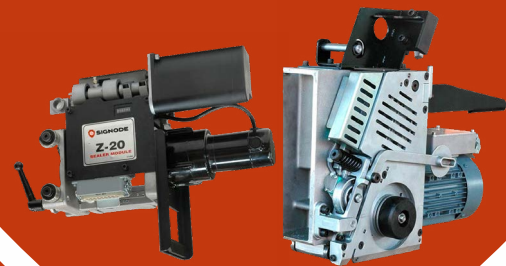


LPE-Z20



LPE-Z20

All-Electric lumber compression and strapping station



Greater productivity

Fast, all-electric operation, means reduced service needs and costs versus hydraulic systems.

Very easy to use

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

Large CO₂ reduction

Environmentally friendly, uses less energy, produces up to 27 tons less CO₂ / yr over the machine lifetime.

Lower energy needs

Electrical power is used only when in operation and saves from 50.000 to 75.000 kWh per annum.



LPE-Z20

All-Electric lumber compression and strapping station

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

■ Reduced set up time

Strap loading and thread-up to the top-mounted Z20 modules is quick, and easy for operators to complete for more machine uptime.

■ Exact repeatable electrical compression

Depending on the product being strapped, planed or rough sawn timber, the electric compression can be infinitely varied producing optimum packs for handling, storage and transport. This means all straps remain tight round the load.

■ 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 repeatable strap tension also provides stable loads and less yard re-strapping.

■ 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.

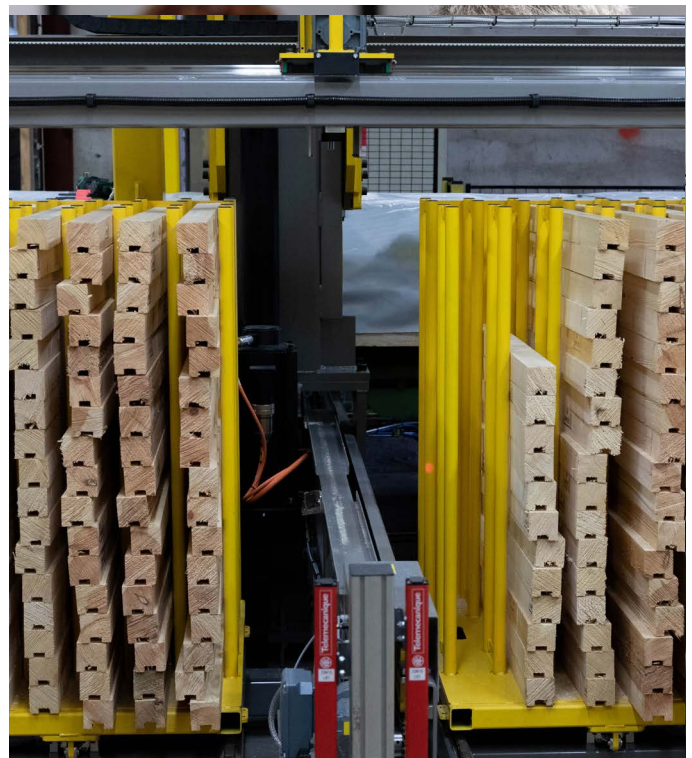
■ Easy to use HMI system

The simple and intuitive HMI machine enables many formats and load packaging styles to be stored as many formats and load packaging styles to be 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 provides 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.

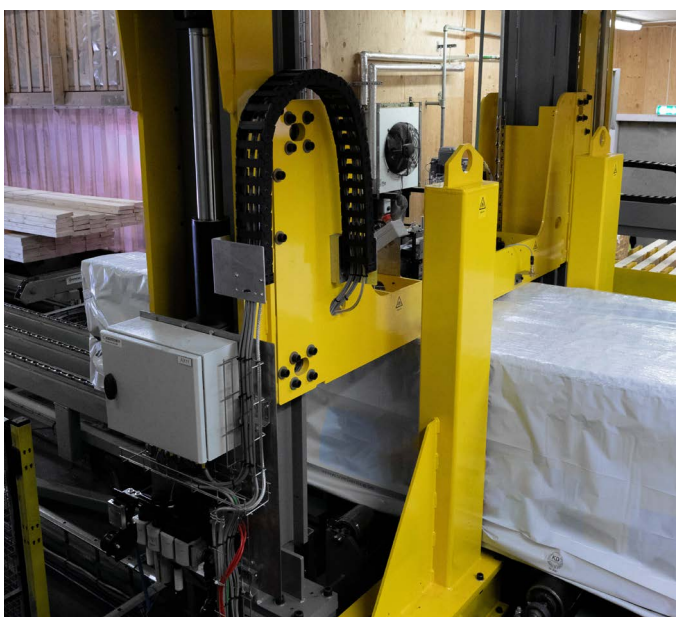
Electric driven modular design

The unique all-electric compression is faster and gives highly accurate repeatable load compaction, compared to hydraulics.



Machine option possibilities

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

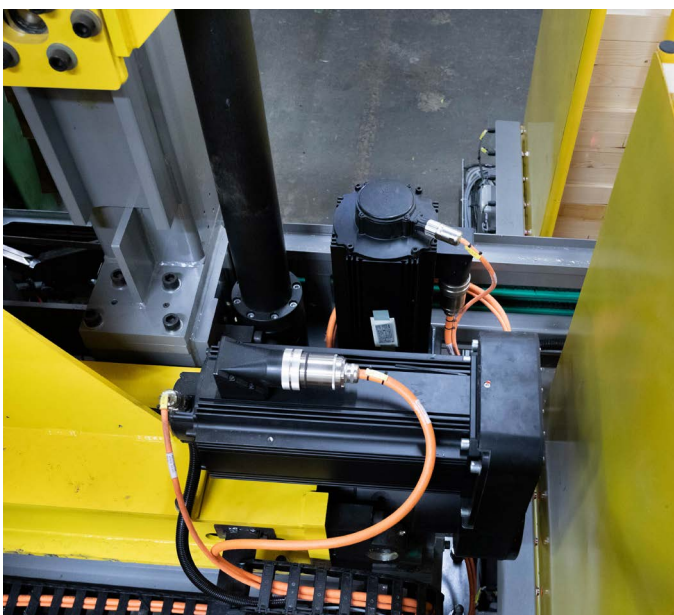
LPE-Z20

All-Electric Lumber Press



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.



All-electric compression drives

Fast, accurate, infinitely variable compression is cleaner, quicker & easier than hydraulic systems.



Strap dispenser for coils up to 300kg.

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

LPE-Z20

All-Electric Lumber Press



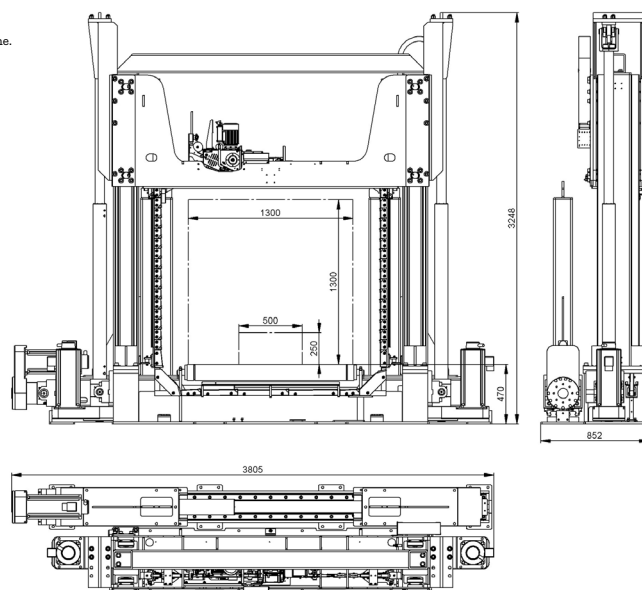
LPE-Z20 Technical Specifications

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



Z20 Technical Specifications

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

Package Dimensions (Standard)

Min. package height	250 mm
Max. package height	1,200 mm
Min. package width	500 mm***
Max. package width	1,200 mm

Standard Features

- Heavy duty machine frame design
- Separate strap feed and tension modules
- Electrical 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