

SUGAR INDUSTRY

>> One Single Partner for all Your Needs <<

SUGAR PROCESSING



SUGAR BEET DIFFUSION

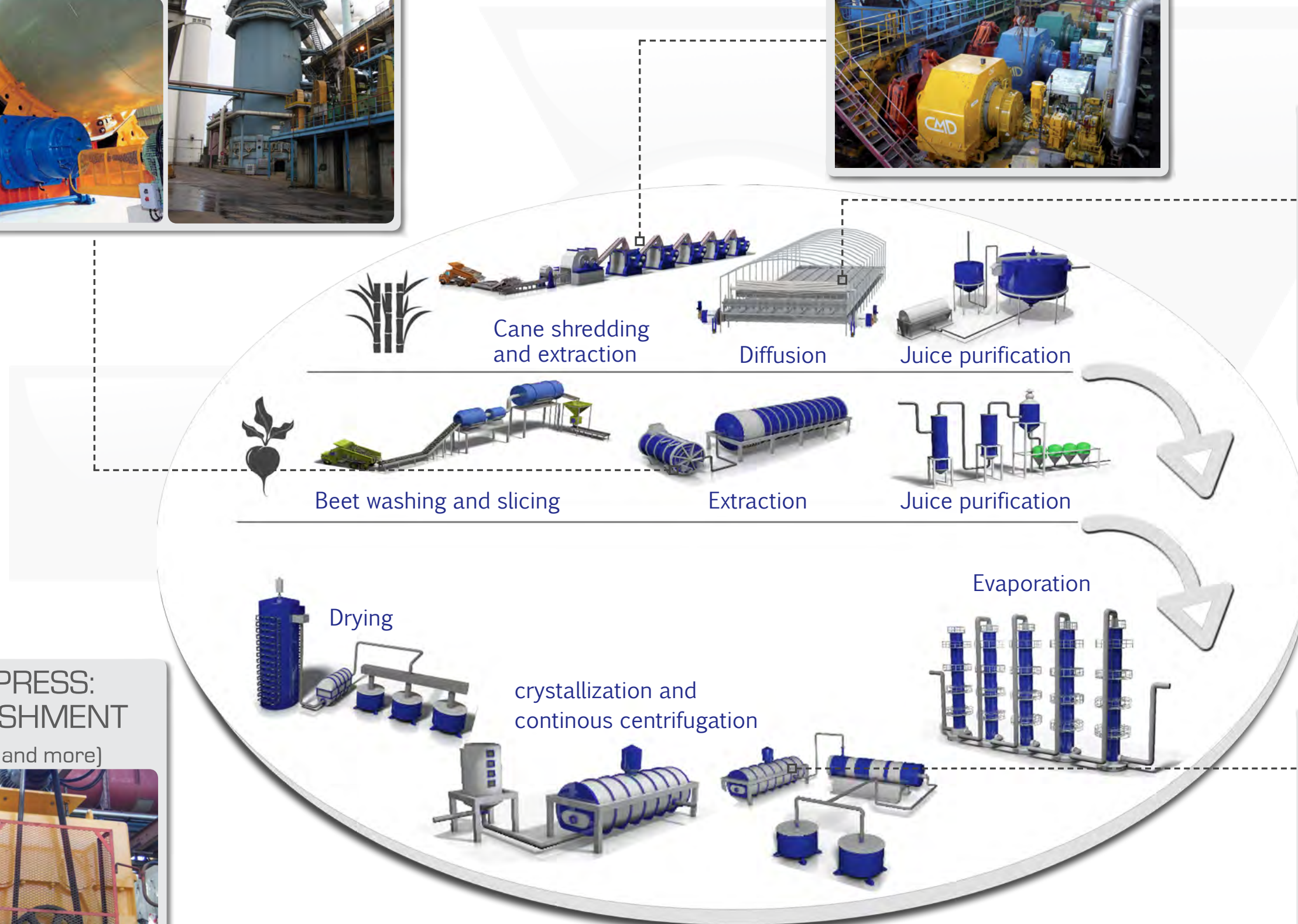
(horizontal or vertical)



SUGAR CANE SHREDDING & MILLING



SUGAR CANE DIFFUSION



PULP PRESS: REFURBISHMENT

(> 50 tons and more)



CRYSTALLIZATION



SUGAR CANE SHREDDING & MILLING

1 mission, several solutions!

Today CMD has got ready the largest sugarcane mill drive gearbox available for the future extra large mills of 60" x 120" size.



CANeflex®

CANEmaster®

ERsun®

CANeflex®



Output torque capacity range:
 $T_{2N} = 2800 - 7600 \text{ kNm}$

CANEmaster®



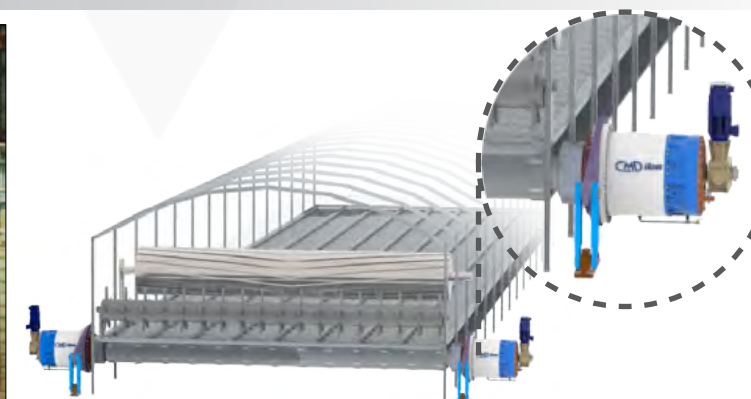
Output torque capacity range:
 $T_{2N} = 2400 - 6400 \text{ kNm}$

ERsun®



Output torque capacity range:
 $T_{2N} = 130 - 3900 \text{ kNm}$

HORIZONTAL DIFFUSION



Bogiflex® gearbox

Output torque capacity range:
 $T_{2N} < 6000 \text{ kNm}$

ERsun® gearbox

Output torque capacity range:
 $T_{2N} < 3900 \text{ kNm}$

HORIZONTAL DIFFUSION & DRYING



Bogiflex® gearbox



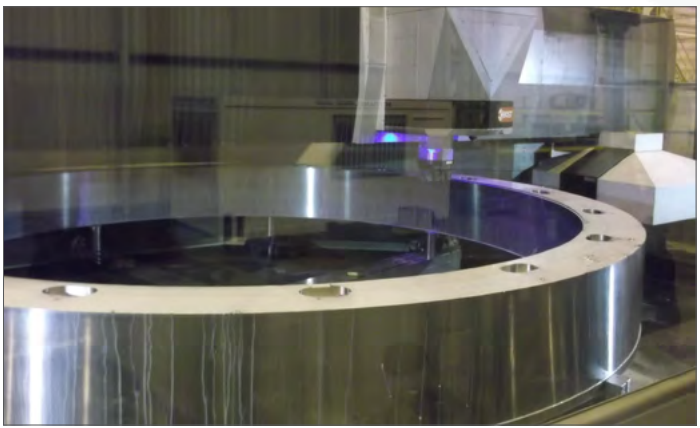
Bearings & Shafted support roller



Gears up to Ø16M



Riding ring fitted on diffuser shell



Support rings (cast steel or ductile iron)

Bogiflex® gearbox for horizontal diffuser drive or dryers



VERTICAL DIFFUSION



ERsun® planetary gearbox

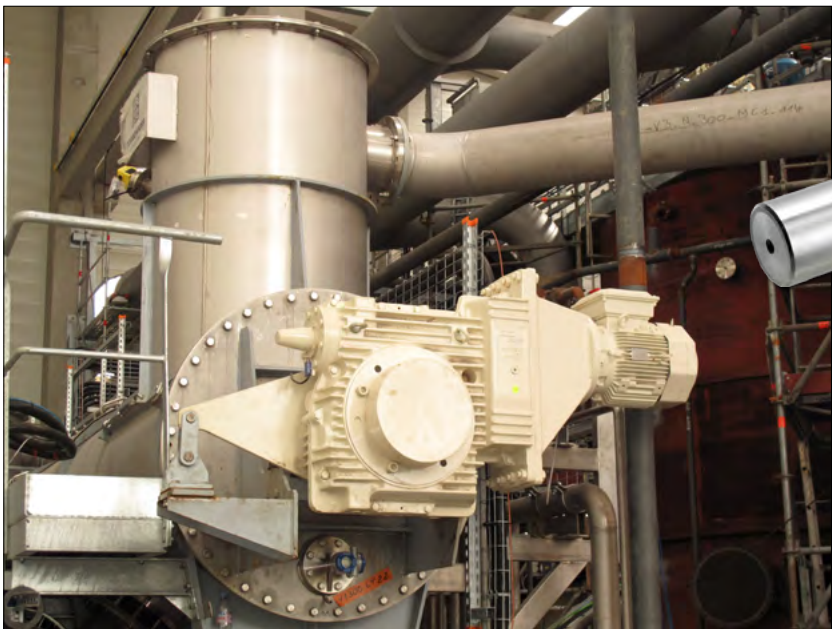


Vertical diffuser upper part shell



CRYSTALLIZATION

Worm gearboxes for mixer and crystalliser



Jumboflex® worm gearbox



SUGARCANE MILL DRIVE COUPLINGS



Input coupling



Output coupling



Flexident Senior®

Torque Measurement : OPTION CM

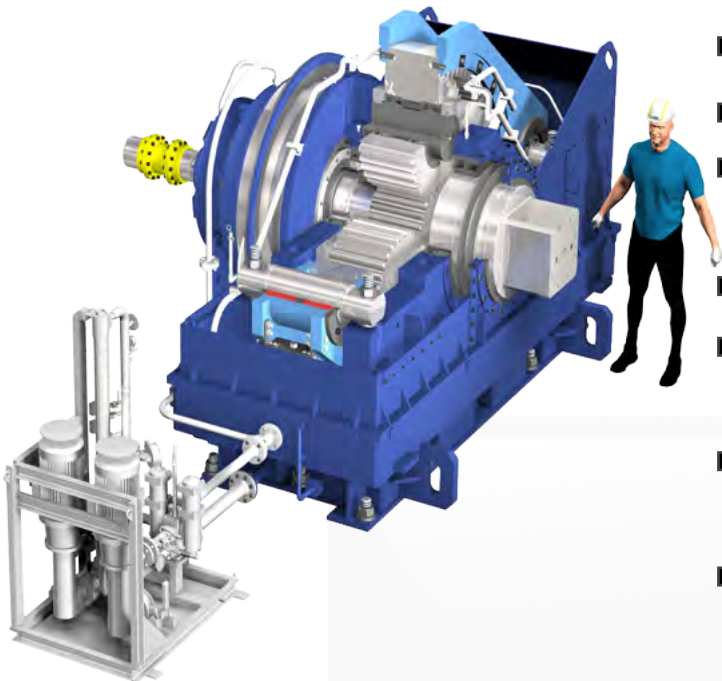
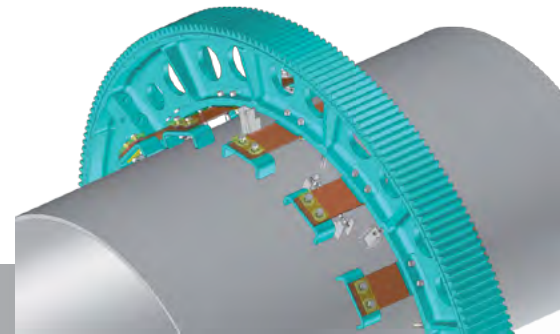
SHREDDER & KNIVES CUTTER

Single stage reducer
ERmaster®



OUR ADDED VALUE

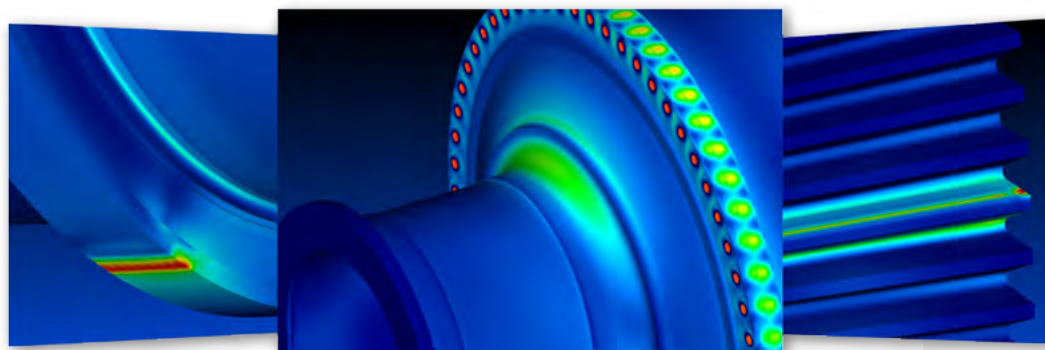
R&D - ENGINEERING



- Finite Element Analysis (FEA)
- Solidification and Flow Simulation Modeling
- Mechanical drive train design (open and enclosed gearing)
- Development of custom mechanical couplings
- Conversion of fabrications to castings (iron or 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 the world over 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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February 2017



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