

H 4 Information on spare parts and notes on inquiries

H 4.1 Structure of our centrifugal compressor plants

Our products are structured by assemblies shown in the subsequent centrifugal-compressor structure (here shown only parts supplied).

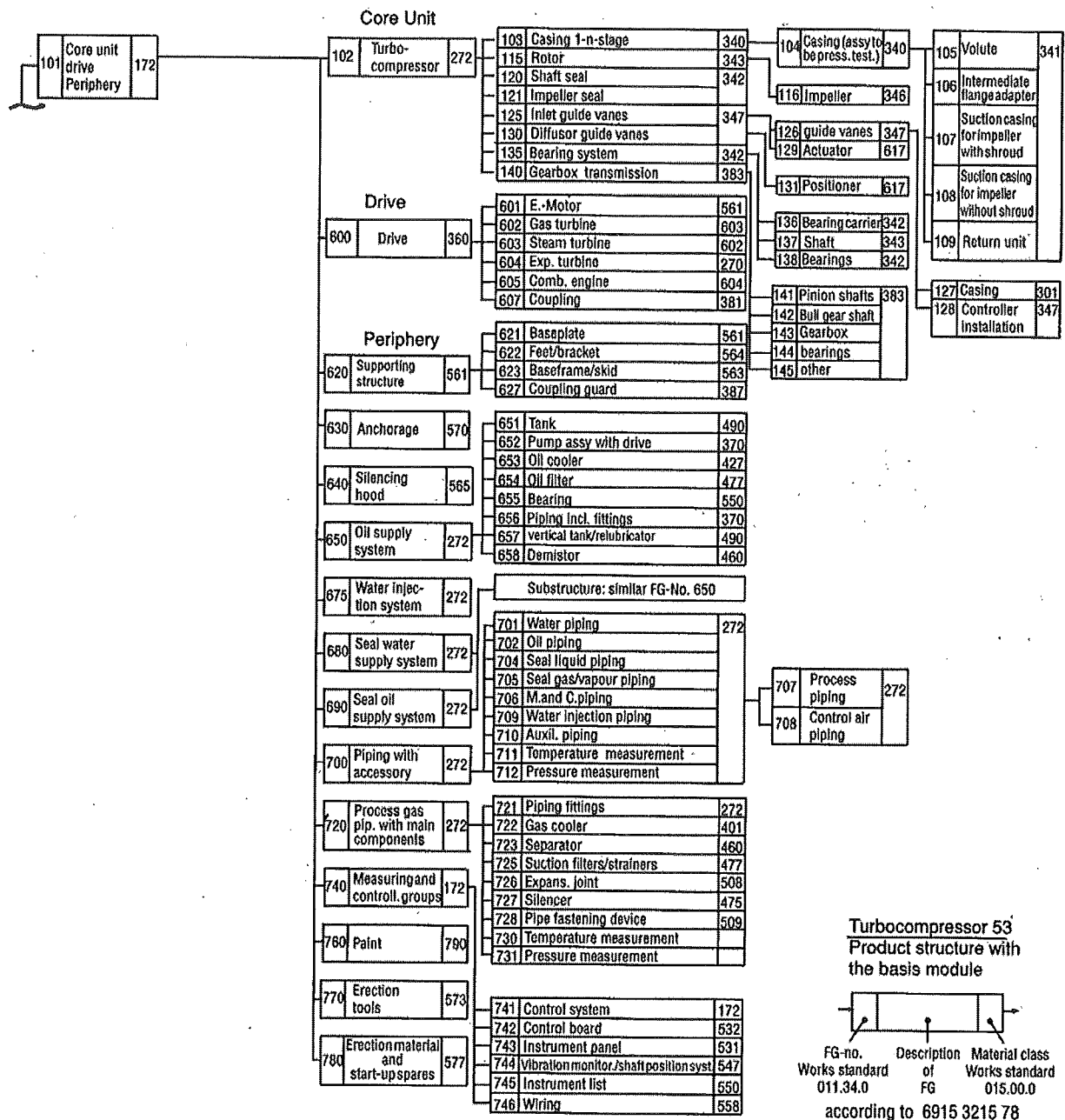
Individual sectors show denominations of assemblies and their assembly numbers. The structure is shown on the next page.

The centrifugal compressor plant assembly 101 consists of the assemblies: core unit 102, drive 600 and periphery with all components of assembly no. 620 or higher.

Centrifugal compressor assembly 102 consists of 103 casing, 115 rotor, 120 shaft seal etc. up to 140 gearbox, transmission.

The gearbox 140 in turn consists of 141 pinion shafts, 142 bull gear shaft etc. There is no further sub-division in this case. For other assemblies, however, this is possible.

For example, 125 inlet guide vane can be further structured into 126 guide vanes and 129 actuator with a sub-structured 126 into 127 casing and 128 controller installation.



H 4.2 Structure of our spare parts list

Our spare parts lists include all plant assemblies of the core unit and their single spare parts required for each:

- Maintenance,
- Inspection
- Revision or as stock to avoid taking any risk (this is a stock of stand-by parts permitting quick compressor repair in emergencies without causing lengthy standstill periods of the machine caused by long delivery times).

For machine spare parts lists see next pages.

The first table of the spare parts list contains the parts list number of the assembly group with the corresponding drawing.

The following table contains the order no., description, the no. of the assemblies and the no. of the associated assembly drawing, if any. For each part, also its drawing item no is indicated.



For information about the sub-suppliers assemblies refer to the corresponding chapters in section H5.

Our spare parts department will let you have a complete spares quotation by request.

In general and for a maximum of reliability of the turbo machine we recommend to store the following parts:

- **For start-up**
 - 1 set of gaskets for centrifugal compressor
 - 1 set of temperature probes
 - 1 set of oil filter cartridges
 - 1 vibration pick-up
- **For operation of two years**
 - 1 rotor complete
 - 1 set of shaft seals
 - 1 set of oil filter cartridges
 - 1 set of bearings

- **For several years of operation**

- 1 set of bearings
- 1 set of shaft seals
- 1 rotor complete
- 1 set of gear parts (shaft seal, main oil pump, bearings)
- 1 set of oil filters cartridges

H 4.3 Notes on how to order spares, example

Should you want to inquire for or order spare parts, we would ask you to contact only the AC service department.

Inquiries or orders should always include the following information:

- Original AC supply order no., AC quotation no.
- Machine type and serial no.
- Drawings and item no., material no. and description of requested spare parts
- Quantity of required parts

Example:

Based on your quotation, we order the following parts:

Our order no.	XE 8812
Your quotation no.	140-88-4711
Machine type	HL8-4-75
Original supply order no.	572 37 318
Serial no.	14-2275 14-2276

4 set of gaskets, material no. 69XXXXXXXXX, item X of drawing no. 69XXXXXXXXX.

Should the exceptional case come up that you required components which are not included in our spare part list, we would ask you to describe the component indicating type, function, main dimensions, presumable materials etc. It is always imperative to let us have the associated original AC supply order number.

Be sure that we will help you.



On the following pages the spare parts delivered with the machine are listed.

H 4.4 Spare parts delivered with the machine

Part no.: Oil demister

Pos.: 6970268299

6970276976 Filter element 7

H 4.5 Spare parts list

Ersatzteile Core Unit

Spare Parts Core Unit

Part no.:	Core Unit	Drawing
Pos.:	6970 3014 69	1320 1028 11
1420 1126 22 77	Schwingungsmeßsonde Vibration probe	4
1420 1126 23 77	Verlängerungskabel Extension cable	4
1420 1126 25 77	Proximitör Proximitör	4
1320 7022 18 27	Wellenabdichtung 1.Stufe Buffer seal 1 st . stage	1
1320 7022 13 28	Wellenabdichtung 1.Stufe Buffer seal 1st.stage	1
1320 7022 74 29	Wellenabdichtung 2.Stufe Buffer seal 2 nd . stage	1
1320 7022 73 30	Wellenabdichtung 2.Stufe Buffer seal 2 nd . stage	1
1320 7015 18 31	Wellenabdichtung 3.Stufe Buffer seal 3 rd . stage	1
1320 7015 17 32	Wellenabdichtung 3.Stufe Buffer seal 3 rd . stage	1
1320 7022 08 33	Öldichtung 1.Stufe Oil seal 1 st . stage	1
1320 7015 21 48	Öldichtung 2.Stufe Oil seal 2 nd . stage	1
1320 7015 22 34	Öldichtung 3.Stufe Oil seal 3 rd . stage	1
1320 7023 31 19	Öldichtung Antriebswelle Oil seal drive gear	1
1320 7041 56 113	Öldichtung Antriebswelle Oil seal drive gear	1

1320 7022 41	Antriebsrad	1
14	Drive gear	
1320 7025 00	Radiallager L.S.	1
15	Journal bearing L.S.	
1320 7025 25	Radial/Axiallager L.S.	1
16	Journal/thrust bearing	
1320 7110 00	Lager 1. Stufe	1
20	Bearing 1 st . stage	
1320 7110 22	Lager 2. Stufe	1
21	Bearing 2 nd . stage	
1320 7111 60	Lager 3. Stufe	1
22	Bearing 3 rd . stage	
1320 7111 80	Lager gegenüber 3. Stufe	1
23	Bearing opposite 3 rd . stage	
1320 7016 10	Ausgleichsbleche für Lager	4
24	Shim pack for bearings	
1320 7016 09	Ausgleichsbleche für Lager	4
25	Shim pack for bearing	
1420 1104 80	PT 100 im Lager	16
	Bearing RTD	
0800 0012 38	O-Ring	2,5 m
01	O-ring	
0800 0000 43	O-Ring	1
18	O-ring	
1420 0500 90	O-Ring	1
36	O-ring	
1420 0501 64	O-Ring	2
42	O-ring	
0800 0013 13	O-Ring	3
43	O-ring	
1320 7077 52	O-Ring	1
44	O-ring	

1320 7077 53	O-Ring	1	
45	O-ring		
1320 7077 54	O-Ring	1	
46	O-ring		
0663 3127 00	O-Ring	2	
68	O-ring		
1420 0501 65	O-Ring	1	
72	O-ring		
1420 0510 53	O-Ring IGV	7	
	O-ring IGV		
1420 0507 02	O-Ring IGV	7	
	O-ring IGV		
1420 1201 34	Hauptölpumpe	1	
13	Main oil pump		
1320 7082 10	Kupplung Hauptölpumpe	1	
13	Main oil pump coupling		
1320 7064 30	Vorgelege Hauptölpumpe	1	
13	Spur gear pump		
0502 1090 32	Wälzlager	2	
13	Ball bearings		
0502 1090 32	Wälzlager	2	
59	Ball bearings		
1320 1021 49	Rotor Stufe 1/2	1	
11	Rotor stage 1/2		
1320 7070 70	Rotor Stufe 3	1	
12	Rotor stage 3		
1420 1126 22	Schwingungsmeßsonde	1	Key phasor
	Vibration probe		pinion 1
1420 1126 22	Schwingungsmeßsonde	1	Key phasor
	Vibration probe		pinion 2
1420 1126 21	Schwingungsmeßsonde	1	Axial pinion 1
	Vibration probe		

1420 1126 22	Schwingungsmeßsonde Vibration probe	1	Axial pinion 2
1420 1126 23	Verlängerungskabel Extension cable	4	
1420 1126 26	Proximitör Proximitör	2	Axial
1420 1126 25	Proximitör Proximitör	2	Key Phasor
1320 7078 48 88	Öldruckregelventil Oil pressure relieve valve	1	
1420 1501 01	Sperrgasdruckregelventil Sealgas pressure relieve valve	1	
1420 1301 00	Rückschlagventil Sperrgassystem Check valve sealgas system	1	
1420 1505 24 102	Rückschlagventil Sperrgassystem Check valve sealgas system	1	
1420 1201 64	Dichtungssatz Hauptölpumpe Seal main oil pump		