

350,000 TPA BAR Mill reaches production capacity

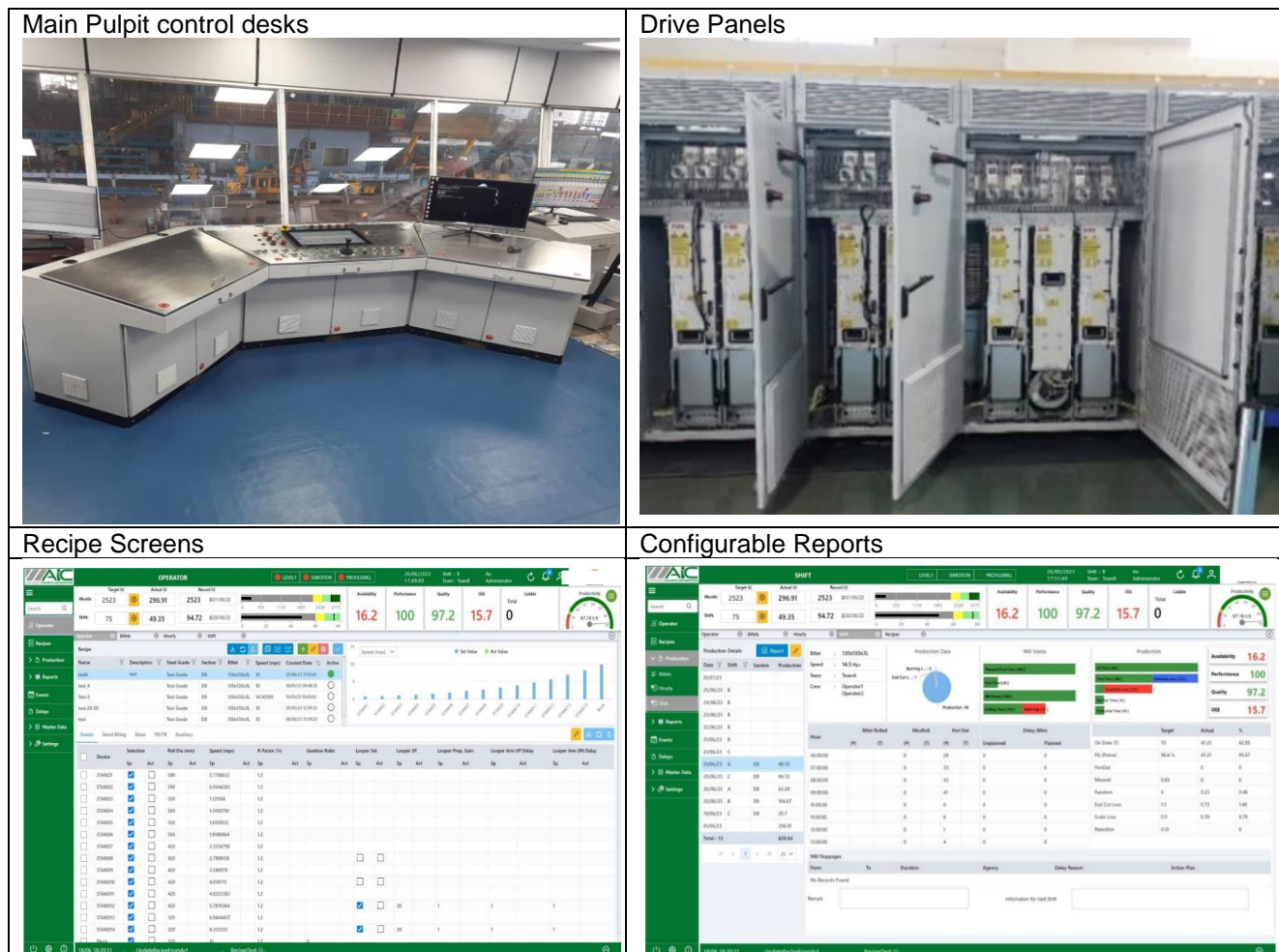
Giridhan Metals awarded AIC an order for the automation and fast finishing area equipment for their 350,000 TPA Bar mill in September 2021. The mill was commissioned in June 2023 and has improved its productivity capacities, especially with the smaller sections 8 -12 mm.

At the moment the plant has reached 8mm profiles rolling at 33.75 m/s, speed limited by the Block speed. The mill is closely coupled to the Caster and continuously hot charged. The mill is fed through an inductor heater to prevent any heat loss and make billets available to the Rolling mill at a temperature of 950~1000 degrees Celsius.

The scope of supply consists of:

- Automation Systems for Rolling Mill Control on S71500
- Shear and Highspeed equipment controlled by Motion controller from Siemens
- Fast Finishing area Equipment for the Bar Mill for example the Pinch rolls, Continuous Shear with High-speed diverter, Tail brakers and Rotating drum
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- Drive systems for Fast Finishing area equipment
- HMI systems was based on TIA Portal.

The Complete mill was supplied by fully automatic system that set up the mill through a Recipe system which was integrated with the HMI system. The high level of automation provided allowed a quick learning curve and the customer improved significantly the productivity within one week of startup.



About Companies:

AIC Group is a technological partner with extensive experience and deep know-how and stands itself as a global power control supplier and system integrator designing, manufacturing, and implementing automation systems, process control, and mechatronic solutions for both greenfield and revamping projects. Focusing on the steel and metals industries for long and flat products, the Group provides cutting-edge technical solutions by handling complex project schedules and thus establishing satisfactory and remarkable partnerships through its 6 international offices. More than 45 years of modernization for endless reliability processes.

AIC decided to enter the Asian market in 2008, selecting India as a reference point and committing to invest in the country. As the CES unit for the Indian subcontinent, **AICIN** works closely with the other units and divisions within the Group.

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