

BIJUR DELIMON
INTERNATIONAL

**"No friction" -
even when
things get
hot ...**

Steel Industry 



Quality to quality



1.

In the areas of the ladle turret, the cooling zone and the straightening and withdrawal equipment of a CSP plant or a continuous casting machine, lubrication takes place by means of a dualline system for the individual bearings or by grease spraying for the gear rim of the ladle. The pump stations as a rule feature standby pumps and automatic filling. For mold or shear lubrication, we provide oil recirculation lubrication or oil loss lubrication.

The lube systems within the individual segments come with monitoring elements to be able to react within minimum time whenever any trouble occurs. The centralized lubrication system is controlled either from customer's PLC or a tailor-made control system. Reliable monitoring of the complete lubrication system is a matter of course.



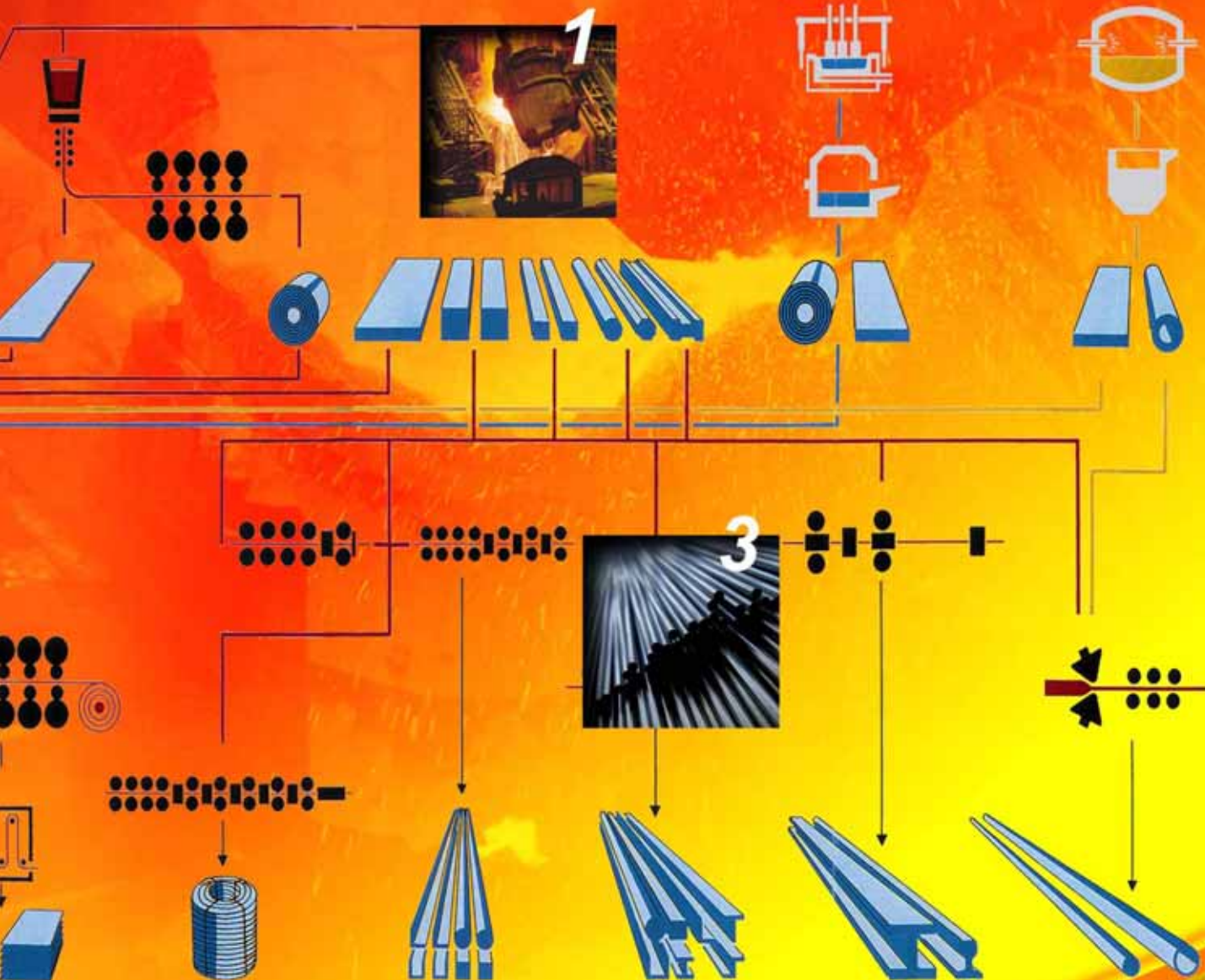
2. and 3.

The cast slabs, blooms and billets are further processed in the downstream rolling mills. The various types of rolling mills likewise are equipped with a robust and reliable dual-line system.

Depending on the size of the casting facility and the downstream rolling mills, the complete lubrication system comprises several pump stations incl. standby pump, various automatic filling stations as well as a number of different distributors in the individual plant or mill areas.



Many wheels are turning for ore to become steel. In this process, steel plants attach great importance to top performance and workmanship along the entire production route. When slabs are running through the stands of the breakdown or roughing and finishing mills at up to 80 km per hour ... when coils and sheets are produced, or sections and tubes - everything must run smoothly even at maximum heat. That's where specialists in centralized lubrication systems come in to ensure absolute quality. And we bring you the quality you can count on.



For the steel industry: Products from BIJUR DELIMON

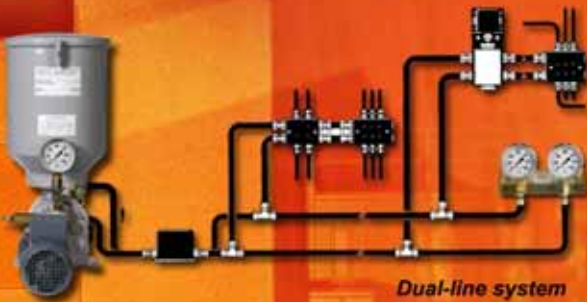


Pump station with standby pump and automatic filling system, change-over control panel with pneumatically operated solenoid valves and terminal box. Control is via customer's own PLC or a tailormade control system. Application: bearing lubrication on the ladle turret and in the various segments.



Roller table and segments equipped with dual-line distributors or (in exceptional cases) with progressive distributors. The segments are monitored by means of proximity sensors.





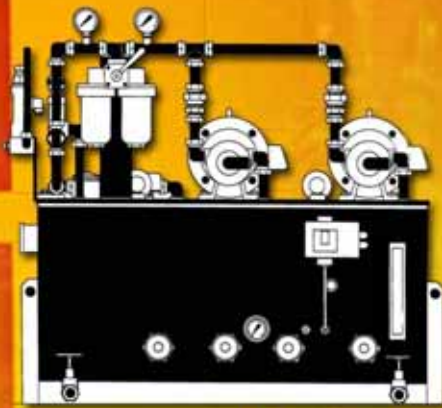
Dual-line system

Dual-line system with grease pump BS-B, change-over valve SA-V, final pressure (end-of-line pressure, limit pressure) monitor SG-A, as well as the associated dual-line distributors ZV-B.

Progressive system with multi-line pump FZ-A/B, monitored main distributor ZP-A or ZP-B, as well as various sub-distributors ZP-A. Application: bearing lubrication in the area of the ladle turret or, in co-action with adequate spraying nozzles, lubrication of the gear rim at the casting ladle.



Progressive system



Oil recirculation unit

Oil recirculation unit with main and standby pumps, double switch-over-type filter, flow meter as well as electrical and optical level monitor – as a rule with downstream progressive distributors ZP-A as a complete system. Monitoring of individual distributors is practicable as well. Application: mold lubrication (oil recirculation lubrication or oil loss lubrication), shear lubrication (oil recirculation lubrication).

Multi-line pump FZ-A/B with flange-mounted gear motor, optionally with ultrasonic level monitor.



Multi-line pump



A (no) magic word: Engineering

DELIMON has developed and built centralized lubrication systems for more than 125 years. And just like the progress made in the steel industry, the development steps are also obvious at DELIMON. That's no accident because this long-established company is always keeping pace with technical progress. Time and again, our specialists are requested to provide customized solutions for the steel industry, and time and again our engineers and design experts, product specialists and service technicians are coming up with sophisticated, tailor-made solutions. However, these developments do not happen by chance. They are the result of a suitable strategy:

- Market and product studies form the basis for all further planning.
- The concept is developed and a strategy is worked out.



- The product concept is created.
- Following product testing, production starts.
- The products are checked for potential improvement.

"Perfectly happy"

That's how customers often feel once they have decided to use DELIMON's Total Lubrication Management. With this innovative service, DELIMON accepts responsibility for the field of centralized lubrication, also in the steel industry, thus guaranteeing:

- greater process safety
- fewer failures or downtime
- lower energy costs
- less touchup work
- conformity with applicable standards
- cost savings.

And even better: Total Lubrication Management also ensures value-added assignment of own staff ... less administration ... and all this from one single source.

Total Lubrication Management offers you a comprehensive concept which accounts for your needs in terms of

- Lubrication systems
- Oils and greases
- System selection and dimensioning
- Preventive maintenance
- Assignment planning and service
- Documentation of maintenance and repair/servicing
- Cleaning and disposal
- Stock-keeping

The distinct benefits to users include: increased plant availability, a quality-assured process and less process costs.



Worldwide operation: even in customer service.

In which branch, wherever on the globe innovate centralized lubrication is needed: We are close by. With local branches, distributors and partners in cooperation. In Europe, Asia and overseas. Always with specialist service teams who speak your language. Try us.

... in over 50 countries worldwide.



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