



CEMENT MILLS

CEMTEC – your partner for success.

CEMTEC operates on the basis of individual responsibility. Every member of our team has the right to make high-level decisions. The entire responsibility for a project – from planning to commissioning – rests with a single person. This means that you have the same, competent contact partner for all your queries, wishes and suggestions, without exception. In addition to standard orders, your individual requirements are also fulfilled rapidly and without complications.



CEMTEC HEADQUARTERS IN ENNS AUSTRIA

CEMTEC manages projects throughout the world for the cement and processing industry.

CEMTEC manages every project from start to finish. From planning to commissioning. Our product spectrum includes tube mills for grinding a wide range of bulk materials and minerals, as well as rotating drums for thermal treatment (calcination, drying, cooling) and mechanical processing (mixing, washing, conditioning, etc.) of different bulk materials. We also offer erection supervision, commissioning and technical support. Successful projects all over the world attest to the competence of CEMTEC.

CEMTEC MILLS



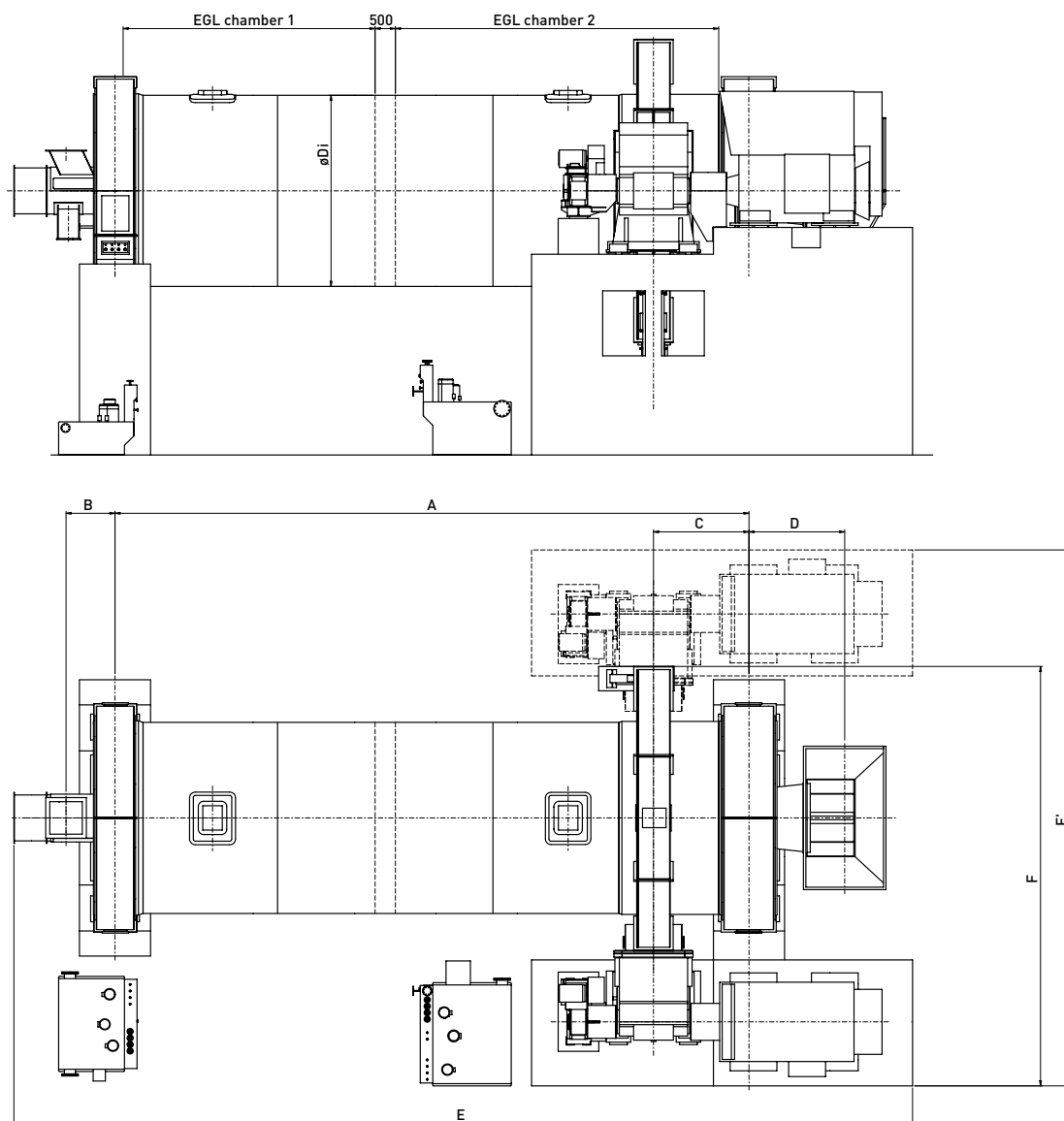
CEMTEC cement mills for every requirement.

Two-chamber ball mills for the cement industry are available in different designs. The bearings can be either trunnion bearings or slide shoe bearings. The drive can be configured as a girth gear and pinion, lateral or central drive. If the process material is moist, cement mills can also be configured with a drying chamber. The drying chamber can be either integrated in the mill or flange-mounted. The mill shell can be configured equally easily in one piece or (for transport reasons) in several pieces.

STANDARD SIZES AND DIMENSIONS

| SHELL INSIDE DIAMETER [m] | EFFECTIVE GRINDING LENGTH - EGL [m] | DIMENSIONS [mm] | | | | | | | INSTALLED DRIVE POWER [kW] |
|---------------------------------|--|-----------------|-------|-------|-------|--------|--------|--------|-------------------------------------|
| | | A | B | C | D | E | F | F' | |
| 3.60 | 10.00 | 11,315 | 925 | 1,835 | 1,785 | 15,500 | 8,700 | - | 2,000 |
| 3.80 | 12.25 | 13,580 | 950 | 1,790 | 1,850 | 18,500 | 8,900 | - | 2,500 |
| 4.00 | 13.25 | 14,590 | 1,000 | 1,890 | 2,000 | 20,700 | 9,550 | - | 3,300 |
| 4.20 | 13.50 | 14,830 | 1,200 | 2,120 | 2,300 | 21,000 | 9,750 | - | 3,800 |
| 4.40 | 14.00 | 15,350 | 1,200 | 2,120 | 2,300 | 21,500 | 10,000 | - | 4,400 |
| 4.60 | 14.25 | 15,600 | 1,200 | 2,350 | 2,350 | 21,950 | 10,350 | - | 4,700 |
| 4.80 | 15.00 | 16,350 | 1,200 | 2,350 | 2,350 | 22,500 | 10,550 | - | 5,700 |
| 5.00 | 15.50 | 16,850 | 1,200 | 2,350 | 2,500 | 22,750 | 10,600 | - | 6,500 |
| 5.20 | 16.00 | 17,360 | 1,215 | 2,350 | 2,515 | 23,550 | - | 13,400 | 8,000 |

Note: additional sizes on request



SPECIFIC POWER CONSUMPTION vs CEMENT TYPES

| CEMENT TYPE | SPECIFIC POWER CONSUMPTION [kWh/t] | FINENESS | MIX |
|-----------------|--|-----------------------------|---------------------------------------|
| | | [cm ² /g Blaine] | |
| CEM I 32.5 N | 28-34 | 2,800-3,300 | 95% clinker, 5% gypsum |
| CEM I 42.5 N | 33-42 | 3,200-4,000 | 95% clinker, 5% gypsum |
| CEM I 52.5 R | 50-56 | 4,500-5,000 | 95% clinker, 5% gypsum |
| CEM II 42.5 A/L | 32-36 | 3,500-4,000 | 85% clinker, 5% gypsum, 10% limestone |
| CEM III 42.5 B | 50-69 | 4,000-4,500 | 65% slag, 30% clinker, 5% gypsum |
| SLAG | 60-70 | 4,500 | 100% slag |

These values refer to power consumption on main motor. They are average values of existing applications and can be different, depending on available raw materials.

LARGEST CEMENT MILL IN EUROPE MADE BY CEMTEC

Mill size: \varnothing 5.2 x 16.75 m

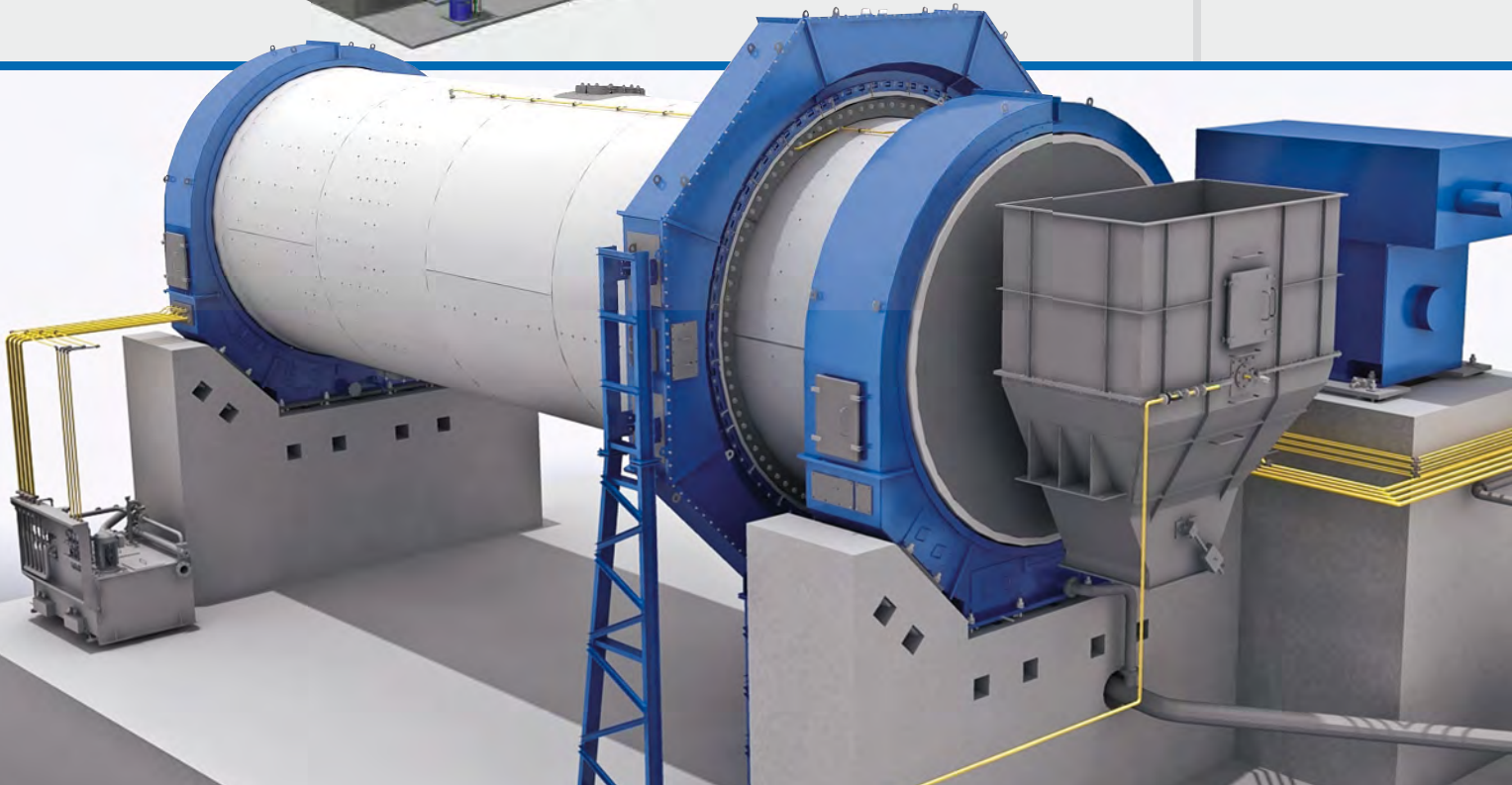
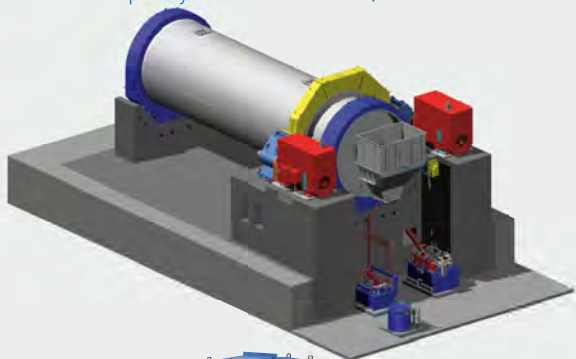
Year of construction: 2010

Location: Poland

Installed main motor capacity: 8,400 kW (2 x 4,200 kW)

Capacity: 200 tph

Absorbed capacity at motor shaft: 7,450 kW



MILL DESIGN

Our cement grinding mills are also available in other designs and with different features.

**MILL SUPPORT**

Design of cement grinding mill with hydrodynamic pad bearings. We also offer mills with traditional hydrodynamic trunnion bearings on request.

**MILL DRIVE**

Direct mesh gear for the drives of large cement mills with enclosed girth gear. This type of drive features self-aligning pinions for optimum power transmission.



Traditional pinion/girth gear drive with grease spray lubrication.



PRE-DRYING CHAMBER

Depending on the fresh feed humidity, the cement mill can be equipped with a pre-drying chamber.



HOT GAS GENERATOR

To provide the required hot gas volume for drying, CEMTEC supplies hot gas generators. These hot gas generators can be delivered with capacities of between 0.5 and 15 MW.



TURN-KEY GRINDING PLANTS

CEMTEC also supplies complete grinding plants, including civil engineering work, steel structure, equipment,... as per your requirements.



WORLDWIDE

CEMTEC & MINING TECHNOLOGY WORLDWIDE

www.cemtec.at



EACH PROJECT STARTS
IN OUR **PILOT PLANT!**



Cement & Mining Technology

HEADQUARTERS



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