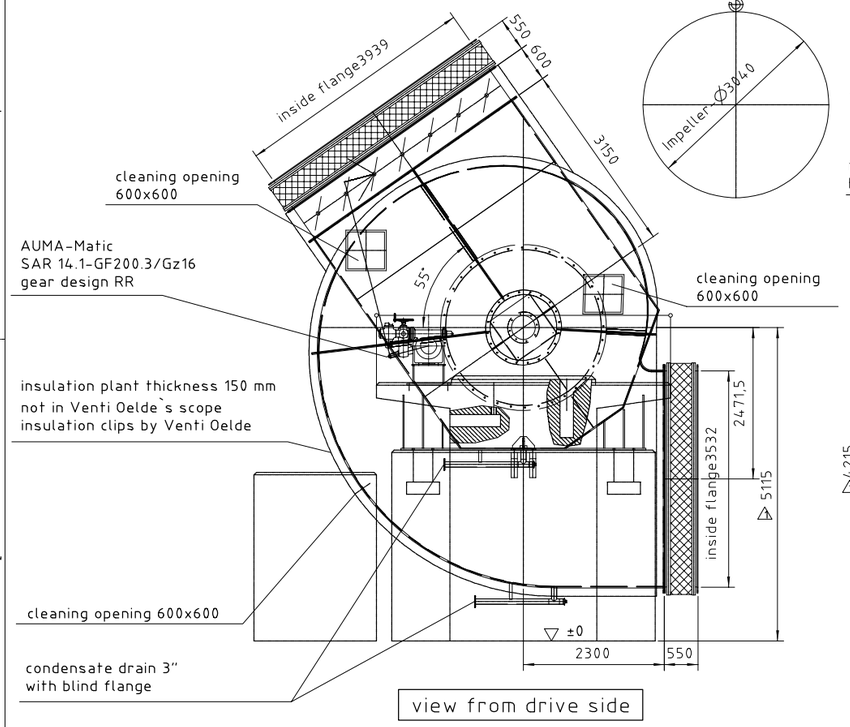
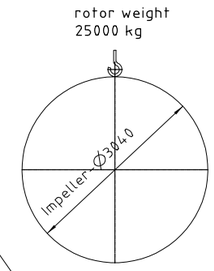
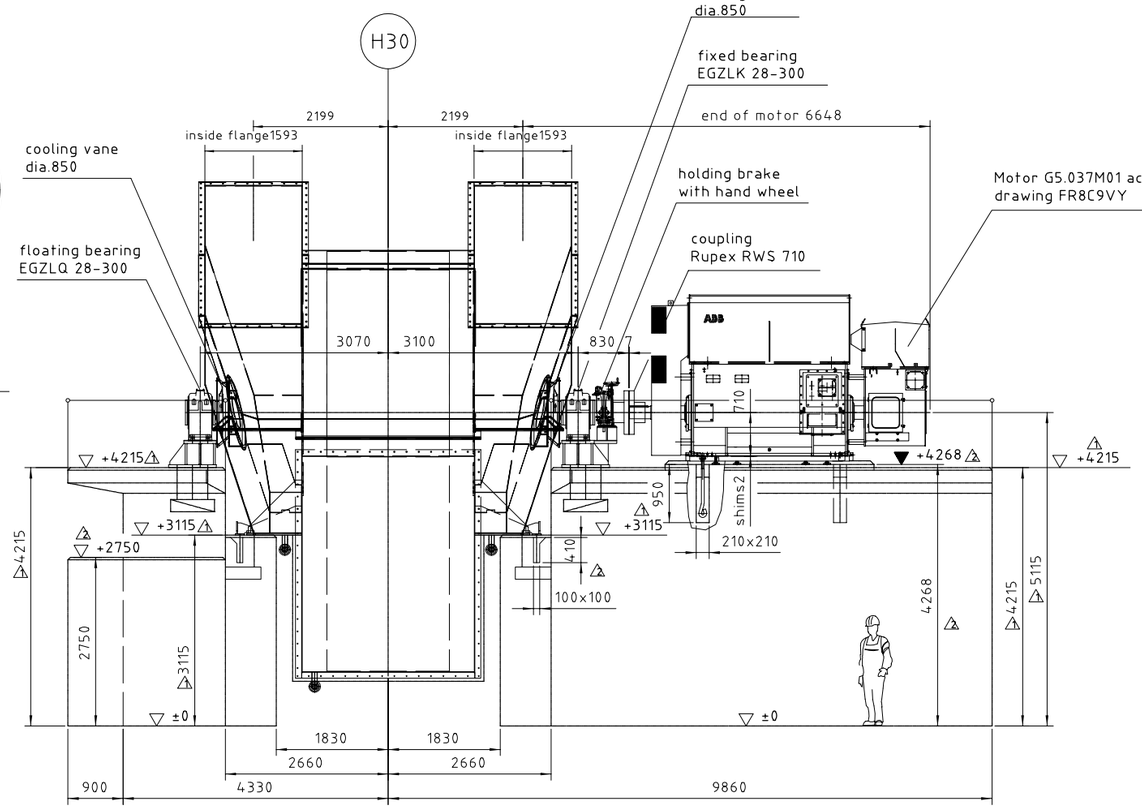
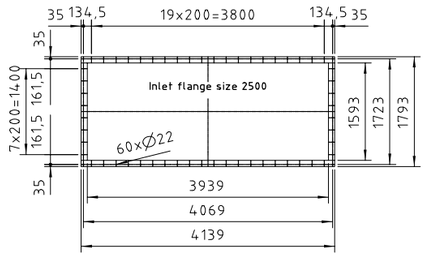
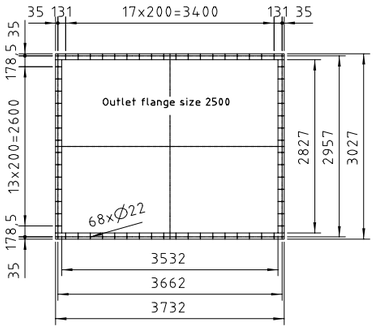



view from drive side




±0,00 = 1753.000 above sea level

Technische Daten:
technical data:

| | |
|---|---|
| Volumenstrom: flow volume: | 1271577 Bm³/h |
| Druckdifferenz: total pressure: | 6124 Pa bei 134°C, Dichte: 0,623 kg/m³ at density |
| Leistungsbedarf: power consumption: | 2943 kW bei 134°C, Dichte: 0,623 kg/m³ at density |
| Ventilatordrehzahl: fan speed: | 993 min⁻¹ rpm |
| mechan. Auslegung mechanical design | 350 °C °Cm |

Hochspannungsmotor G5.037M01
high voltage motor G5.037M01

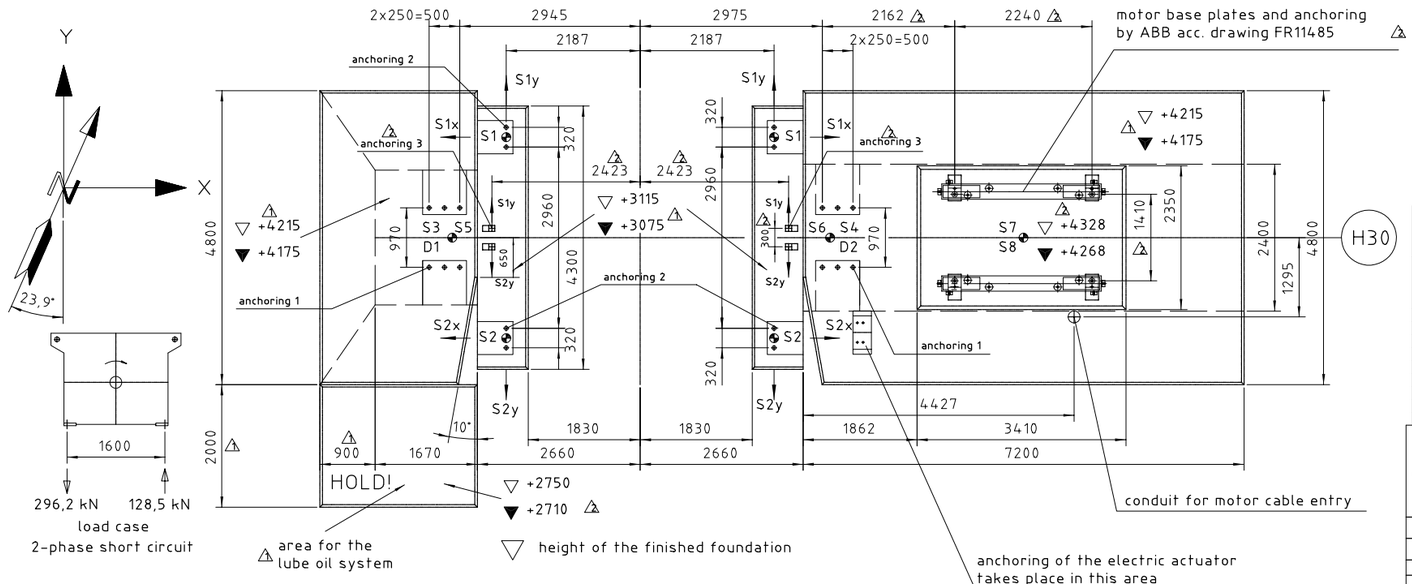
| | |
|---|---|
| Nennleistung: power: | 3850 kW |
| Nenndrehzahl: speed: | 993 min⁻¹ rpm |

Calculations for the foundation are the responsibility of the company carrying out the work. Permissible construction tolerances in the area of the anchoring are:
- height tolerance + 2mm / - 1mm
- horizontal clearance to the reference line ± 1mm
- deviation from the horizontal (foundation length) ± 3mm
- vertical inclination of the anchoring ± 1mm/m

Missing openings (e.g. electrical installation) must be determined by others. the vertical and horizontal pitches of the anchoring holes must be measured and noted in a report by the local building engineer after concreting.

Die Berechnung des Fundamentes liegt in der Verantwortung der auszuführenden Firma !
Zulässige Bautoleranz im Bereich der Verankerung:
- Höhentoleranz +2 mm / -1 mm
- Horizontaler Abstand zur Bezugzlinie ±1 mm
- Abweichung von der Horizontalen (Fundamentlänge) ±3 mm
- Vertikale Neigung der Verankerung ± 1mm/m

Fehlende Aussparungen bzw. Durchbrüche (z.B. Elektroinstallation) sind bauseits festzulegen.
Die vertikalen und horizontalen Abstände der Verankerungslöcher sind nach dem Betonieren vom örtlichen Bauleiter nach Aufmaß zu protokolieren




| description Benennung | | dynamic load Last | speed (rpm) Drehz. (U/min) |
|---|---|---|---|
| D1 | floating bearing Loslager | ±187,5kN | 993 |
| D2 | fixed bearing Festlager | ±187,5kN | |

| static load / Statische Last | | load Last | weight Gewicht | horizontal load from earthquake 0,3g in x - direction | horizontal load from earthquake 0,3g in y - direction |
|---|---|---|---|---|---|
| S1 | fan casing incl. insulation Ventilatorgehäuse | ~87,5 kN | ~35000 kg | ±26 kN | ±26 kN |
| S2 | fan casing incl. insulation Ventilatorgehäuse | ~87,5 kN | | ±26 kN | ±26 kN |
| S3 | impeller unit-non locating bearing Läufereinheit Loslager | ~125 kN | ~25000 kg | - | ±36,8 kN |
| S4 | impeller unit-locating bearing Läufereinheit Festlager | ~125 kN | | ±73,6 kN | ±36,8 kN |
| S5 | floating bearing pedestal Loslagerbock | ~12 kN | ~1200 kg | ±3,6 kN | ±3,6 kN |
| S6 | fixed bearing pedestal Festlagerbock | ~12 kN | ~1200 kg | ±3,6 kN | ±3,6 kN |
| S7 | base plate-motor Sohlplatte - Motor | ~8,7 kN | ~867 kg | ±2,6 kN | ±2,6 kN |
| S8 | motor (load case 2-phase short circuit acc. sketch) Motor | ~170 kN | 17000 kg | ±50 kN | ±50 kN |

S1x=S1y=S2x=S2y=17,5 kN

Motor-, floating bearing and fixed bearing area must be accessible.
Cleaning flap and actuator for louver damper must be accessible.
One ladder each has to be placed at the building floor!
Ladder, handrail and maintenance-platform are not incleded in the scope of supply.

the indicated static load are for foundament calculation and not in according with the weight of the delivered parts

Instrumentation according P&ID drawing no. A-228637-1
Silencer discharge side according drawing no. A-229066-1

Preparatory work for the anchoring acc. A-180415-3
Vorbereitung der Verankerung nach A-180415-3
Assembly anchoring 1: M30x750 without thermal expansion acc. A-219417-3
Montage der Verankerung 1: M30x750 ohne Waermeausdehnung nach A-219417-3
Assembly anchoring 2: M30x750 with thermal expansion acc. A-227619-3
Montage der Verankerung 2: M30x750 mit Waermeausdehnung nach A-227619-3
Anchoring 3 with foundation bolts M20x500 DIN 509 type B; S = 100 mm

| | |
|---|---|
| Purchase order no. | 12269175/210 |
| Drawing no. (Customer) | |
| Customer | OUTOKUMPU TECHNOLOGY GMBH OBERURSEL |
| Drawing copyrighted | Copyright DIN ISO 16016 |
| Standard to use: Venti factory standard/DIN ISO | |
| Permiss. deviation | DIN ISO 2768 Teil 1 / tolerance class VWN V2 |
| Surface | DIN EN ISO 1302 series 1 (2) VWN V8 |
| Scale | 1:50 |
| Mass [kg] | |
| Product group/material no. | |
| Designation | WINDBOX EXHAUST FAN G5.037 DHRV 63S-2500 / K GL 270 ST 35 |
| Drawing no. | A-228829-1 |
| Macro version: | |
| Origin: | |
| ISO 128 Projection method 1 | |
| Replaced by: | |
| Replacing: | |

| Index | Revision | Date | Name |
|---|---|---|---|
| | | | Signed 07.04.2005 SUM |
| | | | Check |
| | | | Edition |

GOL - E - GOHAR IRON ORE CO.
Concrete Industries & Copper Investment Consortium

| Client | Main Contractor | Designer | Discipline | Area No. Module No. | Equipment Code | Serial No. |
|---|---|---|---|---|---|---|
| GGP | CIC | 0 | M1 | G5 | 037 | 001 |

| Rev | Name | Date | Name | Name | Date | Status | Kind of Revision |
|---|---|---|---|---|---|---|---|
| | Prepared/Changed | | Checked | Released | | | |
| 2 | Schürm. | 14.07.05 | Schürm. | Schürm. | 14.07.05 | FA | for approval |
| 1 | Schürm. | 06.06.05 | Schürm. | Schürm. | 06.06.05 | | Revised as marked |
| 0 | Schürm. | 07.04.05 | Schürm. | Schürm. | 07.04.05 | Fi | First Issue |

OUTOKUMPU
Outokumpu Technology GmbH

Plant: FNA
Module: G5
Assembly:
Component:

DG MEF | Eng.Serv.-No. 020243 | Eng.Serv.-Title: Detailed Arrangement Drawing for Prozess Equipment



| | |
|---|---|
| Original Size: | A1 |
| Scale: | 1:50 |
| DCC | |
| Basic document: | |

PELLETIZING PLANT 5 MIO TPY
General Arrangement
Windbox Exhaust Fan G5.037

| Job name: | Job No. | Document No. | Rev. |
|---|---|---|---|
| Gol E Gohar - Pellet | I 76337-01 | 16569 | 2 |

IT-Ident-No.: -
Plot Date