

Industrial Solutions

QUADROPOL[®] QMK²

The high-performance
roller mill for coal, anthra-
cite and petroleum coke



thyssenkrupp



Always in motion for your success!

Our scope extends from single machines to comprehensive plant concepts. Around the globe, thyssenkrupp Industrial Solutions is a strong partner of the cement industry and one of the few full-range suppliers of turnkey cement plants.

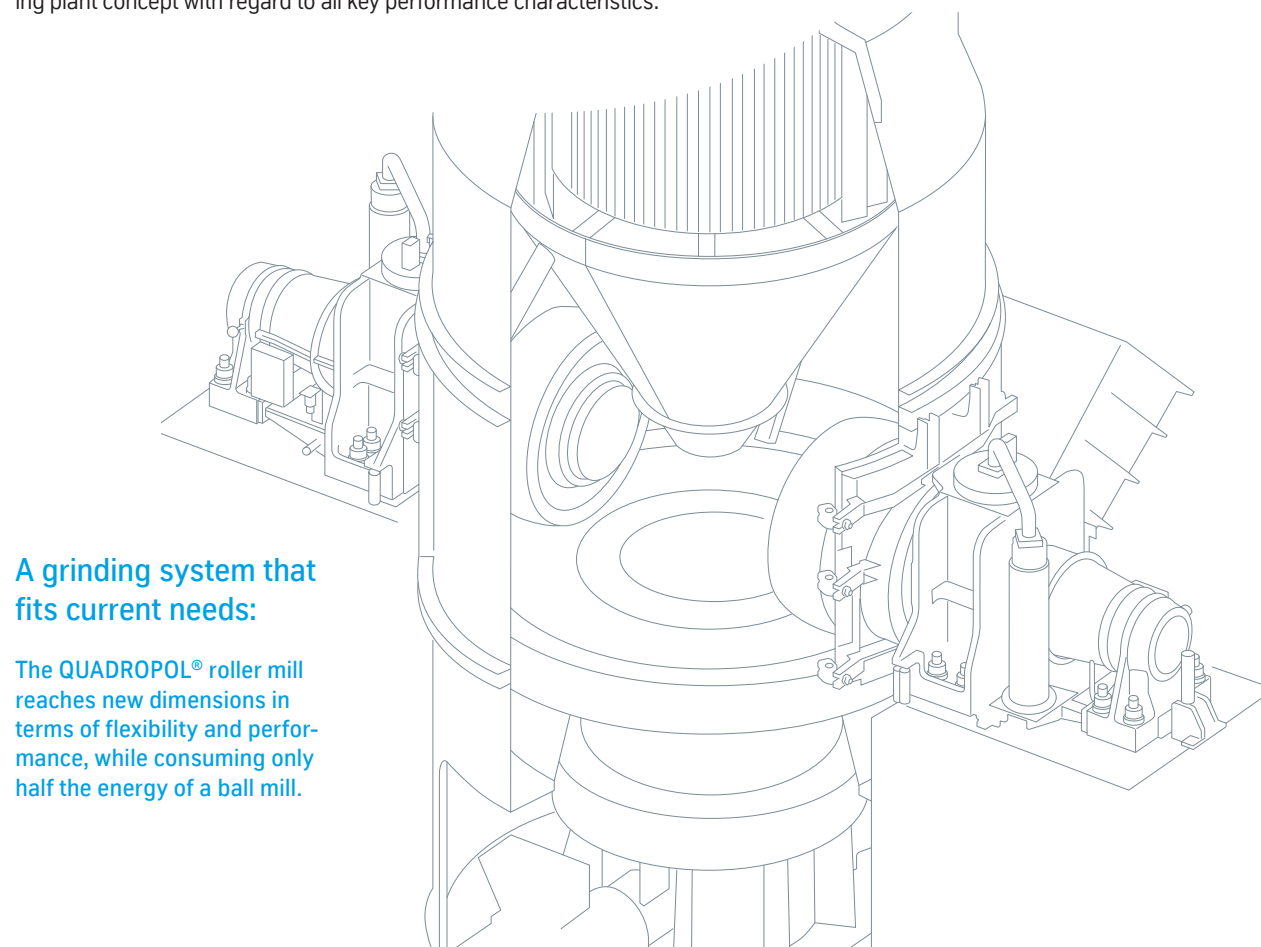
When we design our machines and plants, we are consistently orientated towards the needs of our customers. Currently, our work is primarily focused on answering the call for significant increases of capacity to 10,000 tpd of clinker while at the same time reducing energy consumption.

Here, the grinding system plays a key role. Demanding customers all over the world rely on our QUADROPOL® mill concept: The ultramodern roller mill combines high performance, reliability and low energy consumption.

The QUADROPOL® mill is now in its second generation. The QMK² mill for coal, anthracite and petroleum coke offers outstanding features in terms of capacity and efficiency, and a ground-breaking plant concept with regard to all key performance characteristics:

- High running smoothness – low vibration levels
- Optimised dynamic loads – small moving masses
- Outstanding accessibility for maintenance work
- Modest civil engineering requirements
- Highest safety standards (ATEX)

Thanks to a modular system, mill sizes are available to satisfy all requirements with regard to capacity and throughput. Usually, the QUADROPOL® QMK² is equipped with two rollers and one hot gas inlet; however, depending on the throughput and the required hot gas volumes, solutions with three or four rollers, as well as two hot gas inlets, can be implemented.



A grinding system that fits current needs:

The QUADROPOL® roller mill reaches new dimensions in terms of flexibility and performance, while consuming only half the energy of a ball mill.

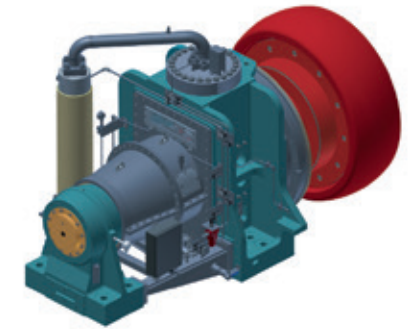
Custom-tailored to your requirements

After a detailed analysis, we submit to our customers our proposals for individual plant concepts and interconnected systems.

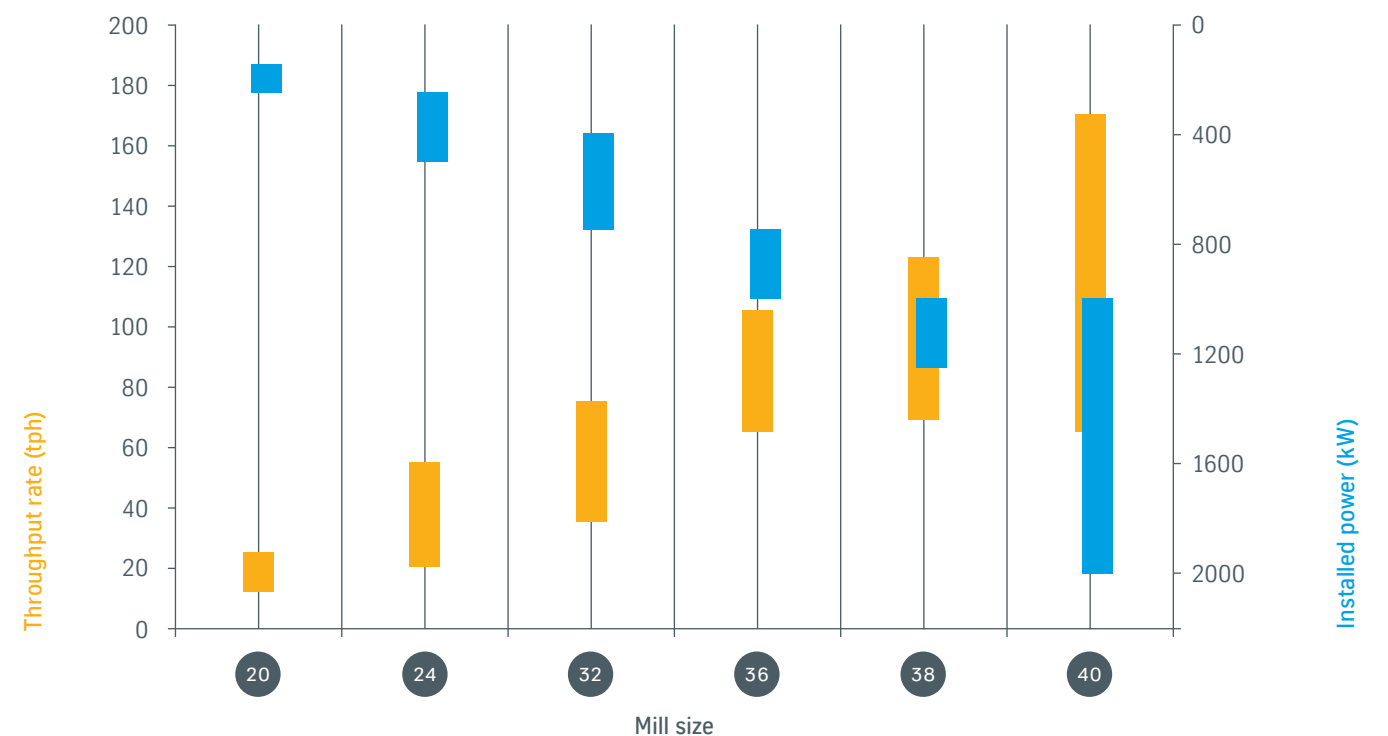
The aim is always to devise the most cost-conscious solution for steel and civil structures. Depending on the customer's requirements and the country of installation, closed buildings can be erected without limiting accessibility.

Usually, the roller units and other components are mounted or dismantled with the aid of a truck-mounted crane. When designing a plant, we always bear in mind optimal accessibility for maintenance work, as well as the appropriate compactness of the overall plant.

If the space available is limited (as in the case of a plant extension), a ring craneway may be installed. It can be used to hoist the roller units from the mill, move them away easily and set them down on the ground, for maintenance purposes.



QMK² coal grinding



Industrial Solutions
Resource Technologies

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