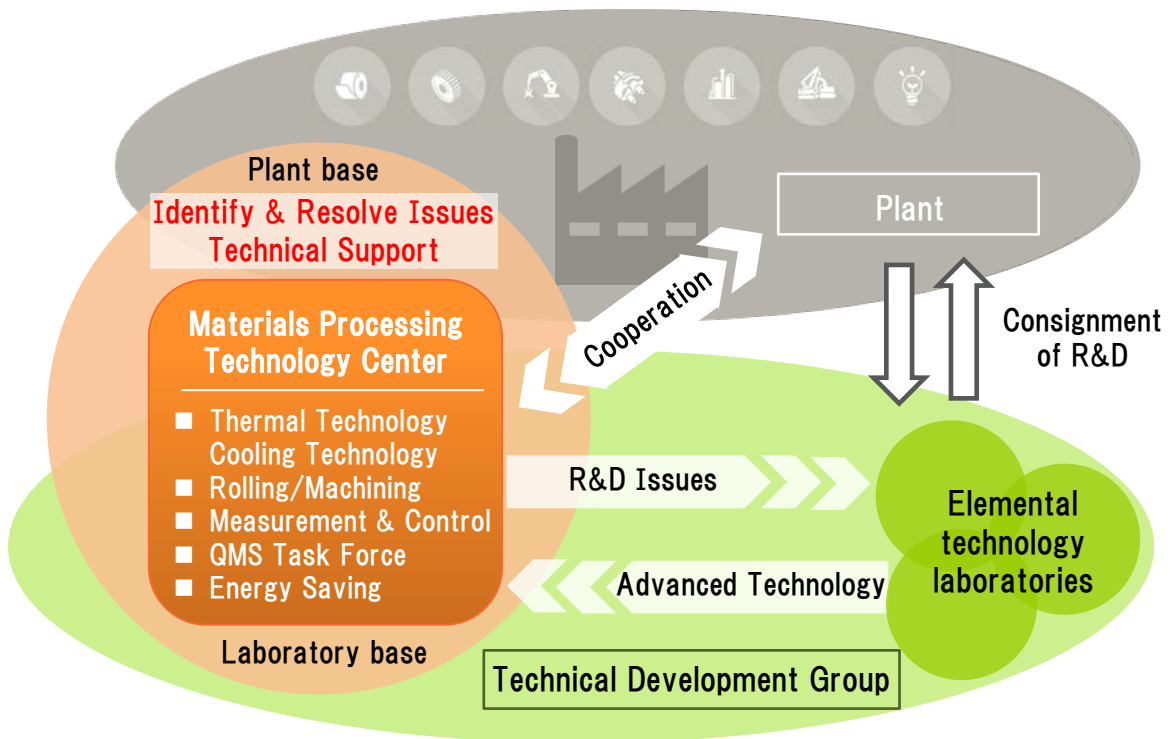


Materials Processing Technology Center

To solve problems that require complex engineering technologies at production sites, we have integrated our expertise and specialized technologies within the KOBELCO Group, and thereby contribute to rapidly resolving process problems. By communicating with all our Group bases, we can develop technologies needed to solve problems related to QMS and 'monozukuri', and provide the necessary support. Our goal is to identify potential or persistent issues through our efforts on-site. We also enhance process technologies, accumulate know-how, and promote human resource development.



Energy Saving of Combustion Equipment

Based on our technologies of high efficient/stable/uniform heating, combustion and cooling, we contribute to product quality improvement, energy saving and CO₂ reduction by heat treatment.

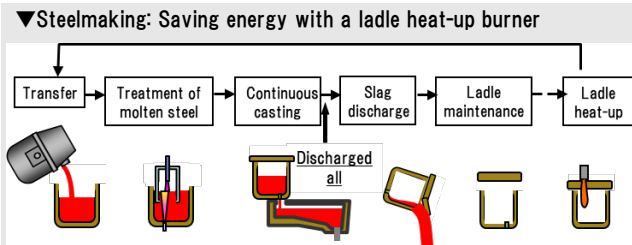


Fig. Ladle operation

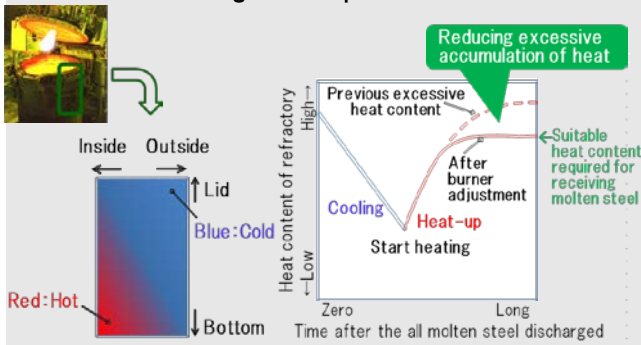


Fig. Simulation of heat distribution for refractory

Fig. Thermal simulation of refractory for ladle heat-up

Energy saving by combustion adjustment

Yield Improvement of Steel Cold Rolling Process

Based on our technology of rolling/machining, we contribute to the improvement of product dimensional accuracy, stable production and yield improvement.

▼Steel sheet: Improving the accuracy of thickness setting at the head end of cold rolling

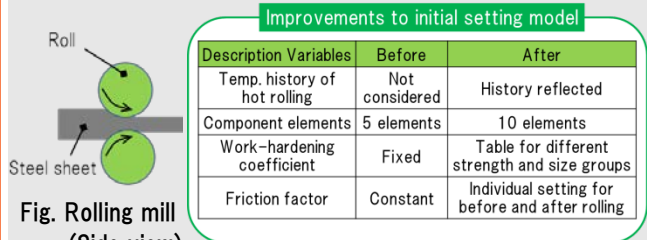


Fig. Rolling mill (Side view)

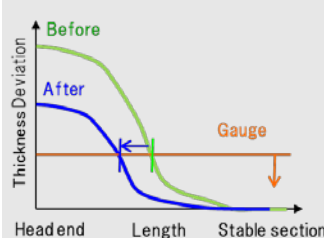


Fig. Behavior of thickness at the head end

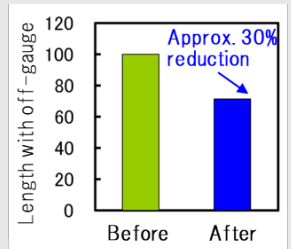


Fig. Length with off-gauge (100 for the length before improvement)

Reducing the thickness deviation at the head end by improving the initial setting model