

## ***FLEXI CARBON GRIPPER***

The fastest, lightest, most compact  
and the most silent on the market

French technology,  
developed and commercialized by Defitech.

## THE QUESTION OF OUR CUSTOMERS

« How to lighten the technology  
of the gripper ? »

It's to answer to this request  
that Defitech has developed  
and commercialise a new  
generation of gripper, the  
lightest on the market.

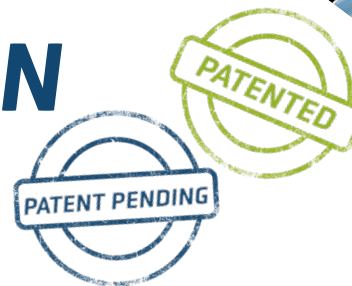
We put our expertise at your  
disposal for your gripping  
projects. Our team of experts  
allows us to respond clearly to  
your expectations.

Choose a smaller robot with the  
Defitech gripper !

The lightness of the Defitech  
gripper will allow you to  
optimize the choice of your  
robot by :

- Reducing its size
- Reducing its energy  
consumption
- Reducing maintenance costs

# FLEXI CARBON GRIPPER



## FRENCH



Our gripper are developed and  
manufactured in France



## PATENTED

Defitech has protected its  
innovations with several patents  
and patent applications.



## GRIPPING POWER *without compromise*

The grip is optimized by the  
design of our technology.



## DESIGN

A sober and pure design to  
highlight your installations

## FAST DELIVERY

The complete control of the  
manufacturing of the Defitech  
grippers allows an optimization of  
the deadlines.

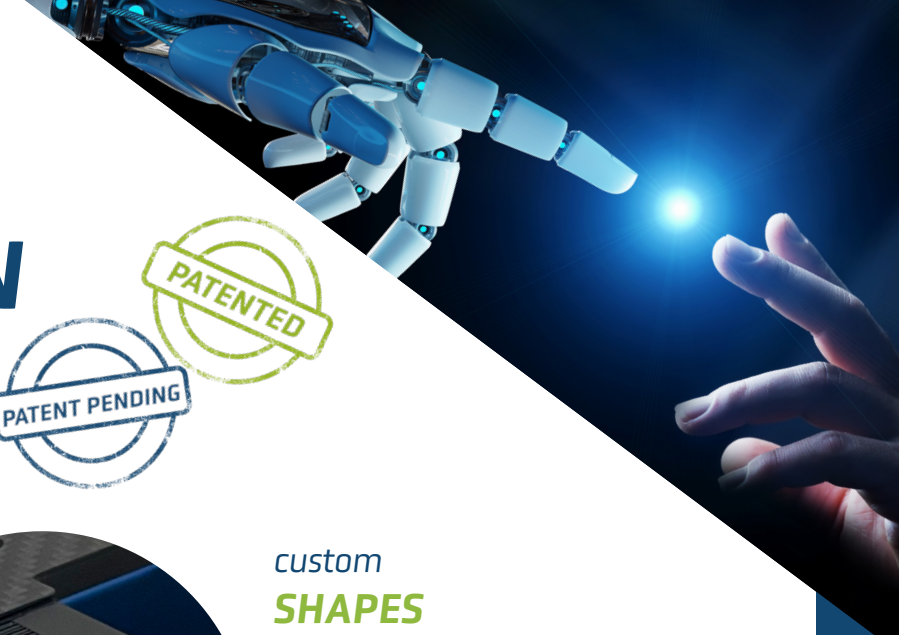
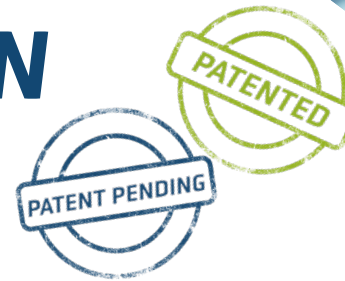
Defitech keeps its standard  
formats in stock for greater

## FLEXIBLE *Gripping solution*

A wide range of products. Standard  
or specific sizes and formats. Sensor  
insertion (cell and camera).



# FLEXI CARBON GRIPPER



## A TEAM THAT LISTENS TO YOU

Our technical sales representatives are in constant communication with our design offices in order to bring you the best possible solutions.

Our Flexi carbon gripper can be customized according to your needs.

Our Flexi carbon grippers are equipped with a wide range of quality foam and suction cups.

## FRENCH

*Developed and manufactured in France*

Registered patent: our technology has been protected by several patents and design registrations.

## EASY to handle gripper

The grip is optimized by the design of our technology. Assembly and commissioning is simple and intuitive.

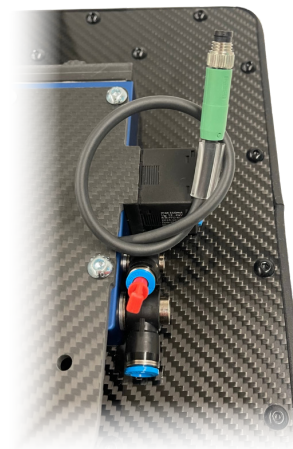


## COMPLETE STANDARD RANGE

We offer a wide range of standardized grippers.

## SOLIDITY approved

Made of Carbon, the Flexi Carbon Gripper is very resistant.



## custom SHAPES

Adaptation to specific products.

## ELECTRONIC VACUOSTAT

Electronic display & information feedback to your robot.

Connections adapted to all robot brands (Fanuc, Staubli, Doosan,...).

## FLANGES adapted to your needs

Standard ISO 50 mounting flange.  
Custom mounting option available.





### **THE FASTEST ON THE MARKET**

- Ultra fast gripping,
- Production gain,
- Reduction of energy consumption time.



### **THE LIGHTEST ONE THE MARKET**

- Preservation of robot capacity,
- Increase the robot speed,
- Reduction of inertia phenomena,
- Reduction of energy consumption.



### **THE THINNEST AND MOST COMPACT OF THE MARKET**

- Center of gravity as close as possible to the robot,
- Easy assembly and integration



### **THE MOST SILENT OF THE MARKET**

- Reduction of the noise impact in the workshops
- Adjustable noise level

# **FLEXI CARBON FOAM GRIPPER**

## **ADAPTABLE PRODUCT**

- Flexible grip.
- Easily adapts to different shapes and surface conditions.
- Compatible with partially open surface.

## **RANGE OF STANDARD FORMATS**

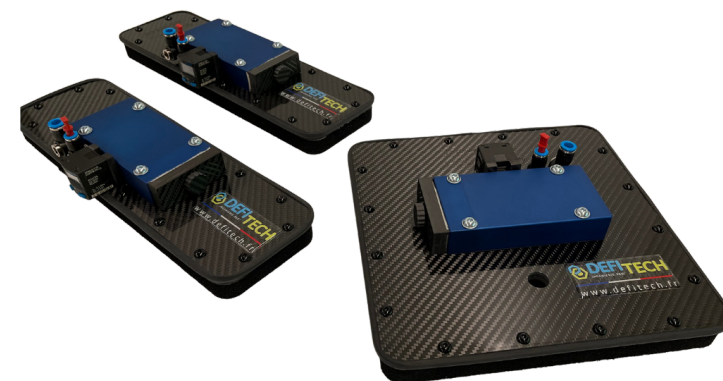
Defitech offers a wide range of standard formats.

## **TYPE DE MOUSSE VARIABLE**

We adapt the quality of the foam to your needs.

## **GRIPPER POWER**

Power without compromise.



# FLEXI CARBON CUP GRIPPER



## THE FASTEST ON THE MARKET

- Ultra fast gripping,
- Production gain,
- Reduction of energy consumption time.



## THE LIGHTEST ONE THE MARKET

- Preservation of robot capacity,
- Increase in the speed of movement of the robots,
- Reduction of inertia phenomena,
- Reduction of energy consumption.



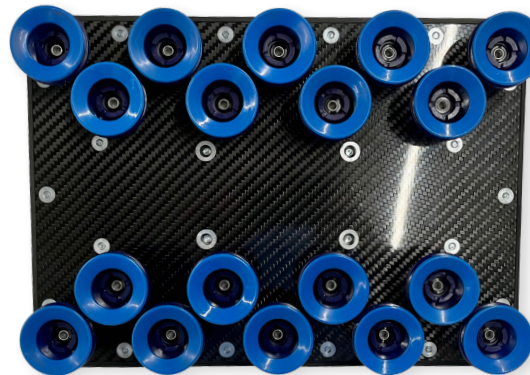
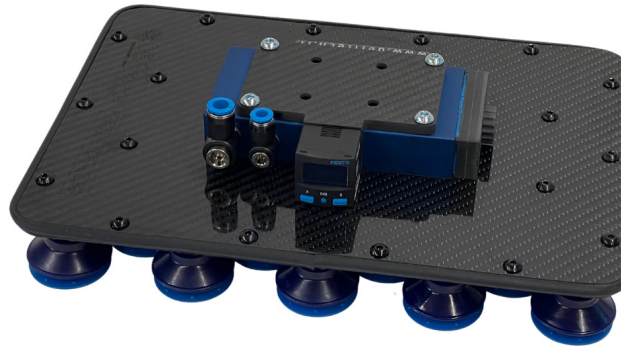
## THE THINNEST AND MOST COMPACT OF THE MARKET

- Center of gravity as close as possible to the robot,
- Easy assembly and integration



## THE MOST SILENT OF THE MARKET

- Reduction of the noise impact in the workshops
- Adjustable noise level



## STANDARD RANGE

Defitech offers a wide range of standard formats.

## PRECISION

Precise and localized suction points according to the need.

## QUALITY

Robust and well finished.

## GRIPPING POWER

More concentrated and powerful suction force.

# FLEXI CARBON CUP GRIPPER Adjustable version



## THE FASTEST ON THE MARKET

- Ultra fast gripping,
- Production gain,
- Reduction of energy consumption time.



## THE LIGHTEST ONE THE MARKET

- Preservation of robot capacity,
- Increase in the speed of movement of the robots,
- Reduction of inertia phenomena,
- Reduction of energy consumption.



## THE THINNEST AND MOST COMPACT OF THE MARKET

- Center of gravity as close as possible to the robot,
- Easy assembly and integration



## THE MOST SILENT OF THE MARKET

- Reduction of the noise impact in the workshops
- Adjustable noise level



## STANDARD RANGE

Defitech offers 5 standard sizes.  
From 200x300 to 330x530mm.  
4 to 8 cups.  
Specific design on request.

## PRECISION

Precise and localized suction points according to the need.  
Adjusting the center distance of the suction cups.

## GRIPPING POWER

Suction cups Diameter 50 to 100mm.  
More concentrated and powerful suction force.



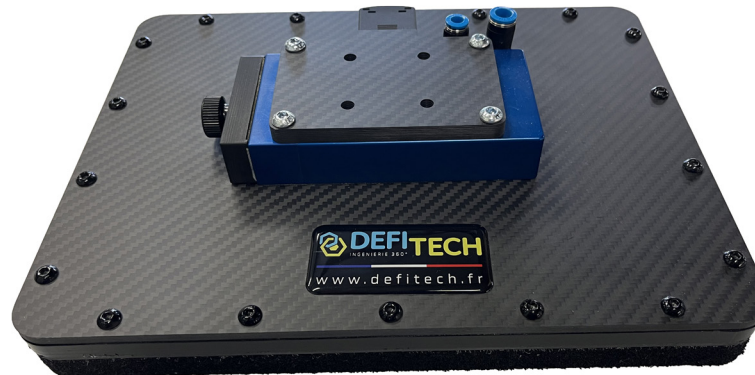
# CHECK VALVES GRIPPER

## NEW RANGE

Défitech has developed the check valve version of its Flexi Carbon Gripper.

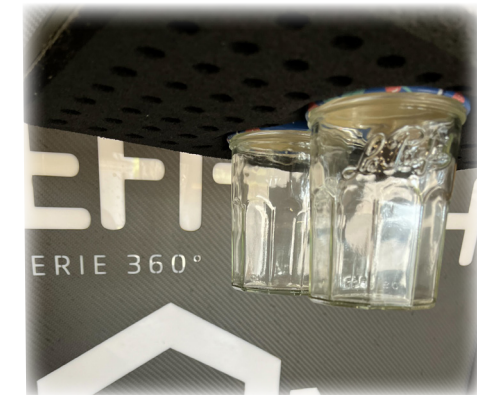
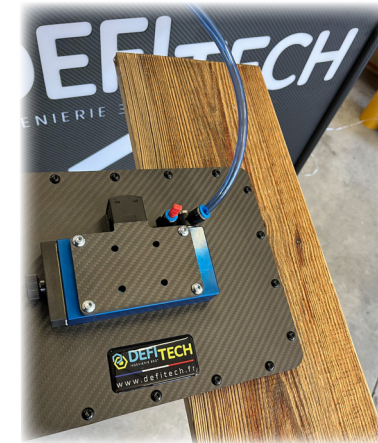
## THE BENEFITS

- Ultra-flexible gripper in terms of dimensions and shapes, single or multiple,
- Works with standard Défitech vacuum generators, no need for external vacuum generators,
- Minimized energy consumption,
- Possibility of doubling the power for more speed at the gripper,
- Design optimized for ease of maintenance.



## APPLICATIONS

- Handling multiple dimensional products,
- Handling products in a wide variety of sizes and shapes.



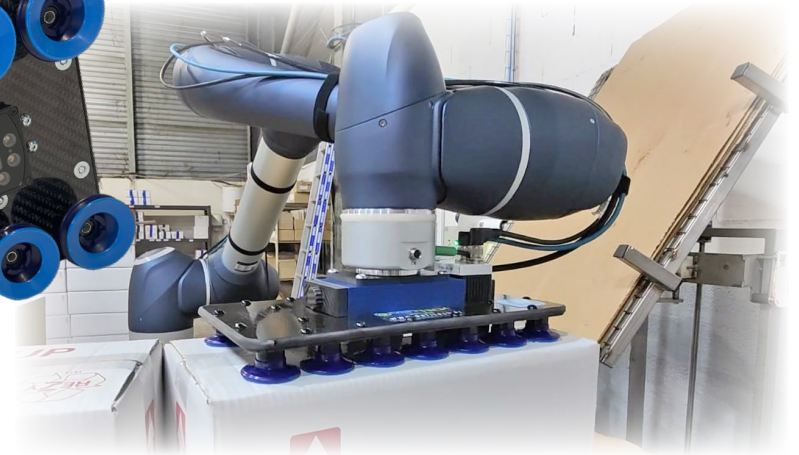
# GRIPPER WITH INTEGRATED MULTIMARKET CAMERA

## NEW RANGE

Defitech gripper design integrates camera and other accessories through the housing.

## THE BENEFITS

- The sensor is protected from possible impacts,
- Positioning of the sensor according to your need,
- avoids the integration of a camera on an external arm,
- Allows the robot to take information as close as possible to the product,
- Optimization of the robot's cycles and movements.



## APPLICATIONS

- Unloading of containers,
- Palletizing and unpacking,
- Flexible pick-up: positioning of the part before pick-up by the robot to save time.
- Example: pick up of a cardboard box not referenced on a conveyor.



# FLEXI CARBON GRIPPER CUSTOMIZED

## A PARTICULAR PROJECT? A SPECIAL REQUEST?

We can answer, contact us by mail or phone and we will study your project.

The knowledge acquired by Defitech during many years in the field allow us to adapt our products according to your needs.

## GRIPPER LARGE SIZE

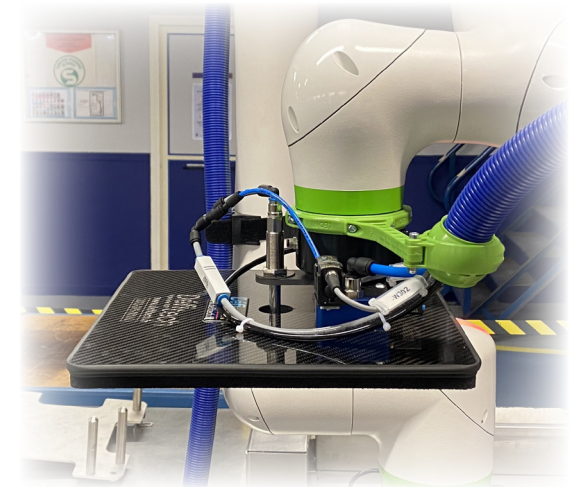


## MULTIFUNCTIONAL GRIPPER



Suction  
cup label

Gripper  
product



# CUSTOMIZED FLEXI CARBON

## A PARTICULAR PROJECT ? A SPECIAL REQUEST ?

Our rectangular standards do not correspond to your products.

We can make round or oval vacuum or foam grippers, or any other tailor-made shapes, even the most surprising.

Allows you to really adapt to any type of product, even with very specific characteristics: example of flexible products used in battery assembly.

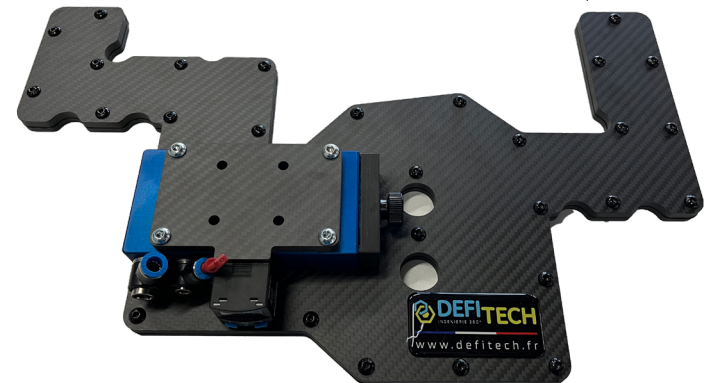
## SHAPE CUSTOM GRIPPER



Different size and shape



Suitable foams or suction cups



# FLEXI CARBON GRIPPER MULTIZONES

## A SUCTION AREA IS NOT ENOUGH FOR YOUR PROJECT?

Defitech's design office will help you choose the best solution and can design the entire gripper, right up to its attachment to the robot.

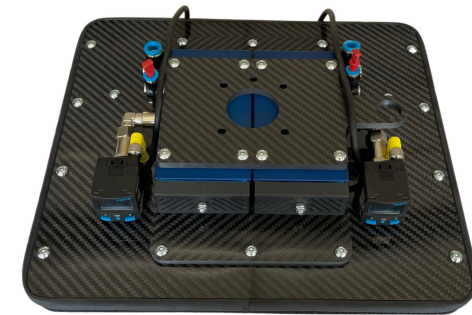
Defitech realizes all the linking parts with the use of carbon to optimize the rigidity and the weight of the whole.

Defitech prepares and adapts the pneumatic and electrical wiring to the robot

### DOUBLE GRIPPER



### GRIPPER MULTIZONE



We offer custom-made multi-zone grippers:

- Either in the same box,
- Or in independent boxes,

Allows to pilot independently each zone to allow multiple grips, by managing and detecting the incomplete ones.

Allows to keep standard box sizes to optimize your maintenance.



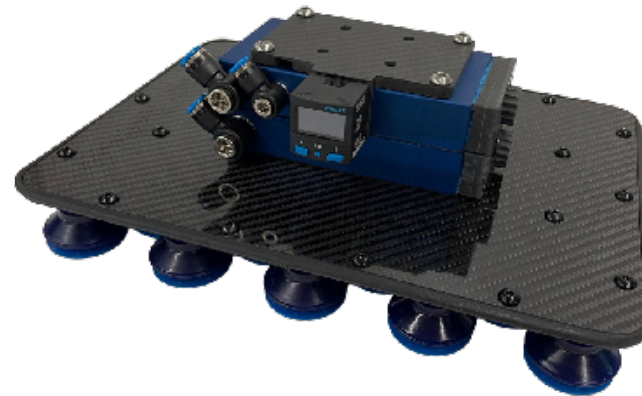
# OUR OPTIONS

## ADDITIONNAL NEEDS ?

In order to offer you solutions adapted to your needs, Defitech has developed different options that can be adapted to your requirements in order to offer you the best solution.

The Defitech team will propose its options according to your objectives.

## ADDITIONAL BOX TO INCREASE POWER



## TOOL CHANGER



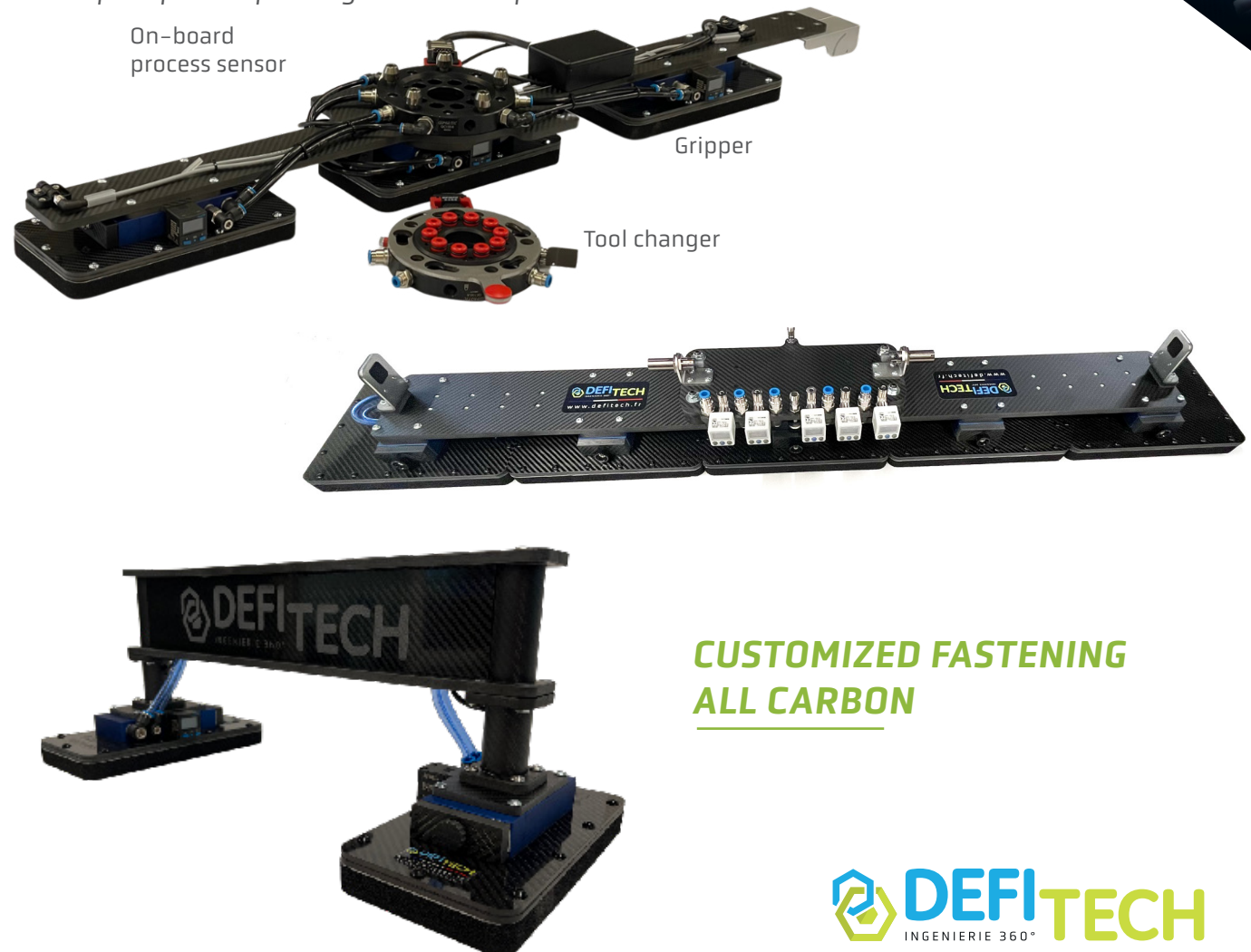
## ROBOT MOUNTING STANDARD OR REMOTE



# OUR OPTIONS

## SPECIAL FIXINGS + REMOTE FIXINGS

Example of a complete system development



## ADAPTABILITY

Defitech adapts a wide range of options according to your needs.

Some examples of our many possibilities :

- Detection of deformation in case of robot impact. Process security.
- Laser sensor for Z control.
- Tool changer for easy maintenance.
- Product presence sensor.

The mastery of carbon design allows Défitech to produce ever lighter complex grippers.

## CUSTOMIZED FASTENING ALL CARBON



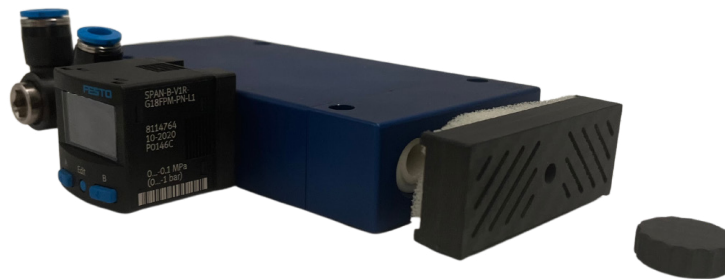
# MAINTENANCE AND CONSUMABLES

## QUESTIONS ABOUT THE AFTER-SALES SERVICE?

The Defitech grippers have been developed to make maintenance as easy as possible. The maintenance of the vacuum generator is done in less than a minute, without any tool.

All consumable parts for our grippers are kept in stock at DEFITECH to guarantee the best delivery times.

*Filtration/noise reduction foam.*  
*Vacuum generator*



*Supply of a wide range of suction cups*







## DEFITECH FOAMS

With DEFITECH brand gripper foams.

TOP CHRONO, in less than 2 minutes, it's changed!

- Maintenance becomes simple and fast
- Reduced machine downtime for real productivity gains
- Elimination of glue residues on the foam bonding surface.
- No more need for solvent-based cleaning products. Good for the operator and the environment!
- Can be used on all brands of grippers!

# THE DEFITECH FOAMS

*Foams without glue residue !*



*Defitech standard foams and cutting of foams custom-made*





[www.defitech.fr](http://www.defitech.fr)



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