



**Leichtbau  
Saugsysteme**



## **An advantage when transport is needed**

The ultra-light Herga lightweight suction system for manufacture and production

## Light, flexible and proven

If you need to transport parts during production, the Herga lightweight suction system offers you enormous advantages.



### **Suitable for many sectors**

Typical sectors in which the Herga lightweight system can be used are mechanical and mould engineering, robot and transfer handling systems, packaging machines and toolmaking.



### **Proven over many years of use**

The Herga lightweight suction system is suited for practical applications. Many thousand parts have been in use for years, in large and medium-sized companies, and also internationally.



### **Enormously flexible**

A wide range of applications results from just a few parts.



### **Ultra-light and stable**

The Herga lightweight suction system is made of stable synthetic material. It is considerably lighter than the usual suction systems made of aluminium and steel.



### **Energy efficient**

with its low weight, the suction system in addition saves energy.



### **Easy to handle**

You put the suction head into position by hand, and thanks to its anti-twist latching system, it remains in the desired position.



### **Quickly installed**

A suitable gripper is quickly put together. Three tools are all you need: An Allen key, cable pliers and a "13/14" open-end wrench.



### **It works in a team**

You can arrange several suction pads next to each other in a tight space, to your specific requirements.



### **Immediately ready to use**

The starter kit contains all the required parts and tools, so that you can get to work immediately.



### **Short delivery times**

We can deliver the parts you require in a very short time.

## The Herga lightweight suction system: As varied as your requirements



**The round bellows** suction pad with 1.5 folds fits very well onto curved surfaces. In addition, it has an outstanding cushioning effect. It retains its shape even under great acceleration. The suction material consists of NBR and is also available in silicone or natural rubber versions. The diameter is variable, from 16 mm, 20 mm to 33 mm.



This round bellows suction pad **provides a lifting capacity of 3.3 kg** at an 80 % vacuum with a double safety function. It has 1.5 folds and a diameter of 40 mm. The suction material is made of NBR.



This oval bellows suction pad with 1.5 folds lifts **narrow and cylindrical parts** and pipes with a diameter of 25 mm. The lifting capacity is 3.4 kg at 80 % vacuum with a double safety function. The suction material is made of NBR. Dimensions: 25 x 50 mm.



**This flat suction pad with an oval shape** is ideal for flat and elongated components. It has a support surface on the bottom and a dual-ear pinch clamp to prevent unintentional twisting. The suction material is made of NBR. Dimensions: 45 x 15 mm.



This suction pad can be used in particular **for studded plates and metal plates with folds**. The suction material is made of neoprene, the diameter is 23 or 40 mm.



**This suction pad is spring-mounted and attaches itself very gently.** Differences in height of up to 25 mm can be bridged with it.



**We can produce a fully customised** connection for your particular requirements, up to a suction pad diameter of 50 mm.



**The sensor holder** (M12x1 or M8x1) is a special feature of this suction system. It enables positional sensors to be attached.



**The magnet gripper has a compact form** and takes up very little space. The holding load is 85 N with a diameter of 30 mm. It is particularly suitable for perforated plates and plates with wrinkling. The casing is made of high-strength aluminium.



**The Herga starter kit** contains the basic equipment set up the gripper immediately: Clamp mountings, suction pad holders, suction pad, vacuum connections, tools. You are well equipped for a wide range of tasks. Off you go! You can find a precise explanation of the starter kit at [www.konstruktionsbuero-herga.de](http://www.konstruktionsbuero-herga.de)

# Created from experience – for practical applications

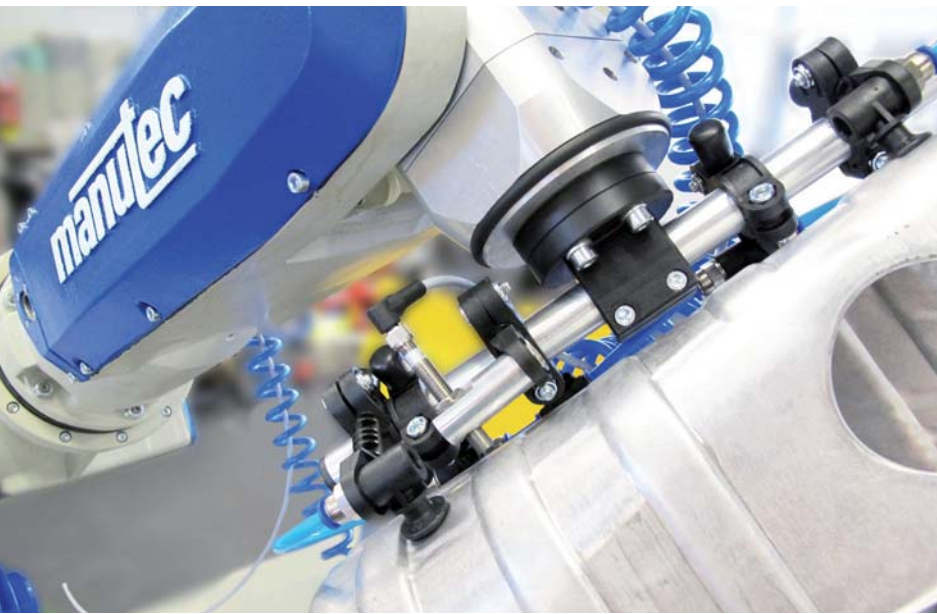
As manufacturing experts you are always looking for ways to optimise your production. The Herga lightweight suction system gives you a big advantage when transporting light and medium-weight parts. It is just as robust as standard suction systems made of aluminium and steel, but considerably lighter and more flexible.

The basic material is made of synthetic material. The lightweight suction system can be combined with a large selection of suction pads. This enables you to meet all your requirements – from an individual customised suction pad connection down to bellows suction pads and flat suction pads. You can build the right gripper in a flash, as only three tools are necessary. Just a few basic parts open up an enormous range of applications for you.

The Herga lightweight suction system was created from practical situations and has been proven many times in practical applications. It was developed by Herga design, specialised in toolmaking and engineering since 1991. The lightweight suction system is used in mechanical and mould engineering, in robot and transfer handling systems and in packaging machines as well as by tool making manufacturers, to name a few examples.

 <p>001-101 Ø30 / Ø12      001-102 Ø20 / Ø12      001-103 Ø12 / Ø12</p>	<p>You have a choice of three diameter sizes for clamp mountings that you can combine as you like.</p>
 <p>001-001 Ø12      004-401 Ø20</p>	<p>And you can choose between a rigid and a spring-mounted suction pad.</p>
 <p>001-004      001-002      001-006      001-022      001-020</p>	<p>The correct connection for the suction pad is available for every suction type. The suction pads are also supplied with a uniform threaded bore.</p>
 <p>002-035      002-065      002-064      002-011</p>	<p>You choose the correct size and variation, depending on your requirements.</p>
 <p>002-022      002-014      002-012      002-013</p>	<p>All vacuum connections and the end sections are supplied with a "1/8" thread.</p>
	<p>Quickly assembled from just a few single parts, ultra-light, flexible and immediately ready for use: An example of a finished suction pad!</p>

## Lightweight suction systems in use



The Herga lightweight suction system is used in a wide variety of fields, including robot technology. It is ideal for removing metal plate and plastic parts, as you can see in this example of a one-armed robot.

## Are you interested?

You can benefit immediately from the unique advantages of the Herga lightweight suction system and simplify the transport of your parts. Get in touch with us.



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