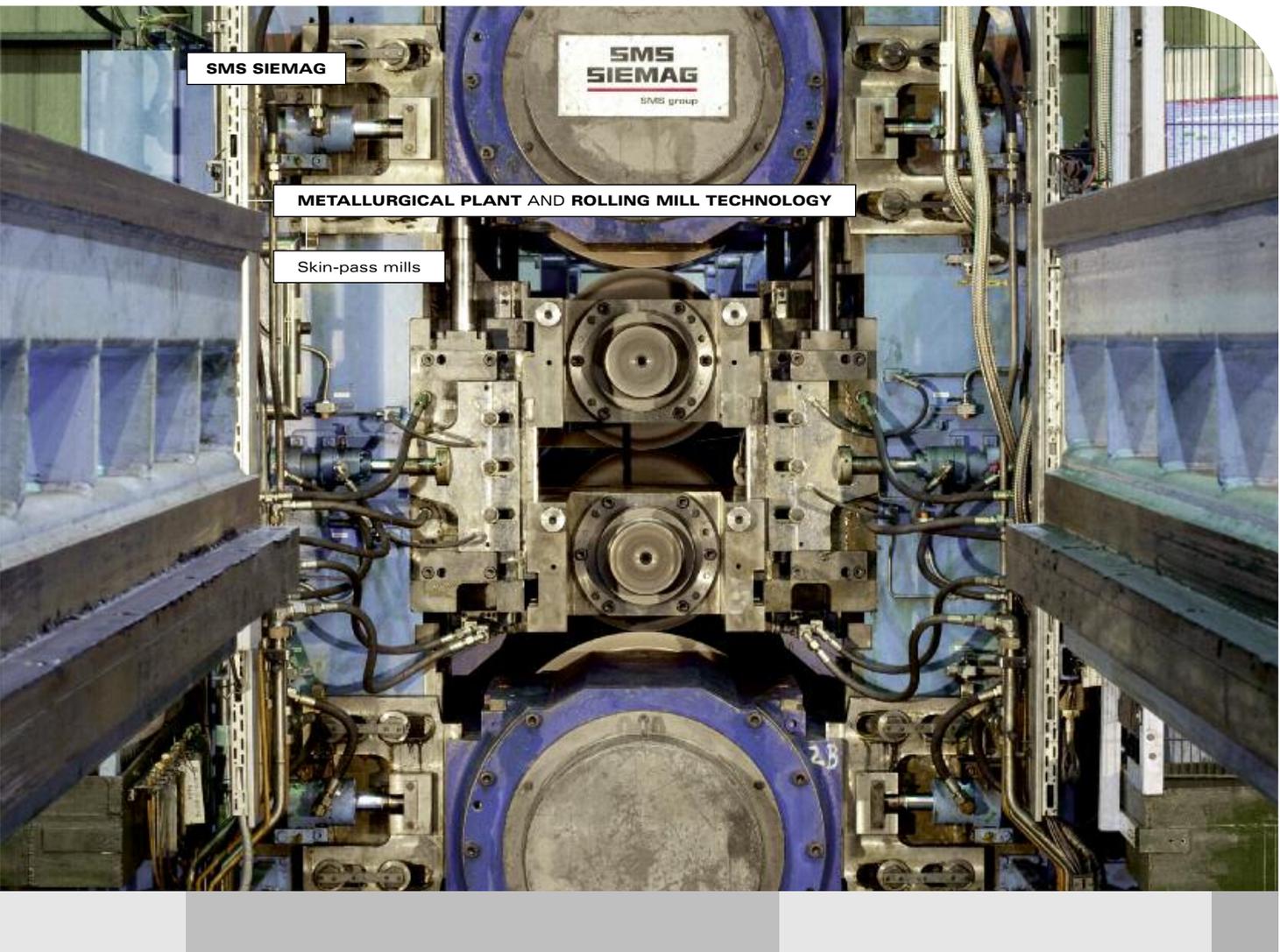


ECOLub SKIN-PASS SYSTEM

More flexibility and higher efficiency



ECOLub SKIN-PASS SYSTEM



Application of minimal-quantity lubrication.
Complete extension for ideal accessibility.



YOUR CHALLENGE

As an operator of skin-pass plants, you can save both resources and money by identifying and unlocking cost-cutting potentials. Simultaneously, you are looking for ways to expand your product range and increase product quality.



OUR SOLUTION: ECOLub SKIN-PASS SYSTEM

What's central here is that this system applies exactly the right amount of lubricant to the strip for the roll gap. That means minimal lubricant consumption and no need for strip drying.

The surface quality is comparable with that from dry skin-passing. Furthermore, utilizing ECOLub reduces the skin-passing force required. That improves your

plant's performance and extends the product mix to higher-strength materials. You also benefit from a longer service life of the rolls. All this helps you save overheads.

ADVANTAGES YOU GAIN FROM ECOLub

- Increased plant performance
- Expanded product range including higher-strength grades
- Reduced rolling force
- Minimal lubricant application
- Cleaner strip surfaces
- No strip drying necessary

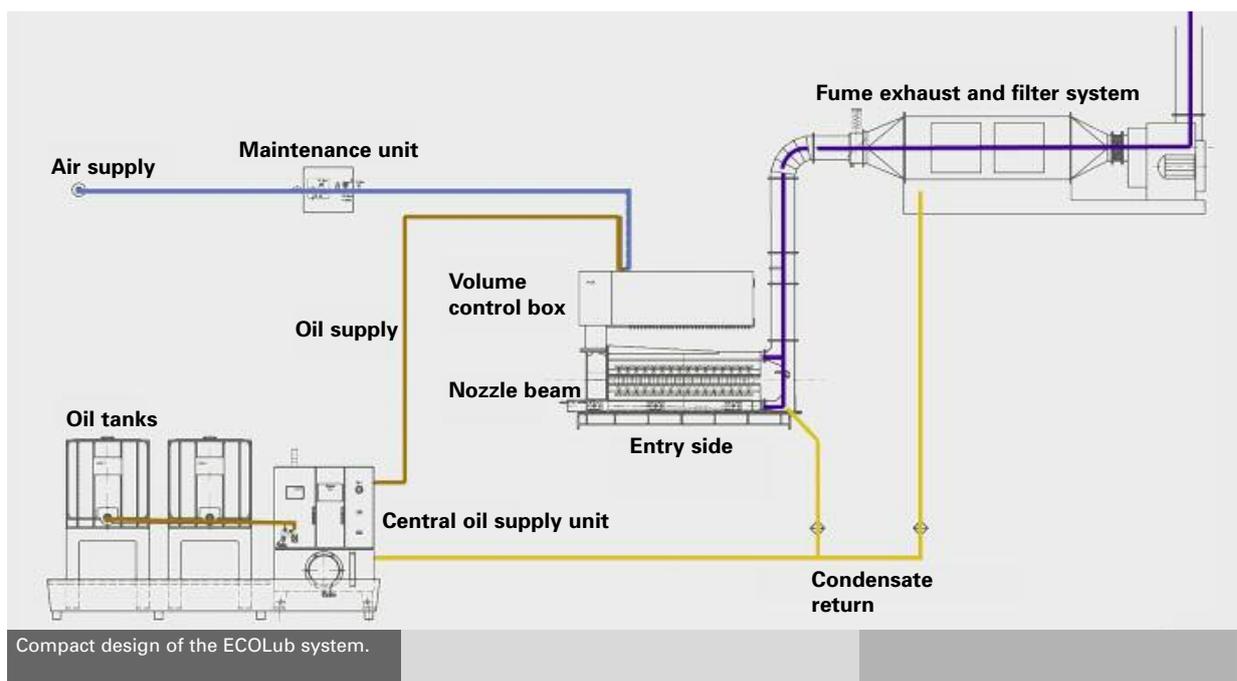
DESIGN

Included in the ECOLub system are stand-out features such as its compact design and suitability for retrofitting in existing skin-pass mills. Key components comprise an entry-side (automatic or manually adjustable) nozzle beam with fume exhaust and a tank, pump, and volume control unit.

FUNCTIONAL PRINCIPLE

Conventional spray systems have proven incapable of correctly applying lubricant at film thicknesses of as little as 0.2 ml/m^2 . Why? Because such tiny quantities can only be deposited evenly on the strip when sprayed in the form of an ultra-fine mist. We achieve this with special nozzles and compressed air. It's also possible to control the volume flow through the nozzles in sections.

A fume exhaust unit positioned behind the nozzle beam in the strip travel direction prevents lubricant vapor, keeping the environment entirely lubricant-free. The vapor condenses in the exhaust unit, where the condensate is collected and returned to the tank.





A direct comparison with a dry-skin-passed strip (r) shows that the strip skin-passed with ECOLub features comparable roughness without lubricant impressions on the strip surface.

THE BOTTOM LINE

You'll achieve great operating results with ECOLub, for example improvements in plant flexibility, energy consumption, eco-friendliness, product quality, plus minimized investment and operating costs. The reduced rolling force caused by the lubricant increases the performance of the skin pass mill. That helps you extend your product mix to include high-strength grades without having to invest in a more powerful skin pass mill. Just as good for your budget: the lower rolling force means skin passing takes less energy.

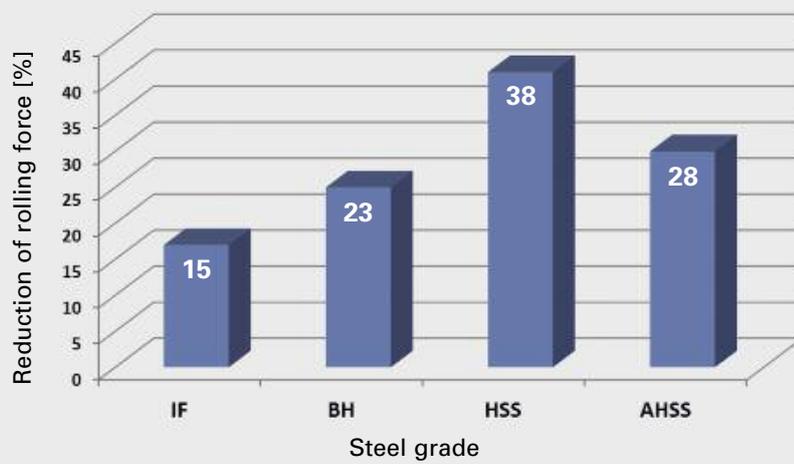
The roughness of the strip surface is identical to conventionally dry-skin-passed strip. All this, together with a more even roughness transfer and residue-free application of the lubricant, makes the skin-passing operation super-efficient.

Compared to conventional wet skin-passing systems, there are distinct advantages for you from the lower investment costs and minimized lubricant consumption. What's more, strip drying is no longer necessary. And you don't have to pay any costs for the disposal of wet skin-passing agent.

A STRONG PARTNERSHIP: ECOLub AND PRIMELub LQ

PrimeLub LQ was developed by SMS Siemag especially for use in the ECOLub skin-pass system. It stands out for its excellent lubricating qualities at minimal consumption. That cuts operating costs and causes less harm to the environment.





ECOLub can reduce the rolling force during skin passing high-strength steels by up to 38 percent.

MEETING your **EXPECTATIONS**

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