

Ball mill trunnion replacement

Drawing on years of experience and process knowledge, our trunnion replacement service combines our state-of-the-art trunnion design, high-quality parts and expert onsite installation teams to ensure reliable mill operation.

- Suitable for both FLSmidth and non-FLSmidth mills
- Reduces stress concentrations, minimising the risk of cracks
- Highest standard of quality - manufactured by a limited number of qualified foundries
- Short-term on-site repair available to keep your mill operating until permanent repair can be made
- Expert supervision and installation services
- Certified fitters and welding technicians

The best a ball mill can get

FLSmidth has installed almost 4000 ball mills at locations worldwide – which has given us a unique insight into the stresses and strains arising out of ball mill operations. The large alternating stresses placed on ball mill trunnions and heads are a great example. However a trunnion is designed to last for ever, these stresses always bring the risk of cracks developing.

Keeping the mill turning

Cracks in a trunnion will bring production to a standstill. When cracking is detected, it's therefore vital to have a partner that understands the issues and can respond quickly, with only the highest-quality service. Which is why you turn to FLSmidth.

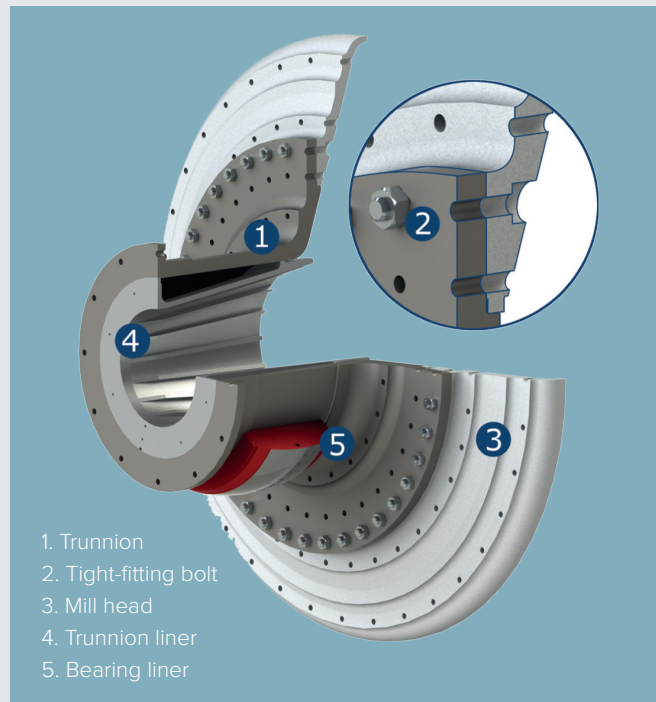
We know the most important thing is keeping the mill turning. So, we'll first offer a provisional onsite repair to keep the trunnion operating. But any repair must always be considered a temporary solution, as new cracks will almost certainly develop. The repair may also cause deformations that could lead to bearing failure.

We therefore strongly recommend that a new trunnion is installed as soon as possible. And here, again, we've got you covered. Our approach is simple: only the best will do.

Only the best will do...

Take the trunnion design. Drawing on years of knowledge and experience, our trunnion optimally balances strength and weight to best avoid the stress concentrations that cause cracking and failure. We've also improved the tight-fitting joint to further reduce stress. All in a trunnion that can be installed in both our own mills, as well as those of other manufacturers.

Then there's the trunnion itself. For such a critical component, only the highest-quality materials and manufacturing procedures will do. Low cost, low quality, is just not an option – not unless you want to replace your trunnions again... and again. We only use a small number of highly-skilled foundries to manufacture our trunnions, ensuring the highest quality standards.



1. Trunnion
2. Tight-fitting bolt
3. Mill head
4. Trunnion liner
5. Bearing liner

Scope of supply

- Trunnion
- Tight-fitting bolts
- Tools for drilling and reaming
- Trunnion liner
- Bearing bottom liner
- Installation manuals and assembly drawing

... that goes for installation too

All this is nothing, however, if the installation is not right. Our onsite supervision and installation services are provided by our teams of experienced supervisors, certified fitters and welding technicians to make sure replacement goes smoothly, including all of the necessary tools and equipment. We also recommend replacing the bearing and trunnion liners at the same time – both of which can be included in our scope of supply.

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