



FLENDER SERVICE

SPARE PART PACKAGES FOR MECHANICAL DRIVE TECHNOLOGY.

Tailored solutions for DMGH and DMG2 tube mill drives
as well as KMP, KMPS, KMPP and KM2P vertical mill drives.

THE AVAILABILITY OF YOUR PLANTS IS OUR CHALLENGE.

Transport equipment and production facilities like tube and vertical roller mills, whether used in the extraction of raw materials or in their processing and subsequent treatment, must operate reliably, day in and day out. With as little downtime as possible. This is the only way industrial enterprises can work cost-effectively while also meeting their commitments. That's why Flender offers tailored spare part packages for DMGH and DMG2 tube mill drives as well as for KMP, KMPS, KMPP and KM2P vertical mill drives.

Challenges in the cement and minerals industries

The cement and minerals industries are characterized by fierce competition. Drive technology from Flender stands out due to its excellent quality and durability. After all, mechanical drives are key components in the production process.

This places high demands on the operator in terms of output quantity and efficient use of available capacities. Enormous stress and harsh ambient conditions affect even the best technology. The result is an increasing demand over time for rapid, competitive availability of spare parts for relevant drive and coupling components.

Tailored spare part packages for tube mill and vertical roller mill drives

Flender ensures delivery of essential spare parts globally as part of its service activities. If necessary, the requisite spare parts are made according to customer- and plant-specific requirements. This fundamentally ensures local availability at short notice if an unplanned need for spare parts arises. Tailored spare part packages are an important tool that enables rapid response to your requirements and optimal fulfillment of your needs.



SPARE PART PACKAGES WITH ATTRACTIVE BENEFITS.

Keeping spare part packages from Flender in stock offers a wide range of benefits, from greater cost-effectiveness and shorter repair deployments to secured productivity and business continuity. This not only manifests itself in higher plant efficiency, but also helps give customers a competitive edge.

Higher plant availability

The cost of gear unit failures can be reduced through the timely ordering of spare part packages from Flender. Because the spare parts are thus already on-site and do not have to first be ordered, the downtime is also reduced. This increases the availability of the drive units and of the entire plant for production. It pays off particularly for plants in remote locations or difficult-to-access regions.

Lower total operating costs

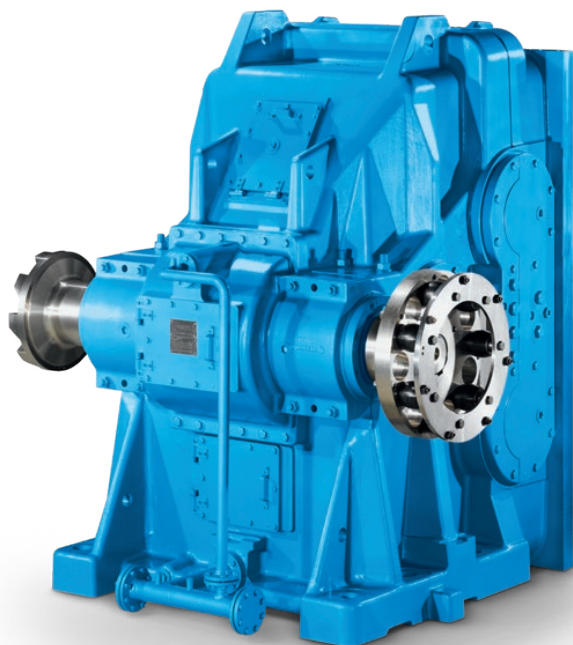
The spare part packages help minimize the costs of breakdowns as they enable quick repair. At the same time, the shortened standstill reduces productivity and manpower deployment losses, because there is no need to wait for a replacement to arrive. This also reduces risks such as losing customers because delivery deadlines are not met, having to pay contract penalties or being unable to accept orders.

Better cost efficiency

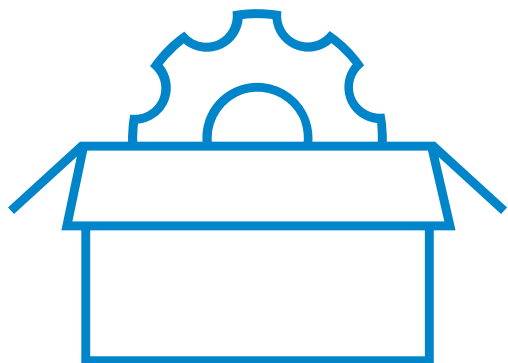
Stocking up on the appropriate spare part packages reduces costs not only in the event of a breakdown, thanks to minimized downtime. It also saves money at the time the spare parts are procured since the packages offer particularly attractive pricing. Ordering the spare parts as a package rather than each of the components included in a package separately is more cost-effective.

Proven Flender quality

With the spare part packages, operators have immediate access to original spare parts in proven Flender quality, whenever needed. These spare parts are optimally coordinated with the respective application and ensure the perfect interaction of all components. This results in longer product service life, which guarantees sustainable resource use.



JUST A FEW STEPS TO THE RIGHT SPARE PART PACKAGE FOR YOU.



No matter if it's a damaged bearing or a defective drive shaft – Flender offers suitable spare part packages for all applications in the cement and minerals industries. Each replacement package order is based on an analysis of the condition of your respective drive. The parts and quantity needed can therefore immediately be determined and the right package can be selected.

Please send us the following information for analysis so we can determine the right spare part package:

- ① Information regarding your drive and gear unit
- ② Serial number of the gear unit
- ③ Required spare parts (product code)
- ④ Location of the gear unit (country)

Please send this information by email to **cs-md-service.industry@flender.com** or use the online contact form at **flender.com/en/add-ticket**. Then we can quickly put a tailored spare part package together for you.



Contact via email



Contact via website



FOR DMGH AND DMG2 TUBE MILL DRIVES.

Spare part packages – DMGH tube mill drives		Size 18	Size 22	Size 25,4
Assembly group: input shaft	2LP8150-	1AA10-0AA0	1AB10-0AA0	1AC10-0AA0
Assembly group: intermediate shaft		1AA30-0AA0	1AB30-0AA0	1AC30-0AA0
Assembly group: upper output shaft		1AA20-0AA0	1AB20-0AA0	1AC20-0AA0
Assembly group: lower output shaft		1AA21-0AA0	1AB21-0AA0	1AC21-0AA0
Bearing set for input shaft, version 1*	2LP8150-	1AA15-0AA0	1AB15-0AA0	1AC15-0AA0
Bearing set for input shaft, version 2*		1AA16-0AA0	1AB16-0AA0	1AC16-0AA0
Bearing set for intermediate shaft		1AA35-0AA0	1AB35-0AA0	1AC35-0AA0
Bearing set for upper output shaft		1AA25-0AA0	1AB25-0AA0	1AC25-0AA0
Bearing set for lower output shaft		1AA26-0AA0	1AB26-0AA0	1AC26-0AA0
Gasket seal set	2LP8150-	1AA13-0AA0	1AB13-0AA0	1AC13-0AA0

* Depending on the design of the input shaft bearings.

Spare part packages – DMG2 tube mill drives		Size 18	Size 22	Size 25,4
Assembly group: input shaft	2LP8150-	3AA10-0AA0	3AB10-0AA0	3AC10-0AA0
Assembly group: intermediate shaft		3AA30-0AA0	3AB30-0AA0	3AC30-0AA0
Assembly group: upper output shaft		3AA20-0AA0	3AB20-0AA0	3AC20-0AA0
Assembly group: lower output shaft		3AA21-0AA0	3AB21-0AA0	3AC21-0AA0
Bearing set for input shaft	2LP8150-	3AA15-0AA0	3AB15-0AA0	3AC15-0AA0
Bearing set for intermediate shaft		3AA35-0AA0	3AB35-0AA0	3AC35-0AA0
Bearing set for upper output shaft		3AA25-0AA0	3AB25-0AA0	3AC25-0AA0
Bearing set for lower output shaft		3AA26-0AA0	3AB26-0AA0	3AC26-0AA0
Gasket seal set	2LP8150-	3AA13-0AA0	3AB13-0AA0	3AC13-0AA0

The following applies for all orders: To order a spare part package, simply indicate the corresponding product code. This consists of the number "2LP8150-" or "2LP8160-" and the number for the specific size.

Example: The product code for the DMG2 assembly group intermediate shaft for size 22 is 2LP8150-3AB30-0AA0.

The product code for the KM2P assembly group for bevel gear stage for size 532 is 2LP8160-7AA16.

Reduction of downtime:
Keeping spare parts pack-
ages in stock increases
the operational ability.



FOR KMP, KMPS, KMPP AND KM2P VERTICAL MILL DRIVES.

Spare part packages – KMP vertical mill drives		Size 225	Size 250	Size 280	Size 300	Size 320	Size 340	Size 360	Size 380	Size 400	Size 425	Size 450
Assembly group: bevel gear stage	2LP8160-	2AC10	2AD10	2AE10	2AF10	2AH10	2AK10	2AM10	2AP10	2AR10	2AS10	2AU10
Roller bearing set for bevel gear stage	2LP8160-	2AC11	2AD11	2AE11	2AF11	2AH11	2AK11	2AM11	2AP11	2AR11	2AS11	2AU11
Roller bearing set		2AC15	2AD15	2AE15	2AF15	2AH15	2AK15	2AM15	2AP15	2AR15	2AS15	2AU15
Thrust slide bearing set		2AC13	2AD13	2AE13	2AF13	2AH13	2AK13	2AM13	2AP13	2AR13	2AS13	2AU13
Gasket seal set	2LP8160-	2AC12	2AD12	2AE12	2AF12	2AH12	2AK12	2AM12	2AP12	2AR12	2AS12	2AU12

Spare part packages – KMPS vertical mill drives		Size 376	Size 396	Size 426	Size 446	Size 476	Size 496	Size 526	Size 546	Size 576
Assembly group: bevel gear stage	2LP8160-	5AA10	5AB10	5AC10	5AD10	5AE10	5AF10	5AG10	5AH10	5AJ10
Roller bearing set for bevel gear stage	2LP8160-	5AA11	5AB11	5AC11	5AD11	5AE11	5AF11	5AG11	5AH11	5AJ11
Roller bearing set		5AA15	5AB15	5AC15	5AD15	5AE15	5AF15	5AG15	5AH15	5AJ15
Thrust slide bearing set		5AA13	5AB13	5AC13	5AD13	5AE13	5AF13	5AG13	5AH13	5AJ13
Gasket seal set	2LP8160-	5AA12	5AB12	5AC12	5AD12	5AE12	5AF12	5AG12	5AH12	5AJ12

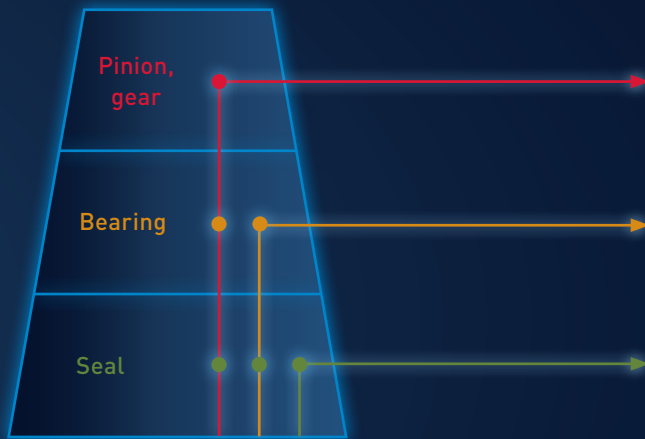
Spare part packages – KMPP vertical mill drives		Size 501	Size 601	Size 651	Size 701	Size 751	Size 751M	Size 801	Size 851	Size 901
Assembly group: bevel gear stage	2LP8160-	3AC10	3AE10	3AA10	3AF10	3AB10	3AK10	3AJ10	3AG10	3AH10
Slide bearing set for bevel gear stage	2LP8160-	3AC16	3AE16	3AA16	3AF16	3AB16	3AK16	3AJ16	3AG16	3AH16
Slide bearing set (excl. thrust slide bearings)		3AC17	3AE17	3AA17	3AF17	3AB17	3AK17	3AJ17	3AG17	3AH17
Thrust slide bearing set (first planetary stage)		3AC14	3AE14	3AA14	3AF14	3AB14	3AK14	3AJ14	3AG14	3AH14
Thrust slide bearing set (output shaft)		3AC13	3AE13	3AA13	3AF13	3AB13	3AK13	3AJ13	3AG13	3AH13
Gasket seal set	2LP8160-	3AC12	3AE12	3AA12	3AF12	3AB12	3AK12	3AJ12	3AG12	3AH12

Spare part packages – KM2P vertical mill drives		Size 482	Size 492	Size 532	Size 542	Size 562	Size 572	Size 592	Size 602	Size 662	Size 672	Size 702	Size 712
Assembly group: bevel gear stage	2LP8160-	7AJ16	7AK16	7AA16	7AB16	7AC16	7AD16	7AE16	7AF16	7AG16	7AH16	7AI16	7AL16
Slide bearing set for bevel gear stage	2LP8160-	7AJ10	7AK10	7AA10	7AB10	7AC10	7AD10	7AE10	7AF10	7AG10	7AH10	7AI10	7AL10
Thrust slide bearing set	2LP8160-	7AJ11	7AK11	7AA11	7AB11	7AC11	7AD11	7AE11	7AF11	7AG11	7AH11	7AI11	7AL11
Gasket seal set	2LP8160-	7AJ15	7AK15	7AA15	7AB15	7AC15	7AD15	7AE15	7AF15	7AG15	7AH15	7AI15	7AL15

THE CRITICAL PARTS IN THE GEAR UNIT.

Some components in tube mill and vertical mill drives are subject to high levels of wear, so they could become critical to plant performance. For this reason, especially these components should be kept under close observation. In case of malfunction and downtime they must be able to be replaced quickly, so it makes sense to have these components in stock. The pyramid below shows which parts could be affected.

FLENDER RECOMMENDATIONS FOR YOUR DRIVES:



If the drive pinion/bevel pinion needs to be replaced, ideally the entire assembly of the driveshaft should be exchanged. In addition, replacement of all of the bearings and seals is recommended.

If a drive bearing needs to be replaced, all of the bearings must be exchanged and changing all of the seals is also recommended.

If a seal needs to be replaced, the entire seal set must be exchanged.





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