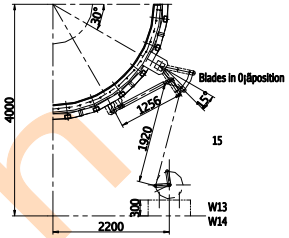
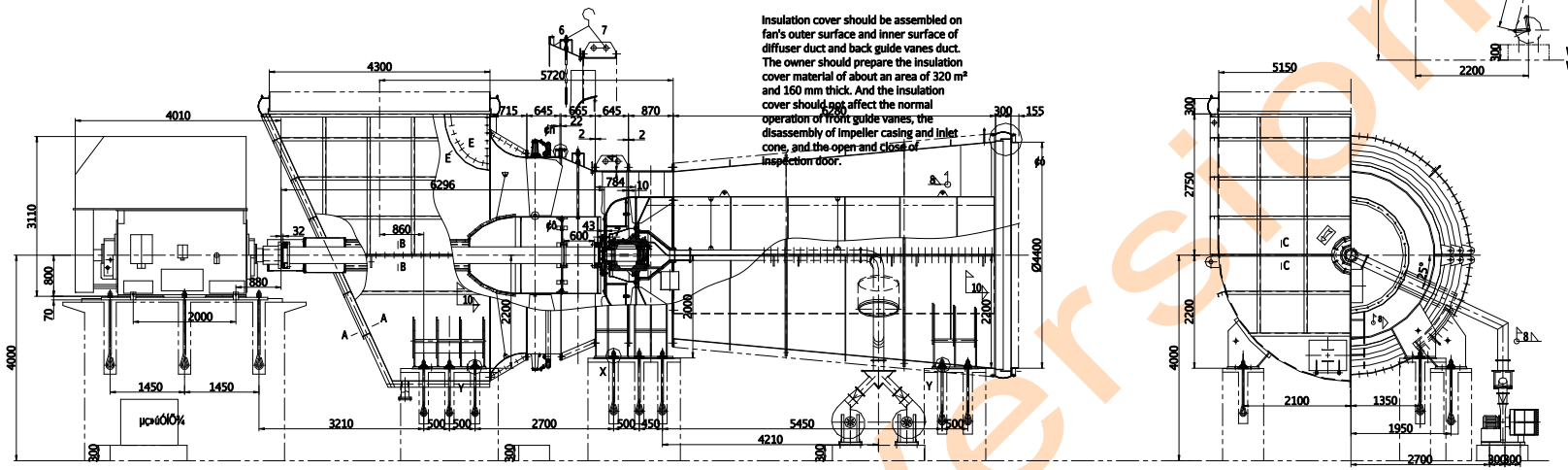
Assembly drawing of electric actuator

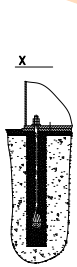


Sketch of insulation cover

Dismantling the impeller, first lift up the upper half of air duct about two meters high and move away. The lift weight is about 3000 kg.

Insulation cover should be assembled on fan's outer surface and inner surface of diffuser duct and back guide vanes duct. The owner should prepare the insulation cover material of about an area of 320 m² and 160 mm thick. And the insulation cover should not affect the normal operation of front guide vanes, the disassembly of impeller casing and inlet cone, and the open and close of inspection door.





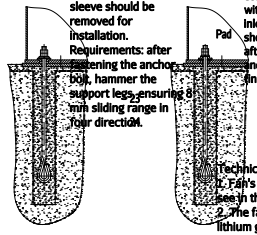
Before second grouting

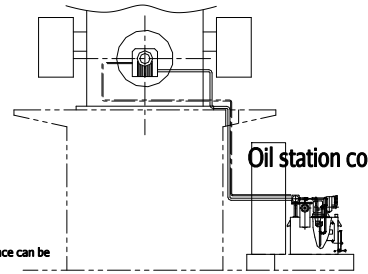
Y

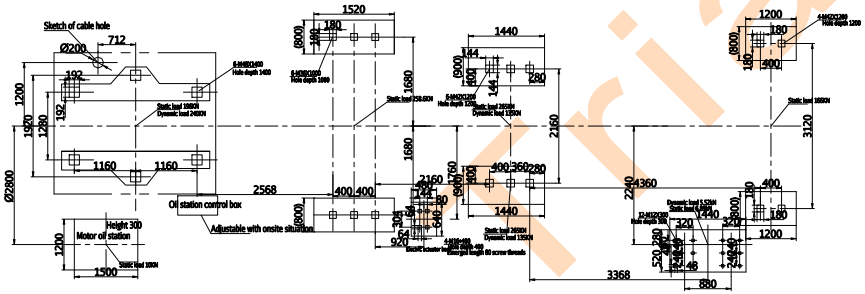
After second grouting

The excessive part of sleeve should be removed for installation. Requirements: after tightening the anchor bolt, hammer the support legs, ensuring 8 mm sliding range in four direction.

M20x50 bolts, connecting the base with support legs of inlet box and diffuser, should be disasembled after second grouting and installation finishing.







Technical statement

1. Fan's performance curve and onsite installation and maintanance can be seen in the instruction mannual.
2. The fan adopts rolling bearing, which is air-cooled and lubricated with ZL3 lithium grease.
3. Fan's temperature inspection devices should be checked at delivery and installation.They should be repaired or replaced if failing to work.
4. Fan's rotation speed is 980 r/min. Impeller's weight is 2500 kg, with moment of innertia 2000 Kg.m2.
5. For onsite installation, Ø8 glass fiber string should be set in counter flange connecting surface of inlet cone, casing and back guide vanes duct. For other parts, counter flanges should be sealed by weldment.
6. The centricity deviation of inlet box shaft seal, front guide vanes duct and fan shaft should be within 2 mm.
7. Motor pre-lift front impeller and motor side diaphragm coupling alignment requirements: radial displacement |r1|≤0.20mm, axial displacement |a1| ≤ 0.15mm.
8. Motor pre-lift diaphragm coupling alignment requirements: upper opening at motor side and down opening at impeller side, radial displacement |r1| = 0.20~0.30mm; opening at left and right side, radial displacement |r1|≤0.20 mm; axial displacement in all four direction |a1|≤0.15mm.
9. Motor pre-stretching diaphragm coupling alignment requirements: axial displacement |a1|=2.2±0.15mm; radial displacement |r1|, please refer to 12 (r1 and a1 calculation in detail see instructions).
10. Motor shaft level deviation is less than 0.1 mm; the fan shaft (in bearing box, a length of about 730mm) level deviation is less than 0.02mm.
11. The important parts, eg. fan adjustable front guide vane assembly, impeller, bearing assembly and couplings, should be well kept in site installation. And the rainproof measures should be taken to avoid equipment damage.
12. Oil refilling pipe for bearings should be ensured block-free in installation. That is, when oil flows from one end to the other, the oil refilling pipe can be connected to the bearing box.
13. Foundation dimension in brackets is only for design reference.

ABP320/55-43.7-6	
Static blade adjustable axial flow	
GA drawing	
Weight/Scale	
45T1:35.1	

20110309

Trial version