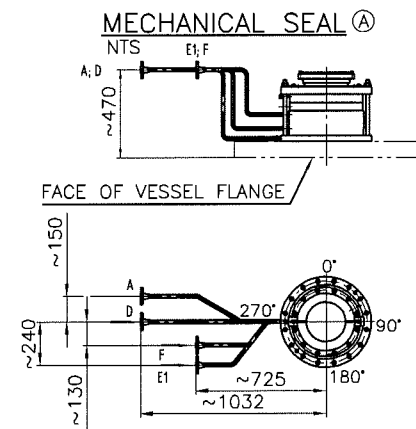
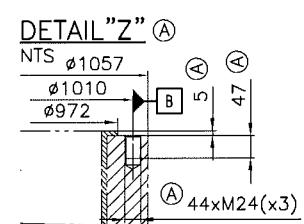
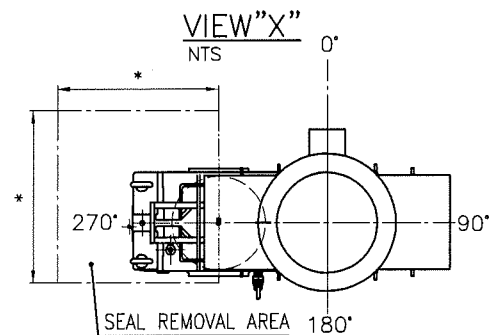
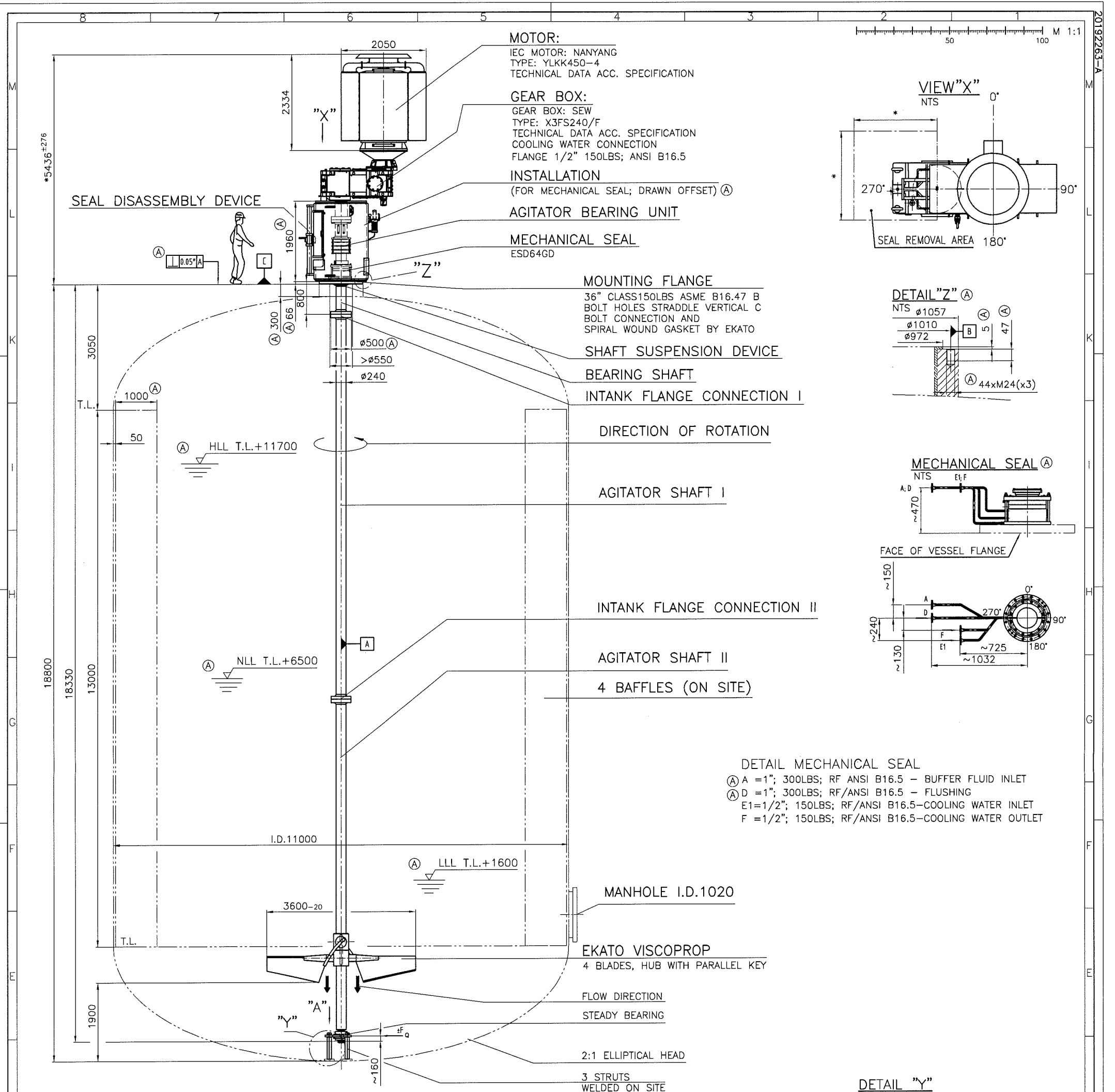
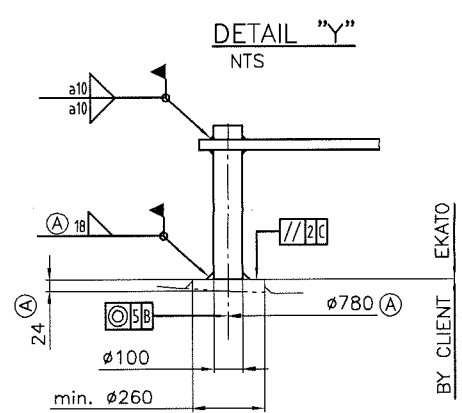
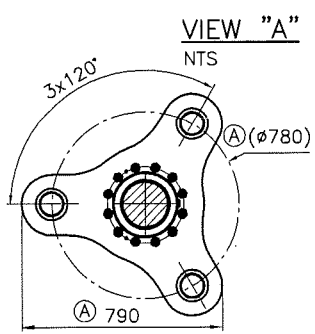




DETAIL MECHANICAL SEAL
 (A) A = 1"; 300LBS; RF ANSI B16.5 - BUFFER FLUID INLET
 (A) D = 1"; 300LBS; RF/ANSI B16.5 - FLUSHING
 E1 = 1/2"; 150LBS; RF/ANSI B16.5-COOLING WATER INLET
 F = 1/2"; 150LBS; RF/ANSI B16.5-COOLING WATER OUTLET



DESIGN LOADS ON BAFFLES		
NATURAL FREQUENCY	> 15 [Hz]	
ELEVATION FROM T.L.	max. LOAD [kN/m ²]	FATIGUE [kN/m ²]
to 1155	2.9	0.9
1155 to top	1.4	0.4

CAUTION
 DYNAMIC LOADS AS WELL AS LIMITS FOR NOZZLE DEFLECTION AND NATURAL FREQUENCIES TO BE CONSIDERED AS DESIGN CRITERIA FOR VESSEL AND INTERNALS!

	min	max	stat	start	average
Axial force F_A [N]	-170000	140000	-200000	0	-150000
Lateral force F_L [N]	-1700	1700	0	0	-15000
Bending moment M_B [Nm]	61900	82400	72200	0	72200
Torque M_T [Nm]	68500	128000	0	294000	97800
Lateral force Steady bearing F_S [N]	-15000	15000	0	0	0

The dynamic part of the lateral forces and of the bending moments is revolving. The calculation of the dynamic loads is done without regard of the vessel pressure. The agitator support must be checked by the customer with respect to strength and stiffness. Limit for the angular deflection of the agitator support during operation: $\pm 0.05^\circ$. The agitator nozzle must be arranged horizontal. Allowable deviation: 0.2° (3.5mm/m) (field arrangement). The vessel with attachments and components must be designed to avoid resonances caused by agitator operation.

NATURAL FREQUENCY OF VESSEL > 10Hz
 PRODUCT WETTED PARTS = 1.4571(EQ: AISI316Ti)
 INTANK BOLT CONNECTIONS A4 acc. ISO 3506
 WITH NORD-LOCK WASHERS
 PARTS LIST NO.: 20190269

(A)
 * ON HOLD
 SHOWN IN PRINCIPLE

CLIENT: XIANG LU
 PROJECT: XLP2
 ITEM: A2-525 5th CRYSTALLIZER
 SERIAL No.: 79775 / 060

Revision	Date	Name	Type
(A) Revision	17.03.2011	GG/Bo	Scale: 1:45 NTS
Changes	Date	Name	
EKATO AGITATOR GENERAL ARRANGEMENT DRAWING			
Drawing No.: 930-20192263-00 A			
Replacement for: _____			
Replaced by: _____			

EKATO