

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



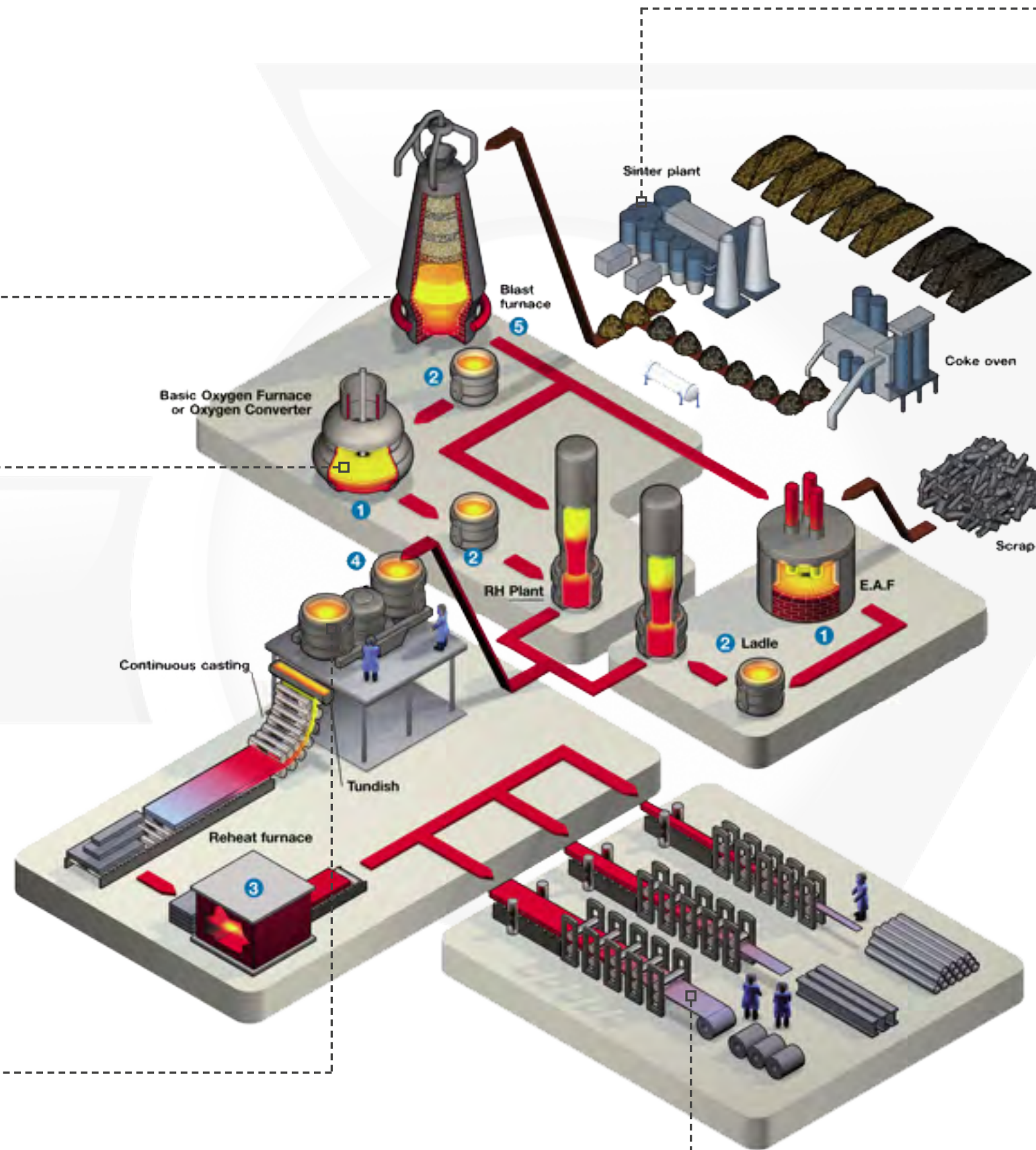
STEEL MAKING



CONTINUOUS CASTING



ORE RECOVERING



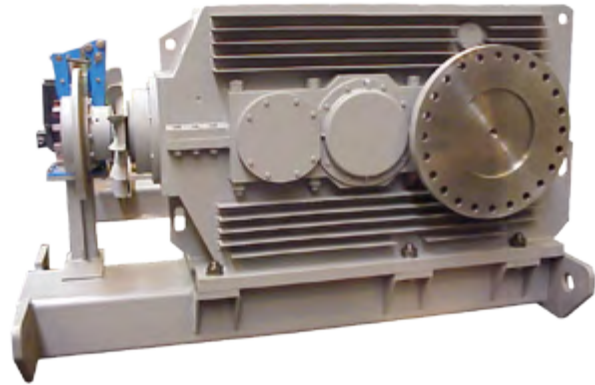
HOT ROLLING



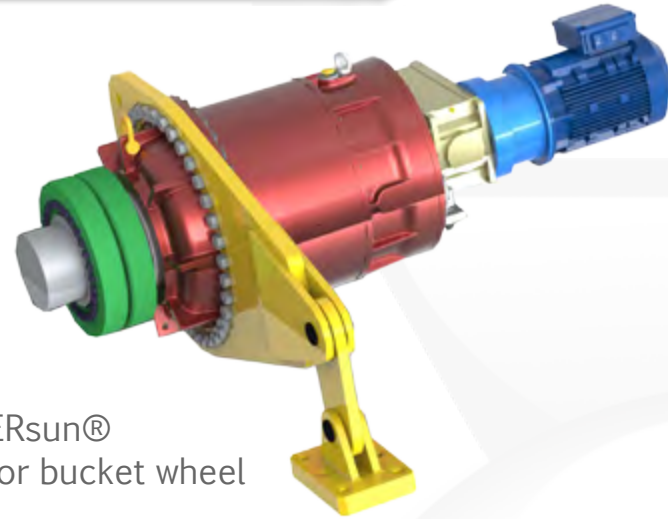
ORE RECOVERING

MATERIAL HANDLING

ERmaster® for belt conveyors



ERsun® for bucket wheel



SINTERING/PELLETIZING PLANT

Bogiflex®



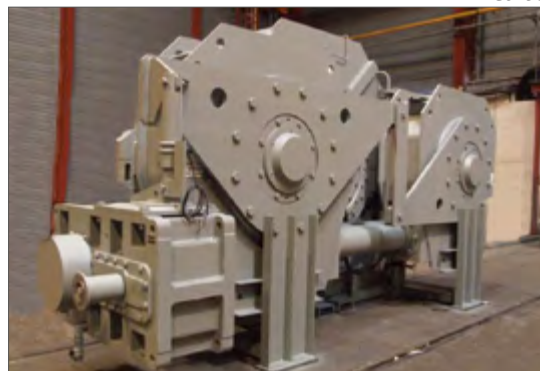
Pellet cars



Sprocket wheel



Haflex®



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



Complete drive systems



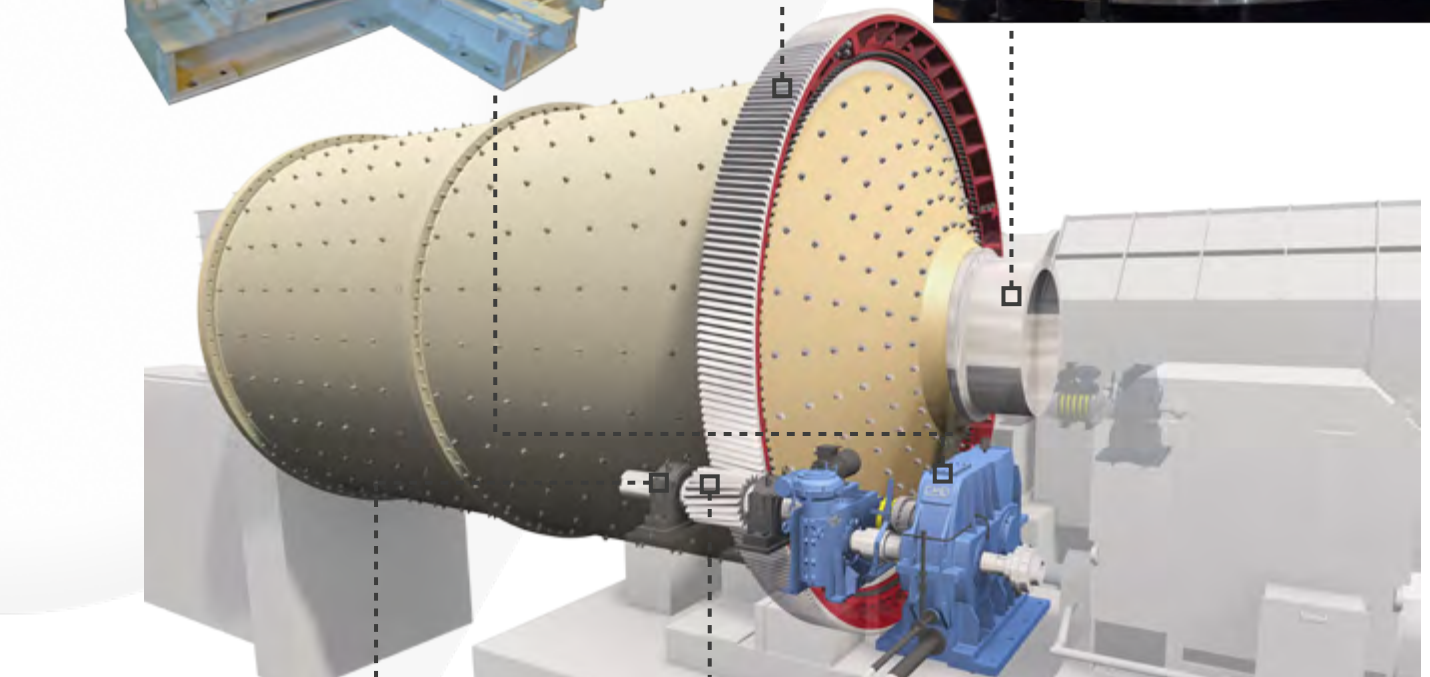
Girth gears



ERmaster® parallel-shaft reducers



Mill Heads



White metal bearings



Pinions



Riding ring fitted on kiln shell

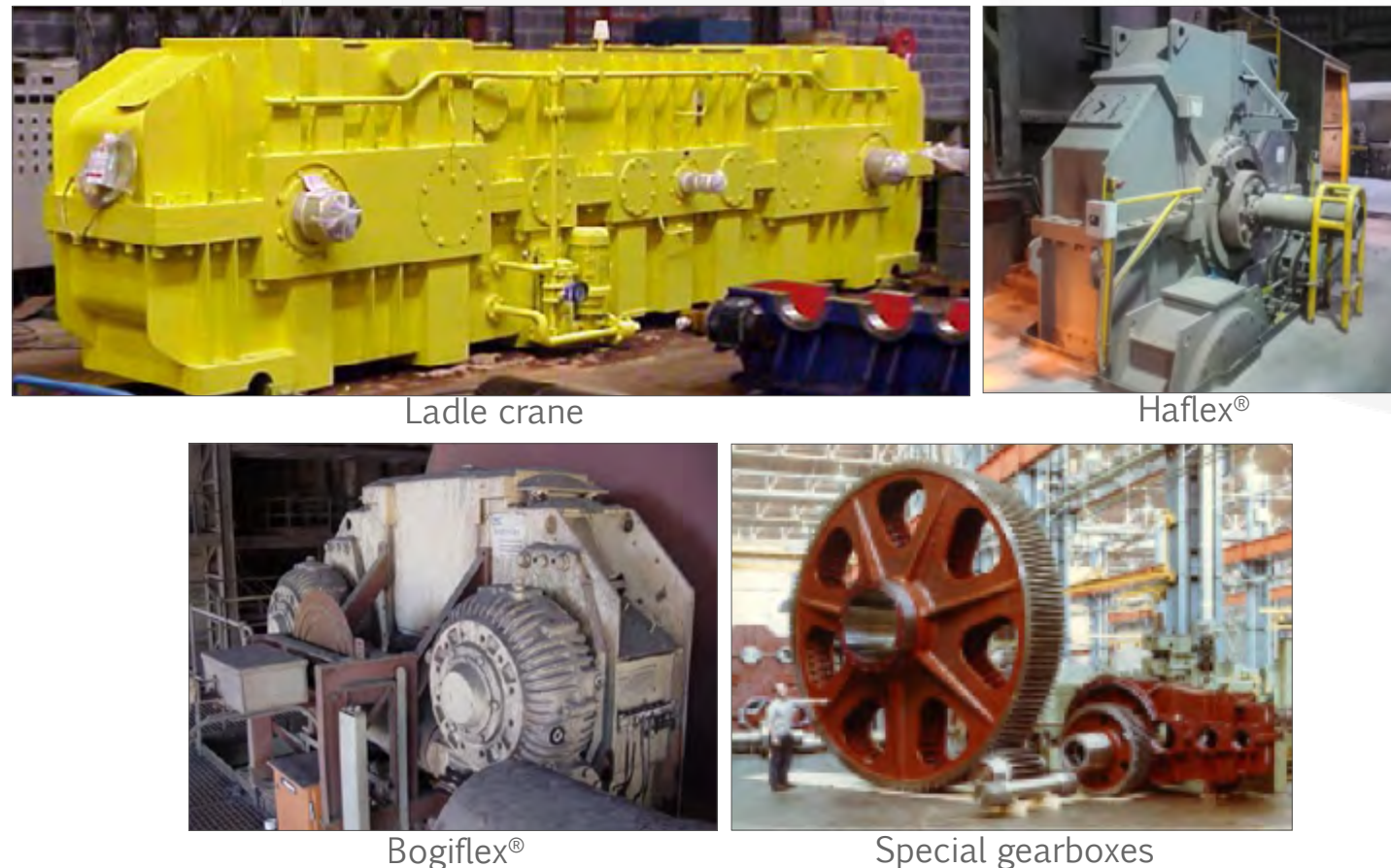


STEEL MAKING & CONTINUOUS CASTING

TUNDISH CAR AND MOULD ADJUSTMENT



CONVERTER TILTING AND TAPPING



IRON MAKING



Furnace Bell Hardfacing

Bogiflex® Gearbox for Torpedo Cars

Liners



HOT ROLLING

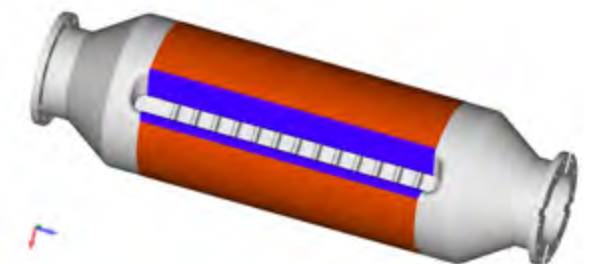
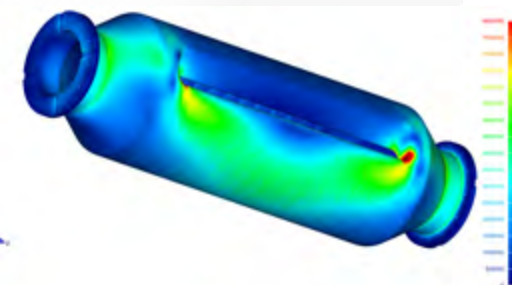
STECKEL MILLS

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, through 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.



Welding of casing parts



Casing assembly



Machining of casing on
CNC boring machine



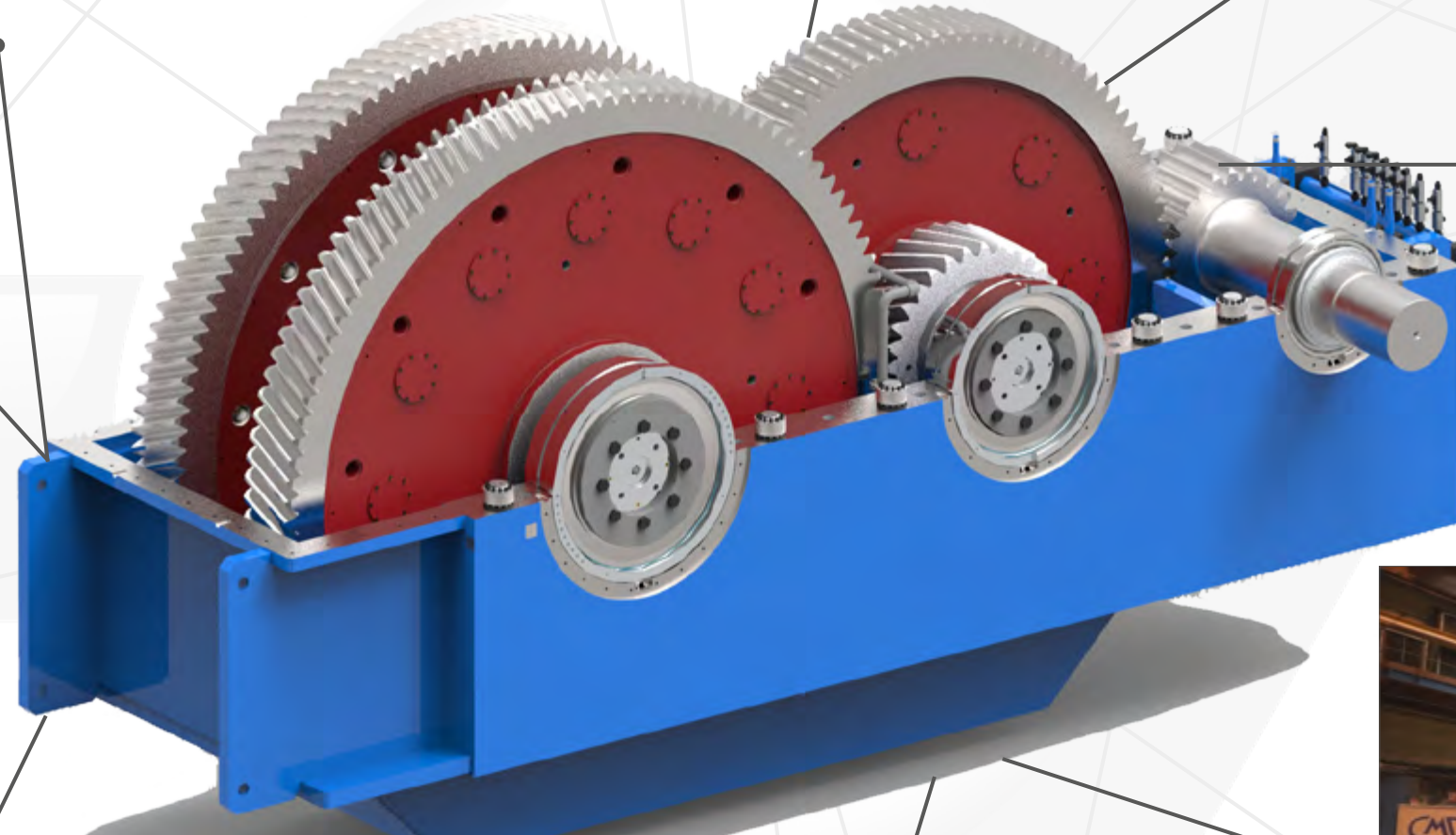
Fabricated gear wheel on VBM



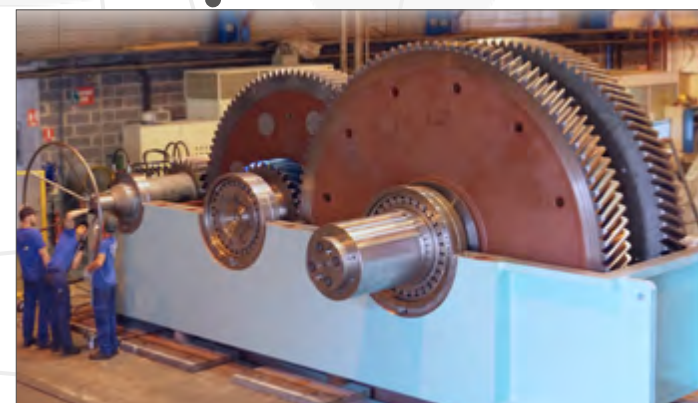
Gear wheel on CNC center



Pinion on gear grinder



Assembly



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

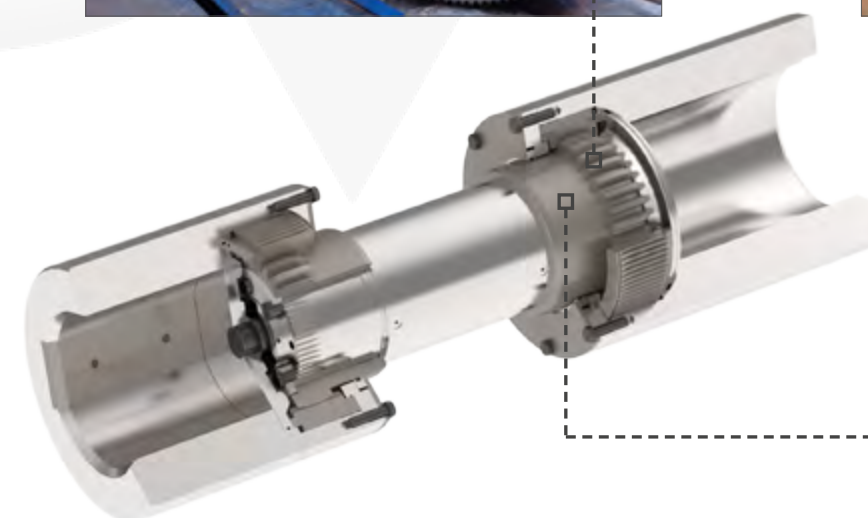


Coiler drive

REFURBISHING OF ROLL CHOCKS



SPINDLES AND GEAR COUPLINGS

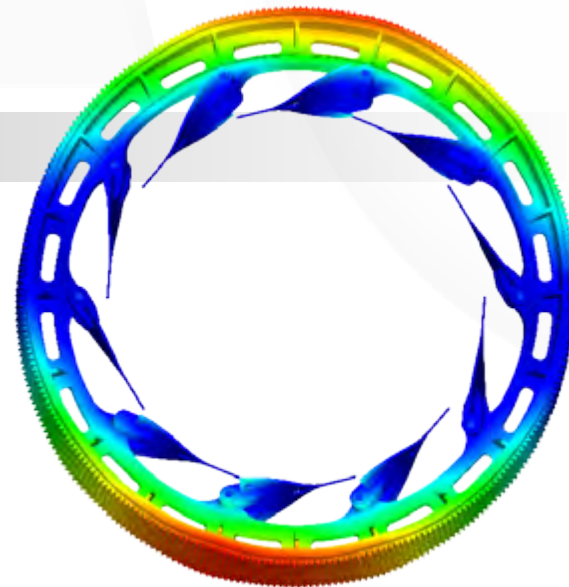


OUR ADDED VALUE

R&D - ENGINEERING

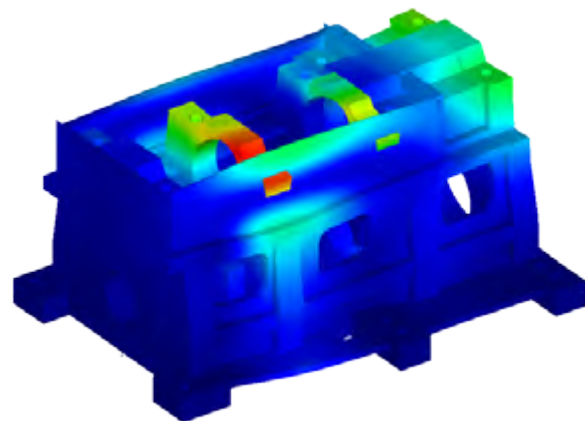


- Finite Element Analysis (FEA)
- Solidification and Flow Simulation Modeling
- Mechanical drive train design (open and enclosed gearing)
- Development of custom mechanical couplings
- Re-design of fabrications to castings (SG Iron or cast steel)
- Technical staff of approx. 100 engineers/technicians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