



Equipment for dust exhaustion



Paper web threading



- ratio: performance - price
- high quality of rewrapped paper reels
- high cutting quality
- reliability in service

Advantages

Rewinder is used for **rewinding and longitudinal cutting of the paper web from paper machine reel spool into paper reels of required sizes.**

Design

The **winding part** of the machine consists of two rolls, each of these carrying rolls has its separate drive. A hydraulically controlled ejector of the reeled up rolls is installed in the first carrying roll bedding as seen in the paper web run direction. The tilting table bedding is attached to the second roll in the same way. Both rolls are dynamically balanced according to the required winding speed. Surfaces of both rolls are plasma-sprayed. Both carrying rolls are driven by AC variable-speed motors. The paper reel is laterally guided by mandrels that are pneumatically lifted or dropped down. They are retractable hydraulically or pneumatically. Every paper reel, while being reeled up, is pressed down from top by a rider roller, its down pressure is controlled according to diameters of the paper reel while being reeled up. In the top position the reel is locked.

A **cutting section** of this machine is arranged according to required width of strips to be cut, max. operating speed and type and width of the paper web. It is controlled pneumatically or electropneumatically on principles of so-called shears cutting with a tangential cut or a cut with embracement on the cutting roll. The machine is equipped in front of and also behind the cutting section with spreader rolls used for correct paper web guiding and cross stretching in the input part just before cutting and while coming to carrying rolls. These spreader rolls are installed on feeders for optimal adjustment of the paper web run. This cutting section comprises also a device for direct measuring of the paper web tension located on the guide roll with its constant embracement by means of which the required drawing force of the reel can be controlled. In the cutting section there is also equipment for dust exhaustion intended for significant reduction of impurities on the paper surface.

The **paper web threading system** serves for transfer of the paper web from unreeling stand through transfer, spreader and guide rolls, the cutting section and its spreader roll up to the space between carrying rolls of the rewinder. It comprises of V-belt conveyers, chutes, air nozzles and underpressure system with suction of the paper web onto the first carrying roll of the rewinder.

The **unwinder** is arranged as a twin frame with two stands on which reel spool beddings with locking levers and an ejector of empty reels spools, combined with hydraulic dampers on ends of unloading arms, are installed. Its own brake for unwinding is coupled with an AC generator motor or with a pneumatic disc brake with air or water cooling. A clutch installed between the brake and the reel spool is equipped with a splined shaft on which the own coupling part is pneumatically displaceable according to the reel spool carrier. The entire unwinding stand is equipped with cross and longitudinal shifting mechanisms for correct adjustment of the paper web run while entering the machine.

Machine can be also delivered with complete electric installation incl. control, automatic paper web threading system, equipment for dust exhaustion from paper web surface, equipment for suction of trimmings in the cutting section and reel spools. Besides production of new machines the company offers also complete overhauls and reconstructions of rewinders and their parts.

Design and work safety are in compliance with EU standards.

TECHNICAL PARAMETERS

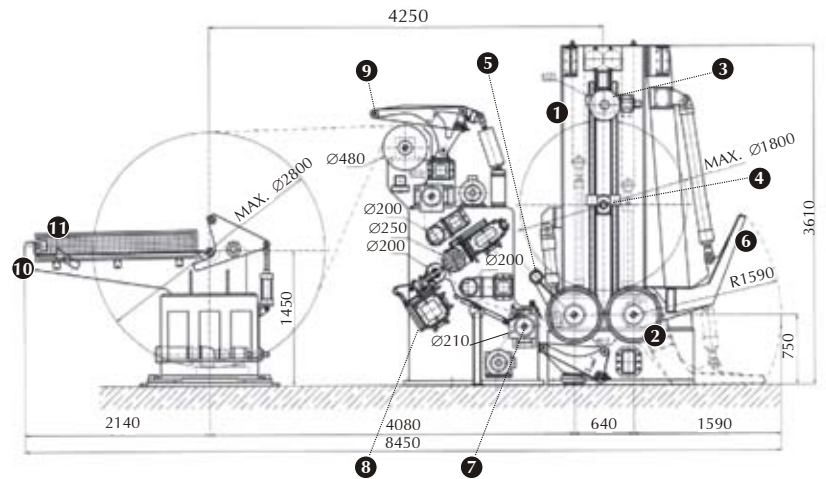
Substance of paper web to be rewound	17 - 500 g/m ²
Maximal working speed	2000 m/min
Maximal unwinding diameter	2800 mm
Maximal winding diameter	1800 mm
Maximal paper web width	4500 mm
Min. cutting width (accor. to cutting type)	70 (160) mm
Equipment with different parameters can be delivered optionally.	



Cutting section in detail

Main parts

- bearing structure - particular stands made of steel profiles, attached to each other by means of fixing bolts and locks (1)
- carrying rolls (2)
- pressure roll (3)
- mandrels for reel spools (4)
- ejector of paper reels (5)
- tilting table (6)
- spreader rolls (7)
- cutting section (8)
- paper web threading (9)
- unwinding stand (10)
- machine hydrostatic drive
- machine pneumatic circuit
- machine electric part - switchboard boxes, cabling, control board
- control system incl. software
- machine hoods (11)
- machine drive



Accessories

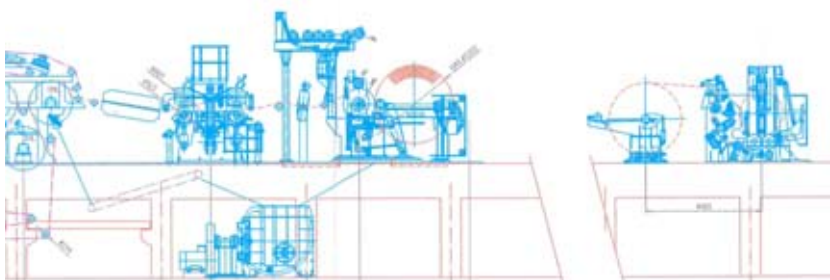
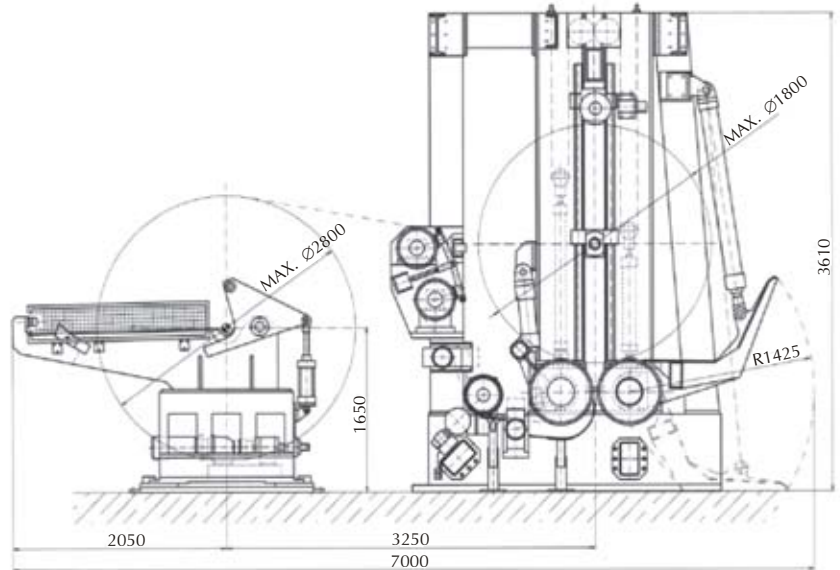
- equipment for suction of trimmings
- automatics for paper web threading
- equipment for dust exhaustion
- reel spools with rubber or polyurethane blankets

Scope of delivery

- machine according to main parts description
- accessories optionally

Material

- bearing structure - structural steel St 52
- roll jacketing - structural steel St 52 with surface treatment



Example of rewinder installation behind the paper machine

