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	Utfärdad av <b>Kjell Pettersson</b>		Ersätter <b>69.02</b>	Projektnummer		Revision <b>02</b>	Datum <b>2013-05-06</b>
Godkänd av <b>Per-Erik Jönsson</b>		Titel <b>Specification for bearings and vibration monitoring</b>			Språk <b>en</b>	Teknikområde <b>General</b>	
Status <b>Approved</b>		Undertitel <b>Pumps, fans, gearboxes</b>			Anläggningsmärkning/ Objekt		

Beroende till/från annat dokument <b>LKT 1550.540.002</b>	Ersatt av
	Leverantör
Arbetsprocess <b>Planning, design, storage, operation and maintenance</b>	Leverantörens dokumentnummer
Nyckelord <b>Instruction, code of practice</b>	Leverantörens referensbeteckning

### History of document

Revision	Datum	Signatur	Kommentar
01	2007-12-12	MLPRJO	English version
<b>02</b>	2013-05-06	KLKEHU	New logotype
03			
04			
05			

### Translation

This document is a translation from Swedish of LKAB Technical Instruction LKT 1550.540.003. In the event of disagreement concerning the interpretation and content of this text, the Swedish version shall have priority.

### Latest revision

The latest revision of this instruction can be obtained from e-mail address: [tekadm.krn@lkab.com](mailto:tekadm.krn@lkab.com)

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### References

LKT 1550.540.002 Alignment and mounting of rotating units

### Definitions

Not applicable.

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## Background and scope

LKAB strives to follow international standards as much as possible and in our Technical instructions, called LKTs, the company's specific requirements and interpretations of standards are defined. The instructions also express the company's experience as well as give information on LKAB's choice of alternative solutions within standards.

LKAB can also state requirements that are higher than those found in standards. By following this instruction, LKAB's requirements are fulfilled.

### 1. General

The purpose of this instruction is to get roller bearings and ball bearings delivered with specifications concerning mounting, data concerning vibration monitoring (frequency, number of rollers, roller cage, etc) and if service of bearings is available from supplier (service of bearings concerns mainly larger bearings e.g. drive shafts, shafts for mills).

### 2. Suppliers


Suppliers should supply specifications concerning data for vibration monitoring and required service for bearings.

### 3. Mounting

Necessary mounting information to get a satisfactory result, such as recommended bearing slackness, drive-up on sleeve, service intervals and necessary tools. See also LKT 1550.540.002

### 4. Vibration monitoring

To monitor vibration certain data is required to get satisfactory readings; frequencies of the inner ring and outer ring, number of rollers and roller cage, etc. See below.

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## LKAB's requirements, application and interpretation

The supplier should hand over data for vibration monitoring of motors, gearboxes, fans, pumps according to content and arrangement below.

Identity of equipment	
Designation of equipment	

### Motor

Manufacturer:		Type:	
Bearing pulley end (in), manufacturer and type:			
Bearing free end (out), manufacturer and type:			
Coupling:		Type:	
Nominal speed:		rpm	Variable Yes <input type="checkbox"/>
Power:		kW	No <input type="checkbox"/>

### Gearbox


Manufacturer:	Type:
Ratio:	

### Stage

Stage 1 number of teeth:	/	Revolutions:	/	rpm
Stage 2 number of teeth:	/	Revolutions:	/	rpm
Stage 3 number of teeth:	/	Revolutions:	/	rpm
Stage 4 number of teeth:	/	Revolutions:	/	rpm

### Bearing

Manufacturer:	Stage 1	In	Out
Manufacturer:	Stage 2	In	Out
Manufacturer:	Stage 3	In	Out
Manufacturer:	Stage 4	In	Out

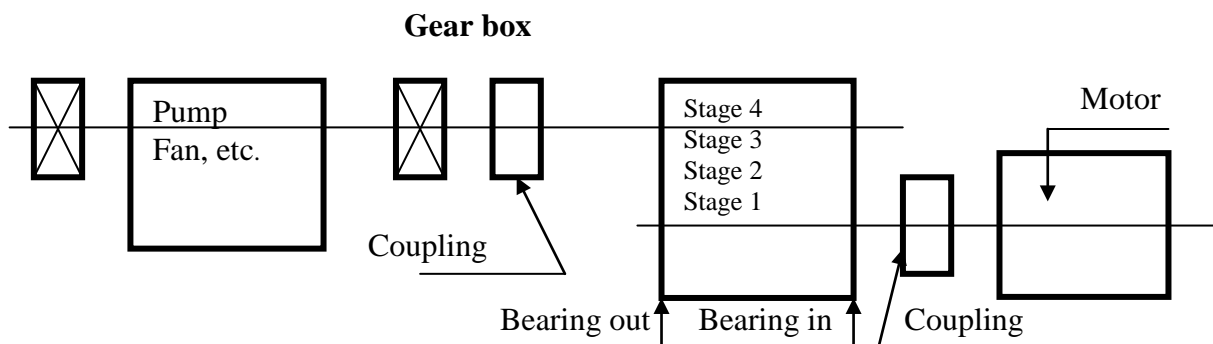
	Dokumenttyp <b>TECHNICAL INSTRUCTION</b>		Dokumentnummer LKT 1550.540.004		Sida 4	Av 4
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## Fan, Pump, etc.

Manufacture:	Type:
Number of revolutions: rpm	
Bearing pulley end (in), manufacturer and type:	
Bearing free end (out), manufacturer and type:	
Number of blades /wings on rotating part:	
Coupling:	Number of coupling elements/ jaws, etc:

Shaft direction  horizontal  vertical

A simple sketch of the machine assembly should be appended as below.



## Suggestions for improvements

LKAB carries out continual improvements in accordance with the LKAB quality policy (SS ISO 10006, sections 8.2 and 5.2.7) and this also applies to instructions and codes of practice. Comments and suggested improvements are welcome at the following e-mail address: [instructions@lkab.com](mailto:instructions@lkab.com)

LKAB's internal address in Lotus Notes: Anvisningar LKAB