WHY CIFA

Truck Pumps
CARBOTECH Series
Ahead of their times, innovating constantly the products. A commitment that, since the beginning, has seen us as key players, making the story of this industry. The introduction of carbon fiber in the construction of Carbotech series booms places itself in this journey, with the goal of improving performances of our equipments and quality of the job of those who use them every day in the job site.
PLACING BOOMS
Available lengths to reach all distances: from 39 meters to 80 meters.

PUMPING UNITS
Two open loop types and three closed loop types according to the desired way of pumping.

CONTROL SYSTEMS
Designed and positioned to facilitate job and to speed-up all operations.

STABILIZATIONS
Different types of stabilization in order to guarantee a safe work in a small area.

SAFETY
Different systems to work and move the boom in all its configurations in total safety.
In 2010 CIFA introduced the use of composite materials in the machinery construction industry, making a series of concrete distribution booms with this innovative technology. Thanks to the growing market demand, CIFA offers to the market a wider range of Carbotech Series, from 39 to 80 meters boom.
Lighter and, so, longer; but at the same time stronger and more resistant. CIFA Carbotech booms allow to obtain unparalleled results, overcoming inviolable limits, in terms of heights and lengths.

**+20% Stronger**

**TO WITHSTAND THE HARDEST STRESSES**
Composite materials offer higher resistance to strains and fatigue compared to steel.

**-25% Weight**

**LIGHTER, ALSO IN TRANSFERS**
To respect legal limits and at the same time to save fuel in transfers compared to traditional pumps of the same length.

**+20% Length**

**LONGER, TO GET ANYWHERE**
Greater boom length means less placings of the pump on the job site.

**LIGHTNESS, LENGTH AND STRENGTH: BEYOND ANY LIMIT**
STRENGTH AND RELIABILITY: The booms mounted on CIFA truck pumps combine both strength and reliability. Each section of the boom has been designed for maximum structural resistance and fatigue strength. All Carbotech booms are tested against fatigue at the TEC testing center, allowing us to certify the life of these components with a 5 years warranty.

VERSATILITY AND FLEXIBILITY: The different configurations of the booms on CIFA truck pumps ensure the greatest operative versatility and enable to reach almost any part of the construction yard, even those accessible with the most difficulty. Complete working flexibility together with great working speed, allows the complete extension of the boom and its perfect and fast positioning.
The working speed guarantees the complete extension of the boom and a quick and perfect positioning.

RZ type

Ideal for 5 and 6 sections boom. It provides maximum flexibility by combining R+Z solutions.

Available for:

RRZ type

It provides maximum flexibility by combining R+Z solutions.

Available for:
K60H - K80H

FOLDING SYSTEMS
Completely removable, the pumping unit ensures gentle, continuous and regular flow. This technology guarantees an extremely efficient system for pumping different types of concrete, with aggregates of all sizes, reducing the number of cycles per minute while maintaining the same flow rate, thus ensuring less wear and longer life.

**“S” Valve:**
The structure is made with varying thickness to achieve maximum resistance to wear even when using difficult types of concrete.

**WEAR RING AND WEAR PLATE:**
The ring and the plate are made of special anti wear material against abrasion and stress due to the concrete flow.

**CIFA Long Life Pipes**
CIFA truck pumps have long life pipes as standard equipment.

CIFA truck pumps have the first bend outside the pumping unit in long life pipes as standard equipment.
Closed Loop: Electronic management

**HP1608EC**
Available for:
K39H - K40H - K45H

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**HP1808ECX**
Available for:
K45H - K53H - K60H - K62H - K80H

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The electrical system can be detached for easy maintenance.

Ergonomic hydraulic controls for boom.

Remote control
Comfortable and lightweight for the boom control and for the management of the main functions of the machine.

Convenient cable control dedicated to the mixer driver. It can be used from both sides of the hopper.

The electrical system can be detached for easy maintenance.

Hydraulic controls on both sides of truck pump. The machine emergency stop is also positioned nearby.

Control panel positioned on the rear side.
Smartronic is the most advanced electronic management system for truck-mounted pumps in the market. It simplifies the operations and collects information to manage all the vehicle functions in the easiest and perfect way.

ASC Advanced Stability Control
(according to EN 12001:2012)

The ASC system controls, included in SMARTRONIC GOLD, the stability of the truck-mounted pump in real time. The system is intelligent and changes depending on the condition; in this way the mode of operation of the boom changes according to the configuration of the stabilization to maximize the use at any moment. Thanks to ASC, the machine is the one that cares about the total safety of each positioning, and being able to maximize the pumping phase in all circumstances.

ASC is supplied as standard for Carbotech series
The front stabilization is available in four design concepts: single horizontal, single, double and triple telescopic-X-style outriggers. The rear stabilization is available in three design concepts: fixed, single extension and swing-out. Each machine has its stabilization system according to the size of the boom.

**Front:** Single telescopic X style  
**Rear:** Swing-out

Available for:  
K39H - K40H

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**Front:** Double telescopic X style  
**Rear:** Swing-out

Available for:  
K45H - K53H - K60H

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**Front:** Triple telescopic X style  
**Rear:** Swing-out

Available for:  
K62H

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**Front:** Swing-out + Double telescopic X style  
**Rear:** Swing-out

Available for:  
K80H

All outriggers are designed to stabilize the machine in the right way in extraordinary tight spaces. The sequences of the extension phase are quick in order to accelerate the stabilization. Every Swing-out can be used as a tank; the capacity goes from 600 to 800 litres per each swing-out.
SAFETY

- MECHANICAL LOCK FOR ALL OUTRIGGERS
- GRID PROTECTION WATER BOX
- LIMIT SWITCH HOPPER GRID
- PROTECTION FOR S-VALVE CYLINDERS
- BOOM ROTATION LIMIT SWITCH
- SUPPORT PLATES HOLDER
- OUTPUT BEND LOCKING SYSTEM

FOLDING BUMPER BAR WITH LIGHTS INTEGRATED

TWO DIFFERENT TYPES OF SHUT OFF VALVE AS OPTION
The shut-off valve stops immediately the flow of the concrete.

- Shut Off valve on endhose
- Shut Off valve in pipeline
- Activated by remote control

- High pressure water pump
- Air compressor for pipeline cleaning
- Satellite systems Set-up for fleet management
- Rear camera

List of other components available on demand

OPTIONS
Find more info on trucks configuration at www.cifa.com/documentation
Discover more at www.cifa.com

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