

EVOLUTION **TECH**

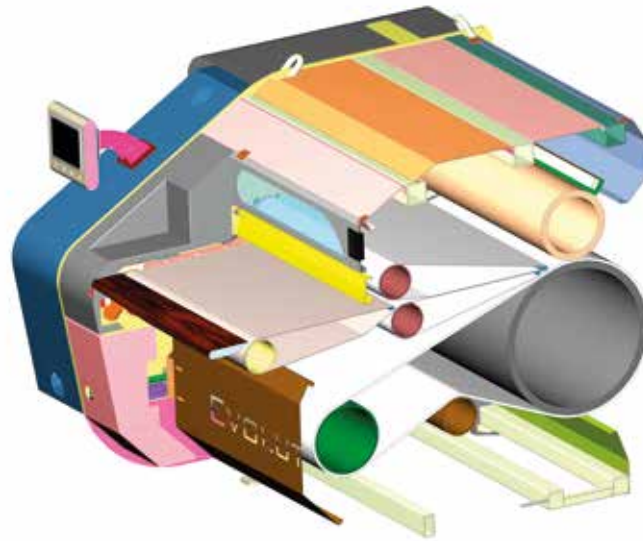
SHINETECH



**ROTARY PRESS FOR IRONING AND SHINING HIDES
SHINETECH MODEL WITH PATENTED DOUBLE PREHEATING
SYSTEM IN THE INFEED BELT**

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**EVOLUTION TECH IS PROUD TO PRESENT THE NEW PRESS
FOR IRONING AND SHINING HIDES PREPARED FOR PAPER COATING**



**ROTARY PRESS FOR IRONING AND SHINING,
WITH PATENTED HEATING SYSTEM OF THE ANTI-CREASE BELT,
TO CREATE SHEEN IN THE HIDES**



Starting from the concept that hydraulic presses, due to extended time and low temperature, make the hide remain soft, to the detriment however of the productivity, we thought of manufacturing an innovative rotary press that could ensure the same result, **maintaining the same typical productivity of rotary presses.**



The rotary press for ironing and printing uses the **“Thermotech” revolutionary patented heating system of the anti-crease belt.** This is able to preheat approximately one metre of the hide on both sides at the desired temperature up to 110 degrees centigrade before it comes into contact with the cylinder. The hide, therefore, does not obtain heat only in the point where the felt belt and cylinder meet, but reaches the latter already at a significant temperature that can be adjusted as required, avoiding any possible thermal shock.



GENERAL FEATURES



- Mirror shining, thanks to the super-shiny chrome-plated cylinder that is able to convey a shine to the hides.
- Automatic and programmable timer for heating the rollers.
- Timer for cooling and subsequent automatic switching off of the machine.
- Possibility to view the machine output side on the monitor with micro-cameras.
- Cylinders with low-volume diathermic oil and forced circulation to minimize the heating and cooling times of the cylinders and achieve perfect heating uniformity over the entire surface of the operating cylinder.
- Hydraulic pressure circuit with the possibility to process from 2 to 160 kg/cm (linear).
- Working temperature up to 160°C.
- Transport system managed by inverters suitably sized to work up to 20 m/min.
- System for processing at low pressure so the softness and characteristics of the hide are not altered.

INNOVATIVE FEATURES



- Possibility to preheat the hides up to 110 degrees, thanks to our patented heated anti-crease belt, equally on both sides with separate temperature adjustment to that of the ironing/printing cylinder.
- Easy and quick belt change due to disassembly of the side structure, saving 30% of the time compared to traditional machines.
- Resistor replacement of the heating unit without removing the oil, enabling 60%-time saving compared to traditional machines.
- Greater speed in bringing the cylinder up to temperature through the variation of the oil flow speed.
- Greater speed in reaching the desired pressure through dedicated preloaded tank and proportional valve.
- Less consumption in the heating and maintenance phase (through its own logic, the machine regulates the speed and flow capacity of the diathermic oil, combining it with the activation/deactivation of the 4 resistor batteries).
- Load adjustment between the two anti-crease belts by a touch screen.
- Transmission and reception of machine data on OPC-UA server.

OPTIONALS



- Hide detacher for each operator roller (recommended if the machine is combined with a stacker).
- Motorised bristle brush to clean the felt with suction and filtrating cyclone.
- Metal detector.
- Measurer with printer to install on the hide infeed belt.
- Stamping device to install on output belt.
- Transfer paper system.
- Remote assistance kit.
- Roller cooling through a heat exchanger.
- Heated cylinders from $\varnothing 320$ mm to $\varnothing 400$ mm.

THERMOTECH

Patented system

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Patented system

SHINETECH	15	18	22	26	30	32
Dimensions LxPxH [mm]	3450x2200 x1700	3750x2200 x1700	4150x2200 x1700	4550x2200 x1700	4950x2200 x1700	5150x2200 x1700
Maximum power absorbed [kW]	30	30	30	38	38	38
Average power absorbed [kW]	15	15	15	20	20	20
Speed [m/min.]	3 ÷ 20	3 ÷ 20	3 ÷ 20	3 ÷ 20	3 ÷ 20	3 ÷ 20
Pressure [kg/cm]	0 ÷ 160	0 ÷ 160	0 ÷ 160	0 ÷ 150	0 ÷ 140	0 ÷ 140
Maximum cylinder temperature [°C]	160	160	160	160	160	160
Maximum preheating temperature [°C]	110	110	110	110	110	110
Belt preheating power [kW]	8	8	8	8	8	8

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