

APPCOR

At Prindle Station

Since 1963

MIXERS

Top Entry Fixed Mount

APPCOR top entry, fixed mount mixers are designed for high capacity, tough duty mixing applications and incorporate three sizes of Falk type HMX reducers. These reducers are specifically designed for mixer service and include: high strength helical gearing; no-leak drywell construction to isolate the oil sump from the output shaft; cast iron housing; C-face motor adapter; severe duty, grease purgeable seals for input shaft and output shaft; stub shaft with coupling for connection to mixer shaft; Falk service, dependability and replacement parts.

An exclusive computer program, developed by APPCOR following thirty years of mixing experience, considers every process detail and mechanical constraint to select the appropriate mixer for your application.

A typical data summary follows for suspension of sand slurry:

PROCESS COMPONENTS DATA

Component	Percent By:		S.G.	Viscosity Centipoise	Top Size Microns	Temperature	pH
	Weight	Volume					
Solids	25.00	10.99	2.700		420		
Liquid	75.00	89.01	1.000				
Slurry	100.00	100.00	1.187	1		70° F	7

FLAT BOTTOM CYLINDRICAL TANK DATA

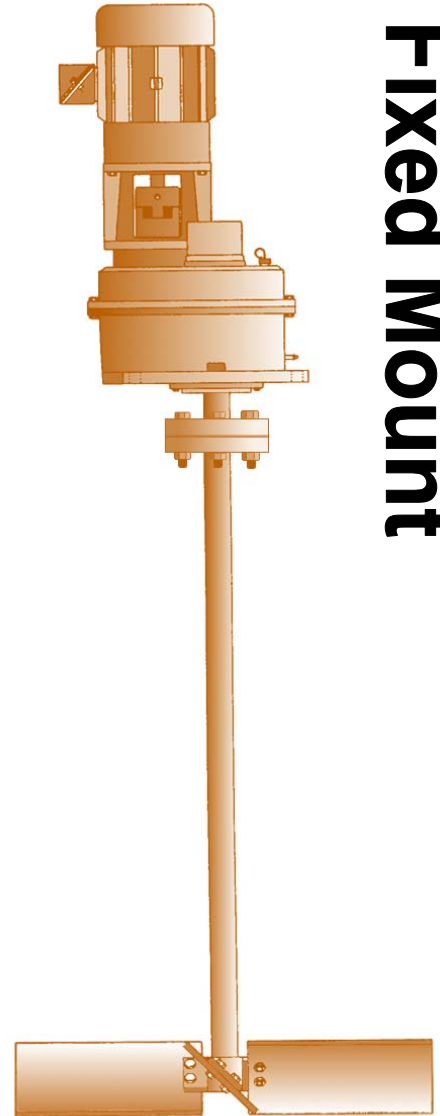
Diameter: 84.0 Inches	Sidewall: 96.0 Inches
Beam Height: 6.0 Inches	Overall Height: 102.0 Inches
Freeboard: 8.0 Inches	Liquid level: 88.0 Inches
Maximum Volume: 2303 Gallons	Working Volume: 2111 Gallons
Baffles: 4 @ 90 Degrees, 7.0 Inches wide, 1.5 Inches off-wall	

IMPELLER DATA

Lower Impeller Type: 45 Degree Pitched Blade Turbine	
Upper Impeller Type: 45 Degree Pitched Blade Turbine	
Lower Impeller Diameter:	27.5 Inches
Upper Impeller Diameter:	27.5 Inches
Impeller Diameter/ Tank Diameter Ratio	0.33:1
Tip Speed:	489.6 Ft./Min.
Pumping Capacity:	8945.9 GPM
Impeller Bottom Clearance:	14.0 Inches
Shaft Diameter:	2.00 Inches
Shaft Length:	88.0 Inches

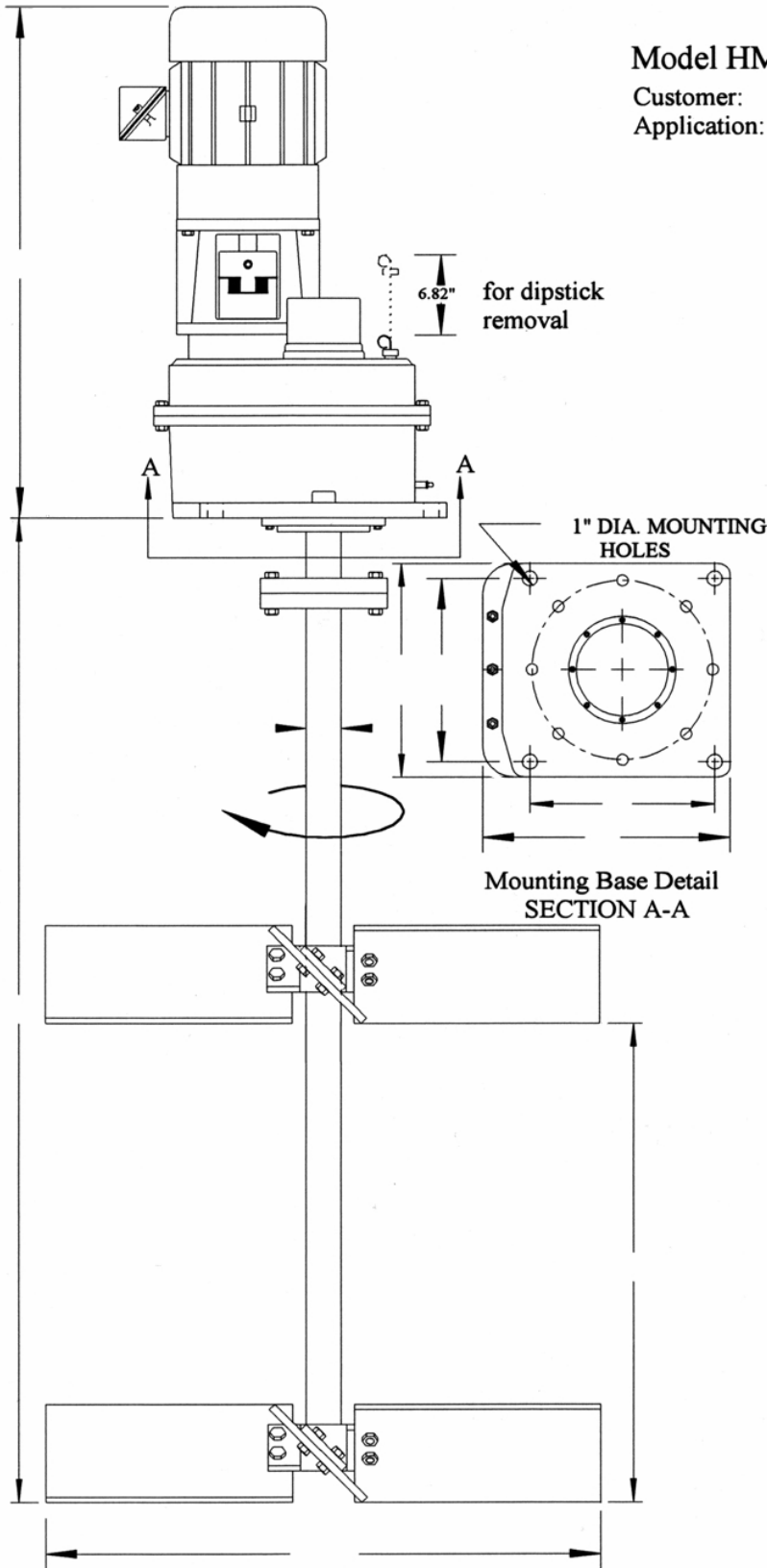
POWER CONSUMPTION AND ADDITIONAL DATA

Power Consumption at Impeller Shaft:	1.40 HP
Power Consumption at Motor Shaft:	1.56 HP
Transmission Efficiency	90.0%
Torque per unit volume	548.0 Lb.-In./ 1000Gallons
Mixer Output Speed	68.0 RPM



Model HMX Appcor Mixer

Customer:
Application:



MODEL NO.:
RPM:
WEIGHT:

MOTOR DATA:
Manufacturer:
RPM:
Type:
By:

TANK DATA:

Size:
Top:
Bottom:

BAFFLE RECOMMENDATIONS:

Number:
Spacing, Degrees Apart:
Width:
Off-Wall Clearance:

NOTES: