STEEL INDUSTRY

>> One Single Partner for all Your Needs <<

HOT STRIP MILL GEARBOX

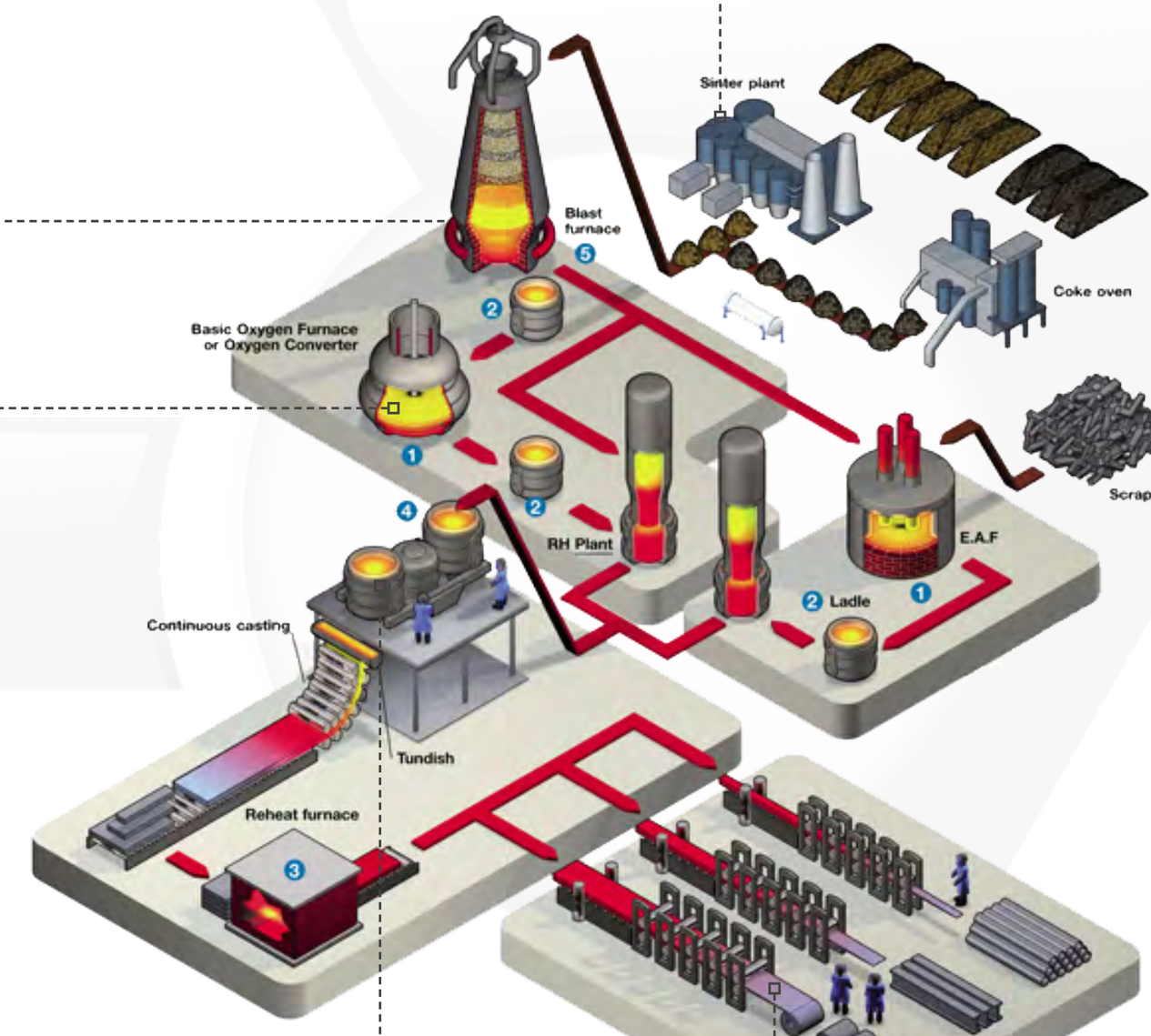
190 Tons - Power: 9 MW at 27 rpm
Size = 8,8 x 4,4 x 4,9 meters (L x l x h)

IRON MAKING

STEEL MAKING

CONTINUOUS CASTING

ORE RECOVERING

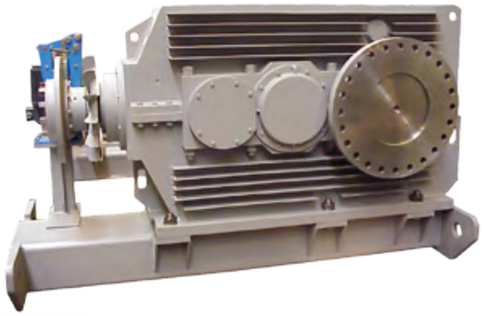


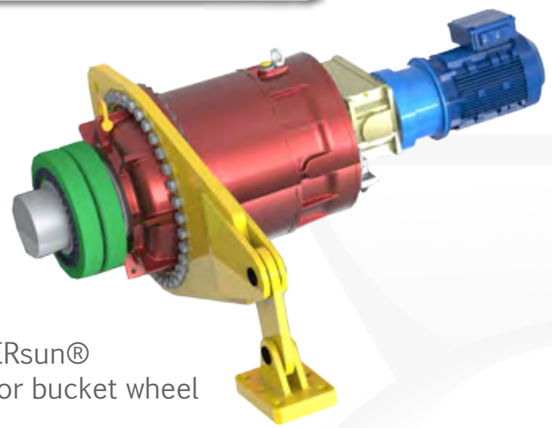
HOT ROLLING

ORE RECOVERING

MATERIAL HANDLING

ERmaster® for belt coneyors





ERsun®
for bucket wheel

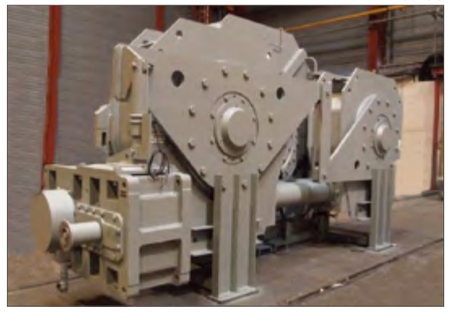
SINTERING/PELLETIZING PLANT

Bogiflex®

Pellet cars

Sprocket wheel

Haflex®



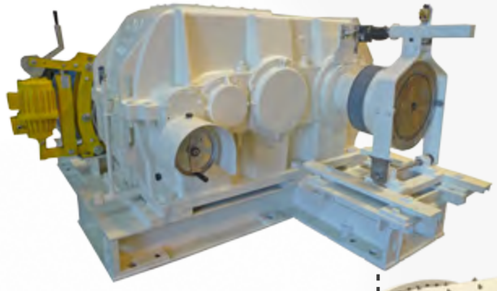
MILLS, DRYERS, MIXERS, ROTARY KILNS FOR DIRECT REDUCTION IRON PROCESS

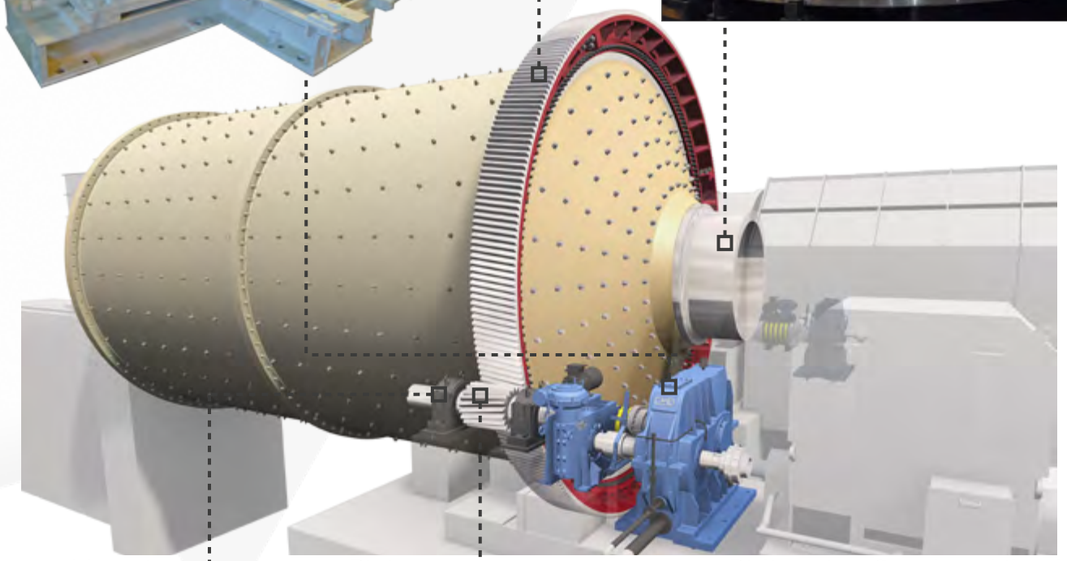
Complete drive systems

Girth gears

Mill Heads

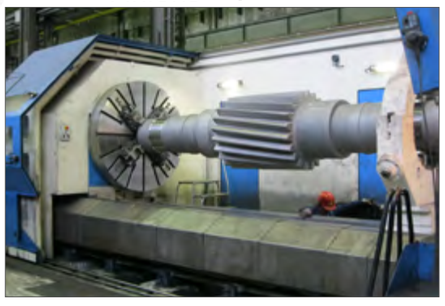
ERmaster® parallel-shaft reducers





White metal bearings

Pinions



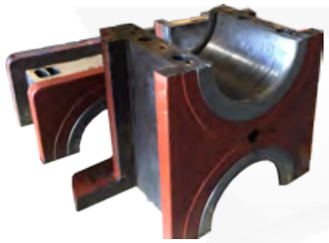
Riding ring fitted on kiln shell

STEEL MAKING & CONTINUOUS CASTING

TUNDISH CAR AND MOULD ADJUSTMENT

Roller screw mechanical jacks

Worm gear sets



Continous casting : Bearings refurbishment

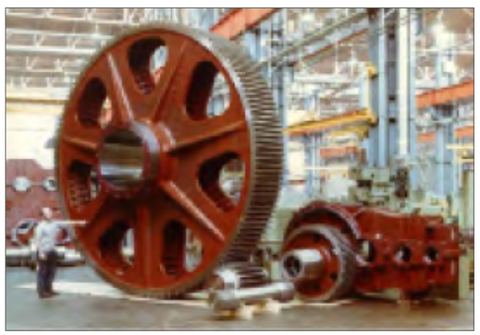
Gear couplings for rollers

CONVERTER TILTING AND TAPPING

Ladle crane

Haflex®

Bogiflex®



Special gearboxes

IRON MAKING

Furnace Bell Hardfacing

Bogiflex® Gearbox for Torpedo Cars

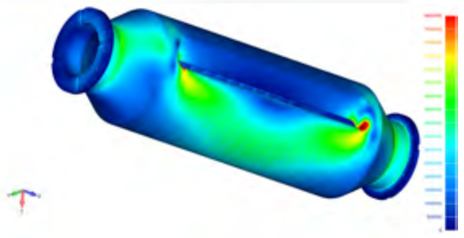
Liners

HOT ROLLING

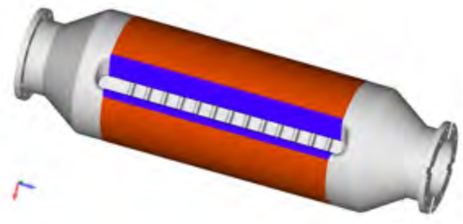
STECKEL MILLS

Coiler drums

Thermomechanical analysis for optimal design:



Special coating for oxyde pick ups or surface damage issues:



Creep Properties				
FC Reference	Temperature (C°)	Stress Rupture (Mpa)		Creep Rate 1%
		100h	1000h	10 000h
FerryNox 25	700	100	80	65
	800	75	50	36
	900	47	28	17
	1000	28	16	7

ROUGHING STAND

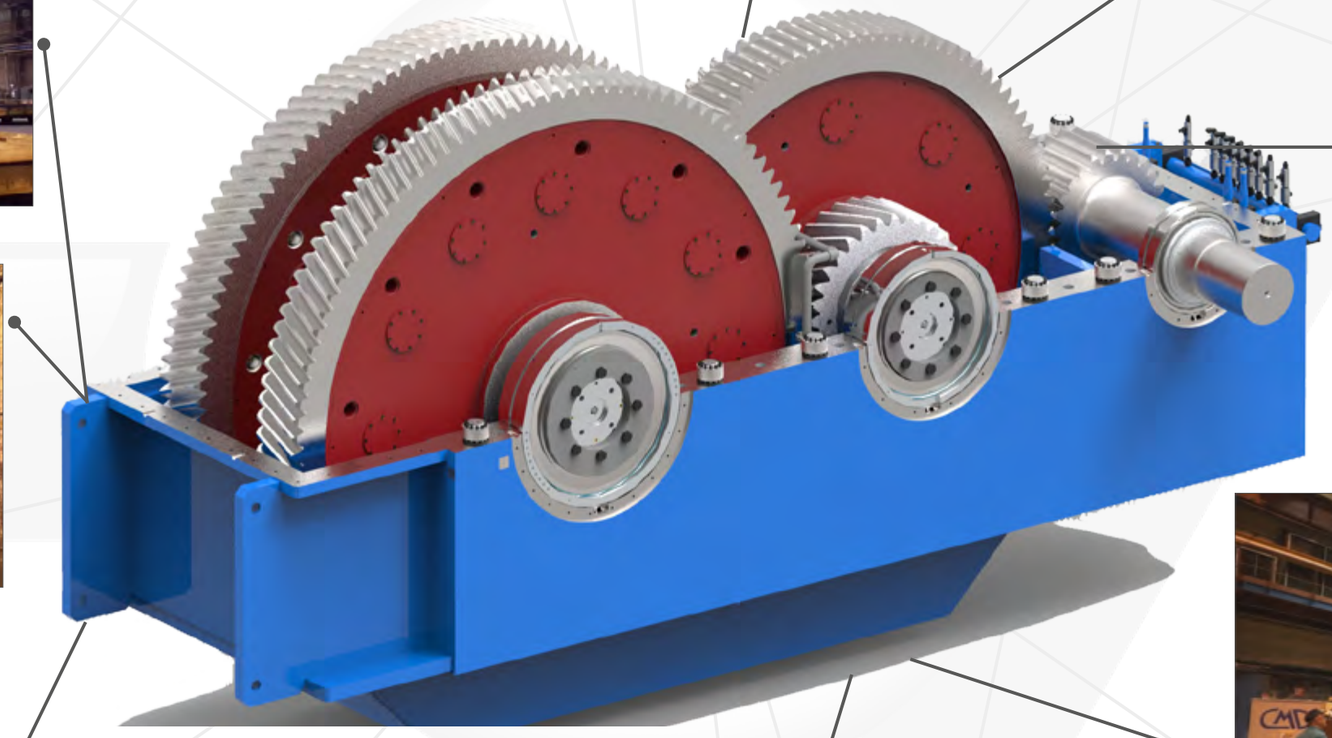
Groupe CIF, though the synergy and complementarity of the machine tools of six companies, is capable of handling complex projects, from engineering to manufacturing.

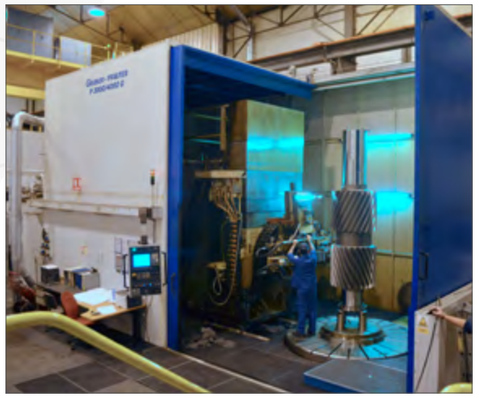
Our policy of continuous investment, our extensive experience and the multiple capabilities of our various sites enable us to fully meet the quality and delivery requirements of our customers.

Fabricated gear wheel on VBM

Gear wheel on CNC center

Welding of casing parts



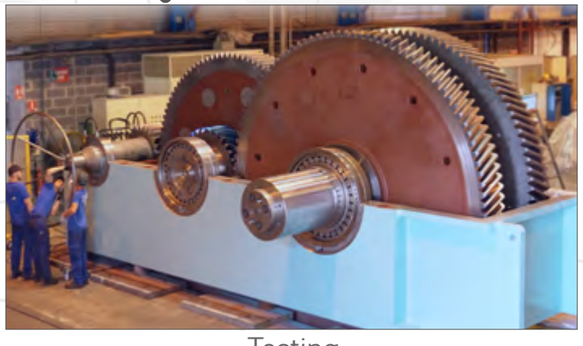


Pinion on gear grinder

Casing assembly

Assembly

Machining of casing on CNC boring machine



Testing

SPECIAL GEARBOXES & GEARS SETS FOR HOT & COLD PROCESSING

Gear wheel

Pinion stand casing

Pinion stand

Reducers for tubes mills

Worm gears and gearboxes for mechanical jacks, screw down and cooling bed

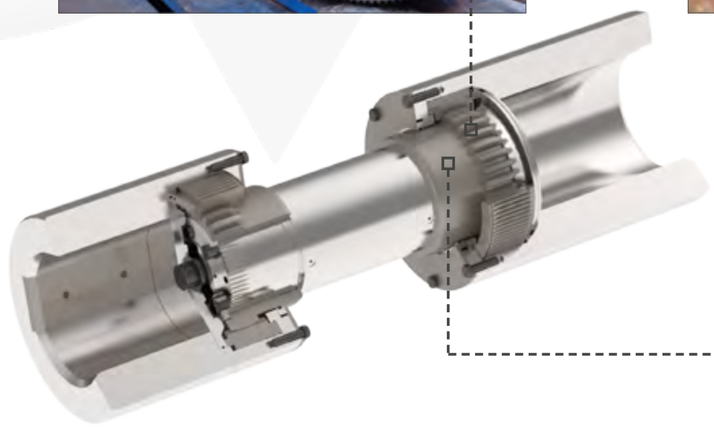
Bar mill combined 2Hi reducer

Crop shear reducer

Coiler drive

REFURBISHING OF ROLL CHOCKS

SPINDLES AND GEAR COUPLINGS



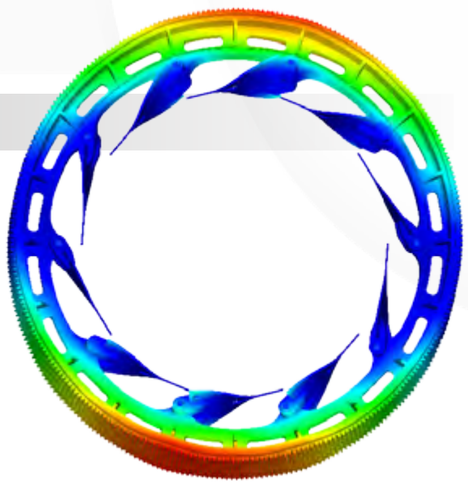
OUR ADDED VALUE

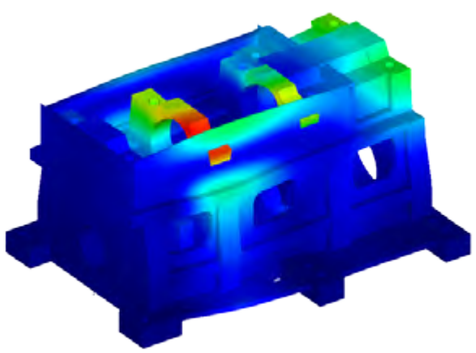
R&D - ENGINEERING

- Finite Element Analysis (FEA)
- Solidification and Flow Simulation Modeling
- Mechanical drive train design (open and enclosed gearing)
- Development of custom mechanical couplings
- Re-design of fabrications to castings (SG Iron or cast steel)
- Technical staff of approx. 100 engineers/technicians
- Multiple patents each year

MATERIAL DEVELOPMENT

- Proprietary metal casting grades (FerryNod®, Ferrynox)
- Full metallurgical test lab





SERVICE

Over thirty qualified engineers and technicians within Groupe CIF are capable of travelling over the world for operations ranging from installation and commissioning of supplied products, to preventive maintenance and technical assessments.

- Reverse Engineering
- Supervision - Commissioning
- Monitoring
- Assessments/Recommendations
- Refurbishment of all types/brands of gearboxes

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NOVEMBER 2018

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