening screw
2. Stable hinge with adjustable lever for tightening
3. Flip-up bar with slotted hole and non-detachable M8 star grip with external thread for screwing on the holders for controller and field computer
4. Adjustable support screw to adjust the optimal inclination of the bar and thus the computer / controller
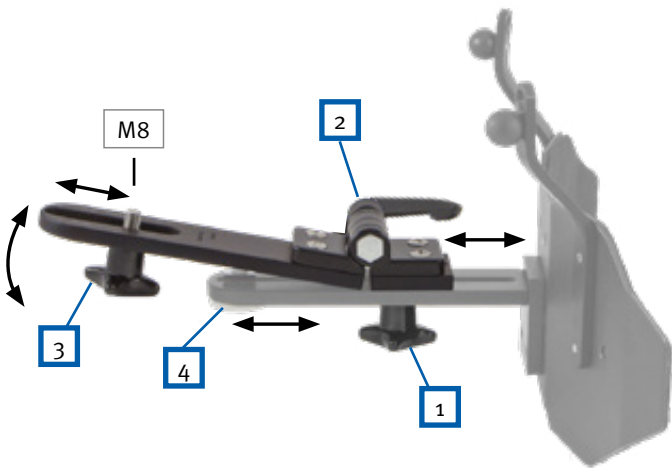
Description	Order-No.	Euro
Carry Easy „Fold" - add-on item for „carry easy basic"	**5742**	145,-

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Carry Easy RAM 1.5"

Allows the use of double joints of the company RAM-Mount with **ball-Ø 1.5"**.

- Abdominal support: An ergonomically shaped, powder-coated aluminum plate with foam rubber overlay provides a **pleasant distribution of the supporting force** to the abdominal and hip area
- Belt braces: A two-point riser can be quickly and safely attached to two struts mounted on the plate. The design of the struts ensures that the computer is **evenly balanced**. To distribute the weight evenly over the shoulder area, we recommend the use of our cross strap
- 1.5"-RAM-ball: Commercially available RAM double joints can be attached
- Matching cross strap,

Description	Order-No.	Euro
Carry Easy RAM **Ø 1.5"** (without cross strap)	**5740.R**	173,-

■ Additional 1.5" RAM accessories

Description	Order-No.	Euro
RAM ball, **Ø 1.5"**, for retrofitting, with M5 screw	**5176**	25,-

Further information about 1.5" RAM accessories .

Description	Order-No.	Euro
RAM Ball **Ø 1.5"**, double joint, approx. 230 mm	**4806.23**	61,-

■ Example application: With RAM double joint / Leica Viva CS20

Carry Easy - Overview

To be found separately: RAM 1.5" ball connectors **s. page 40**

RAM 1"-ball, for retrofitting
Item no. **5175** • 14,- Euro
page 45

Special Computer Holders
Panasonic FZ-G2 **Seite 3**
Panasonic FZ-G1 **page 4**
Panasonic CF-20 **page 7**
Panasonic FZ-A3 **page 13**
Panasonic FZ-M1 **page 6**
Trimble T10 **page 5**
Getac F110 **page 11**
Getac T800 **page 10**
Getac UX10 **page 12**
Leica CS35 **page 4**

RAM-mount with star screw
Item no. **4800.M8S** • 58,- Euro
page 38

ALOVAR Universal Holders
Various sizes,
recommended up to size 320
page 15

M8

Cross strap
Item no. **5790** • 57,- Euro
page 32

Ball head M8, with star screw
Item no. **5081.3** • 56,- Euro
page 38

**Adapter plate
Leica Viva CS10, CS15, CS20**
Item no. **5272** • 86,- Euro
page 18

M8

Carry Easy „Basic"
Item no. **5740** • 173,- Euro
page 37

Adapter plate Trimble TSC 7
Item no. **5832** • 68,- Euro
page 20

Carry Easy „Fold"
Item no. **5742** • 145,- Euro
page 39

Trimble bolt adapter M8
Item no. **5833** • 50,- Euro
Seite 22

**Holders with pole clamps
for example: Seco**

Carry Easy „Pole"
Item no. **5743** • 66,- Euro
page 38

Vehicle computer suction holder

To operate/monitor a computer from the driver's or passenger's seat

By positioning the suction cup holder on the windscreen and the telescopic pull-out, a computer holder can be attached quickly and easily to the desired spot.

- Suitable for almost all cars with an inclined windshield, without any obstruction to the instruments on the dashboard
- Solid construction: outer tube of the traverse made of GFK/CFK, housing of the suction cup and telescopic slide made of aluminium
- Telescope extendable from 22 to 35 cm
- High holding force due to suction holder surface with Ø 120 mm
- With integrated vacuum loss indicator for optical vacuum control
- No greater field of vision restriction due to the suction holder than with a mobile navigation device
- The suction holder is certified in Germany. A general approval for motor vehicles although has not been applied for
- Ball head for optimal aligment of computer

The suction cup is pressed firmly onto the windscreen with the rubber pane relaxed. When the toggle lever is turned, the resistance of the vacuum generation must be clearly noticeable.
The additional vacuum safety indicator guarantees continuous visual control of the vacuum. If the suction holder loses vacuum, a rocker indicator signals this to the user.

■ With M8 ball head

- Stable support for computers up to 3 kg weight
- Large star grip screw for fixing the computer position, 360° adjustable

Description	Order-No.	Euro
Vehicle-Computer-Suction Holder, telescopic, M8 ball head	**5827**	194,-

■ With RAM-ball mount

- Stable support for computers up to 1.5 kg weight
- Two-wing screw for fixing the computer position
- Hexagon nut (SW 13) for alignment of the ball holder

Description	Order-No.	Euro
Vehicle-Computer-Suction Holder, telescopic, RAM-Ø **1"**-ball	**5827.R**	194,-

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Hook and support joint for the instrument stand

The hook can be used to hang the holder to the brackets on the head of the instrument stand. The additional support joint enables the optimal tilt adjustment of the display with regard to operability and sunlight irradiation.
The computer with the support joint can also be optimally positioned on the desk.
The hook and support joint can be retrofitted.

Hook

- Mounting at the top of the computer holder with 2 knurled nuts
- Weight: 35 g

Description	Order-No.	Euro
Hook for **ALOVAR**-holders*	**5382.L**	32,-
Hook especially designed for Panasonic **FZ-G1** holder	**5382**	32,-
Hook especially designed for Panasonic **CF-20** holder	**5383**	34,-

* ALOVAR 320, 370, 420, Getac F110 holder

Support Joint

- Tilting angle adjustable with wing screw
- Upholstery of the support with sponge rubber cover
- Mounting with screws (screws for ALOVAR **and** FZ-G1/T10 holders included)
- Weight: 100 g

Description	Order-No.	Euro
Support joint for **FZ-G1**, **T10** and **ALOVAR** mounts*	**5381**	68,-

* ALOVAR 320, 370, 420, Getac F110 holder, Panasonic CF-20 holder

Tripod plate for Instrument Tripods

Bottom thread: 5/8"-Internal thread for use on all instrument tripods with flat tripod head and 5/8" tightening screw

Top thread: M8 or 3/8"outer thread (stainless steel)

Description	Order-No.	Euro
Tripod plate 5/8", **M8** outer thread	**3035.1**	44,-
Tripod plate 5/8", **3/8"** outer thread	**3035.3**	44,-

All ball heads/joints with an M8 or 3/8" internal thread can be screwed onto the tripod plate. An overview of all ball heads can be found on .

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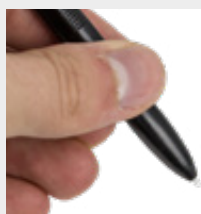
Additional Accessories

Pen holder

With the retrofittable pen holder, the pen can be easily put down to the side of the holder. After inserting the pen into the plastic sleeve, it stands upright and is immediately ready to use. The pen holder can be attached to either the right or left side of the holder.

- For pens with Ø 8 - 12 mm
- Side mounting with knurled nut.
- Weight: 10 g (ALOVAR) / 27 g (FZ-G1, CS35, T10)

Description	Order-No.	Euro
ALOVAR pen holder for Ø 8 - 12 mm (with knurled nut M5)	**5841.U**	16,-
FZ-G1 / CS35 / T10 pen holder for Ø 8 - 12 mm (with nut M5)	**5840.U**	22,-

INFO Bigger Ø for both pen holders (ALOVAR or FZ-G1) on request!

Mouse Tray for ALOVAR

If you like to work with an ordinary external mouse, we offer the possibility of an additional mouse tray to attach. For this only two screws are put through the perforated plate of the ALOVAR holder and fixed with two knurled screws.

- Useable space: 240 mm x 200 mm
- Weight: 400 g
- Including mounting material and mousepad

Description	Order-No.	Euro
Mouse Tray for ALOVAR holders (with mousepad)	**5890**	62,-

Positioning pins for System ALOVAR

With one or more pin(s) the computer can be fixed on the ALOVAR holder as desired and secured against slipping.

- With plastic sleeve Ø 10 mm
- Fastening with screw and M5 knurled nut
- Weight: 14 g

Description	Order-No.	Euro
1 pc. positioning pin ALOVAR, with 2 knurled nuts M5	**5868**	4,-

Thread insert piece 3/8" - 1/4"

The threaded insert can be screwed into the 3/8" thread of our computer holders with an ordinary slotted screwdriver (see pictures).
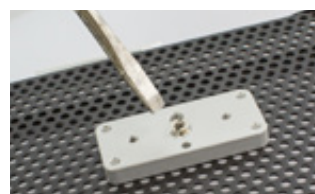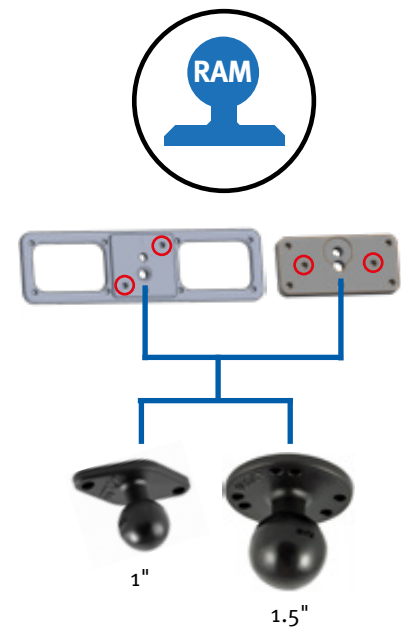We recommend using the 1/4" thread only with very light computers.

Description	Order-No.	Euro
Thread insert adapter 3/8" (outer) - 1/4" (inner)	**5170.25**	3,-

1/4" inner thread

3/8" outer thread

RAM ball retrofitting

All holders available from us (special holder and universal ALOVAR holder) can be easily retrofitted with a RAM ball if required. So you have the possibility to use all RAM accessories.

The majority of the RAM accessories available from us are based on the RAM ball Ø1" (25.4 mm). For particularly heavy or large computers, the 1.5" RAM ball can also be useful. The following RAM balls can be retrofitted to all our computer mounts.

■ General characteristics of the RAM System

- The rubberized RAM-1" ball is the starting point of the system, which is both simple to use and reliable in practice
- The loosening and fixing between RAM ball and RAM holder is done by a large lever screw
- If the holder is screwed on far enough, the ball (and the holder attached to it) can be easily removed. Inserting and tightening the ball is just as easy

1"

1.5"

1" RAM Ball

To use the double-joint or the ball socket, the computers or computer holders must be equipped with a 1" ball on the bottom.

- Rubberized 1" ball with two holes Ø 5 mm in the flange
- Included in delivery: Two screws M5 x 10 mm
- Weight: 40 g

Description	Order-No.	Euro
Joint-ball Ø1" (25,4 mm), with two M5 screws	**5175**	14,-

1.5" RAM Ball

To use the double-joint or the ball socket, the computers or computer holders must be equipped with a 1.5" ball on the bottom.

- Rubberized 1.5" ball with two holes Ø 5 mm in the flange
- Included in delivery: Two screws M5 x 10 mm
- Weight: 90 g

Description	Order-No.	Euro
RAM joint ball **Ø 1.5"**, with two **M5** screws	**5176**	25,-

Table of contents
Print page
previous page
next page
step back
step forward

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Accessories for 1"-RAM ball

RAM 1" ball mount 3/8" or M8

- For screwing onto tripods and poles
- Sturdy aluminium construction
- Lever screw for fixing / removing the ball
- For computers up to 4 kg
- Weight: 105 g

Description	Order-No.	Euro
RAM 1" ball mount with **M8 inner thread (bottom)**	**4800.M8i**	47,-
RAM 1" ball mount with **3/8" inner thread (bottom)**	**4800.38i**	47,-

RAM 1" double-jointed beam

- Sturdy aluminium construction
- Lever screw for fixing / tightening the joints
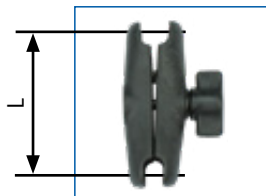
Description	computer	weight	Order-No.	Euro
RAM 1" double-joint L=50 mm	max. 4 kg	85 g	**4805.05**	23,-
RAM 1" double-joint L=80 mm	max. 3 kg	130 g	**4805.08**	26,-
RAM 1" double-joint L=140 mm	max. 2 kg	230 g	**4805.14**	29,-

Accessories for 1.5"-RAM ball

RAM 1"- double joint extension

- Sturdy aluminum construction
- Large central lever screw for fixing the joint
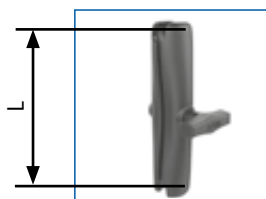
Description	computer	weight	Order-No.	Euro
RAM 1.5" extension. L=220 mm	max. 5 kg	230 g	**4806.23**	61,-

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Our RAM assortment as overview

Threaded plates of our computer holders

SECO-System

RAM Double-Joint extension 1"
L=80 mm **4805.08** • 26,- Euro
L=140 mm **4805.14** • 27,- Euro
page 46

RAM 1"-Ball with SECO-Spigot
Art.-No. **4808** • 47,- Euro
page 28

Seco Claw-Clamp Ø 32
Art.-No. **1890.1** • 76,- Euro
page 28

Pole clamp with 1"-RAM-Ball
Ø 18-32 mm **4810.1** • 79,- Euro
Ø 32 mm **4810.F** • 79,- Euro
Ø 30-45 mm **4810.2** • 79,- Euro
page 28

RAM 1"- Ball

RAM-Ball Ø 1", with M5
Art.-No. **5175** • 14,- Euro
page 45

1"-Ball socket with M8 star screw
Art.-No. **4800.M8S** • 58,- Euro
page 27

Slotted hole with pole clamp
Ø 18-32 mm **5020.18** • 79,- Euro
Ø 32 mm **5020.F** • 79,- Euro
Ø 30-45 mm **5020.45** • 79,- Euro
page 25

Holder "Carry Easy Basic"
Art.-No. **5740** • 173,- Euro
page 37

Extension: "Fold"
Art.-No. **5742** • 145,- Euro
page 39

1"-Ball socket, M8 inner
Art.-No. **4800.M8i** • 47,- Euro
page 46

Tripod Easy Going, M8
Art.-No. **5351.2** • 256,- Euro
page 31

RAM 1.5"- Ball

RAM-Ball Ø 1.5", with M5
Art.-No. **5176** • 25,- Euro
page 45

RAM Double joint Ø 1.5"
Art.-No. **4806.23** • 61,- Euro
page 46

Holder "Carry Easy RAM 1.5"
Art.-No. **5740.R** • 173,- Euro
page 40

Poles or tripod legs with Ø 18-32

Mobile

Lightweight tripod

Mobile

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Table of contents

Print page

previous page

next page

step back

step forward

Clamp for computer mounts for tripod legs

For mounting lightweight computers with existing holder for prism/GNSS poles on instrument stand /tripod

For light field computers, holders for vertical prism or GNSS poles are often already present. However, these cannot be easily attached to the instrument tripod due to the inclined legs.

Our new tripod leg clamp is attached to the angled tripod leg-bar. The aluminium cylinder can then be placed vertically over the ball-and-socket joint and the computer holder screwed to it, as it would be done on a prism or GNSS pole.

- For leg Ø 18 to 32 mm
- Aluminium cylinder Ø32 mm
- Weight: 365 g

clamp for Ø18 - 32 mm

ball head

Description	Order-No.	Euro
Tripod leg clamp with cylinder Ø32 mm for computer holders	**5280**	116,-

Cylinders with other Ø on request!

Examples for computers:

- Trimble TSC
- Leica Vica CS20
- SECO clamps Universal and Claw

Table of contents

Print page

previous page

next page

step back

step forward

Order Form –   Tel. +49 (0) 7143 / 89 10 03

Bohnenstingl GmbH
Ernst-Ackermann-Str. 20/1
D-74366 Kirchheim/Neckar

Customer (Invoice Address)   Delivery Address:

Customer-No.:

Company:

Address:

Contact Person:

Tel./Fax:

E-Mail:

Order

Order-No.	Description	Quantity	Unit Price	Total Price
		Total:		

Delivery

Instant	Date
Notes:	

Orders are placed on the basis of the general terms and conditions of the Bohnenstingl GmbH (see next page).

Location   Date   Signature

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Terms of sale, delivery and payment for end customers

For all deliveries and services, as well as repairs and service work, our general terms and conditions apply exclusively. Differing purchase conditions of the customer do not bind us, even if we do not expressly contradict them. We will only accept the customer's terms and conditions of purchase if we have agreed to them in writing.

Liability of prices
All prices in catalogues, brochures and offers are subject to change without notice. They only become binding with our order confirmation. All prices are net prices in € (EURO) and apply exclusively in connection with our delivery conditions ex works Kirchheim. Packaging costs will not be charged. If no fixed prices have been agreed, our current price lists shall apply. We expressly reserve the right to change prices due to considerably increased material or purchasing costs.

Terms of payment
Unless other terms of payment have been agreed, our invoices are payable net without deduction within 30 days of the invoice date and with 2% discount within 10 days. After the agreed payment periods have been exceeded, we reserve the right to charge you with the costs incurred (interest on arrears, collection fees, court costs). We retain title to all delivered goods until full payment has been made. This also applies to the extended retention of title. If the buyer is in default of payment, any right to the delivered goods expires. Custom-made products or services are not discountable.

Discount System
We grant the following order value-dependent quantity discount on all articles listed in the catalogue on the list prices valid at the time:
From 1000,- € net value 5 % discount,
from 1500,- € net value 7,5 % discount,
from 2000,- € net value 10 % discount

Delivery times / order confirmations
The delivery usually takes place within one week. We confirm longer delivery periods. Partial deliveries are made by arrangement.

Retention of ownership
The goods delivered by us remain the property of Bohnenstingl GmbH until full payment of all claims. The buyer agrees with his order to insure the goods delivered under retention of title against usual risks. The purchaser is entitled to process or resell the goods delivered by us. In both cases, the extended retention of title shall be deemed accepted upon ordering the goods.

Delay in payment
For all deliveries from us only our terms of payment apply. If the customer is in default of payment, we shall be entitled to charge default interest in the amount of eight percentage points above the base rate in addition to reminder fees in the usual amount. We expressly reserve the right to claim further verifiable damages caused by default. If the customer is in delay with more than 10 % of the total claim outstanding with us, we can make all claims due immediately.

Delay in delivery
The delivery times stated by us may be reasonably exceeded for operational reasons. We will inform you immediately of any delays. We cannot be held responsible for delays in delivery which are not caused by us or which are due to force majeure.

Return of goods
Returns of goods delivered by us require our explicit consent and are made by a collection arranged by us. We shall bear the costs for returns if the return delivery is due to defective goods. In all other cases, the costs of the return delivery shall be paid by the customer. Custom-made products will not be taken back.

Drawings and descriptions of the products
The dimensions and descriptions stated in our catalogues and brochures or other documents are only approximately binding. We expressly reserve the right to make changes and technical improvements. Illustrations are completed for a better understanding of the scope of delivery.

Freight charges
Shipments are delivered with a parcel service commissioned by us. Other delivery after arrangement. The freight costs incurred by us are presented by us and charged with the goods. The transport risk is transferred to the customer when leaving our factory.

Notice of defects
Obvious defects must be reported to us immediately, at the latest within one week of receipt of the goods, in writing and with an exact description of the complaint. The customer is obliged to check the goods for defects immediately after acceptance. Later complaints can only be considered if the defects were not apparent upon arrival of the goods.

Transport damages
Obvious transport damage must be reported to the parcel service immediately. Subsequent complaints about transport damage will generally not be accepted by the parcel services.

Place of Jurisdiction / Place of Performance
Place of performance is Kirchheim, place of jurisdiction is Besigheim or Heilbronn, only German procedural law applies.

Updated last: 30.01.2023

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