CIFA®

A ZOOMLION COMPANY

WHY CIFA

Truck Pumps
STEELTECH Series

WHY CIFA

WE BUILD YOUR WORLD SINCE 1928

Since 1928, CIFA has been a technological leader in the production, transport and management of concrete. Thanks to its customized machines on demand, Service team always keen to provide technical support, award-winning Italian design and cutting-edge R&D and Testing European Center, CIFA has been providing innovative solutions for over 95 years.

RESEARCH AND EXPERIMENTATION CENTRE

ON-SITE TECHNICAL SUPPORT

CURIOSITY to increase satisfaction day after day

INGENUITY to turn products, strategies and visions into reality

FLEXIBILITY to adapt and react to any circumstance

ATTENTION to ensure long-lasting construction

C I F A

CIFA IDENTITY

CUSTOM MACHINES AND TAILORED SOLUTIONS

SUSTAINABILITY

TRAINING FOR OPERATORS

CIFA ACADEMY

MOUNTED ON ALL TRUCK BRANDS

MADE IN EUROPE ITALIAN DESIGN

PLACING BOOMS
Available lengths to reach all distances: from 20 meters to 58 meters.

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

PUMPING UNITS
Three open loop types and two closed loop types according to the desired way of pumping.

CONTROL SYSTEMS
Designed and positioned to make the job easier and to speed up all the operations.

SAFETY
Different systems to work and move the boom in all its configurations in total safety.

FINISHING
Customized painting available upon customers' request.

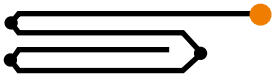
PLACING BOOM

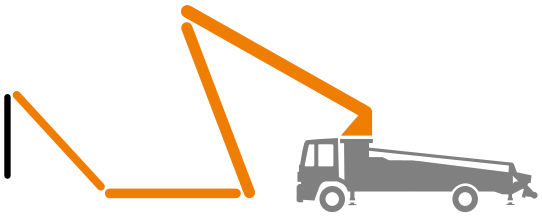
STRENGTH AND RELIABILITY:
The booms mounted on CIFA truck pumps combine both strength and reliability. Each section of the boom has been designed for maximum structural resistance and fatigue strength. These advanced booms reduce to the minimum the areas subjected to stress intensification when in operation.

VERSATILITY AND FLEXIBILITY:
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 positioning in few minutes.

ZR Type

Suitable for the boom opening inside the buildings and for concrete pouring near the truck pump.



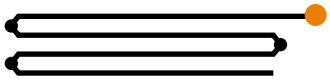


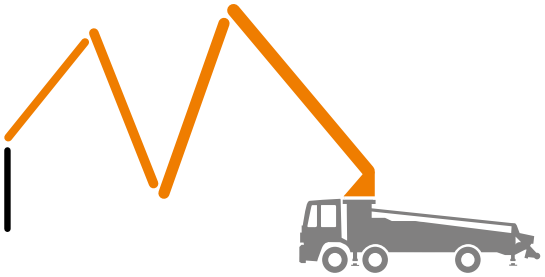
Available for:

K20L - K24L

Z Type

Quick opening operations for concrete pouring near and far from the truck pump.



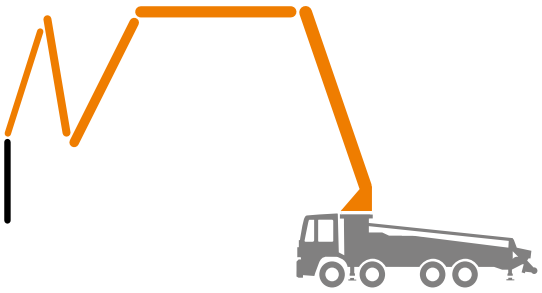


Available for:

K28L - K31L - K36L-5 - K36L - K38L

RZ Type

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



Available for:

K42L - K50L - K55L - K56L - K63L

The structural strength and stiffness of the sections ensure limited oscillations even on longer booms.

The working speed, guarantees the complete extension of the boom and a quick and perfect positioning.

FOLDING SYSTEMS

STABILIZATION

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 horizontal**
Rear: **Fixed**

Available for:

K20L

Front: **Double telescopic X style**
Rear: **Fixed**

Available for:

K24L

Front: **Double telescopic X style**
Rear: **Sngle telescopic horizontal**

Available for:

K28L

Front: **Single telescopic X style**
Rear: **Single horizontal**

Available for:

K31L - K36L-5

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

Available for:

K38L - K36L

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

Available for:

K42L - K50L - K56L

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

Available for:

K61L - K63L

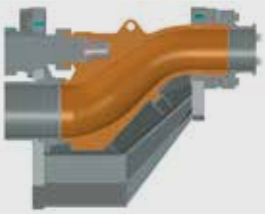
All outriggers are designed to stabilize the machine in the right way in extraordinary tight spaces.

The sequences of the extension phase are quick in order to accelerate the stabilization.

Optioanl plastic tanks integrated in the outriggers are available as optional.

PUMPING UNIT

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.



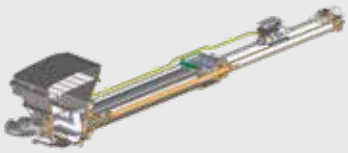
"S" VALVE:
The structure is made with varying thickness to achieve maximum resistance to wear even when using difficult types of concrete.

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 MADE BY CIFA
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.

Open Loop:
Hydraulic management



HP1606H

Closed Loop:
Electronic or hydraulic management

HP908EC

HP1608EC

HP1808ECX

PUMPING UNITS		HP1606H	HP908EC	HP1608EC	HP1808ECX
MAX. THEORICAL OUTPUT	m^3/h	160	95	160	180
MAX. PRESSURE ON CONCRETE	bar	53	80	80	83
MAX. NUMBERS OF CYCLES PER MIN.	n	30	30	31	27
CONCRETE CYLINDERS (DIAM. X STROKE)	mm	230x2100	200X1650	230x2100	260X2100
CONCRETE HOPPER CAPACITY	l	550	550	550	600
HYDRAULIC CIRCUIT	type	open	chiuso	closed	closed

THE V-STOP TECHNOLOGY

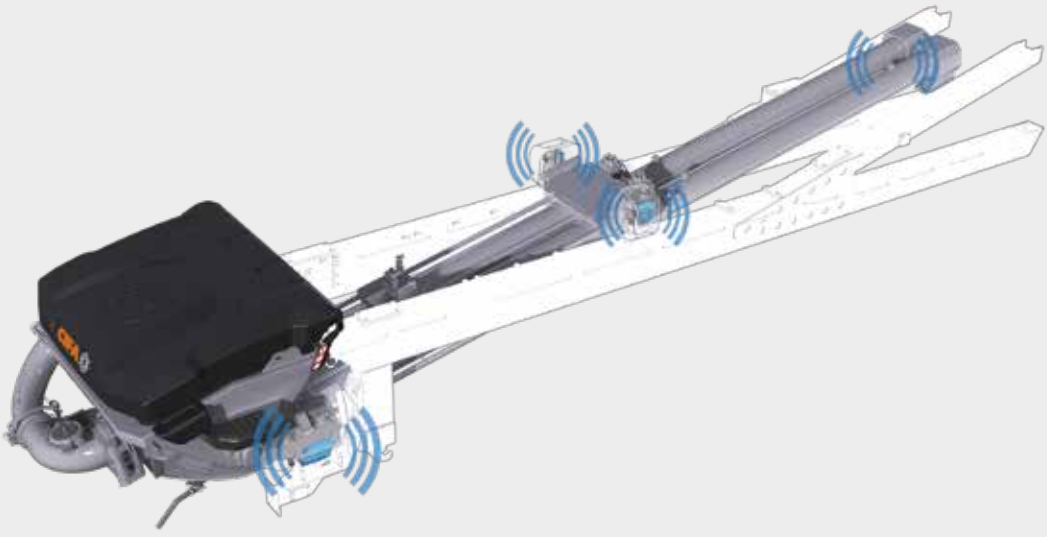
V-Stop

A revolutionary system to drastically reduce vibrations, wear and noise. The "core" of the vibration is caused by the pumping unit movement therefore the system is placed in the 3 main fixing points and, thanks to the rubber absorbers, it reduces the vibrations transferred to the frame keeping the boom still while pumping.

- Low vibration
- Low noise
- Higher comfort of use
- Improved balancing while working
- Less wearing of key components

Rear Damping System

Front Damping System



CONTROL SYSTEMS

Rear control panel

Hydraulic outriggers control

Boom proportional distributor

Detachable electrical system

Remote control (2 versions, with and without video)

Easytronic

Machine management system for Steeltech series pumps with open loop pumping units

(Standard)

DISPLAY LCD 5"

The standard version includes:

- Pumping unit management
- Diagnostics
- Counters
- Auto vibration

PLUS (Option)

Easytronic +LSC - *Light Stability Control*

Limits the boom slewing angle when any outrigger cannot be fully opened.
Includes: Autorpm

Smartronic®

Machine management system for Steeltech series pumps with closed loop pumping units

(Standard)

DISPLAY LCD 7"

PUMPING UNIT MANAGEMENT
Automatic hopper-grid vibration

DIAGNOSTICS
In case of fault, the operator is guided to understand what's the subpart involved and graphically guided to understand the issue

COUNTERS

Smartronic®
PLUS (Option)

Machine management system for Steeltech series pumps with closed loop pumping units

AUTO RPM
To automatically adjust diesel engine rpm in case of tougher pumping conditions

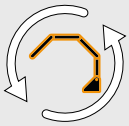
RAMPS MANAGEMENT
Fully adjustable pumping ramps management

MBE
Maximum boom unfolding simulation before the final placing of the truck pump: speed up placing operations and increase safety.

ASC
Constant control of the center of gravity of the truck pump. Inibition of boom operations in case of roll over risk.

Smartronic®
PRO (Option)

(Add-on Option for Smartronic PLUS)



Automatic Boom Folding and Unfolding
The function allows to open and close the boom automatically using a dedicated command on the radio remote.

Advanced Stability Control 2.0 (ASC 2.0)
Guided operations to move the boom when overcoming the truck pump center of gravity limit.

Boom Antibouncing System
The Anti-Bouncing function strongly reduces boom oscillations (up to -25%).

Radio remote control with display

Virtual span
By moving the boom up or down, the function allows to set one or two reference points for the minimum and maximum height.

Angle fence
By rotating the boom left or right, the function allows to set one or two reference points to define the allowed rotation range.

Section block
The system allows locking one or all boom sections, but always starting from the first and proceeding sequentially (ex. 1-2, 1-2-3, 1-2-3-4).

Constant height
The system maintains the user-defined height constant during the extension and retraction phases of the boom.

OPTIONS

LIGHTS HOLDER UNDER THE HOPPER

CIFA VISTA: Remote machine monitoring

Pumping unit dampening

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

Activation by remote control

High pressure water pump

Air compressor for pipeline cleaning

Hopper cover

Rear camera

List of other components available on demand

Wood stocks holders

Ladder to fuel tank access

Light on boom

K56L - POLAND

K36L - TURKEY

K20L - ENGLAND

K42L - U.S.A.

K50L - ITALY

K38L - U.S.A.

K36L-5 - UK

JOB SITES

DATA SHEET

STEELTECH

K20L

PLACING BOOM	4ZR 20/16
PUMPING UNIT	95 m³/h 80 bar
DRIVEN BY	PTO OR GEAR BOX
CHASSIS	2 AXLES

K24L

PLACING BOOM	4RZ 24/20
PUMPING UNIT	95 m³/h 80 bar
	160 m³/h 80 bar
DRIVEN BY	PTO OR GEAR BOX
CHASSIS	2 - 3 AXLES

K28L

PLACING BOOM	4Z
PUMPING UNIT	95 m³/h 80 bar
	160 m³/h 80 bar
DRIVEN BY	PTO OR GEAR BOX
CHASSIS	3 AXLES

K31L

PLACING BOOM	5Z 31/27
PUMPING UNIT	160 m³/h 53 bar
	160 m³/h 80 bar
DRIVEN BY	PTO OR GEAR BOX
CHASSIS	3 - 4 AXLES

K36L-5

PLACING BOOM	5Z 36/31
PUMPING UNIT	160 m³/h 53 bar
	160 m³/h 80 bar
DRIVEN BY	PTO OR GEAR BOX
CHASSIS	3 - 4 AXLES

K36L

PLACING BOOM	4Z 36/32
PUMPING UNIT	160 m³/h 53 bar
	160 m³/h 80 bar
DRIVEN BY	PTO OR GEAR BOX
CHASSIS	3 - 4 AXLES

Find more info on truck configuration at **www.cifa.com**

K38L

PLACING BOOM	4Z 38/34
PUMPING UNIT	160 m³/h 53 bar
	160 m³/h 80 bar
DRIVEN BY	PTO OR GEAR BOX
CHASSIS	3 - 4 AXLES

K42L

PLACING BOOM	5RZ 42/38
PUMPING UNIT	160 m³/h 53 bar
	160 m³/h 80 bar
	180 m³/h 83 bar
DRIVEN BY	PTO OR GEAR BOX
CHASSIS	4 AXLES

K50L

PLACING BOOM	5RZ 50/44
PUMPING UNIT	180 m³/h 83 bar
	160 m³/h 80 bar
	160 m³/h 53 bar
DRIVEN BY	PTO OR GEAR BOX
CHASSIS	4 AXLES

K56L

PLACING BOOM	5RZ 56/51
PUMPING UNIT	160 m³/h 53 bar
	160 m³/h 80 bar
	180 m³/h 80 bar
DRIVEN BY	PTO OR GEAR BOX
CHASSIS	4 (EXTRA CE) - 5 (CE)

K61L

PLACING BOOM	5RZ 61/56
PUMPING UNIT	160 m³/h 53 bar
	180 m³/h 80 bar
DRIVEN BY	PTO OR GEAR BOX
CHASSIS	5 AXLES

K63L

PLACING BOOM	6RZ 63/58
PUMPING UNIT	180 m³/h 80 bar
DRIVEN BY	PTO OR GEAR BOX
CHASSIS	6 AXLES

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Distributor

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The catalogue shows models, outfitting versions and configuration possibilities (standard and optional) of machines for the production, transport and pumping of concrete, manufactured and distributed by CIFA SpA. The catalogue is intended for general information purposes only and the information it contains shall not be deemed a contractually binding document, since CIFA SpA may make constructive and outfitting modifications at any moment and during the period between publication of the catalogue, the production of the equipment and the publication of a more updated catalogue.