

Rubber products plant, Russia (vulcanising press)

40–50 % less steam per cure, and better rubber

One motorised Jetomat® (Baelz 590) in a closed recirculation loop replaced the trapped drainage of a 10 m vulcanising press. Steam was measured on site, in real time.

40–50 %

less steam

depending on the rubber grade

Better

product quality

customer's rubber analysis,
the week after

1 trap

at the separator

the platens drain untrapped

Real time

measured on site

steam and condensate
flowmeters

01 The plant and the duty

PLANT	Rubber products plant, Russia
PRESS	Vulcanising press, 10 m long, two heated platens
STEAM SUPPLY	11 bar g
EQUIPMENT	Jetomat® (Baelz 590) DN50, motorised, under pressure control
COMMISSIONED	October 2015

02 Before

Steam reached the platens through a pressure-reducing valve and a motorised control valve. Each platen drained through thermodynamic steam traps: on a press this long, only thermodynamic traps clear the condensate fast enough; float and bucket traps cannot.

03 What changed

- One motorised Jetomat® (Baelz 590), DN50, under pressure control, feeds both platens.
- The platens drain untrapped into a separator vessel.
- The separator's vapour is the Jetomat's suction: a closed recirculation loop.
- Condensate leaves the separator through one trap to the return.

04 Results

- Steam measured on site with steam and condensate flowmeters, in real time: 40–50 % less steam, depending on the rubber grade.
- The customer's rubber analysis the following week showed better product quality.

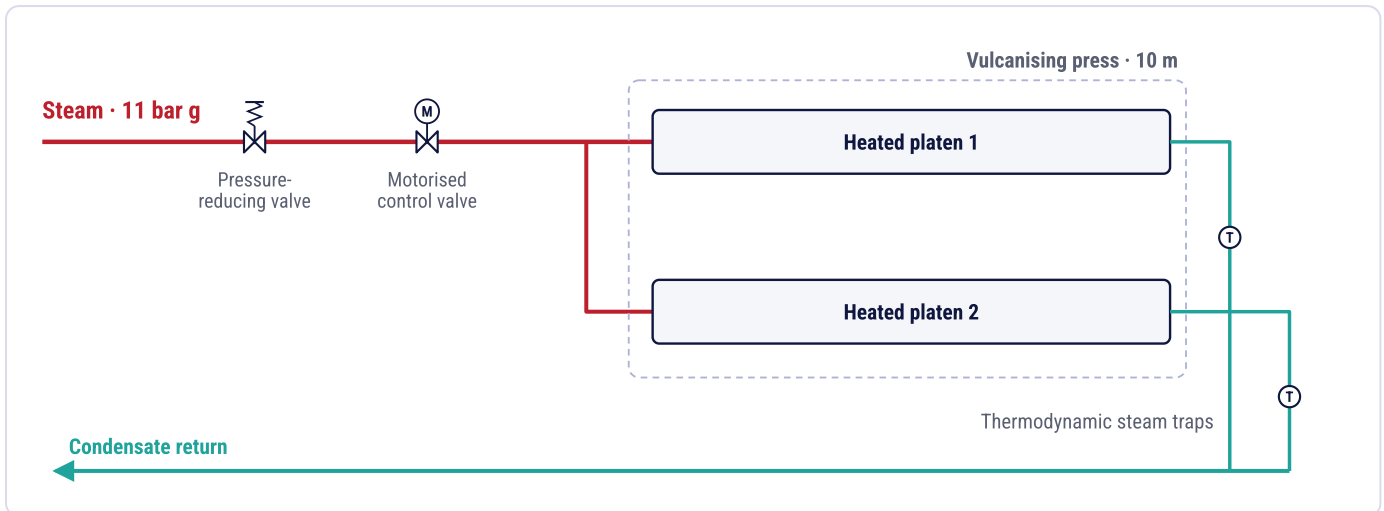


The motorised Jetomat® (Baelz 590) DN50 at the vulcanising press.

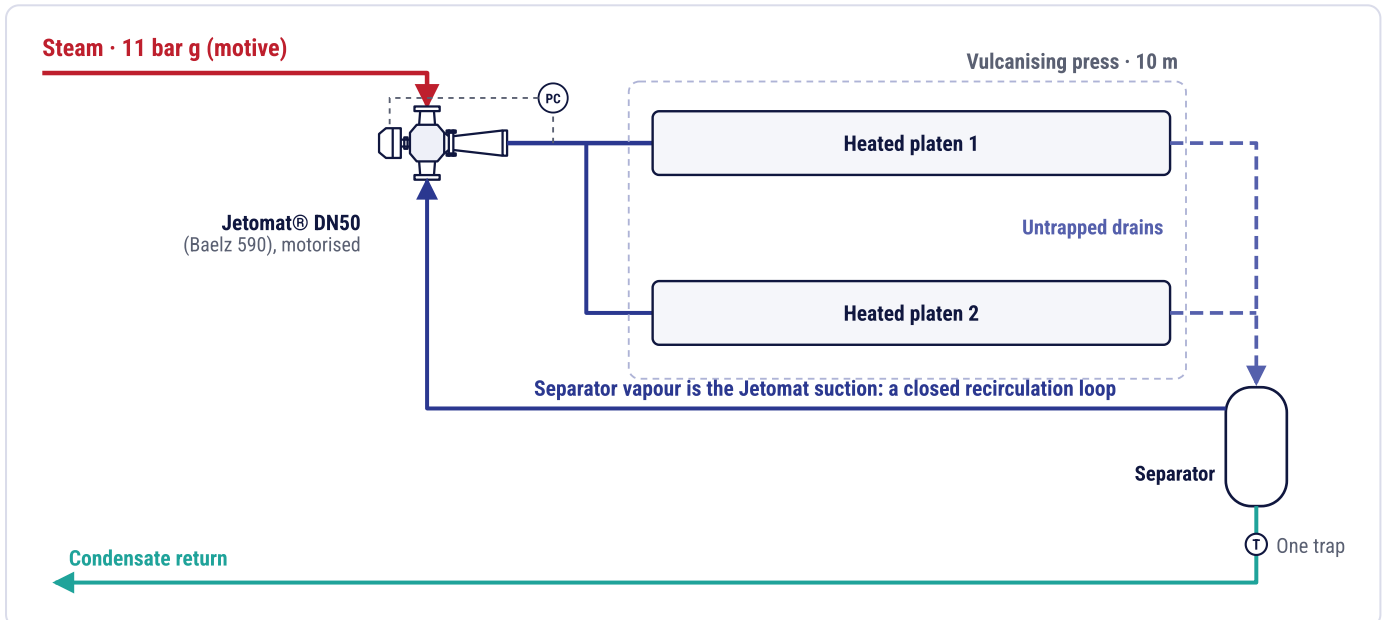
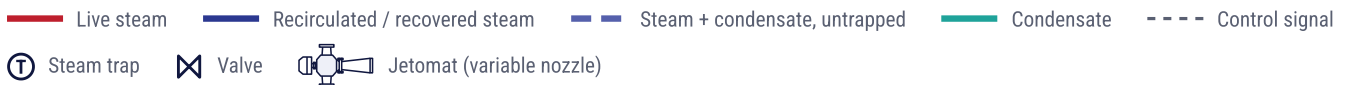
Installation photos: Baelz installation partner

05 The steam system, before and after

BEFORE



AFTER



06 Why it works

On a 10 m platen the condensate moves slowly and waterlogs the far end. The Jetomat's recirculation keeps the steam velocity up through the platen, sweeps condensate out continuously and holds a more even platen temperature. The result is less steam per cure and a more uniform cure.

SOURCE Figures as reported by the customer, measured with steam and condensate flowmeters on site.