



Mixer Data Sheet

Customer Name:	Industria Infinto S.A. / Vennessa Ventures		Order No:	U08I003
Customer Location:	Costa Rica		P.O. No.:	INT0001
Customer Equip. No:	TBA		Issue Date:	May 22, 2008
Equipment Desc.:	CIP Tank Agitators		Revision:	0
Project Name:	Mina Crucitas			

Unit:	59GTH-50-20	Qty:	7	Serial No:	U08I003-02A-G
-------	--------------------	------	----------	------------	----------------------

Process:	Type	CIP Tank Agitators			
	Temperature	30 deg.C	Dry Solids SG	2.70	
	Pressure	Atmospheric	Liquid SG	1.00	
	Weight %	30-33% w/w	Max. Particle Size	D99 = 250	
				D80 = 75	
	Slurry S.G.	1.262	Air/Gas Flow:	No Air or Gas Added	
Viscosity	597-988 cP				

Vessel:	Ø 10.5 m X 10.5 m SS, Open Top, Flat Bottom, 4 baffles @ 90deg 655mm wide X Full length. Continuous flow with Discharge through Screens				
----------------	--	--	--	--	--

Drive:	Motor:	Supplied and Mounted by MixPro			
		37kW (50 HP) 1750 Rpm			
		TEFC NEMA 326T Frame			
		1.15 SF Under 1000mASL			
		460V/3p/60Hz			

Gear Drive:	Manufacturer	Hansen			
	Model	QVPE3-UDE			
	Ratio	79.775:1			
	Service Fct.	1.76 Mechanical / 2.06 Thermal			
	Final Speed	20.2 Rpm			
Belt Drive:	Belts:	5VX900 (2) Belts			
	Driver:	10.9"			
	Driven:	11.8"			
	C-C:	27.3"			
	Service Fct.:	1.37			

Seal:	No Shaft Seal Is Used			
--------------	------------------------------	--	--	--

Mount:	Top Entry	Location:	See Dwg. L08I003-02		
		Method:	Mounting Plate (See Dwg. U08I003-02)		

Shaft Reducer Output:	Diameter:	Ø 150 mm			
	Length:	245mm			
	Material:	42CrMoS4 (AISI 4150)			
	Coupling:	Shrink-Fit to Pipe			

Shaft 1:	Diameter:	Ø O.D. 219 mm, Ø I.D. 194 mm (8" Sch.80 Pipe)			
	Length:	8313 mm from Mounting base to Coupling CL			
	Material:	C/S (no cover)			

Upper Impeller:	Style:	MP1300SP (See Dwg. T08I003-02)			
	Diameter:	Ø 3683 mm			
	Blades:	3 Bolt-On			
	Material:	C/S with Natural Rubber 6mm & 13mm thk. on edges			
	Attach:	Hub Welded to Pipe Shaft			
	Location:	4079 mm from mounting face to Impeller CL			



Mixer Data Sheet

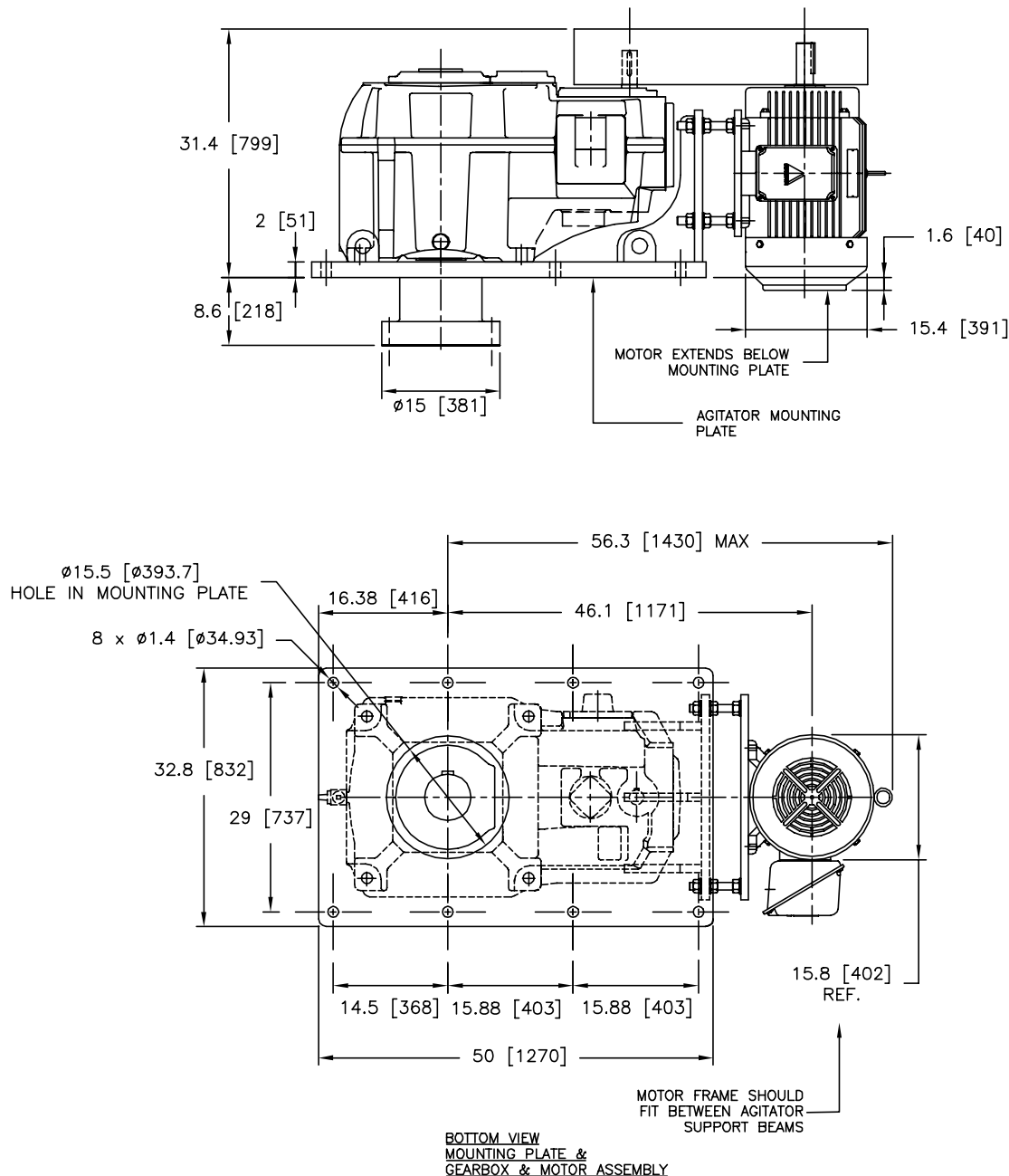
Lower Impeller:	Style:	MP1300SP (See Dwg. T08I003-02)
	Diameter:	Ø 3683 mm
	Blades:	3 Bolt-On
	Material:	C/S with Natural Rubber 6mm & 13mm thk. on edges
	Attach:	Hub Welded to Pipe Shaft
	Location:	8513 mm from mounting face to Impeller CL

Options:

DESIGN LOADS

Bending Moment: 30890 N-m (SF=2.0)
 Torque Reaction: 35180 N-m (SF=2.0)
 Downward Load: 102620 N-m (SF=2.0)
 Critical Speed: 43.4 Rpm (Actual)

DRAWN TO SCALE



BOTTOM VIEW
 MOUNTING PLATE &
 GEARBOX & MOTOR ASSEMBLY

NOTE:

1. Dimensions are for reference only and subject to change without notice unless certified.
2. Standard mounting-plate shown. Other plate sizes available upon request.
3. Agitator support base must be designed for agitator weight, torque & bending loads.

Equip. No.: TBA



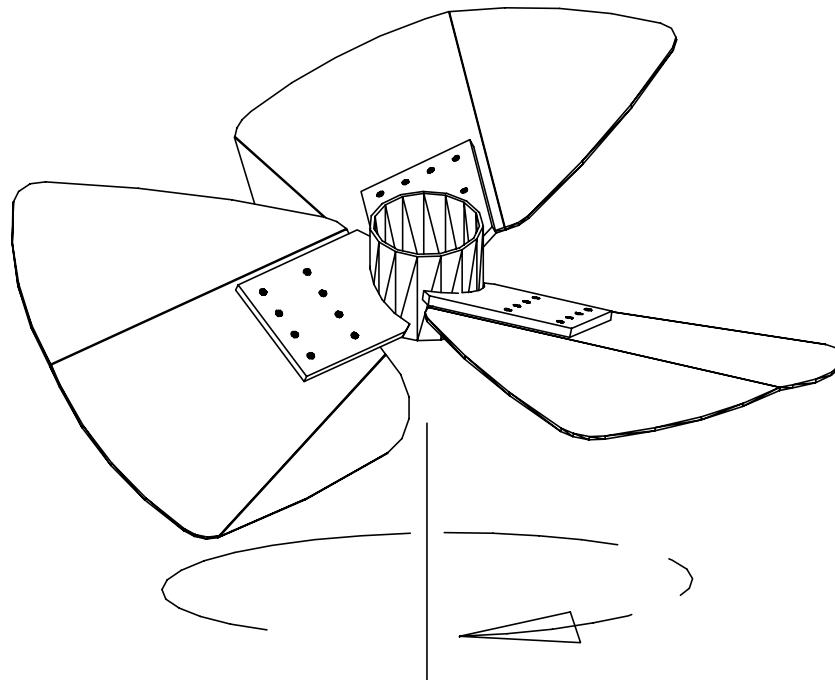
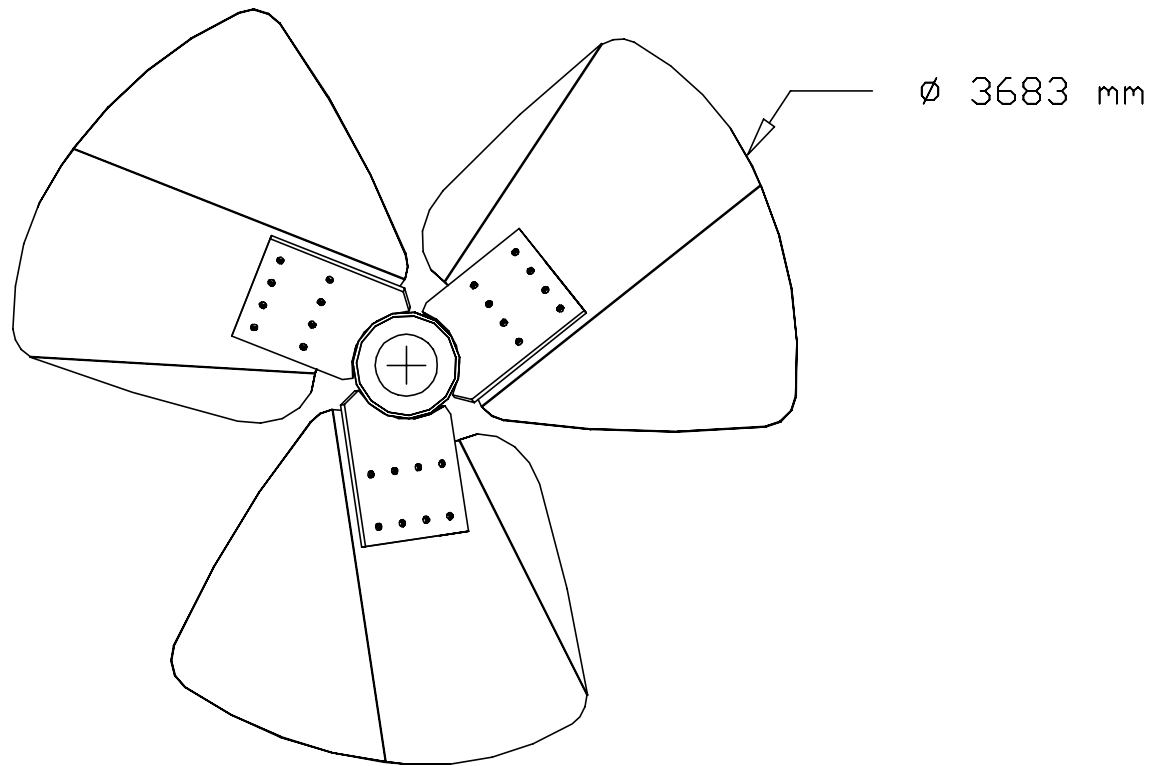
59GTH Unit Dimensional Drawing
 Industria Infinto S.A./ Vennessa Ventures, Costa Rica
 CIP Tank Agitators
 P.O.# INT0001; S/N: U08I003-02A-G

DIMENSIONS IN MILLIMETERS
 DATE May 22, 2008

DWG. NO.

REV. 0

U08I003-02



EQUIP. NO:

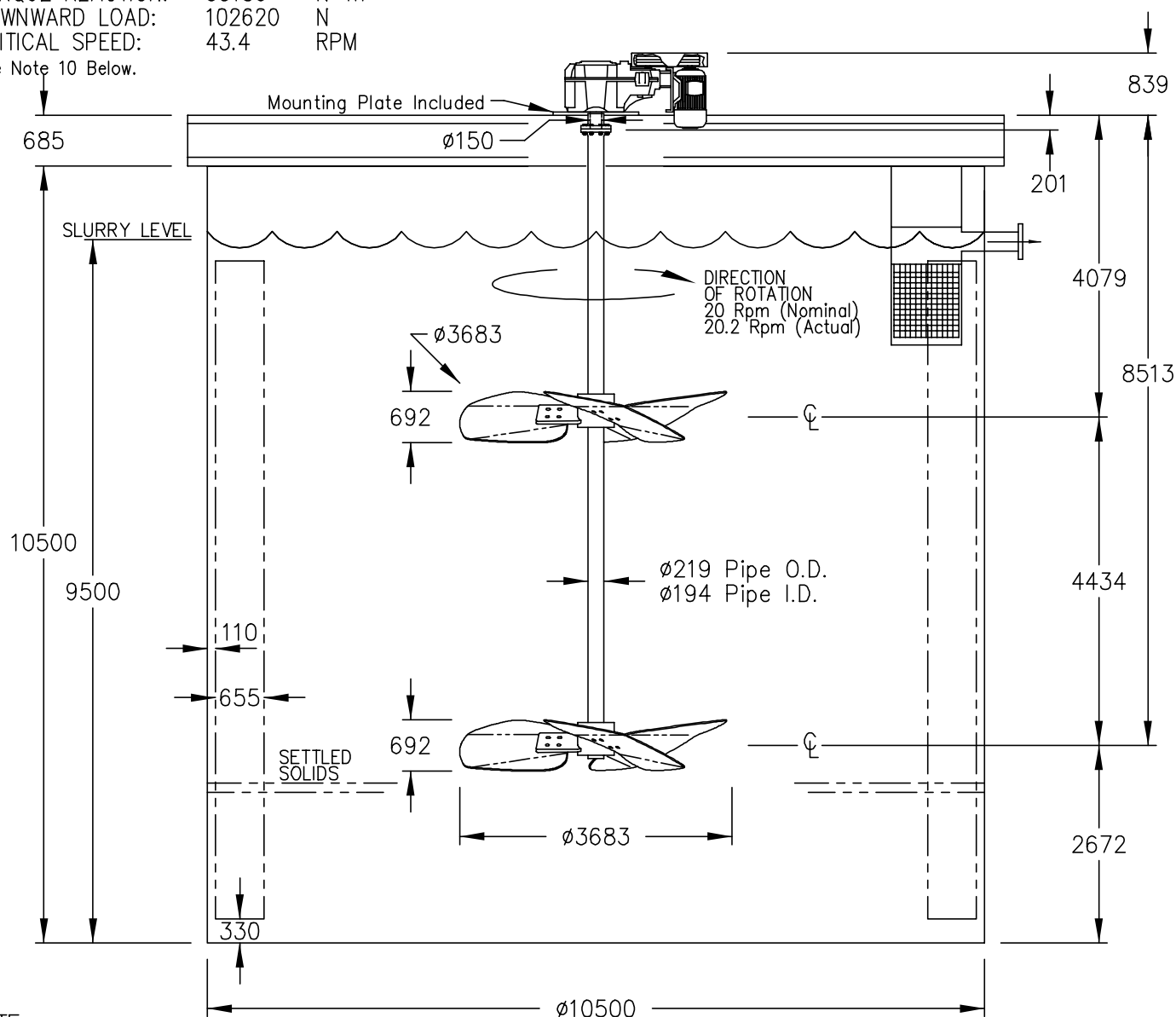
NOTE:

1. Identical Impeller to be used at Two (2) locations
2. Impeller O.D. includes 6mm & 13mm thick rubber covering on the blade edges

	Ø 3683 mm MP1300SP Impeller Schematic Industria Infinto S.A./ Venessa Ventures, Costa Rica CIP Tank Agitators P.O.# INT0001; S/N: U08I003-02A-G		
	DIMENSIONS IN INCHES		DWG. NO.
	DATE May 22, 2008	REV. 0	T08I003-02

DRAWN TO SCALE

See Note 10 Below.



1. MixPro Agitator Model Number: 59GTH-50-20 w V-Belt on HSS of Hansen P4
2. Motor: 37 kW (50 HP) at 1750 Rpm, TEFC NEMA Frame 326T, Suitable for 460V/3p/60Hz Power, Under 1000 m Elevation, & 40°C Ambient. Premium Efficiency.
3. Belt Drive: 10.9" to 11.8" Pulleys & 5VX900(2) Belts or Equal. >1.3 RMA SF (1.37 SF) (27.3"C-C)
4. Gear Reducer: Hansen P4 Model QVPE3-UDE, All Helical Gearing, Heavy-Duty Output Shaft & Bearings providing >100000 L10 hrs, Ratio 79.775:1, Mech. Gear S.F.=1.76, Oil Lubricated & Drywell.
5. Seal: No Shaft Seal is Used
6. Shaft: One (1) Piece Extension Shaft 8313 mm Long, made from 8"Sch80 pipe. No covering on Shaft. Impeller Hubs Welded to the Pipe Shaft.
7. Impellers: (2) ø3683 mm Diameter High Efficiency Wide-Blade Hydrofoil, Type MP1300SP with Three (3) Bolt-On Blades Each. Impeller Blades Rubber Lined for Abrasion.
8. Process: 1.262 SpGr Gold Ore Slurry (Saprolite Ore) having 30% to 33%w/w Solids, 1.00 Liquid SpGr, 2.70 Solids SpGr, Max. Particle Size 250 microns + 6x16 Mesh Activated Carbon. 597 to 988 cP Viscosity @5/s with Yield Stress 2.5 to 4.3 Pa. No Air or Gas Added. Slurry discharged through Carbon Screens. Uniform Solids Distribution & Full Tank Motion.
9. Wetted Parts: Carbon Steel. Natural Rubber Covered Blades for Abrasion
10. The agitator beam support must be sufficiently rigid to prevent the agitator from vertically deflecting 5.5 mm and 1/3" deflection in any direction (ie twist). The loads shown include a suitable safety factor.

Equip. No.: TBA

	LOCATION DRAWING Industria Infinto S.A./ Vennessa Ventures, Costa Rica CIP Tank Agitators P.O.# INT0001; S/N: U08I003-02A-0001	
	DIMENSIONS IN MILLIMETERS	
	DATE May 22, 2008	REV. 0
	DWG. NO. L08I003-0001	

Equip. No.: TBA



LOCATION DRAWING
Industria Infinto S.A./ Vennessa Ventures, Costa Rica
CIP Tank Agitators
P.O.# INT0001; S/N: U08I003-02A-G

DIMENSIONS IN MILLIMETERS	
DATE May 22, 2008	REV. 0

DWG. NO.
L08|003-02