

Cost saving solutions

T-REX 125-33

Rollepaal

Rollepaal Cost Saving Solutions

In producing plastic pipes, material represents about 80% of the cost price of the end product. Therefore it is important to keep the pipe in the required specifications and where possible reduce costs. Rollepaal offers several types of Cost Saving Solutions to control the quality of the pipe during production. The solutions are possible on Rollepaal equipment and on existing equipment of other brands, and will help you to bring down production costs.

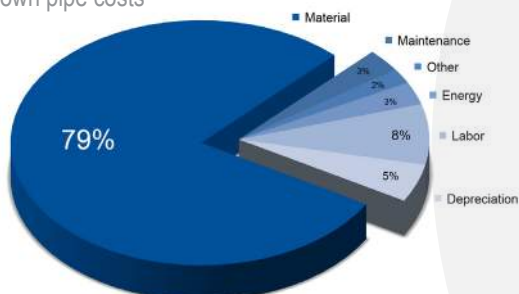
Rollepaal Cost Saving Solutions:

1. Rollepaal Direct Addition – CaCO₃
2. Wall control units
3. Automatic Thermal Centering
4. Gravimetric systems

Rollepaal Direct Addition - RDA

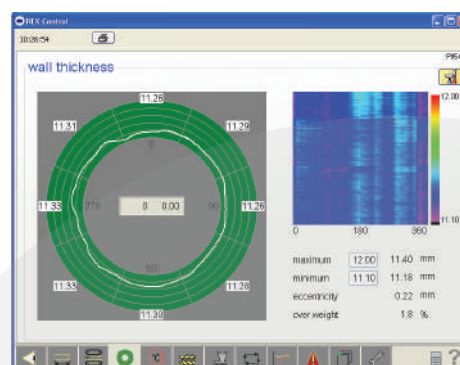
The RDA make sure that the material you will add in production will be done in a exact and consistent way. The RDA unit is mounted on the extruder for constant dosing of hard to handle materials in an industrial environment. For instance high amounts of CaCO₃ can be added without the problem of segregation. Multiple dosing units for additives can be mounted providing optimal flexibility for production.

Break down pipe costs



Advantages of our RDA system:

- No segregation of CaCO₃ and PVC during transport
- Smoother pipe
- Blending energy savings
- Increased flexibility of extrusion line (basis formulation)
- Gravimetric addition of additives
- Advanced technology
- High outputs at low reject



Wall control units

Controlling the dimensions of the pipe during production is an important factor of maintaining the pipe in the preferred specifications. This can be done by using scanners and a gravimetric system and no calibration is needed. Rollepaal scanners are able to measure the pipe wall thickness and diameter. Doing this you will be able to keep the pipe in the specifications. A range of scanners with various features is available, covering pipe sizes from 10 to 1600 mm diameter

Advantages of our Scanners:

- Continuously inline wall thickness and diameter measurement
- Minimum wall control (overweight reduction)

Rollepaal for a sustainable world

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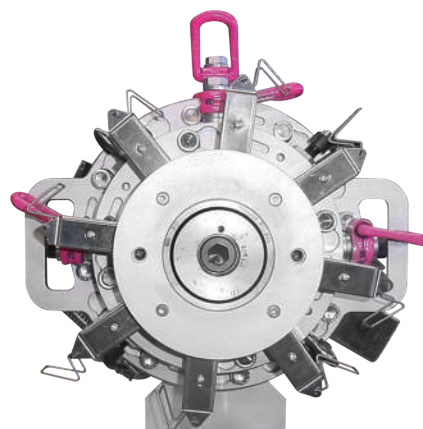
Automatic Thermal Centering - ATC

Rollepaal ATC makes it possible to control the distribution of the wall thickness. With the ATC you can adjust uneven sectors in the pipe. The ATC allows you to start-up a production line faster and reduces the overweight of the pipe.



Rollepaal Gravimetric System – RGS

The core part of the RGS is the weighing hopper. After being filled, the material flows from the weighing hopper into the extruder. The loss in weight per unit of time is equal to the material intake of the extruder. The obtained extruder output is compared with a reference set point value and a control system will adjust the extruder screw speed (or dosing speed) to bring the output to the desired level. This control keeps the extruder output stable in spite of fluctuations in the bulk density of the raw material.



Instead of the output control, the output signal can also be used for control of the haul-off speed. In that case the pipe weight per meter is kept constant. When the line incorporates an ultrasonic scanner, the measured output is used for automatic calibration of the ultrasonic measurement. Thus eliminating the time consuming and man dependent manual calibration procedures.

Process Control System – PCS II

The PCS II itself is a control system that can be combined with a scanner, ATC, RDA, and RGS. The type of scanner, ATC and gravimetric system depends on the extrusion line.

Advantages of our cost saving solutions

- Excellent return on investment
- Reduction of start up time and scrap
- User friendly interface for total extrusion line control
- Overweight reduction

PCS II control



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