

# CYANIDING

## ▶ Double-impeller Leaching Agitation Tank

### Principle

Dragged and agitated by the double impellers, the slurry flows from the top to the bottom, spreads through the damping plate, blends with air at the bottom of the shaft with upward circulation, and finally turns to be suspension mixture.

### Features

Smooth ore current movement, even slurry mixture, and low dynamic consumption.

The air gets into the tank through the hollow shaft transmission, and spreads on average by the rotation of the impeller.

Compact structure and easy maintenance.

The impeller has rubber liner with low circle speed and long service life.

This machine is produced with technology imported from America.

With multi air feeding for the inflation system.



### Application

This series agitation tank is used for the agitation, leaching and carbon adsorption in the gold cyanidation plant with more than 90% of slurry with the particle size of -200 meshes and the concentration of less than 45%. It can also be used for mixing, agitation and leaching operation in such industries as metallurgy, chemical industry, and light industry under corresponding conditions.

### Technical Parameters

Model	Tank Spec. (D × H) (mm)	Effective Volume (m <sup>3</sup> )	Rotating Speed of Impeller (r/min)	Diameter of Impeller (mm)	Motor Model	Motor Power (kW)	Reducer Model	Tank Weight (kg)	Total Weight (kg)
SJ2.0 × 2.5	2000 × 2500	7.07	52	909	Y100L1-4	2.2	XLD2.2-4-29	1609	2144
SJ2.5 × 2.5	2500 × 2500	10.8	43	935	Y112M-4	4	XLD4-5-35	2159	2729
SJ2.5 × 3.15	2500 × 3150	13.92	52	935	Y100L1-4	2.2	XLD2.2-4-29	2398	3095
SJ3.0 × 3.0	3000 × 3000	19	43	1130	Y112M-4	4	XLD4-5-35	3480	4583
SJ3 × 3.15	3000 × 3150	20						3480	4160.6
SJ3 × 3.5	3000 × 3500	22.97		3211				4334.6	
SJ3.15 × 3.55	3150 × 3550	25.73		3433.5				4322.8	
SJ3.5 × 3.5	3500 × 3500	31.3	52	1310	Y132S-4	5.5	XLD5.5-5-29	3480	5025
SJ3.5 × 4	3500 × 4000	35.6						4230	5429
SJ3.55 × 4.0	3550 × 4000	36.8	43	1310	Y112M-4	4	XLD4-5-35	4260	5025
SJ3.7 × 4.2	3700 × 4200	42						5266	6153
SJ4.0 × 4.5	4000 × 4500	52.78	35	1750	Y132M-4	7.5	XLD7.5-7-43	6397	7569
SJ4.0 × 6	4000 × 6000	71	33	1750	Y160M-4	11	GRF137-Y11-4P-44.65-M4	7681	9200
SJ4.5 × 5.0	4500 × 5000	74.75	35	1750	Y132M-4	7.5	XLD7.5-7-43	8614	10864
SJ5.0 × 5.6	5000 × 5600	104.5	31	2046	Y160M-4	11	XLD11-8-47	8740	14291
SJ5.5 × 6.0	5500 × 6000	135.42		2100	12467			18745	
SJ6.5 × 7.0	6500 × 7000	215	21	2400	Y180L-4	22	GRF147-Y22-4P-70.87	17890	25978
SJ7.0 × 7.5	7000 × 7500	269		2400	Y200L2-6	22	XLD22-10-47	20505	29030
SJ7.5 × 8.0	7500 × 8000	331	23	2900	Y200L2-6	22	BLD7-43-22L	22552	32796
SJ8.0 × 8.5	8000 × 8500	402	18.5	3300	Y250M-8	30	TPS315-3F	30559.5	42467.3
SJ8.5 × 9.0	8500 × 9000	480	18.5	3300	Y250M-8	30	TPS315-3F	34130	46623