

AROS

Compressor Pump

CARPU2011

TECHNICAL MANUAL



10057045 V02021 10 30 EN

HITSA
WE SUPPLY OUTDOOR SPACES

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INTRODUCTION

Thank you for choosing a HITSA product from our range of Urban Cycling Solutions.

Aros Compressor Pump is an automatic air pump designed for use with bicycles. The pump features an electrical compressor to make filling bicycle tires with air simple and easy. The pump head accommodates the three common valve types used on bicycle tires: Dunlop, Schrader, and Presta.

The pump can be used for any tire with these valve types and in addition to bicycles can be used for tires on items such as mopeds or children's carriages.

The pump compressor is factory set to a pressure of 6bar. During inflation of a tire, users are expected to manually regulate the desired inflation pressure of the tire if a lower pressure is specified on the tire, or is desired by the user.

The purpose of this manual is to provide guidance on operation, installation, maintenance, and other general information about your HITSA product to ensure optimal performance. We recommend you review this manual, keep it for reference, and pass it on to any future owner of the product.

PRODUCT OVERVIEW

External Components

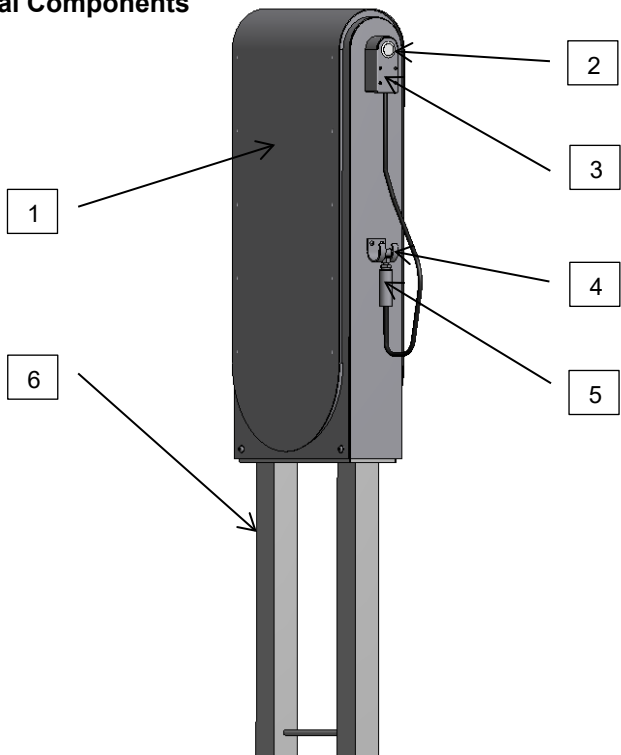


Figure 1: Product overview

Table 1: Part description

No.	Description
1	Air pump system
	Cabinet
2	Start button
3	Cover for hose
4	Hook for pump handle
5	Pump handle and hose
6	Embedment frame

Internal Components

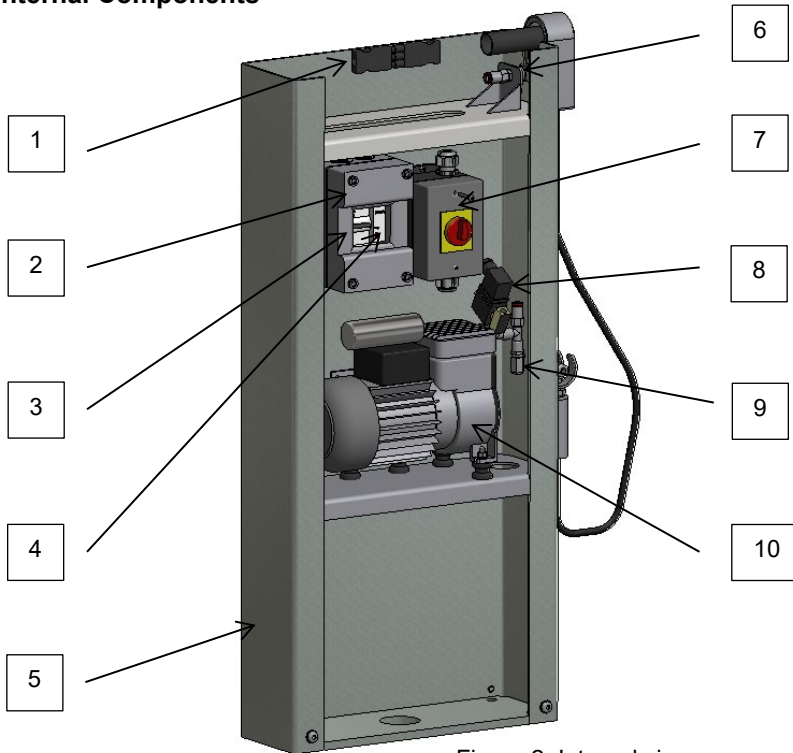


Figure 2: Internal view

Table 2: internal Components

No.	Description
1	Start button connector
2	Control box
3	Combi HPFI
4	Timer
5	Base
6	Quick connection air
7	Circuit breaker
8	Solenoid valve
9	Security valve
10	Compressor

SAFETY INFORMATION

IMPORTANT: Read these instructions before product installation and operation

Before product installation and operation, please read the following safety information and sections in this manual concerning operation and installation. In addition to addressing safety concerns, reading this material will also help prevent damage to the product.

Failure to install and operate this product in accordance with this information or using unauthorized spare parts could cause damage to the product and could result in severe bodily injury, including death in extreme cases.

GENERAL SAFETY INFORMATION

- If this product has been damaged, the power supply should be turned off immediately by a qualified service technician or electricity provider.
- Only qualified service technicians should carry out service on this product.
- Wear safety glasses, when servicing this product.
- Compressed air can be dangerous; do not direct airflow at a person's head or body.

TO REDUCE RISK OF ELECTRIC SHOCK

- Do not use this product with electrical voltages other than those stated under Technical Specifications.
- Do not install this product in any area where it will be subjected to above-normal amounts of rainfall, other liquids, moisture, or areas subject to above-normal flood risk.
- Do not attempt to service this product if it submerged in water. A qualified service technician or electricity provider should turn off the power supply to the product.

TO REDUCE RISK OF EXPLOSION OR FIRE

- Service and operate this product only in well ventilated areas.
- During spraying with combustible liquids risk of explosion may arise, particularly in closed rooms.
- Do not use this product in or near explosive atmospheres or where aerosol products are being used.
- Do not use this product in or near areas with combustible or explosive liquids or vapors.
- Do not use this product near naked flames.
- Do not pump any other gases other than atmospheric air.
- Do not pump combustible liquids or vapors with this product.

COMPRESSOR SYSTEM SAFETY INFORMATION

- Ensure compressor system is always protected against rain, moisture, frost and dust.
- Ensure all openings on compressor system are kept free of restriction and never blocked. Keep all openings free from dust, dirt and other particles.
- Never insert fingers or any other objects into fans of compressor system.
- The compressor system is thermally protected. It will automatically turn off if overheating and will automatically restart when temperature returns to operating level.
- This product may only be connected to units or tools with a maximum pressure higher or equal to that of the compressor.
- The surface of the compressor can get hot. Do not touch compressor motor during operation.
- The compressor is constructed and approved for a maximum pressure as stated under Technical Specifications.
- Do not operate compressor at ambient temperatures exceeding 45°C/113°F or falling below -10°C/14°F.
- Do not remove the protection covers on the compressor during operation as doing so may cause electric shock or other personal injury.
- All AC compressors are designed for 100% duty but 50% operation is recommendable to prolong the lifetime of the compressor.
- The compressor motor does not require oil. Do not lubricate the motor with oil, as it will destroy important components.

OPERATION

General use

Before turning on the pump, ensure the Combi HPFI (Table 2, Item 3) is in the ON position.

Turn on the pump by moving the circuit breaker to the ON position (Table 2, item 7). The pump is now ready for use.

The pump handle (Figure 3) is used to fill tires with air. The pump head accommodates the three common valve types used on bicycle tires: Dunlop, Schrader, and Presta. The pump can be used for any tire with these valve types and in addition to bicycles can be used for tires on items such as mopeds or children's carriages.

Push the start button (Figure 3) on the side of the air pump to start the air pump system. Press the pump handle down on the valve and the air will flow in to the tire. Keep pressing the pump handle down on the valve until the desired pressure is reached. After 30 sec. the air pump system will stop and wait for another push on the start button to activate the air pump system for a new sequence of 30 sec.

After using the air pump system, place the pump handle on the hook of the side of the cabinet (Figure 3).

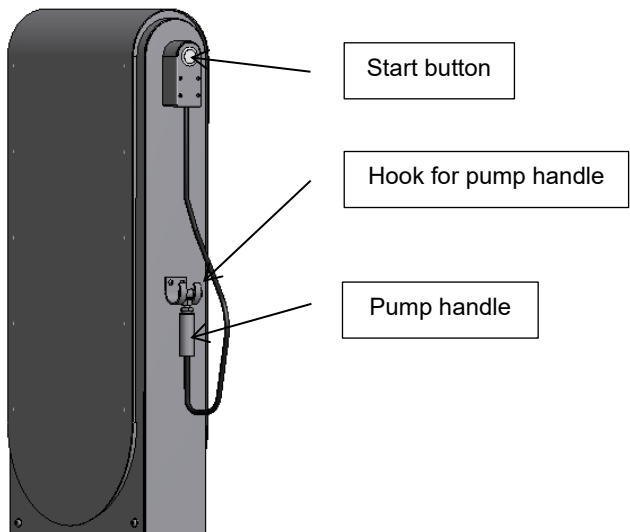


Figure 3: Pump view

INSTALLATION

ATTENTION: During installation, ensure that the frame is positioned in the concrete foundation in a level position. This should be done using appropriate measurement tools, and will ensure that the mounted air pump system will be installed in the correct vertical position.

Embedment

To install your air pump system the frame must be embedded by casting it into a concrete foundation (Figure 4). The size of the cast concrete is approximately 700 x 500 x 200 mm.

We recommend that one 50 mm pipes is led to the foundation and casted into the concrete.

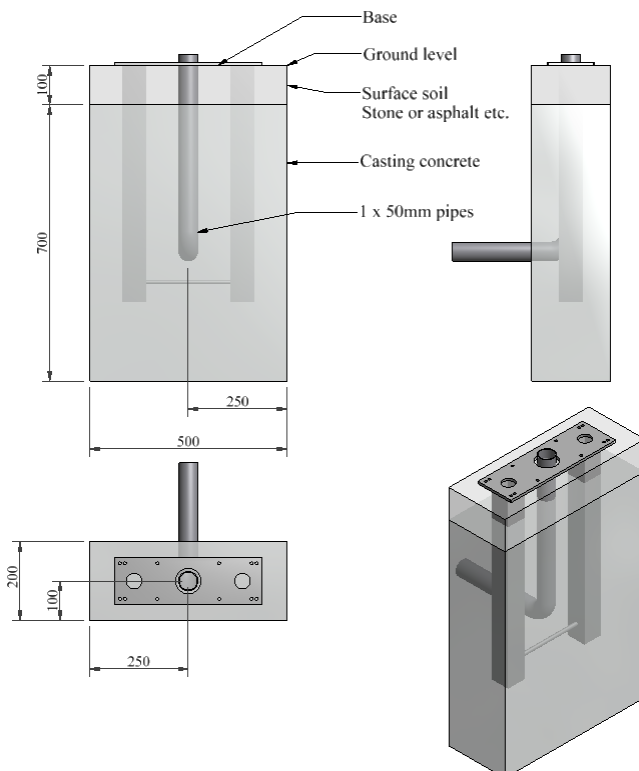


Figure 4: Casted concrete foundation

Mounting

The air pump system is mounted on top of the frame (Figure 5). It is secured in place with four M10 x 25mm bolts and 4 M10 washers which connect into the frame.

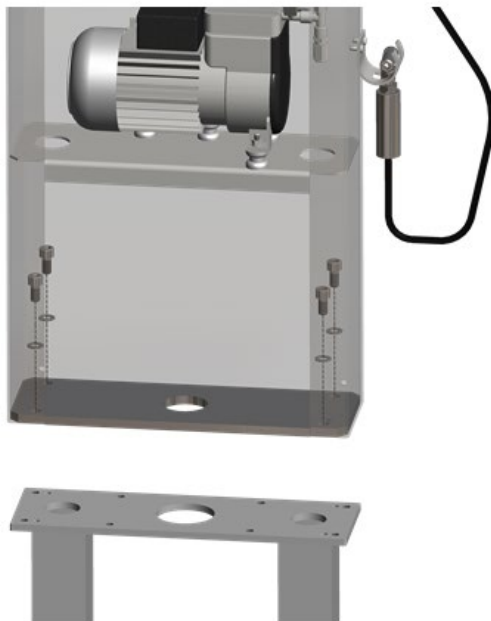


Figure 5: Mounting air pump system onto the frame

Electrical

SAFETY WARNING: Incorrect electrical connection may result in electric shock. The electrical connection must be carried out in accordance with local electrical regulations and by qualified electricians.

ATTENTION: Make sure that your air pump system is disconnected from the external power supply by turning off the Circuit breaker before changing, plugging or unplugging any component inside your air pump system. All plug/Unplug operations must be done with **POWER OFF**.

The external power supply cable is entered from beneath the air pump system through the corrugated pipe (Figure 6).

The external power supply cable is placed and connected according to Figure 6 and Table 3, page 12. The external power supply cable is connected to the circuit breaker (Figure 7).

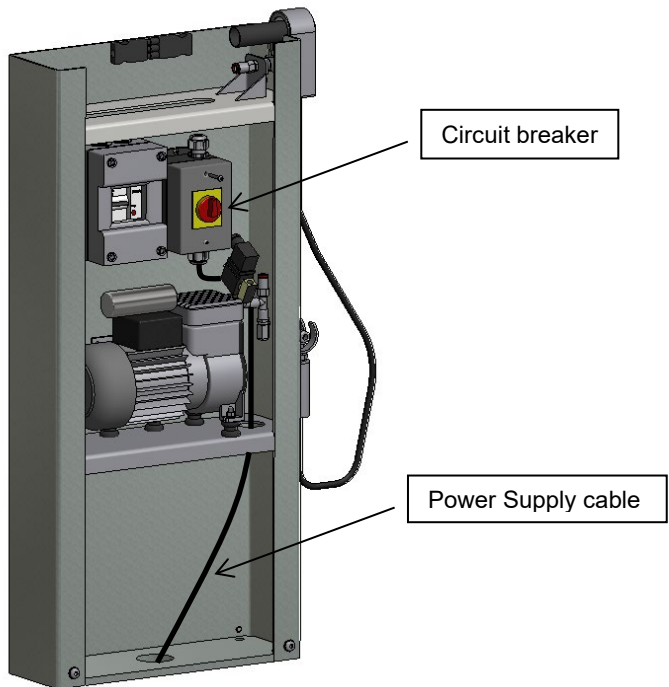


Figure 6: External power supply cable connection

Table 3: Electrical connections

From		To	
Description	Cable	Description	Terminal
External Power Cable	230Vac 50/60Hz (3x1,5mm ²)	Circuit breaker	N
			2
			Ground

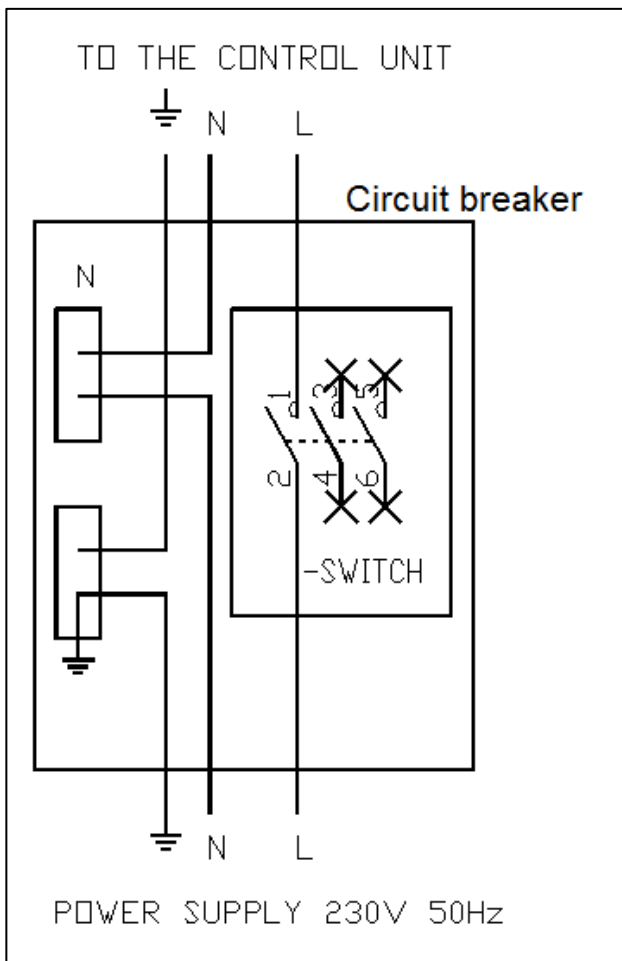


Figure 7: Connection diagram

Main diagram of the air pump system internal components

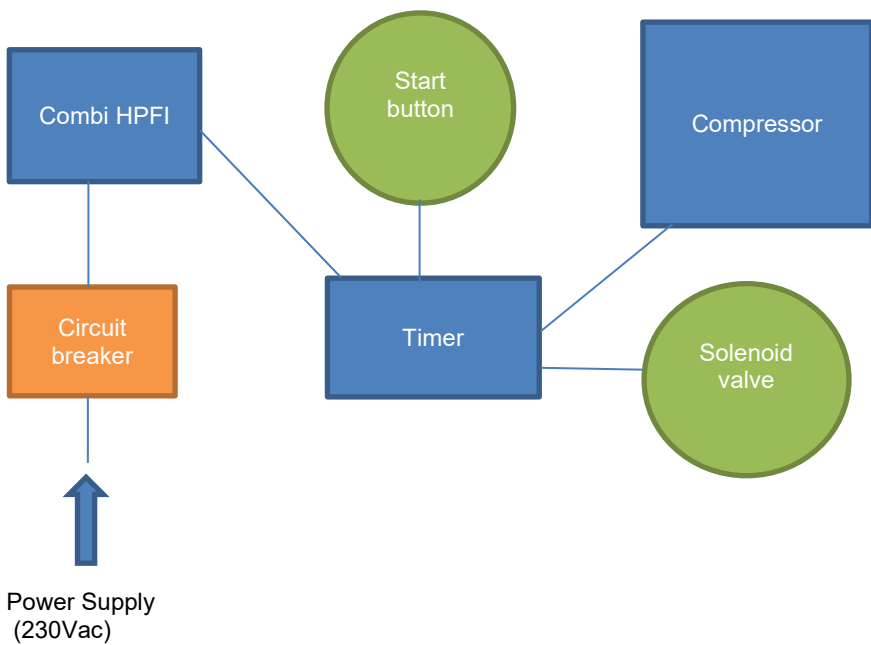


Figure 8: Main diagram of the air pump system components

TECHNICAL SPECIFICATION

Overall Dimensions

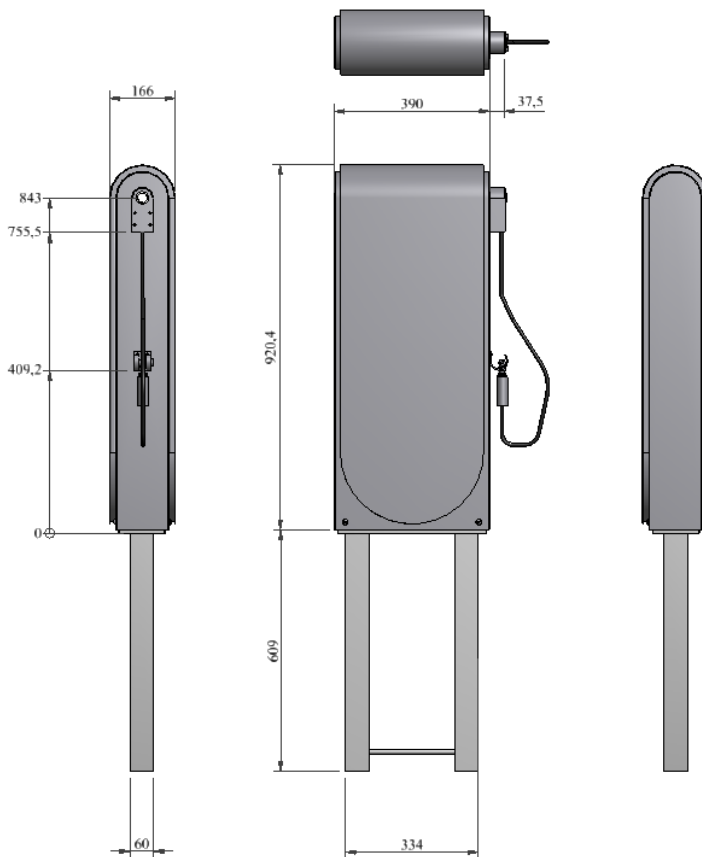





Figure 9: Overall dimensions

Table 4: Technical specification

Model	
Model no.	CARPU2011
Materials and finish	
Outer casing	3mm Aluminum Aluminum or powder coated
Hose	Armored steel hydraulic air hose.
Pump handle	Accommodates Dunlop, Schrader, and Presta valve types.
Weight	30kg
Compressor	
Max pressure	10bar (Factory setting 6bar)
Noise in app.	50dB
The compressor is oil free and drains automatically.	
Electrical data	
External fuse (Max.)	13A
Internal fuse	10A Combi HPFI
Voltage	230Vac
Frequency	50/60Hz
Ampere	230V/1A
Power	213W
Consumption	30kwh (Estimated annual electricity consumption based on used 40 times a day)
Protection degree	IP45 Type 3R enclosure
Temperature range	-10°C - +45°C
Class	Class 1 
WEEE	
CE	

MAINTENANCE

Regular maintenance will prolong the life of your HITSA product and also ensure optimal operating performance.

HITSA recommends that the air pump system should be maintained according to the following maintenance schedule.

Table 5: Maintenance list

Maintenance list	Monthly	Semi Annual	Annual
Check the pump handle and rubber gaskets for proper functioning. Replace gaskets if necessary.	•		
When the HPFI switch located in the fuse box (Figure 1, item 2) is switched on (1) it must trip when the test button (Test) is pressed.		•	
Remove dirt from the cabinet with detergent. For regularly cleaning, detergent should not contain abrasives or solvents.		•	
<p>Graffiti:</p> <p>Graffiti can be removed with benzene, turpentine or in difficult cases with metyletylketon (MEK)*.</p> <p>Cleaning must be followed by a wax treatment.</p> <p>*By using metyletylketon (MEK) the surface may not be rubbed more than maximum 4-5 times during each application.</p>			
<p>Repairing minor damage:</p> <ol style="list-style-type: none"> 1. Gently sand damaged area, without damaging coating further. 2. Remove loose particles. 3. Apply refinish. 			
<p>Recommended products:</p> <p>Refinish: Standard paint in machining RAL color. Cleaner: Neutral pH detergent; value from 5 to 8 Wax: General-purpose wax used to protect painted metal surfaces</p>			

SPARE PARTS & WEAR PARTS

Table 5 identifies spare parts available for this product which may be installed by a HITSA Service Partner or by a certified professional.

Wear parts are identified in the table by an asterisk (*). Wear parts, are those parts which will need to be replaced on a regular basis due to normal product use. Frequency of replacement depends on use patterns specific to each product installation location.

To order spare parts or enquire about service options, please contact HITSA through the contact information found on the back page of this manual.

Table 6: Spare parts

Description	Part no.
* Pump handle gasket kit	45800028
Pump handle spare parts kit	45800025
Pump handle and hose	45800039
Hook for pump handle	31800084
Cover for hose	31800092
Start button	10040638

TERMS & CONDITIONS OF SALE

HITSA Terms & Conditions of Sale are available on the HITSA website. This product has a 1-year warranty covering manufacturing defects. Warranty coverage does not include damage due to vandalism. Warranty coverage does not include replacement of parts which require replacement due to normal product use. To maintain warranty coverage, all product servicing must be completed by a HITSA Service Partner or by a certified professional.

HITSA reserves the right to modify technical specifications and offer alternative models of this product.

HITSA & OUR URBAN CYCLING SOLUTIONS

HITSA proudly offers a range of products and services all focused around the theme of Enriching Urban Life.

HITSA product areas include Urban Lighting Solutions, Urban Furniture Solutions, and Urban Cycling Solutions. Design and quality are emphasized in all HITSA products, along with environmental and energy saving considerations. In addition to our product areas, HITSA Mobility offers consultancy services related to mobility management and the promotion of alternative forms of transportation.

HITSA Urban Cycling Solutions (UCS) includes products such as bicycle shelters, bicycle stands, and more sophisticated products such as cyclist counters, and air pumps.

CONTACT INFORMATION & SERVICE SUPPORT

Please contact HITSA if you have questions about your product, require service support, or would like to enquire about other products and services.

Albuen 37
6000 Kolding
Denmark

Tel +45 7557 4155

hitsa@hitsa.dk
www.hitsa.com

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