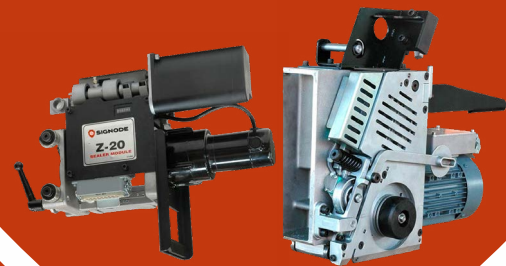


# LP-Z20



## LP-Z20

Hydraulic lumber compression and strapping station



### Heavy-duty design

Updated design of hydraulic press for longer lifetime and lower operating costs.

### Very easy to use

Intuitive, icon-driven operator HMI for simple programme changes.

### Easy strap loading

Strap feed from outside the machine guarding fences.

### Enhanced package stability

Exact compression providing stable stackable strapped packs.

# LP-Z20

## Hydraulic lumber compression and strapping station

### Five reasons why the unique LP-Z20 press covers most lumber customers needs

#### ■ Reduced set up time

Strap loading and thread-up to the top-mounted Z20 modules is also quicker, easier and safer for operators for more machine uptime. A strap guide tube from the dispenser enables strap feed to the Z20 head without entering the machine guarding fences.

#### ■ Exact repeatable compression

Depending on the product being strapped, such as rough sawn timber the compression on the load can be varied to suit the product and produce optimum strapped packs for handling, storage and shipping.

#### ■ Stable lumber packs

Using variable and highly accurate compression, each type of load can be compressed and strapped with less surface or edge-damage. Exact strap tension mean straps stay tight on loads and reduces pack re-strapping needs in the yard.

#### ■ Unique Z20 modular strapping head technology

The two-piece modular strapping units enable easy and fast service using simple tooling, plus they use few wearing parts for minimised TCO. Quick to remove modules from cradles allow faster turnaround in less than 2 minutes.

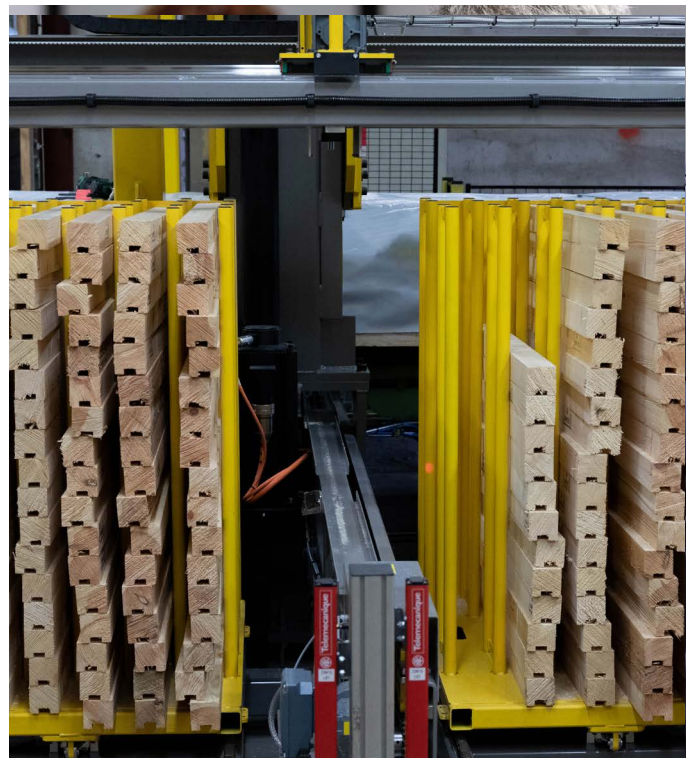
#### ■ Easy to use HMI system

The simple and intuitive HMI machine enables many formats and load packaging styles to be stored and processed. Service access to the machine via the HMI allows the program and data storage to be accessed.



#### **Solid stackable bundles**

Precision compression & exact PET strap tension ensures easy to handle, stack & transportable packs.



#### **Enhanced Productivity**

Twin and up to quadruple batten magazines, each can be separately reloaded with no production stops.

## HMI machine electrical panel

The HMI provides accurate real time control, set-up and operational control, plus simplified machine servicing through self diagnostics.

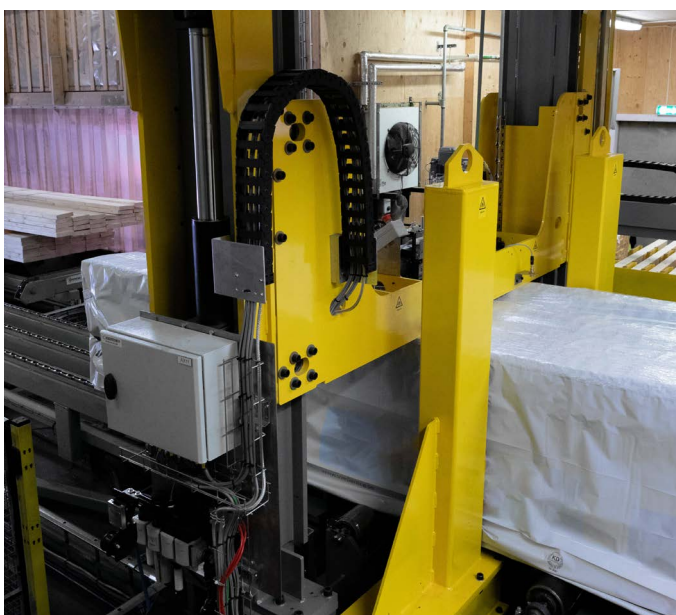
## Efficient compression drives

Using existing customer hydraulic supply lines the load compression is accurate for each strap applied for optimum damage-free packing.



## Vaible machine configuration

Options range from simple pack strapping to strapping with a bottom batten, also automatic variable compression programs, strap tension and packing format program options are available.



## Product protection

High speed but soft approach of the top and side compaction arms, reduces product surface damage.



## Systems visualisation

The HMI pictogram display gives instant machine status, reducing operator work load to a minimum.

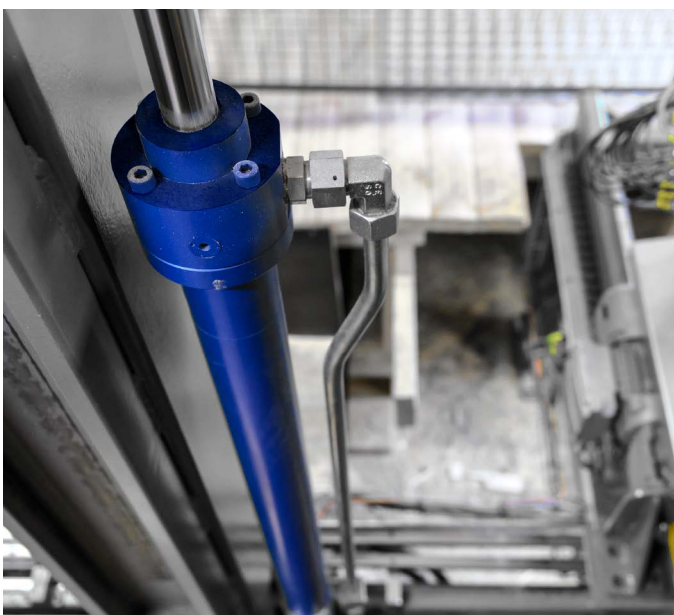
# LP-Z20

## Hydraulic lumber compression and strapping station



### Z20 strapping head modules

Modules can use 16 or 19mm machine grade PET strapping. The **sealer unit** requires cleaning only every 50-75000 cycles. The **feeder modules** with only 5 moving parts needs cleaning every 75000 cycles.



### Hydraulic compression drives

Fast, variable compression is quick and can be adjusted per product/pack being processed.



### Strap dispenser for coils up to 300kg.

From 70-300 kg coils of PET for more uptime and less coil changes.

# LP-Z20

## Hydraulic lumber compression and strapping station



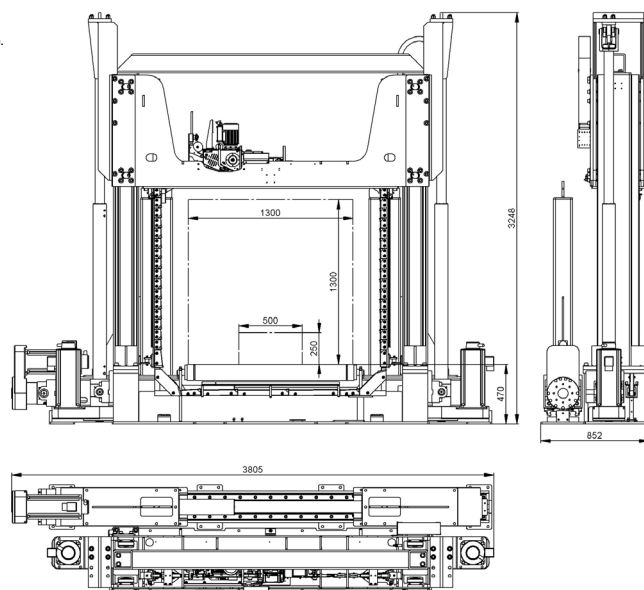
### LP-Z20 Technical Specifications

<b>Strapping head</b>	Top mounted modular strapping head Z20
<b>Strap type</b>	16 - 19 mm Tenax® / Tenax-E PET Polyester
<b>Top compression</b>	Variable up to 7.5 tons (at 160 Bar pressure)*
<b>Side compression</b>	Variable up to 7.5 tons (at 160 Bar pressure)*
<b>Compression cylinders</b>	Hydraulic
<b>Chute type</b>	Short chute flaps permit feeding of strap at any height
<b>Electrical supply</b>	400 VAC, 50 HZ, 3PE
<b>Power consumption</b>	6 kVA machine, 11 kVA Pump (optional)
<b>Control voltage</b>	24 V DC
<b>Throughput</b>	10 - 12 sec strap application cycle**
<b>Machine weight</b>	Approx. 3,900 kg
<b>Strap coil core</b>	Inner Ø 406 mm Outer Ø 760 mm Width 190 - 305 mm
<b>Control panel (HMI)</b>	Free standing HMI control panel, 6 m cable length
<b>Colours</b>	Machine frame: Black aluminium, RAL 9005 Electrical cabinet: Light Grey, RAL 7035 Compression platen: Signal Yellow, RAL 1018
<b>Min conveyor height</b>	470 mm

\* All tons refer to metric tons  
\*\* Performance depends on chute & load dimensions, package distance and strap tensions, indexing time of load is in addition.  
\*\*\* If the package width is smaller than 800mm, the package must be moved on the centre line of the conveyor system.  
Alternative chute dimensions available on request

### Dimensions:

Illustrations show LP-Z20 machine.  
All dimensions in mm.



### Z20 Technical Specifications

<b>Strap tension</b>	890 - 4,450 N
<b>Strap type</b>	Tenax Polyester
<b>Strap width</b>	16 or 19 mm
<b>Strap thickness</b>	0,89 mm to 1 mm
<b>Sealer weight</b>	21 kg
<b>Tensioner weight</b>	33 kg
<b>Sealing method</b>	Friction weld / Z-weld

### Package Dimensions (Standard)

<b>Min. package height</b>	250 mm
<b>Max. package height</b>	1,200 mm
<b>Min. package width</b>	500 mm***
<b>Max. package width</b>	1,200 mm

### Standard Features

- Heavy duty machine frame design
- Separate strap feed and tension modules
- Hydraulic compression drive cylinders, twin vertical and single horizontal cylinder
- Low-wear, stainless steel chute flaps
- Free standing HMI control panel
  - All functions can be selected via touch screen
  - Siemens TP1200 Comfort 12"
  - Simple and easy to understand menu structure
  - Available in different languages
- PLC Simatic S7-1200  
Standard strapping program  
Manual / Cycle / Automatic / Free passthrough
- Interface, signal exchange via potential free contacts or Profinet.  
All safety signals via potential free contacts
- "Strap coil end" pre-warning alarm