

	TECHNICAL SPECIFICATION SERVICES OF FD/ID FANS ON UNIT 6	Rev. 1 Date. 27.6.22 Page 1 of 6
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TECHNICAL SPECIFICATION FOR SERVICES OF FD/ID FANS ON UNIT 6

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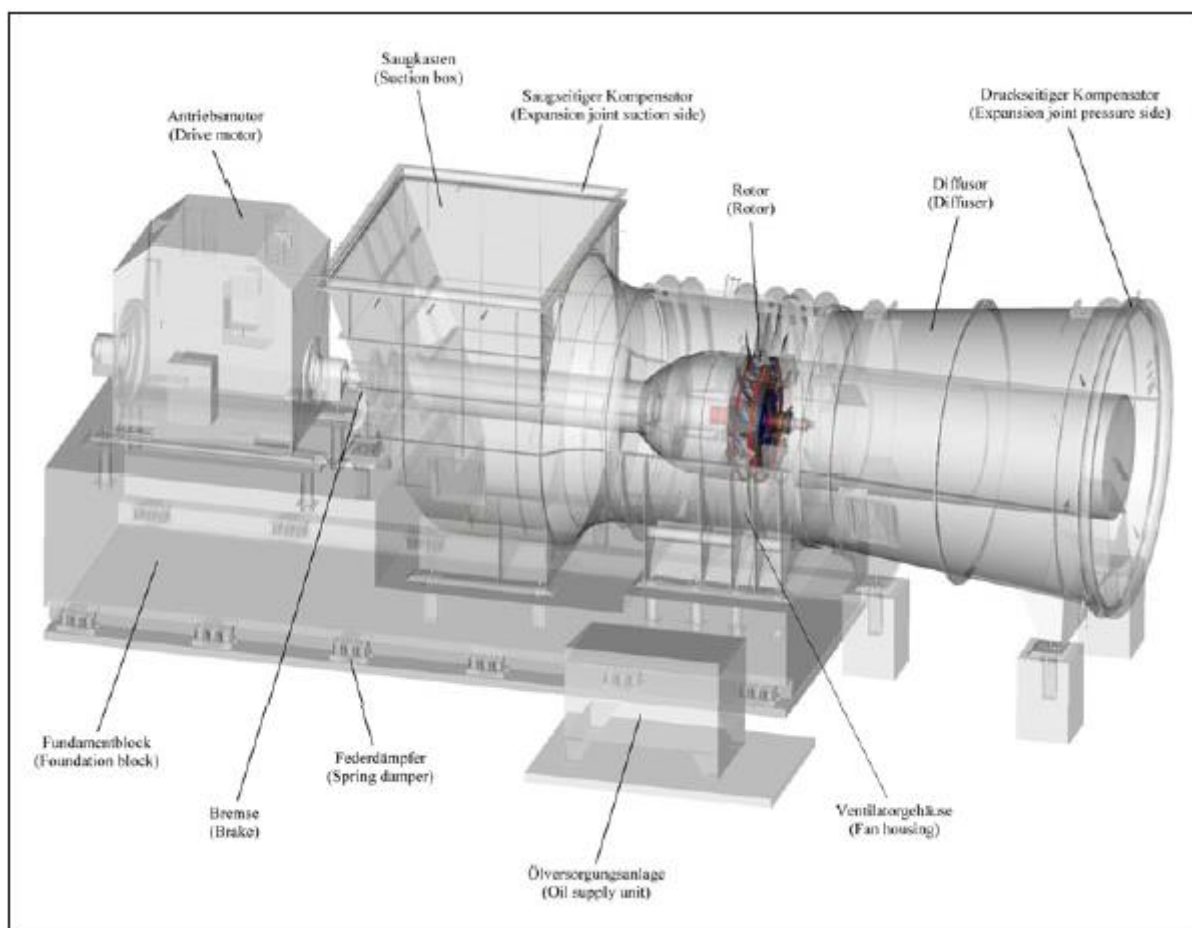
Actual specification includes **6** pages

1 OBJECTIVE

This specification includes minimal requirements for the supply of spare parts and services for Forced Draught (FD) and Induced Draught (ID) fans on Unit 6 of the Šoštanj thermal power plant for major overhaul in 2025.

2 BACKGROUND

The Forced Draught Fan serves the provision of combustion air for the fuel boiler and for the provision of precompressed primary air for the coal pulveriser fans. It has been designed with the appropriate parameters for pressure increase and pump volume.



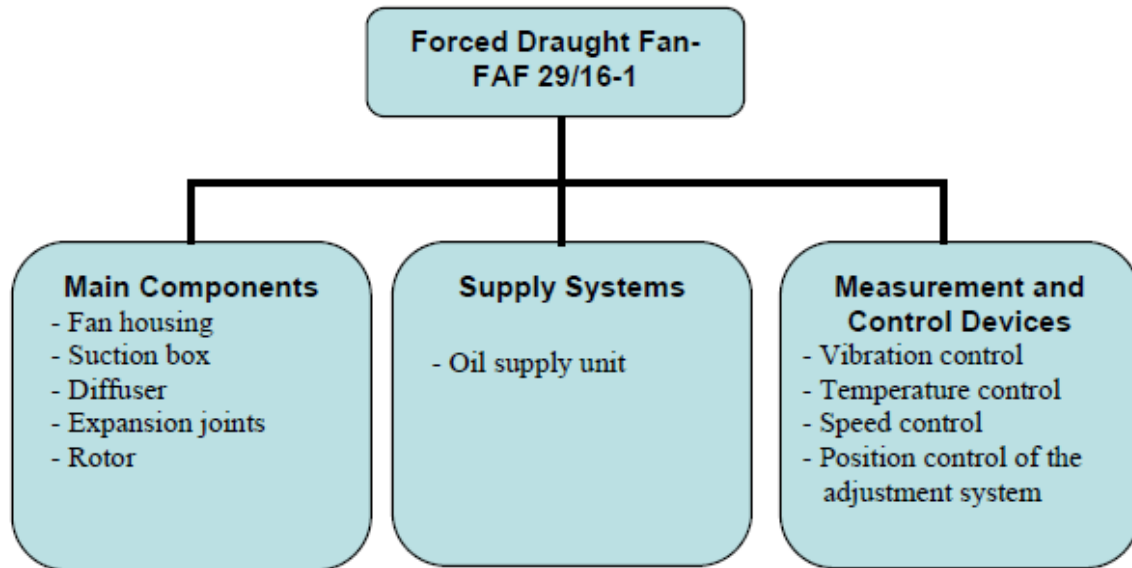


Figure 1: Forced draught fan 29/16-1

The ID Fan pumps cooled flue gases from the boiler to the downstream FGD. The system of the ID Fan starts with the expansion joint at the suction side in front of the suction box and ends at the air side with the expansion joint at the diffuser outlet. Cooling water is pumped into the oil cooler to cool the control oil or lube oil. The oil cooler is integrated into the oil supply unit.

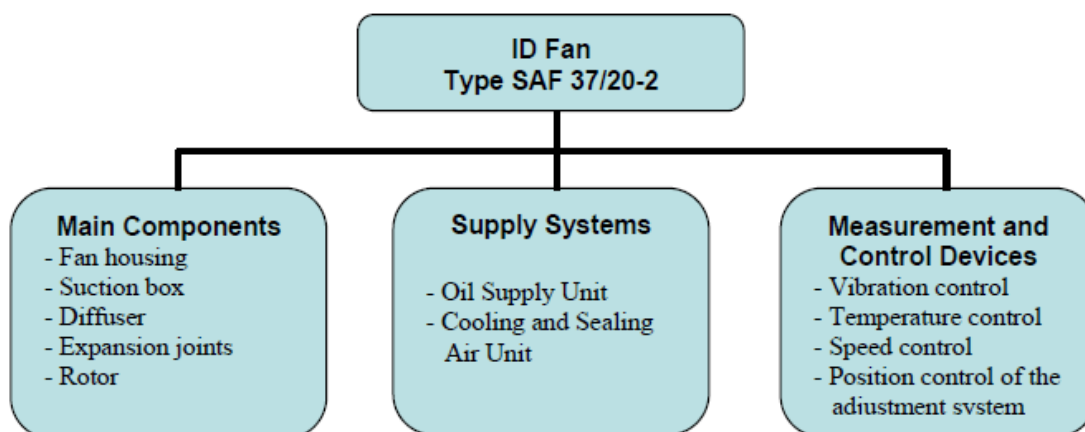
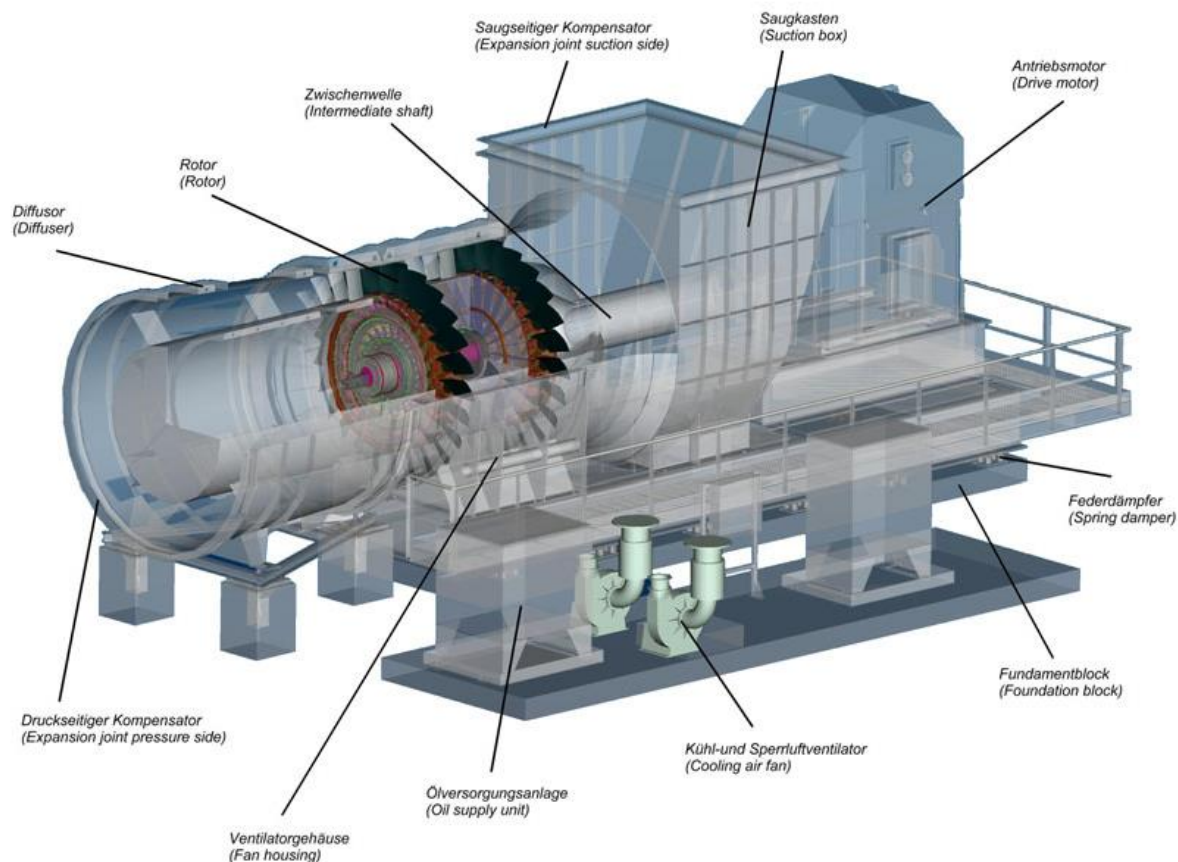


Figure 2: Induced draught fan 37/20-2

To warrant the safety and operational capability of the plant a revision is required for the following items:

- ID/FD fan rotor unit every 3 years or after 24 000 operating hours,
- ID/FD fan bearing unit every 3 years or after 24 000 operating hours.

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Operating hours for rotor and bearing unit will be reached, therefore a revision is required.

3 SCOPE OF SERVICES

3.1 Supervision service FD/ID fans

During the inspection of the fans the supplier must provide the supervisor technical assistance and guide the local personnel. All special tools needed to perform the intended erection work will be provided by TEŠ (hydraulic units for dismantling the rotor, rack for the rotor, special tools, etc.).

Main tasks:

- Rotor removal
- Rotor transport to workshop
- Rotor disassembly
- Main bearing dis- and reassembly
- Rotor adjusted
- Clean rotor parts
- Reassemble rotor
- Transport rotor back
- Install the rotor
- Fit the blower housing
- Close compensator

3.2 Commissioning and balancing of the rotor FD/ID fans

After the inspection is finished, commissioning of all fans must be done with commissioning staff (engineer). The rotor must be balanced if necessary. After commissioning all operating parameters must be according to the designed operation of the fans.

3.3 Repairs FD/ID fans

If necessary (based on findings after fan disassembly and crack tests) the supplier must provide all the services described below:

- Blade shaft repair (coating with HVOF)
- Thrust rod repair (coating with foam spraying)
- Other repairs on client's request

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IMPORTANT!

The contractor must own appropriate and original workshop drawings for FD/ID fans.

4 PROVIDER REFERENCES

The client requires one (1) supervision and commission service of FD/ID fans in the last five (5) years. Reference must be verified by the provider's client.

For additional repairs no reference is required.

5 ATTACHMENTS

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