AUTOMATIC LOADING SYSTEMS

HOW TO LOAD A TRUCK OR A CONTAINER IN 5 MINUTES?

www.progecovigo.com
LOADING PLATFORM TYPES

- Adjustable height platforms PF-V designed for loading or unloading of trucks and containers over chassis.

- Fixed platforms PF-F without adjustable height designed for loading of containers in port facilities like container freight stations (CFS) or container terminals.

- Platforms suitable for loading of any type of containers: 20’, 40’, and 45’.

- Specific platforms for high density cargo in 20’ containers.

- Platforms with cargo capacity for linear meter according to customer requirements (2 TON/M - 8 TON/M).

- Platforms designed for loading and unloading of sections, bars, pipes, coils, slabs, panels, boards, plywood, granite, marble, graphite, rods, ingots, billets, rails, etc.
ADJUSTABLE PLATFORMS

PF-V
GREAT LENGTH CARGO

THE PLATFORM WAS ORIGINALLY DESIGNED FOR LOADING AND UNLOADING OF ANY TYPE OF GOODS OF GREAT LENGTH: SECTIONS, PIPES, RAILS, STEEL RACKS, ETC.
THE SYSTEM HAS ALSO BEEN DEVELOPED TO BE USED IN LOADING AND UNLOADING OF PALLETIZED OR PACKAGED GOODS LIKE AUTOMOTION BACS, BOARDS, ETC.
HIGH DENSITY GOODS

SPECIFIC TYPES OF FOR LOADING AND UNLOADING OF HIGH DENSITY GOODS LIKE GRANITE BLOCKS, GRANITE SLABS, STEEL COILS, GRAPHITE ELECTRODES, ETC. ARE AVAILABLE WITH A LINEAL CARGO CAPACITY OF UP TO 8 TONS PER METER.
THE SYSTEM’S ADVANTAGES

- Automatic loading of any type of freight container.
- Automatic loading of any type of truck.
THE SYSTEM’S ADVANTAGES

- FAST AND SIMPLE LOADING AND UNLOADING OPERATIONS.
- REDUCTION IN TIME SPENT IN STUFFING AND UNSTUFFING OF TRUCKS AND CONTAINERS.
- REDUCTION OF LOGISTICS COSTS (HANDLING AND MATERIALS).
- MAXIMUM EFFICIENCY FOR ALL TYPES OF GOODS.
- MAXIMUM SAFETY FOR THE OPERATIVE, THE GOODS AND THE CONTAINER OR TRUCK. GREATLY REDUCING CLAIMS FOR DAMAGE.
- MINIMUM MAINTENANCE AND POWER CONSUMPTION.
- STANDARD SYSTEM FOR ANY TYPE OF TRUCK OR CONTAINER WITHOUT NEED OF ATTACHMENTS.
- A NOTABLE IMPROVEMENT IN THE QUALITY OF OPERATIONS.
- REDUCING THE WAITING TIME OF TRUCKS AND CONTAINERS AT LOADING FACILITIES BY UP TO 90%.
THE PLATFORM IS AN AUTOMATIC LOADING AND UNLOADING SYSTEM SUITABLE FOR ALL TYPES OF TRUCKS AND CONTAINERS.
THE PLATFORM CONSISTS OF A MAIN FRAME WHERE THE REST OF THE COMPONENTS ARE PLACED. THE METAL STRUCTURE HAS A LENGTH THAT VARIES BETWEEN 8,300 MM AND 16,300 MM DEPENDING ON THE PLATFORM MODEL AND THE WIDTH OF 2,200 MM.
LOADING OPERATIONS: 1. SUPPORT BEAMS

THE FIRST STEP CONSISTS OF THE PLACING OF SUPPORT BEAMS. THE DESIGN AND NUMBER OF SUPPORT BEAMS TO BE USED WILL DEPEND ON THE LENGTH AND WEIGHT OF THE GOODS THAT ARE TO BE LOADED.
LOADING OPERATIONS: 2. PRE-LOADING

PLATFORM PRE-LOADING
LOADING OPERATIONS: 3. LEVELLING

By using a hydraulic lifting system, the height of the platform and the floor of the container or truck is made level. The hydraulic lifting system possesses 4 pistons which allow the platform to be lifted from 850 mm in resting position to 1,350 mm in loading position.
THE FOLLOWING STEP IS THE CENTERING OF THE CARGO IF SEEN TO BE NECESSARY. BY USING A HYDRAULIC SYSTEM THE GOODS CAN BE MOVED LATERALLY UP TO 200 MM. THIS FACILITATES THE ALIGNMENT OF THE CARGO TO THE TRUCK OR CONTAINER.
LOADING OPERATIONS: 5. LIFTING

BY USING A PNEUMATIC SYSTEM THE LIFTING FORKS OF THE PLATFORM ELEVATE THE SUPPORT BEAMS AND THEREFORE THE CARGO.
LOADING OPERATIONS: 6. ROLLING-IN

A set of skates moved by an electric engine is used to roll the goods into the container or truck at a speed of between 4 and 7 meters per minute.
ON THE RELEASE OF THE PNEUMATIC SYSTEM, THE GOODS ARE LEFT DEPOSITED ON THE FLOOR LYING ON THE SUPPORT BEAMS AND THE PLATFORM FORKS ARE FREE TO ROLL OUT WITH THE MOTORIZED SKATES.
SYSTEM HANDLING

THE PLATFORM HAS BEEN DESIGNED TO BE USER FRIENDLY BY USING THE CONTROL PANEL AS SEEN IN THE PHOTO.
INSTALLMENT

EXTERNAL (ABOVE GROUND)

BUILT-IN (LOADING BAY)
FIXED PLATFORMS
PF-F

- For specific use in container freight stations
- Without hydraulic leveling system
- Without hydraulic centering system
LOADING OPERATIONS: 1. THE CONTAINER

THE FIRST STEP CONSISTS OF THE PLACING OF THE CONTAINER ON THE SUPPORT POSTS WITH A REACH STACKER
LOADING OPERATIONS: 2. OPENING OF DOORS

OPENING OF DOORS AND LIFTING OF CONNECTORS
LOADING OPERATIONS: 3. PRE-LOADING

PLACING OF SUPPORT BEAMS

PRE-LOADING THE CARGO ON THE PLATFORM
LOADING OPERATIONS: 4. LIFTING

BY USING A PNEUMATIC SYSTEM THE LIFTING FORKS OF THE PLATFORM ELEVATE THE SUPPORT BEAMS AND THEREFORE THE CARGO.
LOADING OPERATIONS: 5. ROLLING-IN

A SET OF SKATES MOVED BY AN ELECTRIC ENGINE IS USED TO ROLL THE GOODS INTO THE CONTAINER OR TRUCK AT A SPEED OF BETWEEN 4 AND 7 METERS PER MINUTE.
LOADING OPERATIONS: 6. CARGO LAYING

ON THE RELEASE OF THE PNEUMATIC SYSTEM, THE GOODS ARE LEFT DEPOSITED ON THE FLOOR LYING ON THE SUPPORT BEAMS AND THE PLATFORM FORKS ARE FREE TO ROLL OUT WITH THE MOTORIZED SKATES.
EXAMPLES: COIL WITH HORIZONTAL AXIS
EXAMPLES: COIL WITH VERTICAL AXIS
EXAMPLES: BOARD
EXAMPLES: GRANITE OR MARBLE
EXAMPLE: PIPES
MANUFACTURING AND DELIVERY

- MAXIMUM 3 MONTHS FROM CONFIRMATION OF THE ORDER PLUS TRANSIT TIME.

- DELIVERED AND INSTALLED READY TO GO.
THE PLATFORM HAS BEEN DESIGNED TO BE LOADED IN JUST ONE 40’ CONTAINER OR CONVENTIONAL TRUCK