



QPEC 10' x 10' Propeller Type Agitator in transport QPEC 7' x 7' Skid Mounted Propeller Type Agitators

Applications

Quinn offers a complete line of pilot plant and small commercial-size propeller agitators with specially designed reducer drives for slurry and liquid mixing applications for the mineral, chemical, and other industries. Units with axial flow-type propellers are specifically designed for leaching, dissolution, reactors, reagent conditioning, gas diffusion, storage, and scrubbing processes involving coarse or fine slurries. Vertical turbine mixing and/or pumping impellers are also available for solvent extraction and other solution applications involving thorough mixing with shear action.

Advantages

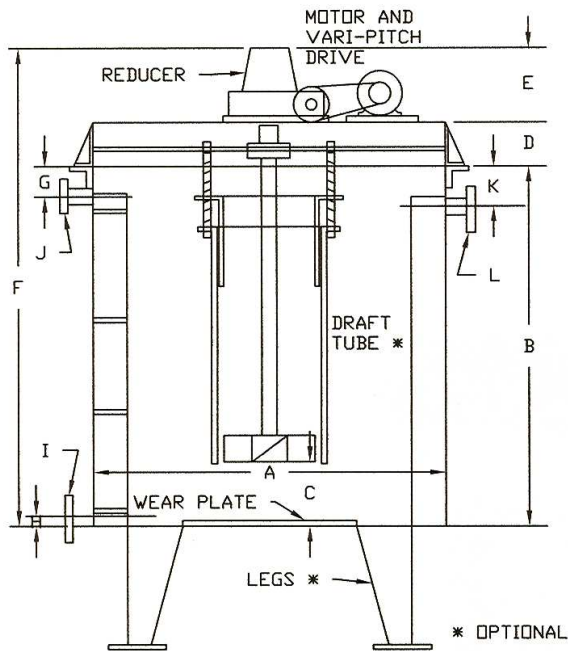
Experienced application engineering - **IMPORTANT FACTOR.**

- Reducers specially designed with "steeples" providing wide spacing between vertical bearings to handle overhung loads. Lower bearing is positioned well above splash level.
- Simple, rugged, highly efficient worm gear drive.
- Heavy duty specially designed output shaft couplings.
- V-belt drive (vari-pitch) optional provides speed ranges to suite applications and protects reducer against overloads. No high speed pinion problems.
- Wide range of axial flow type and vertical turbine propellers.
- Draft tube design available with axial flow propellers.

Propellers and shafts available mild steel, stainless steel, FRP, rubber, neoprene, chlorebutyl, and other alloys and elastomer coverings.

Units available complete with tanks of same materials or linings and superstructures. Mechanism and tanks shipped completely assembled where size permits.

(Dimensions and specifications on reverse side.)



AXIAL FLOW TYPE PROPELLOR SHOWN
VERTICAL TURBINE TYPE ALSO AVAILABLE

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	Hp**
2'X2'	24	24	5	8	10	42	4	1	1½	1½	6	2	1½
3'X3'	36	36	8	8	11	55	5	1½	2	2	7	3	2
4'X4'	48	48	10	10	13	71	5	1½	2	2	7	3	3
5'X5'	60	60	15	10	16	86	6'	1½	3	3	8	4	5
6'X6'	72	72	18	12	19	103	6'	1½	3	3	8	4	7½
7'X7'	84	84	21	12	20	116	6'	2¼	4	4	8	5	10
8'X8'	96	96	24	14	24	134	6'	2¼	4	4	8	5	15
9'X9'	108	108	25	14	28	150	8	2¼	4	6	10	8	15
10'X10'	120	120	27	14	28	162	8	2¼	4	6	10	8	20

**HORSEPOWER BASED ON - 65 MESH
2.7 S.G. NORMAL SETTLING SLURRIES
AT 30% SOLIDS

Specifications

Sizes: As shown on drawing. Special sizes available to suit.

Duty: All sizes available with light, medium, and heavy duty mechanisms.

Reducers: Simple, highly efficient, enclosed running-in-oil specially designed with "steep" type vertical bearing assembly.

Coupling: Output shaft coupling of bolted flanged design.

Propeller: Wide range axial flow or turbine type - mild steel, stainless steel, or other alloys; rubber, neoprene, chlorebutyl, or other elastomer coverings over steel; FRP (fiberglass reinforced polyester resin).

Shafts: Available materials as indicated above - attached to propeller by Acme thread, set screws/keys, weldment, etc., to suit size application and materials of construction.

V-Belt Drive: Designed to permit reasonable increase or decrease in speed by changing motor sheave - vari-pitch sheaver available.

Drive Guards: OSHA type solid steel.

Motors: Source is major manufacturers - standard is TEFC, explosion proof available - 3 phase, 60 Hertz, 230/460 Volt.

Tanks: Available mild steel, alloy steels, FRP, elastomers, materials as stated above. Baffles bottom wear plates; flanged, nipples, couplings as required for inlets, outlets, drains, etc., loose or gasketed covers available to suit, Tank support legs optional. Rustoleum primer and enamel green paint finish is standard.

Assembly: All units completely assembled and shipped as a unit (where possible).