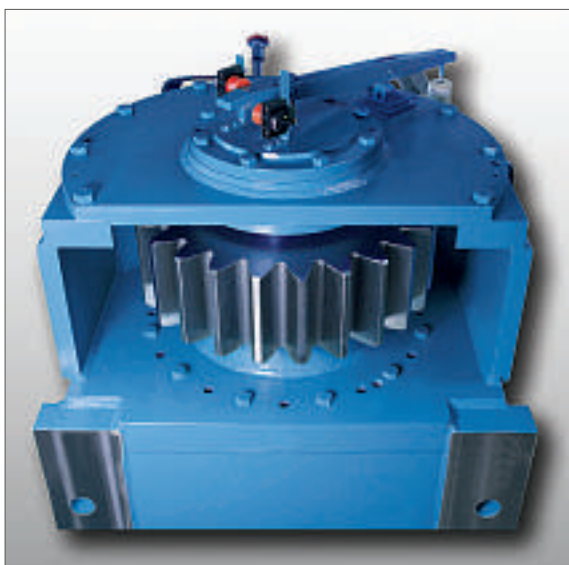


NEWS
 » LADLE TURRET DRIVES

Maximum reliability for ladle turrets.
 Emergency drive and power flow interruption!

The steel industry is booming. Production downtime is something you want to avoid. And this is precisely why the Enns based gear system specialists EISENBEISS have developed an extremely reliable ladle turret drive for continuous casting lines.



EISENBEISS special gears: extremely reliable
 When modernising the ladle turret for the continuous casting line, leading steel makers rely on the proven know-how of EISENBEISS, the gear specialists based in Enns, Austria.

Better to be safe than sorry: the new **Millmaster®** ladle turret drive offers optimum protection against gear failure and also features an emergency hydraulic drive.

The challenge: improving resistance to fracture at tothing and casing

Even the most experienced crane operators cannot always place ladles filled with molten steel exactly into the ladle turret carrier arms. The turn of the output gear continues via the moving parts in the gear to the motor. The motor's holding brake may cause brief gear overload which then results in tothing and casing breakage.

The solution – complete separation of the output gear

An EISENBEISS speciality: by completely interrupting the power flow in the gear system while the ladle is

Technical data:

Net weight	3,625 kg
Acceleration torque at pinion	51,000 Nm
Ladle turret speed (normal operation)	1.03 rpm
Ladle turret speed (emergency operation)	0.5 rpm
Motor rating of main electric motor	45 kW

EISENBEISS Millmaster® – fail-safe in continuous heavy-duty operation

being put into place, EISENBEISS ladle turret gear units offer optimum protection against load peaks that come from the turret.

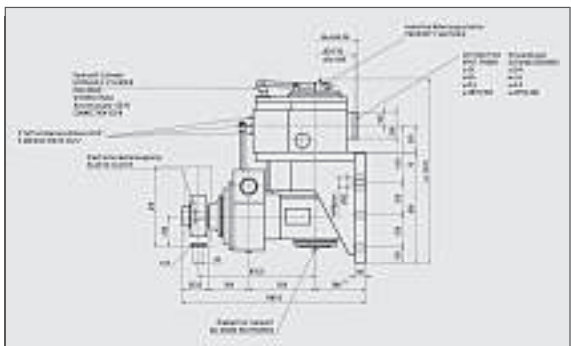


Internal tothing on bevel gear for disconnecting.

The technical solution behind this innovation lies in a disconnect mechanism: a hydraulically operated cylinder releases the form-fit connection of the gear parts via a lever. The system is reconnected again once the ladle is in place.

The challenge – preventing production downtime due to drive motor failure

The failure of a drive motor can bring entire production lines to a standstill – with enormous financial losses.



The solution – emergency gear operation through hydraulic engine

EISENBEISS special gears feature two drive systems which are completely independent of each other. In normal operation the gear works with an electric brake motor. To prevent the whole plant from going down in

the event of a power cut or defect, whereby the molten steel would freeze in the ladle, a hydraulic or pneumatic engine ensures emergency operation.



The EISENBEISS ADVANTAGE: best possible operational reliability in tough endurance conditions

- Eliminating weak points in the ladle turret gear system makes sure you have the best possible operational reliability for the continuous production of semi-finished stock.
- Thanks to the straightforward and fast installation there are no significant hindrances to production when modernising the unit.



Put us to the test!

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EISENBEISS – setting standards in gearing technology.

