

LS系列实验室篮式砂磨分散机

产品名称	LS系列实验室篮式砂磨分散机
公司名称	张家港市通惠化工机械有限公司
价格	.00/个
规格参数	品牌:通惠 型号:多种 适用物料:油漆
公司地址	中国 江苏 张家港市 欧洲工业园
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产品详情

品牌	通惠	型号	多种
适用物料	油漆	应用领域	化工
主电机功率	实际 (kW)	送料能力	实际 (L/min)
生产能力	实际 (kg/h)	外形尺寸	实际 (m)
重量	实际 (kg)	结构形式	立式
类型	篮式砂磨机		

sj900double shaft agitator

operational instruction

zhangjiagang city tonghui chemical co. , ltd

.brief introudction

sj900 double shaft agitator is new type high effectiveness stirring equipment, suitable to stir the materials with high viscosity. it is pioneer machine in china.

there are high speed shaft and low speed shaft in the machine. the stirring device in the low speed makes the material to overturn up and down in cylinder. the gear type vanes at high speed shaft bumps to and cuts the overturned materials in cylinder so as that the gathering body is broken quickly, mixed uniformly and solves quickly.

the foreign and domestic advanced frequency changeable speed adjustment device is prepared for this machine. you can select the best stirring rotation speed according to the material characteristic.

.main parameter

high speed motor: 22kw

low speed motor: 22kw, mated with bld15-11-22 reductor

dispersing vane diameter: 280 mm

stirring device diameter: 960 mm

high speed shaft rotation speed: 0~1,450 rpm

low speed shaft rotation speed: 0~120 rpm

mix. lifting stroke: 1000mm

net volume of cylinder: 550 liter

gear oil pump: cb-b 40 liter/min

oil pump motor: 2.2 kw

vacuum level: > -0.08 mpa

installation control height: $< 4,200$ mm

total weight of main machine: 3,000 kg

overall size (l w h): 2,580 mm 1,100 mm 3,100 mm

vacuum pump: xd-040

.structure and performance

structure: this machine consists of eight parts: hydraulic lifting, driven box, high & low stirring shafts, clamping device, stirring cylinder, hydraulic system, electric control box, frequency changeable speed adjustment device.

performance:

the vertical shaft lift and falls stably and flexibly with an overflow protection device, which is safe and reliable with easy operation and good sealing.

in driven box, the low speed shaft is driven by reductor bringing up the main action wheel, which brings up the follower wheel through belt. the high speed shaft is linked with motor directly with smooth, stable and reliable drive and the compact structure.

main driven system runs stable and smooth with low noise, compliance with the environmental protection standard.

the gear pump is equipped for the hydraulic system with good driving performance in hydraulic system.

the electric control box adopts the new products:cj20 andcj10 high quality electrical elements with compact structure, reasonable layout. the insulation resistance is not less than 2m . the frequency changeable speed adjustment device is jointed with control box board as one body,all control buttons are fixed on pallet with easy operation and beautiful appearance.

.installation and commissioning

installation

there should be pre-moded holes and embedded foot bolts 6-m20 400(80mm higher than the ground level) for equipment foundation, refer to foundation size drawing for details.

the main machine installing vertical shaft should be vertical to the ground surface.

oil tankinstallation

the oil tankof this machine has explosion protective function, which can locate at the explosion protective zone.

()commissioning

clean out the oil tank, pour into 32#machinery oil to the 2/3 of oil mark height of upper piastic.

check the clamping mechanism and cylinder whether they are are clamped tightly.

check whether the v-belt is tight properly.

commissioning

turn on power,press the lifting (pump motor) button, loose the air discharge valve screw,after drain away the air in cylinder, screw it tightly, adjust the overflow valve to the oil pressure 18kgf/cm2(1.765mpa).

press the lifting button to make the cylinder to lift to mix. stroke,then stop the machine and check the oil position of oil tank is not lower half of plastic oil mark height. or,supplement the oil.meanwhile, check whether alllinked part positions and sealing positions haveleakage. press the falling button(magnetic slide valve),make the cylinder body falling down to the lowest position.

after the stirring cylinder is alined to middle, adjust the adjustable screw in clamping device.

.use and maintenance

(i)use

turn on power, check whether all switches in control box, indicating lamps button and voltage run well.

clamp the stirring cylinder, make the clamping stroke closing, turn on the second power source, select the frequency conversion running or line frequency running, press the button according to indicating plate. then, you can operate machine.

if the frequency conversion is required to run, please turn on the conversion power when the motor is under stopping conditions, adjust the cycle to the required frequency.

frequency	60	50	40	30	20	10
low speed(r/min)	144	120	96	72	48	24

during operation, you should always pay attention to current. if the current is overloaded running, please stop machine to check cause, after drain out the fault, the machine can go on to run.

in normal operation or production or commissioning, you should thrust the material firstly, after the low speed vane is immersed into material, you can start the low speed shaft with low speed rotation. meanwhile, add the same body of material slowly. after finish to add the material, you can adjust the speed to the high speed and start the high speed shaft and return button.

in normal operation, the material cylinder has 0.7 factor for material loading, i.e. the height of material loading is 490mm.

during operation, if the power is cut for too long time, the material temperature falls down to normal temperature and its viscosity is increased. maybe, due to other cases such as solid content increasing, high viscosity, overload, the machine can't start, you can lift the stirring vane over the liquid level, then start the low speed shaft with low speed, finally make the vertical shaft falling down slowly (by manual). when the dispersing vane immerses under liquid level, you can start high speed shaft. in this time, the stirred material temperature rises and the viscosity falls down, it can reach the normal operation target. the operation time can't be too long, in case the solvent agent is volatilized.

after finish working and stop to use, please cut down general switch, in case the machine is damaged.

() maintenance

normally add the lubricating oil to all driving parts. for high speed driven shaft, add mos2-2(2# lithium base lubricating grease) one time every week. for low speed driven shaft, add zl45-2(2# lithium base lubricating grease), change the grease each half year.

for oil tank, adopt 32# machinery oil, change oil each half year and clean up the oil tank. each month, clean up the filter screen. after change oil again, clean up one time within two or three days.

for the ac contactor, check one time each half year. after the equipment is used continuously for one year, make an overhaul.

if the equipment is not used for long time, you should cut off the power, clean up the whole machine, pour all lubricating places. for main shaft and plunger, guide rod, please paint the oil to prevent from rust.

.rolling bearing list table

no	bearing name	specification	size	qty	used place
1	single row angular contact ball bearing	d36215,gb292-64	60 130 31	2	high speed driven shaft
2	single row angular contact ball bearing	217,gb292-64	70 150 35	2	low speed driven shaft
3	single row angular contact ball bearing	309,gb292-64	45 100 25	1	driving belt wheel

spare parts list:

no	name	specification	qty	material
1	v-type rubber sealing ring	(a)200 x230 (b)hg4-33t-66	1-3-1assembled into one unit	oil proof rubber 1-1
2	o type sealing ring	d240 x5.7 gb1235-76	2	oil proof rubber 1-1
3	oil seal felt ring	200fji145-79	1	oil proof rubber 1-1
4	v-type rubber belt	d4500mm	6	curtain cloth
5	dispersing vane	250mm	1	1cr18n9ti
6	assembled valve	zhf-15	1	
7	mechanical sealing	152-60 212-70	1	