



HEAVY DUTY GEARS

Engineering & Development
Design • Manufacturing

Kissling - The Gear Company.
Since 1925

Kissling gears since 1925 Swiss Quality for the Cement Industry

Kissling is a family owned company in the 3rd generation. The Swiss company is among the leaders in gear design and manufacturing. Kissling is an ISO 9001 certified company and stands for highest quality and reliability; being a leading supplier for people transportation equipment (ropeways, roller coasters and cable cars) where highest safety requirements apply.



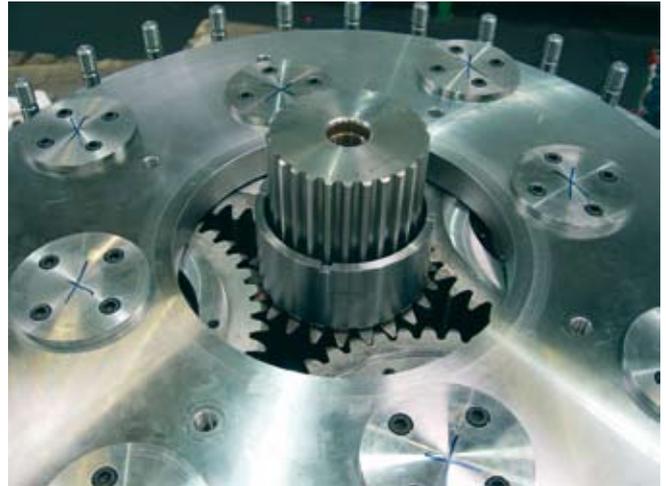
Cement industry

Already in the 1960s all the Swiss cement factories were equipped with Kissling gearboxes. Many of these robust products are still in operation. In due course of globalisation together with several European OEMs the gearboxes were spread around the world. Especially where machines and plants are exposed to extreme operating conditions or where downtimes are extremely costly the customers rely on the robust and thorough design.



Product Range

Over the years Kissling developed into a specialist for epicyclic gears. Today more than 70% of the gearbox business are of the planetary type. A torque range of up to 5,000 kNm is covered with the epicyclic gearboxes. For helical designs the limit is at around 500 kNm.



PS- Helical-planetary gear units for various applications

This design was originally developed for roller crushers in the cement industry. It consists of a double planetary stage and a helical stage on the input. The planetary stages are standard while the speed ratio can be adjusted easily in the helical stage. The same gearbox design is available with triple planetary stages and a bevel input stage. This design was developed for a sugar mill application. The power range of these units go up to 2,000 kW.



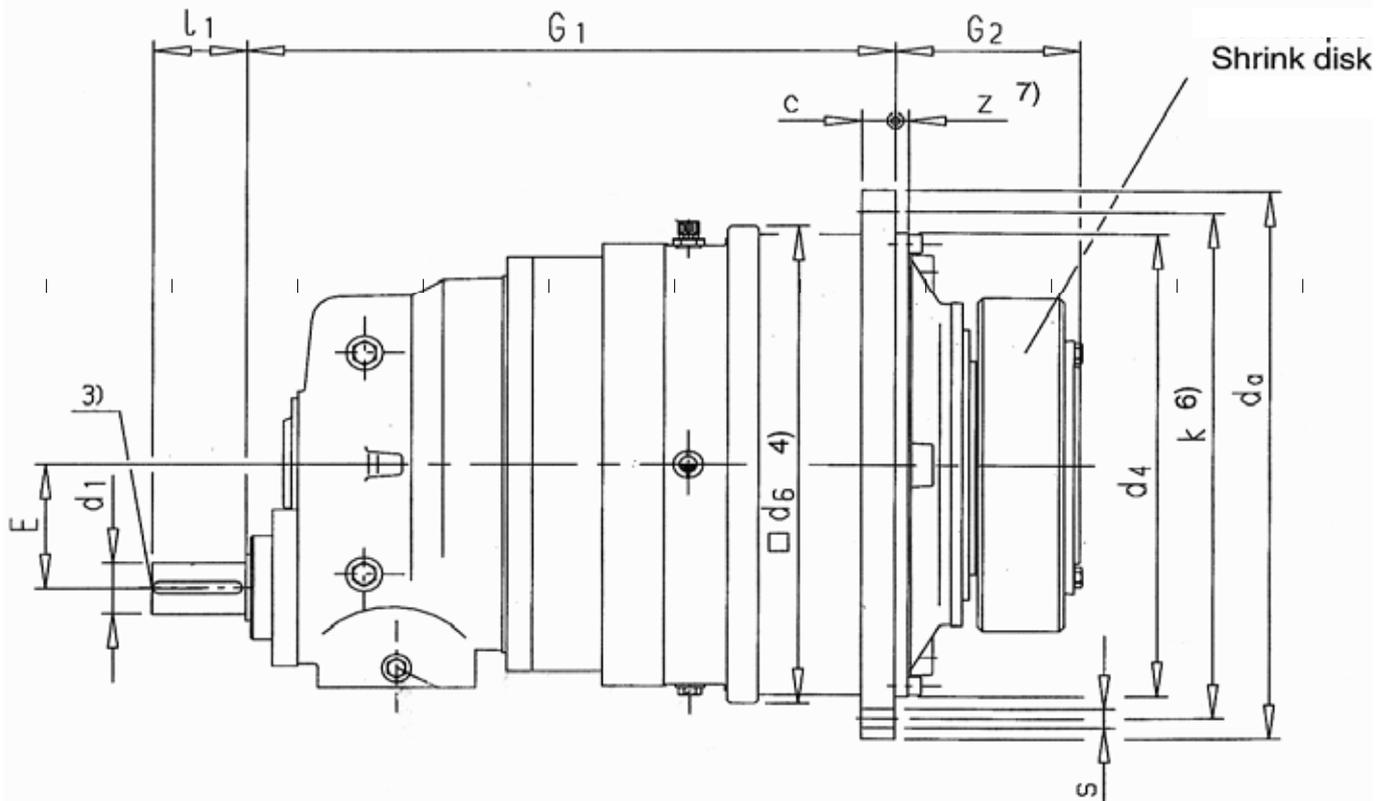
Kissling Planetary Heavy Duty Gear Units

Summary of Design Basic
 Two Planetary Gear Stages
 + 1 Helical Gear Stage

For larger or intermediate units please contact Kissling AG:
 +41 (0) 44 308 97 97

The torque values are valid using oil quality ISO VG320.

Dimension and data sheet (Hollow Shaft)



Type	Nominal output torque	G1	G2	d4	d6	da	k	s	c	z	E	d1	L1	Output Shaft
PS-350	350	1200	316	980	1100	1300	1200	39	50	30	210	100	150	320
PS-810	810	1570	420	1220	1230	1470	1370	32 x 52	85	20	320	110	180	380
PS-1050	1050	1655	445	1350	1330	1570	1470	32 x 52	90	25	360	120	210	400
PS-1230	1230	1655	445	1350	1320	1570	1470	32 x 52	90	25	360	120	210	420
PS-1400	1400	1810	500	1410	1460	1670	1550	32 x 62	100	30	380	130	220	440
PS-2100	2100	2000	570	1650	1700	1960	1840	36 x 62	110	35	400	160	250	480
PS-3100	3100	2300	610	1880	1930	2190	2070	40 x 62	120	40	450	180	280	550
PS-4300	4300	2650	640	2110	2170	2430	2310	48 x 62	130	45				620

Subject to change without notice | Dimensions and data are without obligation

Technical competence ...

Customers in the area of special gearings demand a high degree of technical competence at all levels. At Kissling, qualified engineers availing of many years of experience and sound expertise are not only responsible for sales consulting but also for drawing up offers and handling projects. From the very first contact through to delivery and assembly, the job is supported by a single project engineer who is oriented toward advancing the project at all times as well as being in a position to provide customers with competent information at all times.



... and quality at all levels

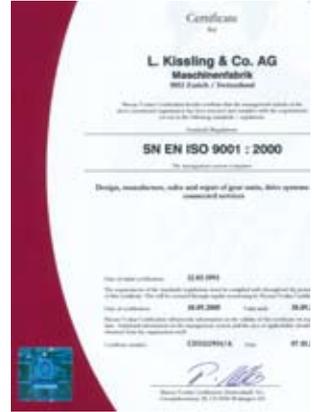
Kissling is a pioneer in the area of gear construction. By means of permanent further development and application of the latest technologies in design, engineering and sub-contracting, the company continually reinforces its leading technological position. After all, quality is no mere buzzword for Kissling – it's a value of benefit which translates into more functional reliability, longer service lives and a better price/performance ratio. But it also means loyalty to deadlines and short delivery periods.

International service

As a competent specialist, Kissling has its own Service Center which comprises all types of services including after sales for every conceivable type of gearing: repairs, inspections and on site, re-engineering, performance enhancement and other modifications, diagnoses and mode analyses using the vibration analysing tool KissCom (Kissling Condition Monitoring).

Certified to ISO 9001:2000

Kissling is certified to the ISO 9001:2000 standard. The quality of gear components is verified in the form of attestations of the materials used and heat treatment as well as by means of protocols.



KissCom vibration diagnostic

The KissCom vibration analysing tool is very well known having successfully established itself on the market many years ago. Kissling has also invested in state-of-the-art measuring equipment for more reliable, accurate and conclusive analyses.



Service Services

Visual Inspections, Vibration analysis, Overhauls on site, Gearbox retrofits: Kissling covers the complete range of service. A well educated team of technicians executes repairs, overhauls and inspections on site together with the operators. They also give advice to customers when operating conditions are changing or a re-design of the drive unit is necessary.

