

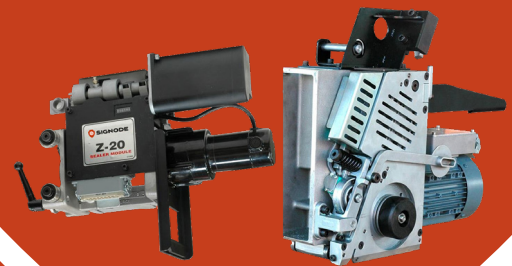
# TSM-Z20 4T



Model displayed with optional extras

## TSM-Z20 4T

Modular lumber compression and strapping machine



### Greater productivity

Fast, all-electric operation reduces service needs plus design and options provide flexible solutions.

### Very easy to use

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

### Modular design flexibility

Adding different modules provides customers and OEMs with tailored system solutions.

### Lower energy needs

Electrical power is used only when in operation and most option modules are also electric.



# TSM-Z20 4T

## All-Electric Lumber Press



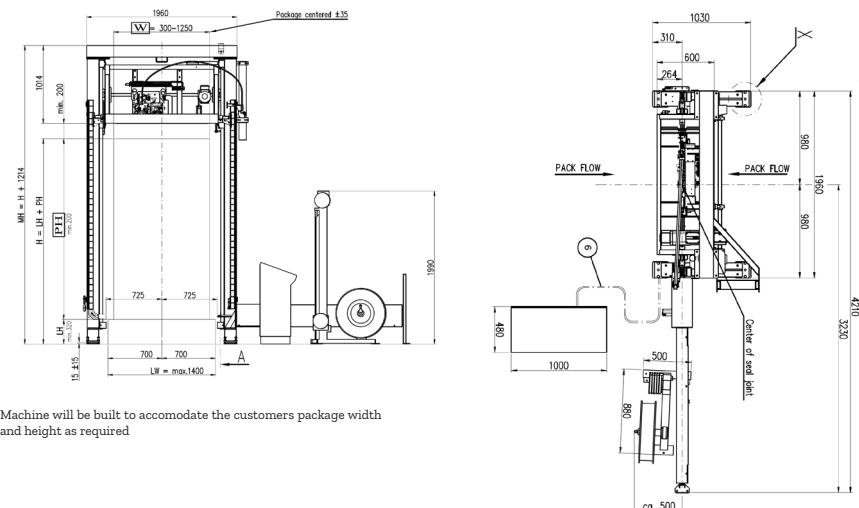
### TSM-Z20 4T Technical Specifications

<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 4 tons*
<b>Side compression</b>	Variable up to 4 tons* (Side compression is an option)
<b>Compression</b>	Electrical rack-pinion with 3 kW motor
<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>	3 kVA
<b>Control voltage</b>	24 V DC
<b>Throughput</b>	10 - 12 sec strap application cycle**
<b>Machine weight</b>	Approx. 1,600 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 TSM-Z20 4T machine.  
 All dimensions in mm.



Machine will be built to accommodate the customers package width and height as required

### 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>	350 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
- Electrical compression drive motors on rack and pinion system
- Low-wear, stainless steel chute flaps
- Free standing machine control panel
  - All functions can be selected via touch screen
  - Siemens HMI 7" standard
  - Simple and easy to understand menu structure
  - Available in different languages
- PLC Simatic S7-1214  
 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