



液压冲击锤 Hydraulic Impact Hammer

专业打桩锤制造商

Professional Pile Driver Manufacturer

通过ISO9001国际质量体系认证

CERTIFIED BY ISO9001 INTERNATIONAL QUALITY MANAGEMENT SYSTEM

公司简介

永安机械是专业打桩锤制造商。公司始建于1986年，经过27年的壮大发展它已经占有中国70%的市场，并远销中东，东南亚，俄国，南美和非洲等国家地区。公司已成为中国桩工制造领军企业。

永安的打桩锤系列产品包括：

电动振动锤

液压振动锤

液压冲击锤

挖掘机振动锤

市场导向是我们的理念，我们在广东、上海、黑龙江、武汉和印度尼西亚等地均设有办事处，以便更好地服务于我们的客户。我们的目标是将永安建设成世界一流的打桩锤制造商。



COMPANY PROFILE

Yong'an Machinery Co., Ltd, one of the most professional piling equipment manufactures in China. It was established in 1986, after 27 years of development, our products take up to 70% of the whole China market and export to Middle East, Southeast Asia, Russia, North America, and Africa countries. It becomes the leading company in piling equipment industry.

Yong'an pile equipment series include:

Electric vibratory hammer,

Hydraulic vibratory hammer,

Hydraulic impact hammer,

Excavator mounted vibratory hammer.

Market-oriented is our principle, we have set up offices in Guangdong, Shanghai, Heilongjiang, Wuhan and Indonesia to offer efficient and best service to our customers.

Our goal is to build "Yong'an" as a global first-class brand in piling engineering machines.



产品特点 Product Feature

高能量效率和传递

由于锤体的高效化设计和缓冲垫的安放，锤头传递到桩头上的打击能量的损失大大减少，工作的效率得以最大化。通过蓄压器系统，实现锤头下落中的加速和能耗补偿。

PROMINENT ENERGY TRANSFERRING RATE

With the help of efficient design of hammer body and the cushion arrangement, impact energy transferred with lower energy loss.

That means the job efficiency can be maximized.

Equipped with Pressure Accumulator system, which could quicken the drop and compensate the energy loss during ram drop



打桩频率高，有锤头行程精确控制功能

快速打桩时可以使用高频打桩；也可以启用远程控制系统，控制稳定的锤头行程,实现精确打桩。这些功能对于防止锤头突然不稳定高度运动造成的故障极为重要。

一旦出现软基的情况，便进行轻微插桩打击，从而保护起重机或打桩机的安全。

HIGH BLOW RATE & PRECISE RAM STROKE MOVEMENT ABILITY

High blow rate is effective for fast pile driving; remote control system could also function for stable ram stroke controlling. Accuracy pile driving without failure is very important for avoiding breakdown due to sudden unstable ram height movement.

In case of soft driving condition, small pitching pile driving is operated, that could prevent sudden pile drop to the ground, thus suspended crane or piling rig is safe.



简易化设计

采用简易化设计理念，使得操作维护和机械修理两方面都容易操作。采用用户化设计的遥控装置使得操作也简单易行。

SIMPLICITY IN DESIGN

The adoption of simple design principle allows easy maintenance and quick trouble shooting for operators. Together, easy operation could be realized with user-friendly remote control.

高可靠性

永安液压打桩锤按照长寿命，故障最小化设计制造。电气和液压系统及油管电缆联轴器等相关附件均采用精准设计加工，以确保系统可靠。永安打桩锤只选用高品质易损件，以确保备件使用寿命，从而降低客户的使用成本。

LONG-TERM RELIABILITY

Yongan hydraulic pile hammers are designed and manufactured for long life service with minimal downtime. Precise workmanship is adopted to electric and hydraulic system including hoses, cables, couplings and other related parts, thus the whole system is reliable.

All Yongan hammer choose only qualified consumable parts to assure the long life time of the parts. Thus customer can save the cost from consumable parts.



性能优越的动力站

永安液压冲击锤采用卡特或沃尔沃发动机，配上意大利品牌液压泵，辅以简单易懂的液压及电路操作系统，使得动力站表现出良好的整体性能。

HIGH PERFORMANCE POWER PACK

Yongan Hydraulic Impact Hammer use Volvo or Cat engine, after being equipped with the Italian brand powerful pump, and adopting the simple hydraulic and electrical system, the power pack thus could performed high quality as a whole.



动力站冷却系统

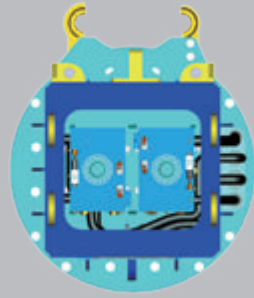
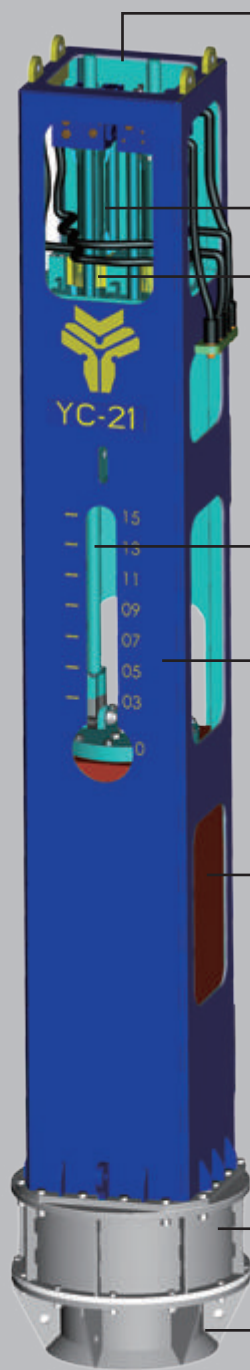
大容量冷却系统确保了液压系统能够高效稳定地工作。即使冲击锤长时间连续工作也不会出现严重的过热问题。

COOLING SYSTEM OF THE POWER PACK

High capacity cooling system assure the stable and high efficiency of the hydraulic system. And no overheat problem even after long continued working.



结构 Structure



俯视图
Top View

液压油缸
Hydraulic Cylinder

蓄压器 Accumulator

调节压力高低，降低反冲力，并可控制锤体以130%自由加速度下落。

It functions high and low pressure. It reduces the shock pressure, and control the ram to drop in a speed 130% of free acceleration.

活塞杆
Piston rod

锤体行程 Ram stroke range

操作人员可以看到锤头落下的高度，并通过遥控器实时调整。
Operator can see ram drop height easily and can adjust ram stroke height during pile driving through remote control box.

锤体 Ram

锤体由一个或多个锤体部件构成，出厂前经过严格的物理和化学测试。

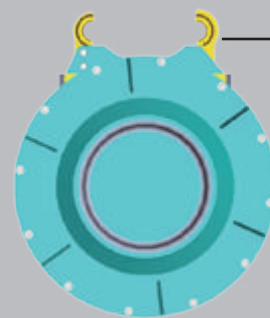
It is comprised of one or more ram segments and stands complicated physical and chemical tests before application.

管帽 Drive Cap

缓冲垫内置于管帽内，能够有效保护打桩锤整体结构，降低噪音。

All the cushions are inserted in it. They could protect the hammer structure, components and piles, reducing the noisy.

桩帽
Pile Cap



导向架抓轨
Leader Claw

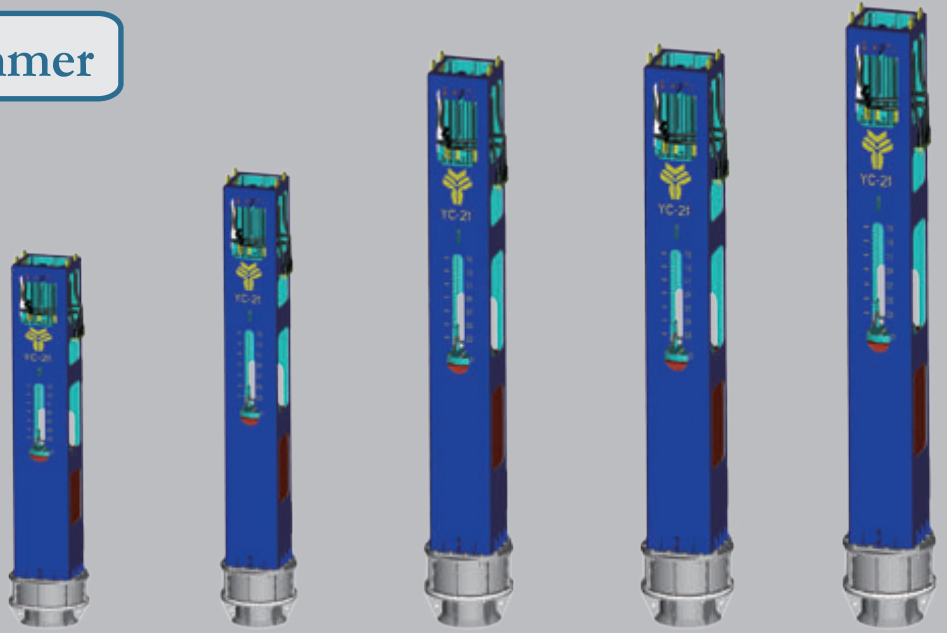
仰视图
Upward View

技术参数 Technical Data

冲击锤 Impact Hammer

单缸提升

Single hydraulic
cylinder lifting



型号 Model	YC-3	YC-5	YC-8	YC-11	YC-15
冲击能量 (KNm) Impact energy	24	60	120	165	225
工作行程 (mm) Working stroke	800	1200	1500	1500	1500
冲击频率 (mm) Impact frequency	50/100	40/100	38/90	38/90	35/90
锤体质量 (Kg) Ram Weight	3000	5000	8000	11000	15000

锤体 Hammer					
长 Length (mm)	4020	5150	6500	6650	7050
宽 Width (mm)	900	900	950	976	1052
高 Height (mm)	900	900	950	976	1052
重量 weight (kg)	5800	8500	12000	16000	22000

桩帽 Pile cap					
长*宽*高 L*W*H (mm)	895*895*745	895*895*745	920*920*800	976*976*1010	1260*1200*1050
重量 weight (kg)	1100	1100	1250	1380	2100

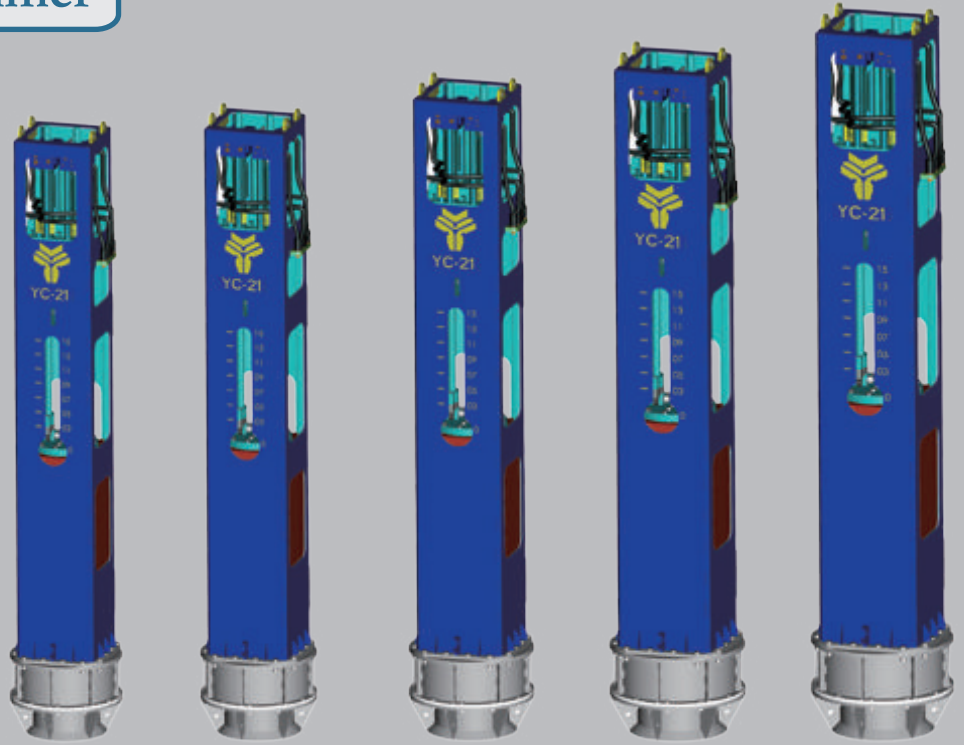
适配动力站 Advised Power Pack	120P	180P	260P	325P	400P
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*其它重量的锤体可依据客户需求定制。Other ram weight can be provided upon request.

*因技术改进和工程发展的需要，我们保留在未告知客户的情况下自主更改技术参数及其它细节的权利。

We reserve the right to make modifications of specifications without pre-notice due to technical improvement and engineering progress.

冲击锤 Impact Hammer



双缸提升

Double hydraulic
cylinder lifting

型号 Model	YC-17	YC-21	YC-25	YC-30	YC-35
冲击能量 (KNm) Impact energy	255	315	375	450	525
工作行程 (mm) Working stroke	1500	1500	1500	1500	1500
冲击频率 (mm) Impact frequency	35/90	30/90	28/85	25/70	25/70
锤体质量 (Kg) Ram Weight	17000	21000	25000	30000	35000

锤体 Hammer					
长 Length (mm)	7160	7188	7638	7900	8500
宽 Width (mm)	1106	1260	1300	1460	1460
高 Height (mm)	1106	1260	1300	1900	1900
重量 weight (kg)	24000	31000	36000	41000	47000

桩帽 Pile cap					
长*宽*高 L*W*H (mm)	1260*1260*1050	1500*1500*1080	Custom made upon request		
重量 weight (kg)	2100	2350	Custom made upon request		

适配动力站 Advised Power Pack	550P	600P	900P	1000P	1200P
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*其它重量的锤体可依据客户需求定制。Other ram weight can be provided upon request.

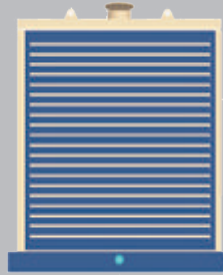
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动力站 Power Pack



动力站型号 Power Pack Model	120P	180P	260P	325P	400P
发动机型号 Engine Model	4BT3.9C120	6BTA5.9 C180	6CTA8.3 C260	6LTA8.9 C325	NT855 C360
发动机功率(P) Engine power	120	180	260	325	400
系统压力(Mpa) System pressure	21	24	24	24	24
工作流量(L) Work flow	140	200	260	380	550
液油容积(L) The volume of the liquid oil	400	800	1200	1400	1800
燃油容积(L) Fuel tank capacity	260	400	500	500	500
长*宽*高 L*W*H (mm)	2800*1450*1650	3100*1450*1650	3600*1500*1750	4200*1550*1850	4300*1650*2050
重量 weight (kg)	3000	3500	4200	5200	5800



动力站型号 Power Pack Model	550P	600P	900P	1000P	1200P
发动机型号 Engine Model	KTA19 C525	KTA19 C600	QSKTAA19 C755	QSKTAA19 C755	KTA38-1200
发动机功率(P) Engine power	550	600	900	900	1200
系统压力(Mpa) System pressure	24	24	24	24	24
工作流量(L) Work flow	680	760	910	910	1100
液油容积(L) The volume of the liquid oil	2000	2000	2200	2200	2300
燃油容积(L) Fuel tank capacity	600	600	700	700	800
长*宽*高 L*W*H (mm)	4300*1650*2050	4500*1740*2240	5000*1850*2400	5000*1850*2400	5000*1950*2400
重量 weight (kg)	6000	7800	10800	10800	12000

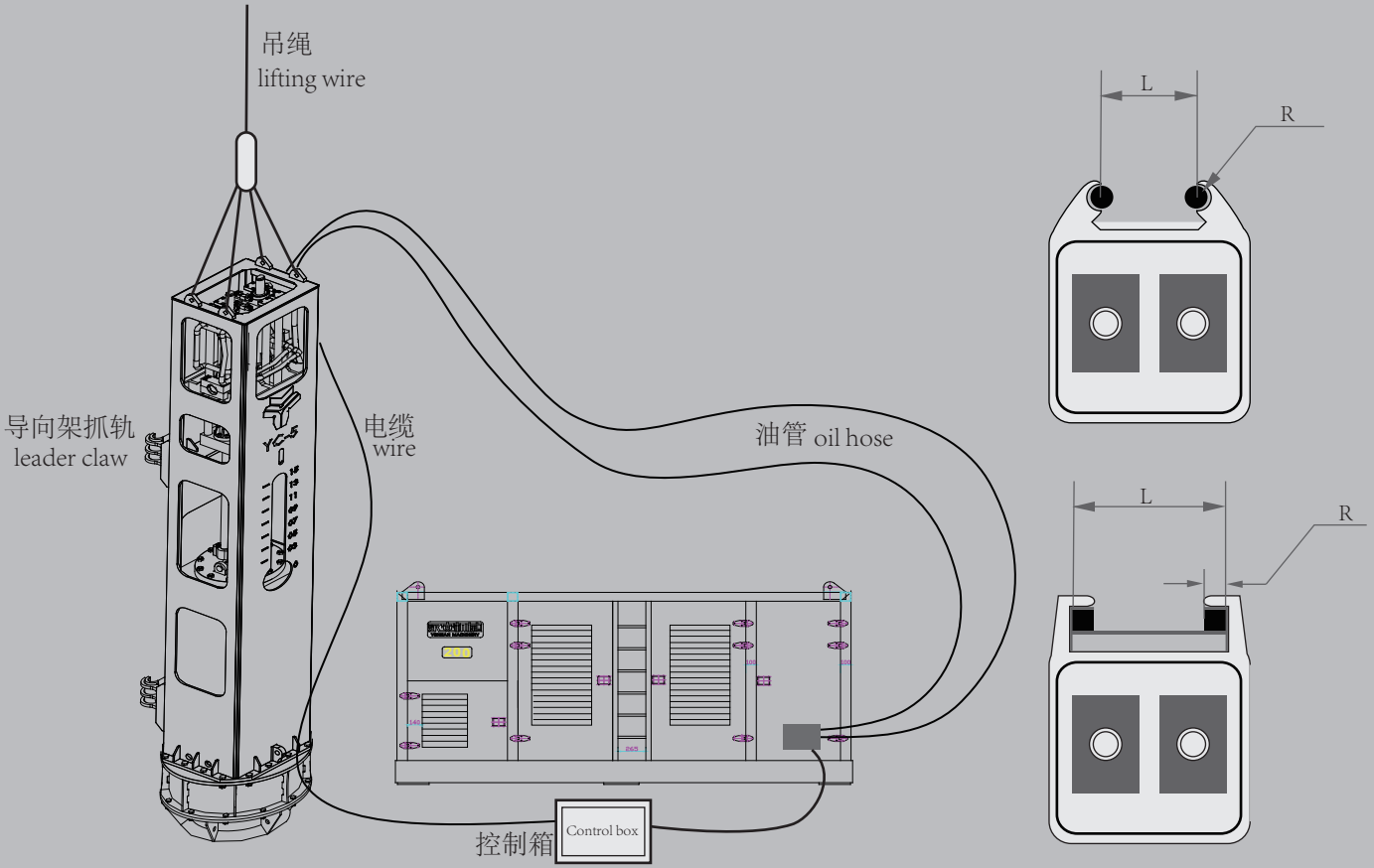
应用类型 Application Type

永安打桩锤可采用固定导轨式（圆柱形和四方形），起重机悬吊式，海上导轨式，U型架等形式不仅可以用于陆上和海上打桩工况，斜桩、水下5米内打桩、动力冲击、打板桩等都可以适用。

Fixed Leader Type (Round Shape and Square Type), Crane Suspended Type, Offshore Leader Type, U-Type Leads and others can be available.

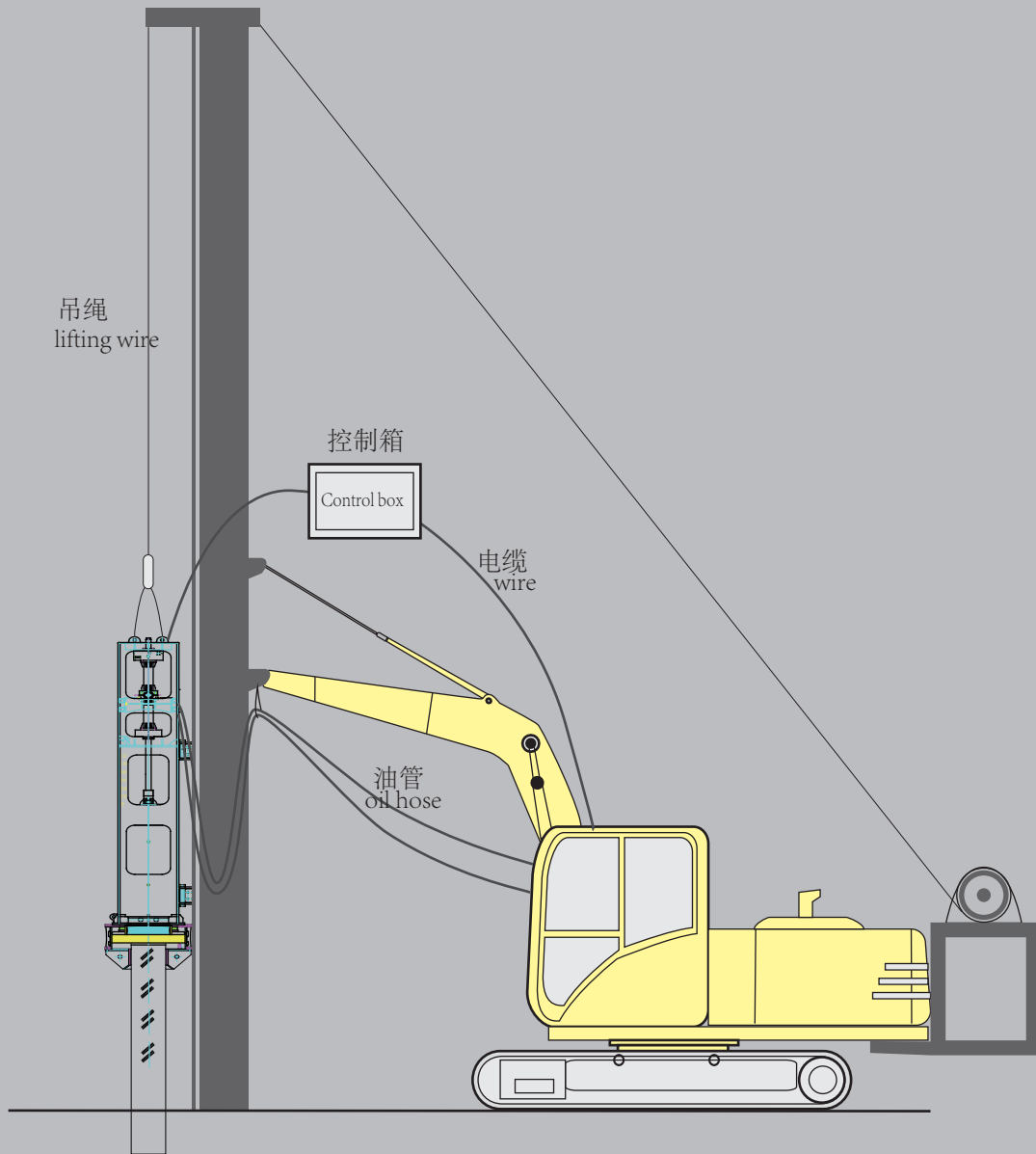
Not only onshore and offshore pile driving conditions, but also batter piles and under water (above 5m) and sheet piling are applicable.

起重机 With Crane & 导向架 Leader Guide



固定导向架类型 Fix leader guide type	L尺寸 (mm) L	R尺寸 (mm) R
圆形 round	330	70
	600	101
方形 square	500	60
	600	80
	600	100
	700	120

挖掘机 Excavator



冲击锤型号 Impact Hammer Model	YC-3	YC-5	YC-8
适配挖机 Suitable Excavator			
适配挖机重量 (Ton) Excavator Weight	25	35	40
工作油流量 (Lpm) Required oil flow	100	150	230
操作压力 (bar) Required setting pressure	280	280	280
操作电压 (Volt) Required power voltage	24	24	24
油管尺寸 Hose size			
进油管 (Inch) Supply hose	3/4	3/4	1
回油管 (Inch) Return hose	1	1-1/4	1-1/4



永安机械
YONGAN MACHINERY

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