

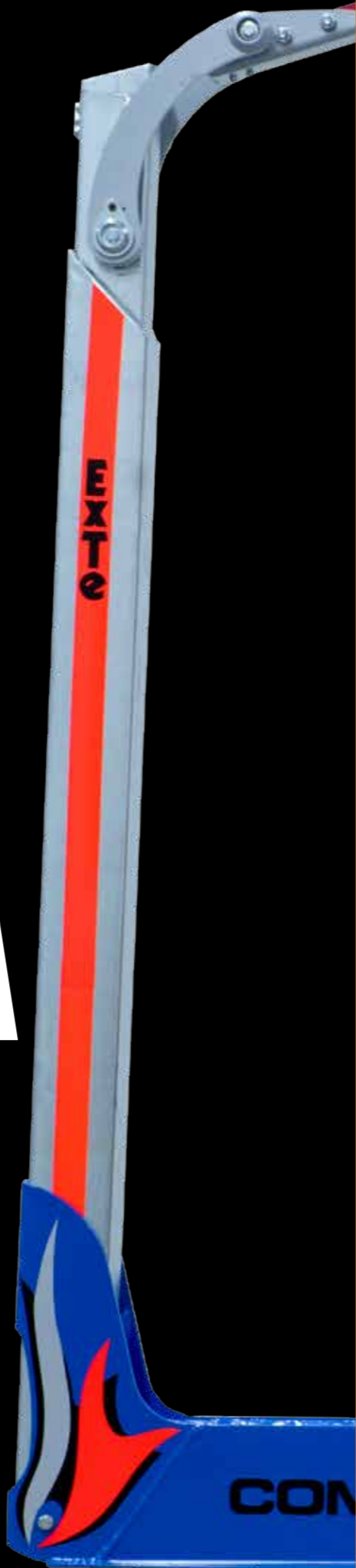
# COM 90

SUPERIOR TECHNICAL SOLUTIONS.  
UNBEATABLE WORKING ENVIRONMENT.

**ExTe**

Securing cargo. We invented the concept.

# UNBEATABLE



# WORLD'S MOST MODERN FUNCTIONS

#### Maximum safety

Load restraints are secured with a few clicks on the remote control. Automatic post-tensioning and surveillance makes Com 90 the safest system by far for securing timber cargo.

#### Unbeatable workplace

This unique, remote controlled load securing system provides an unbeatable working environment, in which engineering has eliminated the physical strains on the driver. With just a few button clicks, the cargo is secured.

#### Less aerodynamic drag and lower emissions

For empty runs the stakes can be lowered and bound together. This reduces aerodynamic drag, which lowers fuel consumption and CO<sup>2</sup> emissions.

#### Significant time-savings

Loading, securing and offloading timber is very fast. It saves time and is good for the hauliers' profitability.



#### Functional design

The design focuses on the strength, speed and efficiency of the Com 90-bunks.

#### ExTe's most technologically advanced product

The market's most user-friendly equipment for safe and rapid securing of timber cargo.

#### Superior technical solutions

The Com 90 bunk is based on hydraulic functions controlled by the driver, using a remote control unit.



## WE LISTEN, BUILD AND TEST.

At ExTe, listening to ideas and feedback from hauliers, drivers and body builders is in our genes. It is often the basis for the development of new products with unique, practical solutions. All new products undergo extensive testing, both in the laboratory and through extensive trial use in practice, before they are released into the market. All in the name of maximising safety and functionality.



## BOTH THE HAULIER AND THE ENVIRONMENT BENEFIT FROM THE COM 90.

Developments in aerodynamic drag reduction are interesting. The goal is to reduce both fuel consumption and CO<sub>2</sub> emissions. Even body structures, such as timber bunks and stakes, are aerodynamically designed to reduce air resistance. ExTe are involved in wind tunnel projects that demonstrate how the design of stakes is of aerodynamic significance. The most positive effects are achieved with foldable or height-adjustable stakes.

The Com 90-bunks' hydraulic stakes are lowered and bound together during empty runs. This not only reduces aerodynamic air resistance, but it also minimises stake vibration.





# WE'VE THOUGHT OF EVERYTHING.

## **Automatic surveillance**

The system has automatic surveillance and a control panel inside the cab, which alerts the driver if there is a problem.

## **Automatic post-tensioning**

During transportation, the stakes and throw-overs compress the stack with an even pressure.

## **The Canbus control system**

Remote management of the Com 90-bunks is via the Canbus control system, which has significantly more options for monitoring the load securing functions. The driver has easy access to all of the data on a computer screen.

# COM 90

## **Height-adjustable stakes**

During empty runs the stakes are lowered and the throw-overs are bound together. This reduces vibrations in the stakes and eliminates wear damage. It also reduces aerodynamic drag.

## **Withstands more**

As the tops of the stakes are bound together, the Com 90-bunks can withstand a greater load than traditional stakes. Load on the stakes is reduced by 50%.



## WORLD'S SAFEST BUNK

With the Com 90, lashing loads for transportation and preparing them for offloading is done extremely quickly. When you arrive at the timber cargo handling depot, you simply release the load using the remote control. You no longer have to stop to disengage several tensioners. With the Com 90 you drive straight in. In your own lane, it feels like. And there will be time spare for more loads and increased profitability.

## A HEALTHY DRIVER TO BOOT

With the future as our inspiration, we have created a modern workplace. Our technical solutions eliminate the physical strains on the people using our equipment. The standards of the future are already available. Whatever the weather, the driver will be working in a comfortable environment.

### Less sick leave

By eliminating tasks that involve health risks, you are looking after your employees. And the company avoids having to bear the costs of recurring sick leave.

### Reduced stress

Using technology, we have eliminated a few time-consuming and physically demanding tasks from the loading and offloading processes. A more consistent work pace reduces time pressure on the driver.

### Fewer injuries

Strain injuries are the main cause of occupational injuries. When drivers are not subjected to the physically demanding postures involved in manual load securing, the risk of strain injuries is reduced.

### Fewer accidents

The remote controlled load securing system means you do not have to stand close to the rig. If any timber comes tumbling down, you will be out of range. And you no longer have to throw heavy chains about, a physically demanding part of the job.

## THE ROUNDWOOD TRUCK OF THE FUTURE

A new generation of hauliers and drivers is placing new demands when it comes to engineering, working conditions, safety, efficiency and finance. The Com 90 is future proof and uses the Canbus system to control the flow of data. Several development projects are currently underway for loading and offloading using cableless cranes and VR technology. Com 90 and VR technology offer new opportunities.







## A NETWORK OF DISTRIBUTORS

ExTe has a well-established network of distributors around the world. This is who hauliers should contact in the first instance. Most of the distributors are qualified body builders and service technicians, and are located near the hauliers. That is where the most common products and spares will be in stock. But it goes without saying that everyone is welcome to contact the ExTe sales team directly.



## TECHNICAL SUPPORT

ExTe's Technical Support team is global and they are always available for hauliers, body builders and service technicians. In the event of a problem, things can usually be resolved over the phone straight away. An important function for our Technical Support team is carrying out planned and preventative inspections at the hauliers. The Technical Support team is also usually involved the first time an upfitter installs an ExTe product, in addition to providing training for assembly and warehouse staff.



## WE OWN THE PATENTS

"Securing cargo. We invented the concept." And we have been coming up with solutions to improve safety and quality for hauliers since 1898. Today, ExTe has a wide range of unique, patented solutions. ExTe's patent symbol indicates something unique and which is only available from ExTe. That ExTe has something which no-one else has.



## BUNKS & STAKES

Bolster weight 88 kg  
Internal dimensions 2190/2240/2290 mm  
External dimensions 2500/2550/2600 mm

Weight complete with cylinders, brakes, etc., 67 kg/stake  
Loading boom weight 4.5 per boom  
Complete hook throw-over 5 kg  
Complete ring throw-over 5 kg  
Binding the tops of the stakes together means the stakes can withstand a greater load than traditional stakes  
Aerodynamic drag on the restraint at 150 bar = 1.7 tons  
Max load height 2800/3000 mm  
Min load height 1700/1850 mm  
Built-in stake brake  
High-speed function (for raising/lowering the stakes faster)

## HYDRAULIC SYSTEM

### Hose dimensions: (truck)

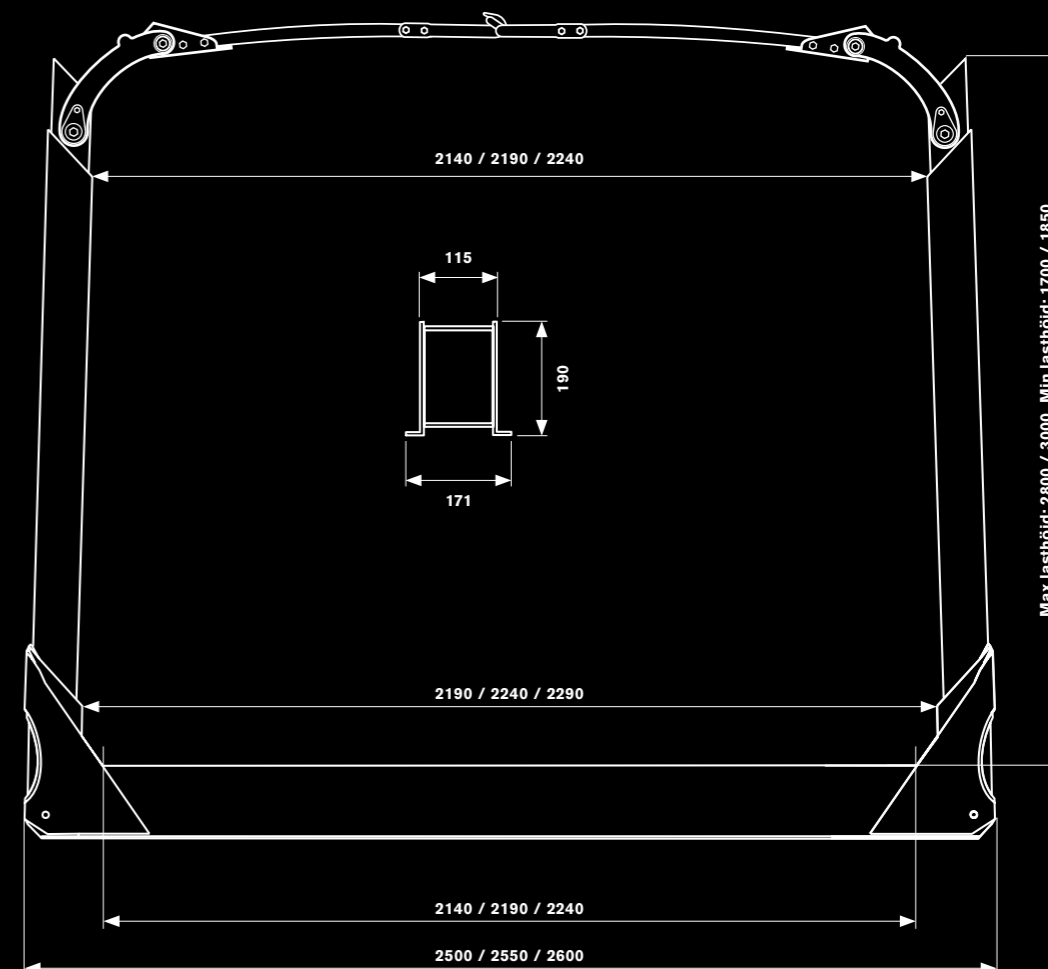
- suction line = 1"
- pressure line, pump – filter – valve = 1/2"
- pressure line valve – distribution manifold = 3/8"
- pressure line distribution manifold – stakes = 1/4"
- signal line = 1/4"
- brake line = 1/4"

### Hose dimensions: (trailer)

- pressure line, pump – valve = 1/2"
  - return line to tank = 3/4"
  - control line valve – distribution manifold = 3/8"
  - control line distribution manifold – stakes = 1/4"
  - signal line = 1/4"
  - brake line = 1/4"
- System pressure 150 bar. Counter pressure brakes 40 bar.  
TH 120-140 bar. TL 100 bar

### Automatic post-tensioning

The pressure guard records pressure drops in the hydraulic system. ExTe recommends thin oil for the hydraulic system, e.g., Hyndla Bio SE 22, Hydra way Bio PA 22, Holbein Bio LT 22 or equivalent.



# SAFETY IS OUR BRAND.

ExTe is the world's leading manufacturer and supplier of timber bunks and automatic tensioners. For more than 100 years, we have been developing and delivering products for safely securing the timber loads being transported along our roads and railways.



## MORE INFORMATION:

Please visit our website [www.exte.se](http://www.exte.se) for further technical information and installation instructions for our timber bunks and tensioners. Download a copy from our website or order a printed copy by calling +46 (0)651-175 00 or sending an email to [sales@exte.se](mailto:sales@exte.se)



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