

## ▶ Carbon-lifting Pump

### Technical Parameters

Model	Head (m)	Flow (m <sup>3</sup> /h)	Rotating Speed of Main Shaft (r/min)	Diameter of Discharge Pipe (mm)	Motor Model	Motor Power (kW)	Weight (kg)	Remarks
TB-3	3	5.76	516	50	Y100L1-4	2.2	630	Type 50I
TB-7	7		817		Y112M-4	4	640	Type 50II

## ▶ Carbon Screen

### Technical Parameters

Model	Diameter of Screen Frame (mm)	Length of Screen Frame (mm)	Sieve Size/ Mesh	Weight (kg)
SY100	100	1000	28	10
SY125	125	1000	28	13
SY200	150	1000	28	14
SY250	200	1000	28	16
SY300	300	1000	32	24
SY500	500	1000	32	35

## ▶ High-Efficiency Low-consumption Rapid-desorption Electrowinning System

### Principle

Add some anion more easily absorbed by activated carbon to replace  $\text{Au}(\text{CN})_2^-$  and realize the desorption of gold. The pregnant solution from desorption of gold loaded carbon will be recycled by the ionization method, so as to get the solid gold.

### Features

High temperature, high pressure, cyanide-free desorption, automatic control, high efficiency, low energy consumption, and fast operation;

High efficiency: When the grade of the gold loaded carbon reaches 3000g/t, the desorption rate can reach above 96%. The grade of barren carbon can be reduced by 3-4 times than that of the conventional desorption electrolysis device.

Rapid: The temperature of the desorption electrolysis can reach 150°C (30-55°C higher than that of other models at the first stage), and the working pressure of the system can reach 0.5(MPa) (0.2-0.5(MPa) higher than that of other models at the first stage). Therefore, the time for desorption electrolysis is very soon, which is generally 12 hours, with nearly 3 times shortened.

Low consumption: The temperature of desorption electrolysis is the same with no need to heat. As the operation is fast, the total power consumption is 1/2-1/4 of the conventional system.

Cyanide-free: No sodium cyanide is added for desorption electrolysis to realize low costs and no pollution.

High grade of all slime without anti electrolysis with easy extraction of gold mud.

Automatic control: Specially set liquid level control system, temperature control system and automatic control system.

Safe: With triple safety protection measures, namely, self intelligent system, automatic pressure limiting and release system and safety valve.

