



# Mobile Satellite Antenna Systems

Smart solutions for caravans and motorhomes



**KATHREIN**  
Digital Systems GmbH

# Who we are and **what** we stand for

## We ensure the best possible radio and TV reception

KATHREIN Digital Systems is the market leader for digital satellite, terrestrial, cable or IP reception and signal distribution in buildings and caravans. Our high-quality and reliable product portfolio for modern TV and radio reception is constantly being expanded to include innovative solutions in the field of building technology.

Thanks to extensive know-how in development and unsurpassed quality standards in production, our solutions and systems are among the best in their class. High-quality satellite reception systems in conjunction with sophisti-

cated solutions for signal distribution – whether in single-family homes or in large building complexes – bring the signals to the receiving equipment in best HD quality. New technologies such as SAT>IP, optical SAT distribution or modular headend technology for hotel TV close the gap between traditional signal distribution and modern optical fibre and network technology.

KATHREIN Digital Systems' advanced solutions are also the best choice for mobile TV reception in caravans and mobile homes.

Find out more about us at [www.kathrein-ds.com](http://www.kathrein-ds.com)

Our awards:



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## Fully Automatic Satellite Antennas

### > Portable antenna

#### CAP 500M

- All-in-one package for fully automatic reception of Astra 19.2° East
- Light and portable for mobile and flexible use
- Quick installation and TV reception typically within 90 seconds
- Software update via Bluetooth
- Power supply directly via any TV or receiver with integrated satellite tuner
- Anti-theft protection

#### Scope of supply:

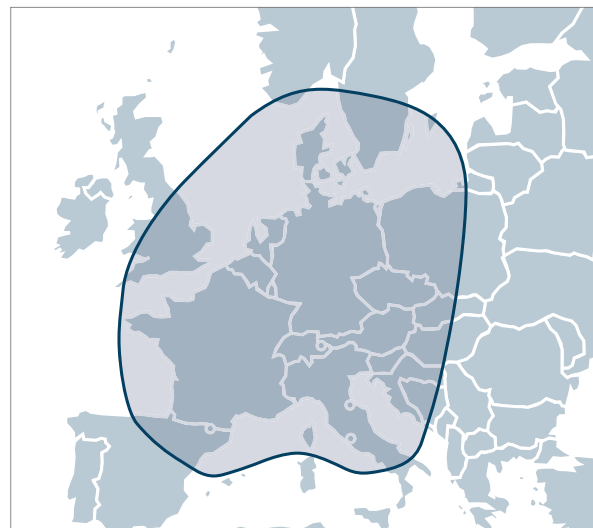
- Fully automatic satellite antenna
- 10 m coaxial cable
- Instruction manual/application notes

#### Technical data

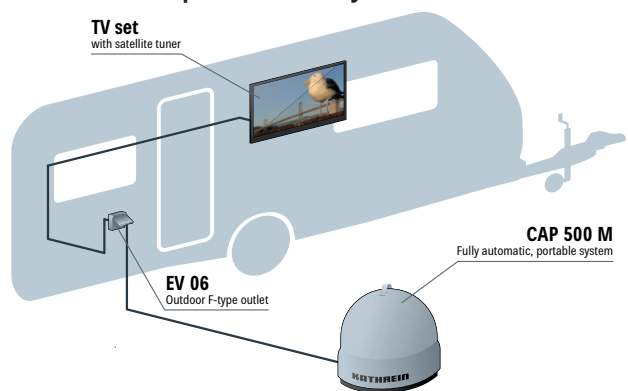
Type	CAP 500M CAP 500M plus
Order no.	203500003   203500004
Output	1
Input frequency range [GHz]	10.7–12.75
Output frequency range [MHz]	950–2150
Oscillator frequency [GHz]	9.75/10.6
Supply voltage [V]	13–18
Antenna gain [dBi]	31
Min. EIRP [dBW]	51
Current draw [mA]	max. 300
Power consumption [W]	max. 5.4
Power consumption in standby [W]	0
Setting range elevation/azimuth [°]	15–90/360
Search speed [s]	typ. 90
Packing unit/weight [pc./kg]	1/8   1/9
Dimensions (incl. handle) width × height [mm]	450 × 440



#### Footprint Astra 19.2° East



#### CAP 500M operated directly on the TV set



**> Portable antenna + streaming**  
CAP 500M plus

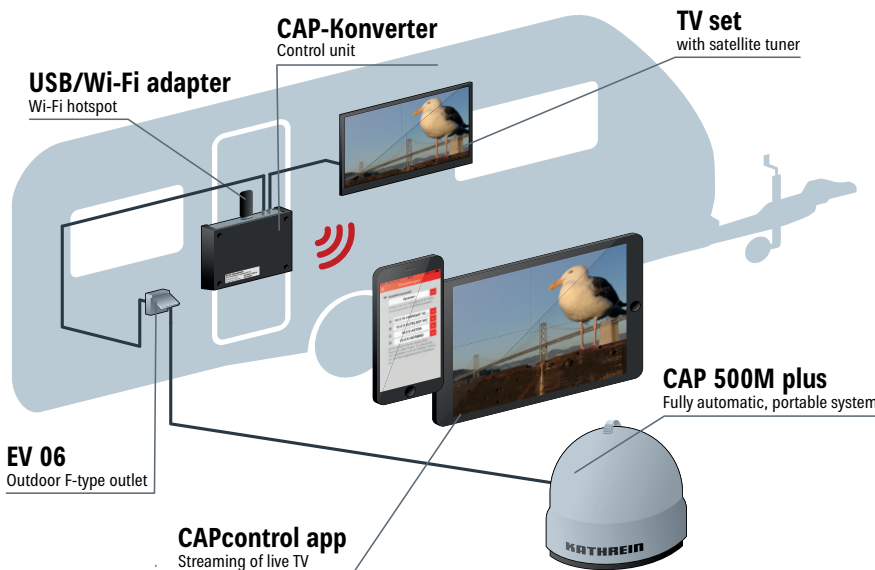
- Live streaming of TV and radio channels to mobile devices using the free CAPcontrol app
- All-in-one package for fully automatic reception of Astra 19.2° East
- Light and portable for mobile and flexible use
- Quick installation and TV reception typically within 90 seconds
- No additional control unit required
- Software update via Bluetooth
- Power supply directly via the CAP converter
- No power consumption in standby mode
- Anti-theft protection

**Scope of supply:**

- Fully automatic satellite antenna
- 10 m coaxial cable
- Instruction manual/application notes
- Kathrein USB/Wi-Fi adapter
- CAP converter



**CAP 500M plus – streaming of live TV**



CAPcontrol app – streaming of live TV



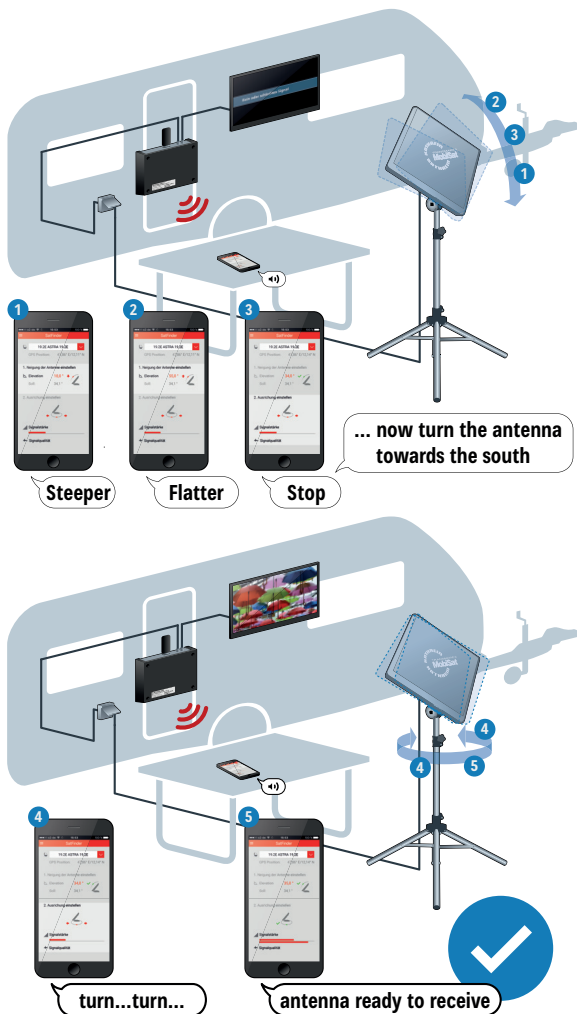
You can install the CAPcontrol app right now:



## Semi-automatic Satellite Antennas

### > Antenna set HDS 166 plus 2030000002

This new antenna set is a low-budget, space-saving alternative to fully automatic satellite antennas. Perfect if you don't have satellite reception directly at the vehicle, e.g. when shaded by trees, and want to set up the system at some distance from the vehicle. The supplied components and the revised CAPcontrol app (Android and iOS) interact perfectly with each other. Once all components are set up and connected, the antenna is aligned in **60 seconds**. The HDS 166 plus antenna set is your ideal companion – whether you are travelling in a motorhome, caravan or camper van.



#### HOW IT WORKS

- The voice assistant helps with the alignment
- Streaming of TV and radio channels to mobile devices
- 11 satellites preset
- A GPS-enabled smartphone/tablet is required for installation

Never before has manual alignment been so easy

#### Scope of supply

- BAS 66 planar antenna (with twin LNB)
- HDZ 66 elevation indicator
- Tripod, adapter joint, incl. carry bags for tripod and antenna
- CAP converter V2 and UFZ 132 USB/Wi-Fi adapter
- 15 m coaxial cable

#### Recommended accessories

- EV 06 external socket | 218464
  - 12 V power supply unit | 1683660
  - Adapter cable | 197500004
- For connection to 230 V sockets (adapter cable is mandatory). Available from our CSS service and repair centre (Caravan-Sat-Service GmbH)

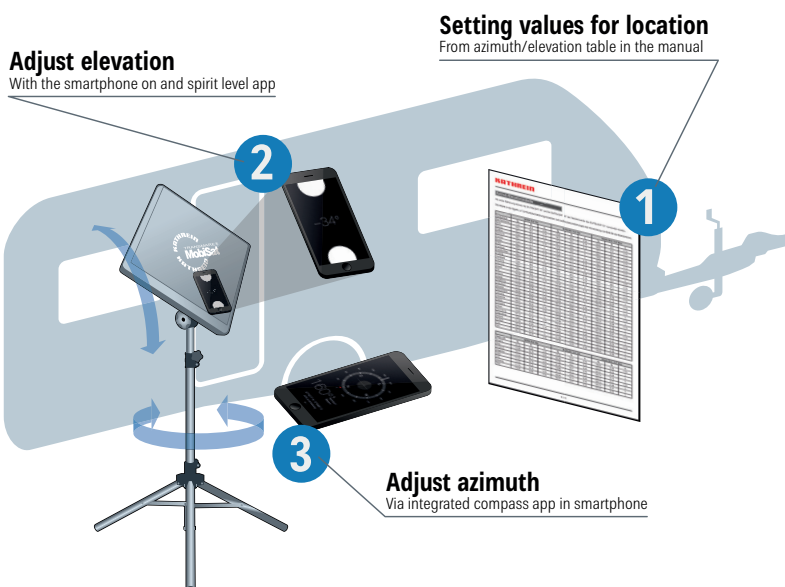
> **Antenna set HDS 166**  
20310052

The HDS 166 is an antenna set for manual antenna alignment and satellite search. It includes a planar antenna, tripod, adapter joint, 15 m coax cable and a carry bag. This set is the perfect alternative to a fully automatic, permanently mounted antenna.

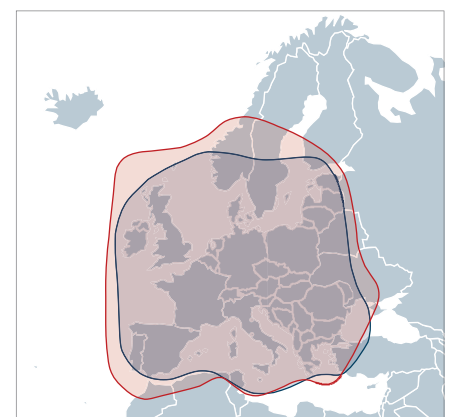
The BAS 66 Skew planar antenna can be easily set up and aligned with a satellite using a smartphone with compass app (depending on the smartphone and the operating system, the app might be pre-installed).

**It only takes three easy steps to align the antenna:**

- 1 Look up the setting values in the enclosed azimuth/elevation table
- 2 Start the compass app, place the smartphone on the planar antenna and set the elevation of the antenna
- 3 Determine the satellite position using a spirit level app and turn the antenna to that direction (e.g. Astra 19.2° E in the Munich area = 169.80°)



**Footprint**

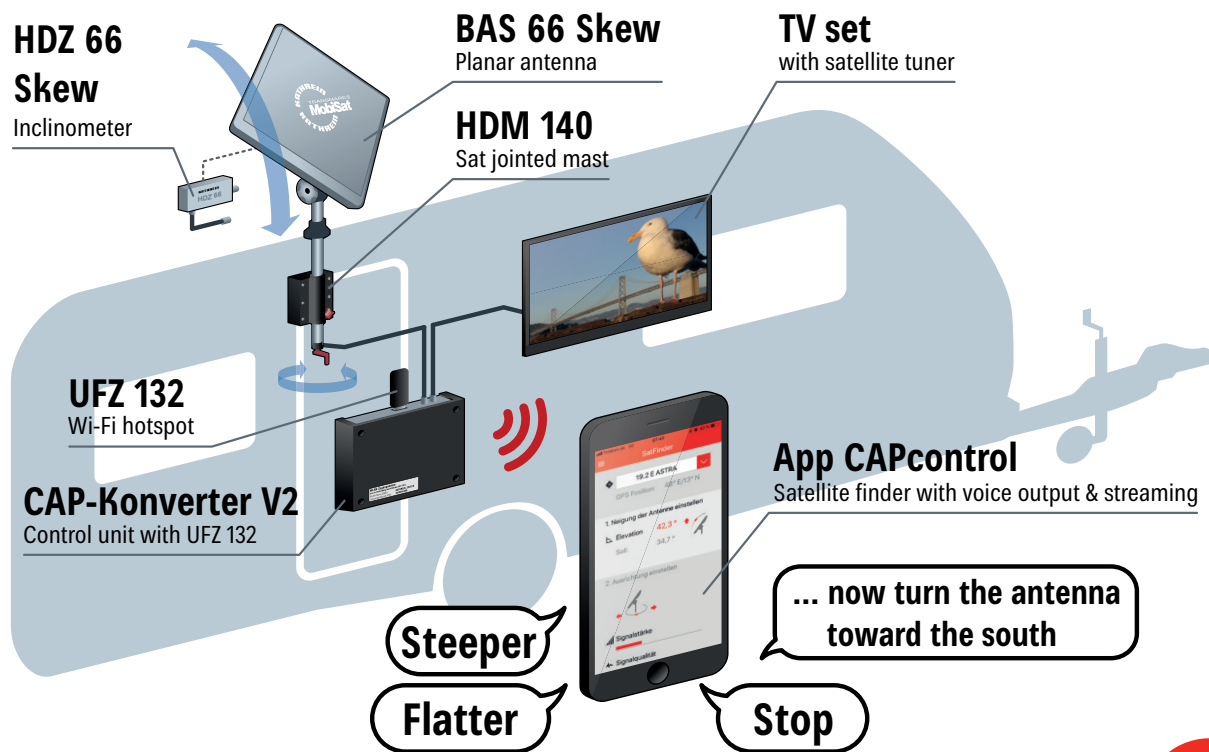


■ Astra 19.2° East ■ Hotbird 13° East

\* Manufacturer's recommended retail price

**> All-in-one solution with HDM 140/HDM 141 jointed mast**

The jointed masts allow optimal mounting and rapid alignment of the BAS 66 planar antenna from inside the vehicle.



RRP in €\*  
**801.00**

The HDS 166 plus/HDM set includes:

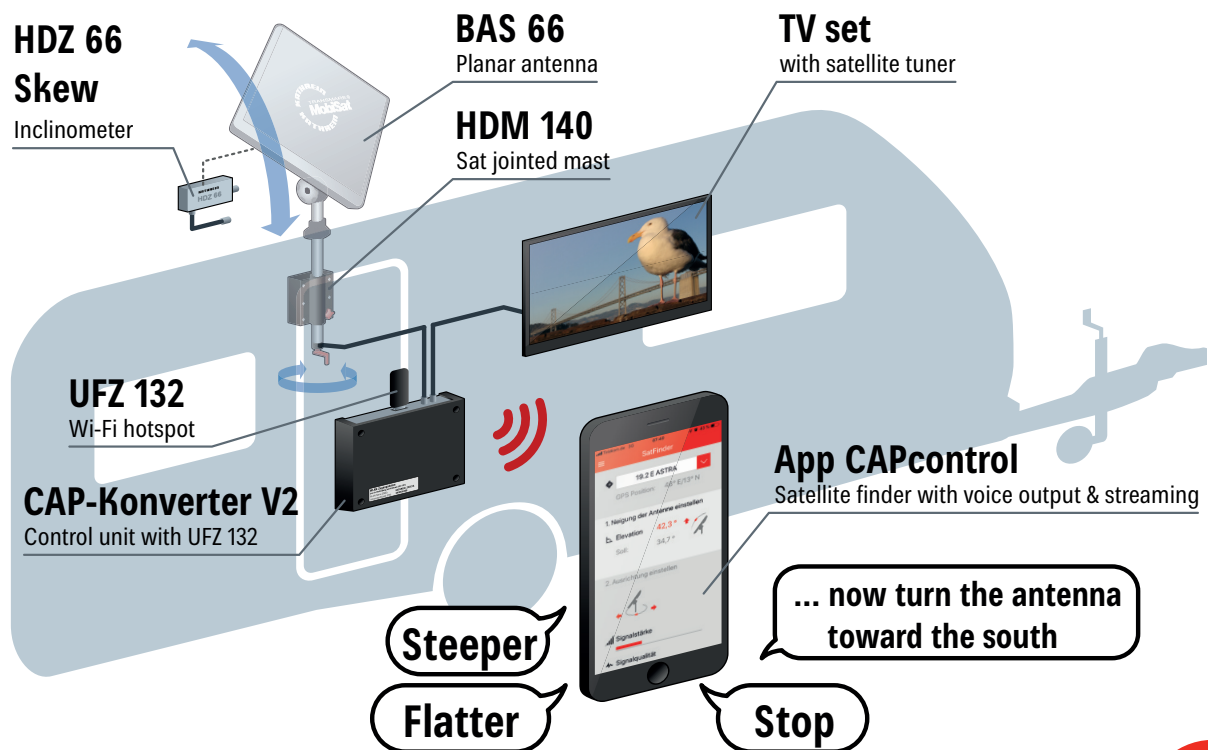
Order No.	Product	Description	RRP in €*
2000000001	BAS 66 Skew	Planar antenna with twin LNB and skew adapter plate; reception area: 10.7–12.75 GHz, suitable for HDM jointed mast	199.00
218456 or 218457	HDM 140 or HDM 141	HDM 140: twin jointed mast for BAS 66/BAS 66 Skew for caravan installation, 103 cm long HDM 141: twin jointed mast for BAS 66/BAS 66 Skew for caravan installation, 76.5 cm long (shorter version)	224.00
204500002	HDZ 66 Skew	Inclinometer: required for easy alignment via app	99.00
204500001	CAP converter V2	Control unit: required for easy alignment via app	239.00
204500005	UFZ 132	USB/Wi-Fi adapter: for wireless integration of suitable network-compatible Kathrein receivers, IEEE 802.11n, Wi-Fi hotspot	40.00
<b>Total</b>			<b>801.00</b>

\* Manufacturer's recommended retail price



## Extension set for existing jointed mast systems

The extension set enables the alignment of an already installed planar antenna (e.g. BAS 66 with HDM 140 jointed mast) by means of the app.



The extension set comprises:

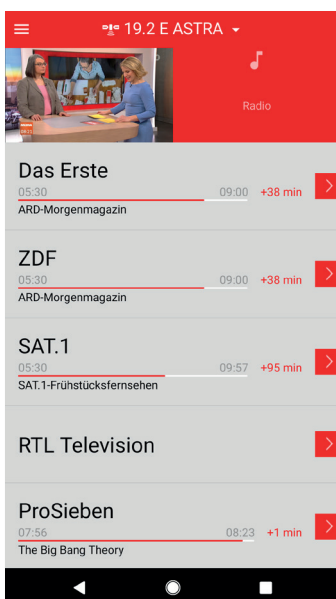
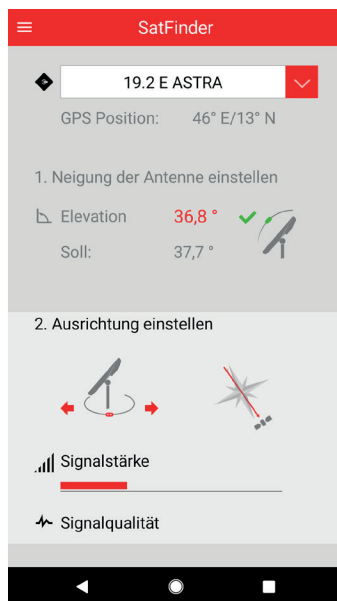
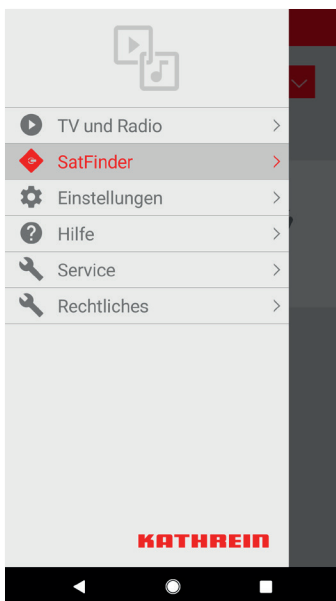
Order No.	Product	Description	RRP in €* 378.00
204500002	HDZ 66 Skew	Inclinometer: installation set for BAS 66/BAS 66 Skew	99.00
204500001	CAP converter V2	Control unit: required for easy alignment via app	239.00
204500005	UFZ 132	USB/Wi-Fi adapter: for wireless integration of suitable network-compatible Kathrein receivers, IEEE 802.11n, Wi-Fi hotspot	40.00
<b>Total</b>			<b>378.00</b>

# Control via App



## > CAPcontrol app

**Integration of the sat finder:** Assisted alignment through detection of the HDZ 60/66 inclinometer and acoustic instructions.

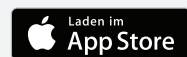


### Internal video player

By using the internal video player, the performance of the app has been significantly improved: Channels can now be switched by simply swiping to the left or right.



The CAPcontrol app can be downloaded here:



## Advice and Service

### > Caravan service centres

#### Germany

- 1 alphonics GmbH**  
Breitengraserstraße 6  
90482 Nürnberg  
Phone: +49 911 216 554 40  
info@alphatronics.de
- 2 CSS Caravan-Sat-Service GmbH  
Werksreparaturstelle**  
Bahnhofstr. 110  
83224 Grassau  
Phone: +49 8641 69984-27  
service@css-grassau.de
- 3 RAPP GmbH Fachhandel**  
Auer Straße 7  
89287 Bellenberg  
Phone: +49 7306 927 521-1  
info@elektro-rapp.com
- 4 Wohnwagen Vogt GmbH**  
Koblenzer Str. 53  
66115 Saarbrücken  
Phone: +49 681 482 549 70  
info@wohnwagen-vogt.de
- 5 Knocks Motors GmbH & Co. KG**  
Schulland 1  
34474 Diemelstadt-Ammenhausen  
Phone: +49 5694 990 990  
service@knocks-motors.com
- 6 Williges Elektronik Service GmbH**  
Solinger Straße 13  
28199 Bremen  
Phone: +49 421 504 021  
info@williges-elektronik.de
- 7 Wohnmobile & Caravans Linke**  
Grevenberg 1  
23970 Kritzow/Wismar-Ost  
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wohnmobile-linke@t-online.de
- 8 SP: Minke**  
Hauptstraße 75  
21266 Jesteburg  
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minke-jesteburg@t-online.de
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- 13 M. Michalk GmbH & Co  
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Phone: +49 30 33 89 02 0  
mmautomobile@t-online.de
- 14 Brock - Das mobile Freizeitzentrum**  
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38104 Braunschweig  
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4810 Gmunden  
Phone: +43 7612 676 00  
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Reisemobile**  
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Phone: +43 7272 254 2  
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hymerteile@sulzbacher.at
- 5 MOBOS e.U. – Herbert Schmid**  
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- 6 Kledo Reisemobile**  
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Phone: +43 316 272 715  
ringwald@kledo.at
- 7 Falle GmbH**  
Maria Galler Straße 59  
9500 Villach  
Phone: +43 4242 325 40  
fahrzeuge@falle.at

#### Switzerland

- 1 KHC Service GmbH**  
Grenzstrasse 20,  
5525 Fischbach-Göslikon  
Phone: +41 76 589 57 79  
info@caravan-technik.ch
- 2 Farelec Fischer**  
Mirchelgässli 6,  
3532 Zäziwil  
Phone: +41 31 711 48 37  
technik@campingfisch.ch
- 3 Vulku Valentin Caravan Service**  
A Ramél 23  
6593 Cadenazzo  
Phone: +41 798 983 033  
info@caravanticino.ch

#### Czech Republic/Slovakia

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[www.kathrein-ds.com](http://www.kathrein-ds.com) | Sales International

#### **Technical Advice for Specialist Suppliers**

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