



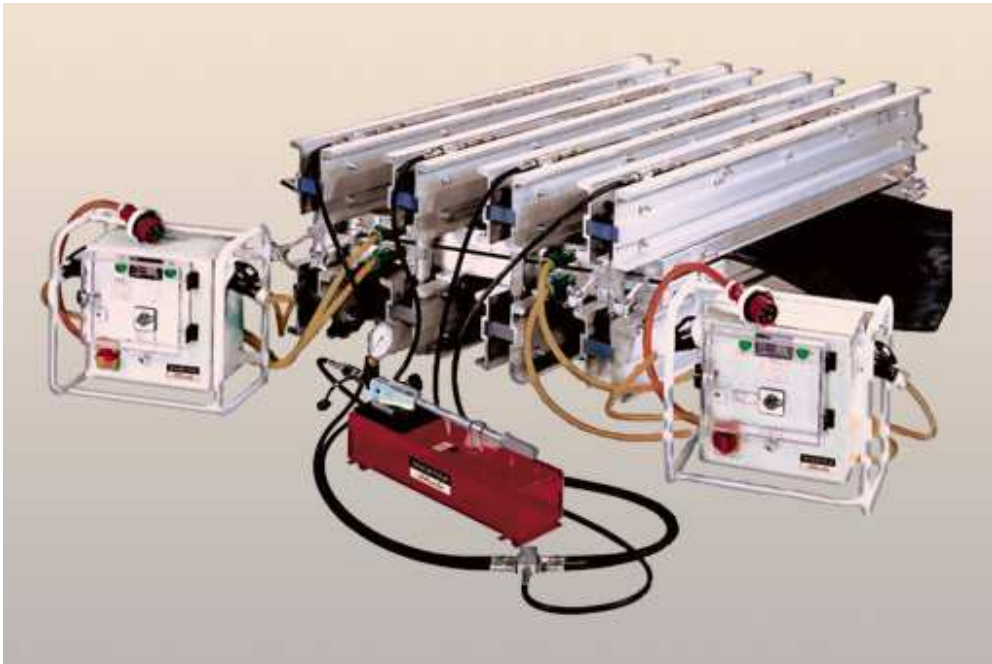
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Vulcanizing Press Hydraulic Series

by ICE-Trade ®



Components of a Hydraulic Vulcanizer

- Cross Beams
with hydraulic pressure system (hydraulic cross beams)
- Pump/hydraulic Pressure
hand pump (optional motor-driven pump), with distributor, high-pressure hoses and hydraulic oil
- Heating Platens
plug 35 A, 6 poles
when using an electronic control box, regulation via Pt 100
when using an automatic control box, regulation via bimetal thermostat
shape: rhombic 16° 42', 22° or 90°
- Automatic/Electronic Control Box
with connecting cables (number and type depends on number and sizes of heating platens)



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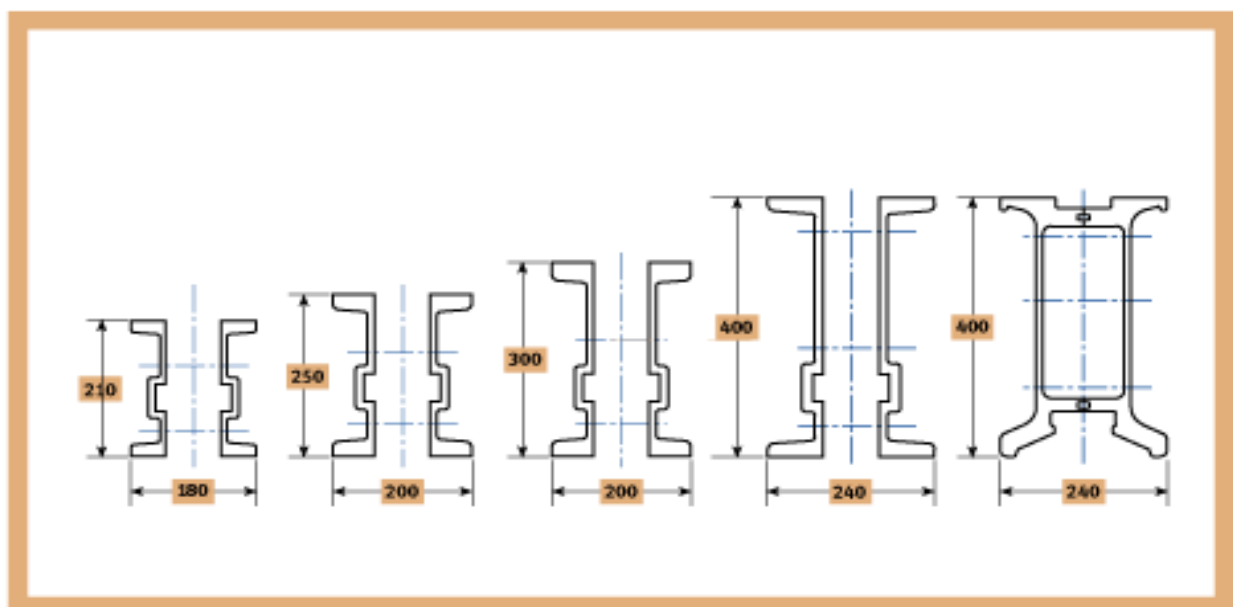
Features of a Hydraulic Vulcanizer

- high level of safety by passing the tensioning bolts through within the cross beam profile
- conventional, robust heating plates combined with hydraulic pressure systems allow splicing even on partially worn belts
- heating platen with air and/or water cooling and flush fitting electrical connections
- exact temperature regulation via an automatic switch cabinet

Cross Beams

Cross Beam Profiles with Hydraulic Pressure System

- special profiles made of aluminum alloy for cross beams
- maximum tensile and bending strength with minimum weight
- high level of safety by sliding the end bolt into the cross beam profile
- built-in protection against hose breakage, pressure is maintained in the event of a sudden pressure drop
- high-pressure hydraulics with light metal cylinders for a uniform surface pressure, compact dimensions and minimum weight
- quick and simple pressure build up by means of piston hand pump or a motor-driven pump
- high quality thermal insulation made of U-shaped fiber glass-reinforced polyester in the cross beam
- the surface area of the cross beam is covered with a wear-resistant insulating covering made of the same material
- supply includes end bolts and spanner





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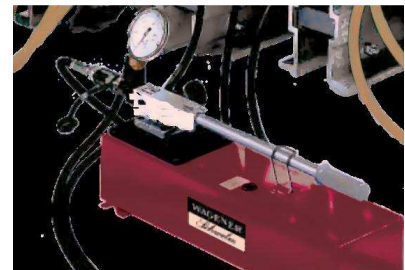


Pump/hydraulic Pressure

When using hydraulic cross beams, the pressure is achieved by using a motor-driven pump unit or manually with a reciprocating piston hand pump

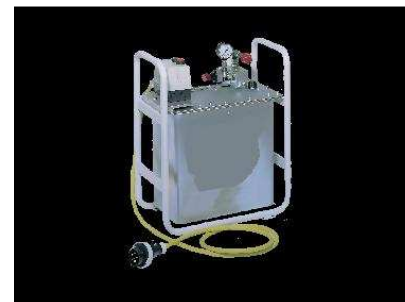
Reciprocating Piston Hand Pump

- pressure limited to 450 bar
- oil filling 8 l (usable oil volume 6.8 l)
- automatic switching-over from low-pressure operation (=high pump volume) to high-pressure operation (switching-over at approx. 100 bar)
- pressure gauge for pressure monitoring
- matched to the number of cross beams supplied with hose distributors, high-pressure hoses and hose couplings
- transport box for pump and hose connecting set available as an option



Motor-Driven Pump Unit

- pressure limited to 450 bar
- supplied complete with tubular protective frame, pressure gauge, hose coupling and valves
- 400 V, 50 Hz (other voltages on request)
- rating 1.1 kW
- optionally available with 17 l and 35 l filling volume for hydraulic oil



Hose Distributor

- The number of outlets at the distributor is matched to the number of cross beams.
- Hoses of 2 m in length, fitted with plug-type couplings.

Heating Platens





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Heating Platen

- Heating platens of frame-type construction, made of a high-quality corrosion-resistant aluminum alloy
- shape: rhombic 16°42', 22° or 90°
- available with air or water cooling
- robust, flush fitting electric connections (up to 500V, 6 poles) guarantee safe operation
- optimum pressure and temperature distribution with special regard to edge zone heating
- temperature tolerance over the entire heating platen surface with the press
- set up: $\pm 7^\circ\text{C}$

Edge Zone Heating

- Use of a single respective heating platen surface to make one splice.

Type KH Edge Heating

In order to compensate heat losses at the edges of the heating platens, a greater heating capacity is installed at the edge area. The heating capacity is calculated in such a way that a constant temperature can be guaranteed over the entire heating area.

Modular assembly of multiple small heating platens to make one splice

Using several smaller heating platens instead of just one large platen simplifies the handling of a vulcanizing press. The assembly of several conventional heating platens in a combination, can cause, however, hot spots at the combination edges of two platens and damage the conveyor belt. Such damages of this type can be avoided by using heating platens with combination edges or edge switches.





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Type KK Combi-Edge

At the design stage, our engineers take into consideration that the heating platens are used in combination, in which case the heating capacities of adjacent edges are designed at a lower level. In this case the heating platens cannot be used alone.

Type KS Edge Switch

Edge zone heating can be switched on and off. The combination of two or more heating platens is prevented by the star knob at the edge of the heating platen. The edge zone heating is turned off by unscrewing the star knob beforehand. If the heating platen is to be used alone, the star knob should be screwed in and edge zone heating is switched on again (The heating platen can be used alone or in combination).

Available in all dimensions.

Automatic/Electronic Control Box

Automatic Control Box

- the number and type of control boxes required depends on the number of heating platens used. One current output is required at the control box for each platen used
- electrical connection as per CEE Standards
- temperature reading at the heating platens by means of a plug-in thermometer
- setting of the vulcanizing temperature by means of the adjusting screw of a bimetal thermostat in the heating platen
- operation of a vulcanizing unit can either be done manually or automatically



Types available

Type Automatic	Type Electronic	Input	Output
AHS 16 2 4000	EHS 16 2 4000	1 input: 400 V*, 32 A	2 outputs, 16A
AHS 16 4 4000	EHS 16 4 4000	1 input: 400 V*, 63 A	4 outputs, 16 A
AHS 32 2 4000	EHS 32 2 4000	1 input: 400 V*, 63A	2 outputs, 32 A



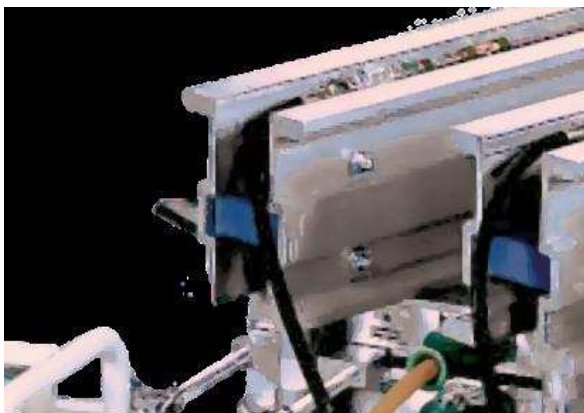
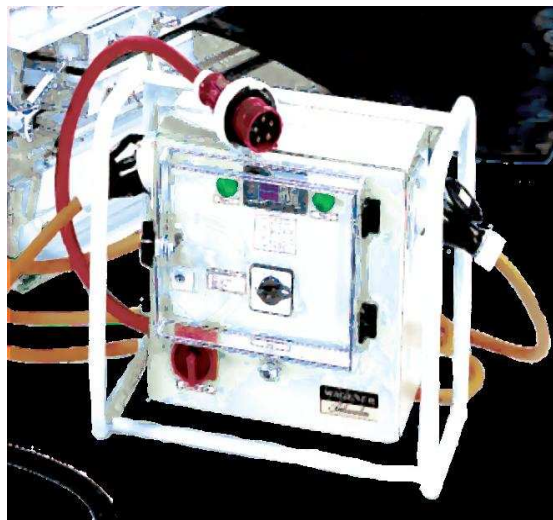
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Electronic Control Box

- the number and type of control boxes required depends on the number of heating platens used. One current output is required at the control box for each platen used
- electrical connection as per CEE Standards
- temperature reading at the heating platens by means of PT100
- exact temperature control with digital set and actual value temperature display via electronic temperature regulator
- quick and simple programming of the electronic temperature control
- the regulator tolerance is only about 1% of the set value (e.g.: at 145°, tolerance approx. 1.5°C)



Wagener Schwelm

..... the safety of a good splice.

Please contact us if you need further information.