

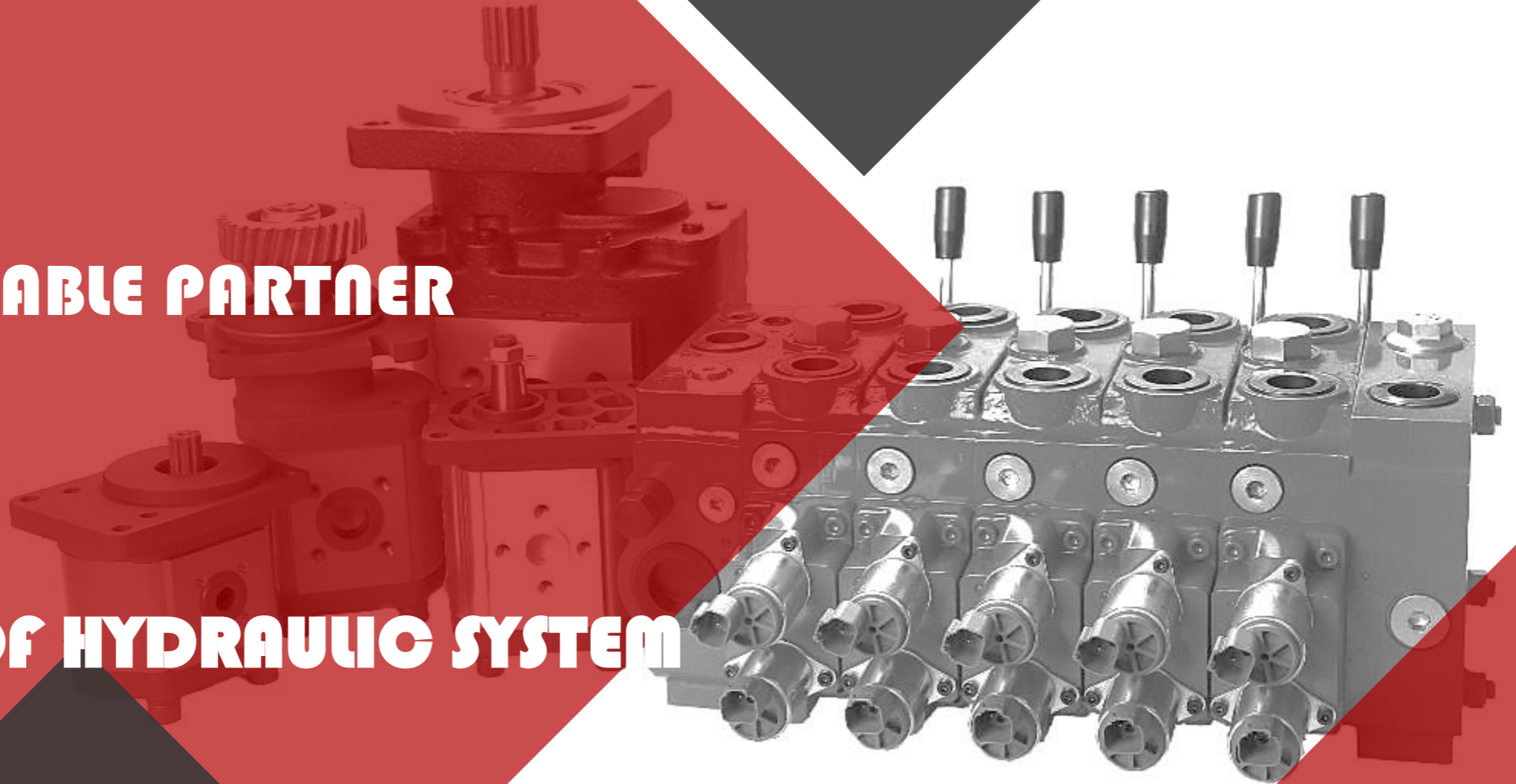


GRH

YOUR RELIABLE PARTNER

@2020

SUPPLIER OF HYDRAULIC SYSTEM





WHAT GRH CAN OFFER

WHO IS GRH

WHY CHOOSE GRH

GRH EXISTENCE IN SCISSOR & BOOM

GRH Valves—used in construction & agricultural machinery



Flow range	25~200 l/min
Drive by	Manual/ Electric/ Hydraulic



Monoblock valve



Sectional valve



Load sensing proportional valve



Road Roller



Harvester

Manifolds for tunnel boring machine



Manifolds for tunnel boring machine



GRH-load sensing proportional valve



GRH Gear pump/gear motor/mini power packs



External Gear Pumps

Gear pump



Gear Motors

Gear motor



Hydraulic Power Stations

Mini power pack

GRH – orbital motor/mini power pack /flow divider



Orbit Motors

Orbital motor



Hydraulic Power Units

Mini power packs



Flow Dividers

Flow divider

Manifolds for TBM Lovat



GRH flow control valve



Flow range	25~200 l/min
Drive by	Manual/ Electric/ Hydraulic



Flow control valve
electro hydro control



Flow control valve by manual



Orbital motor



Equivalent Danfoss & Charlynn series

Disp. Range	8cc~745 cc/r
Speed Range	100~1500 r/min
Torque Range	55~680 Nm
Power Range	5~16 KW

GRH Gear pump



Flow control valve	0.16~199 cc/r
Speed range	500~4000 r/min
Pressure range	120~250 bar



GRH mini power packs



Power	4 kW	Flow	30 L
Voltage	AC380/ DC72V	Pressure	250 bar



Mini power pack

EHA

GRH mini power packs



Max Power	4 KW	Max Flow	30 L
Max Voltage	AC380/ DC72V	Max Pressure	250 bar



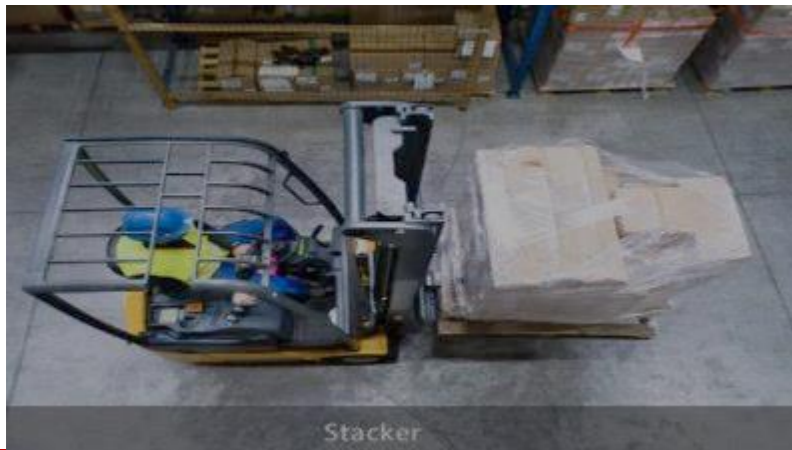
For stacker



For Genie scissor



For XCMG Cranes



Stacker



Scissors Aerial platform



Crane Truck

GRH Flow divider, synchronization



Flow range	1.1~89 cc/r
Pressure range	83~240 bar
accuracy	$\pm 1.5\sim \pm 2.5\%$



8 spools flow divider



2 spools flow divider



GRH gear pump for scissors & booms



GRH gear pump



Flow range	0.16~199 cc/r
Pressure range	160~250 bar
Speed range	500~4500 r/min



Aluminum



Tandem pump



Cast iron pump



Tractor



Seeder

GRH gear pump



Flow range	0.16~199 cc/r
Pressure range	160~250 bar
Speed range	500~4500 r/min



Log splitter pump



Cat Pump



PTO pump



Log Splitter



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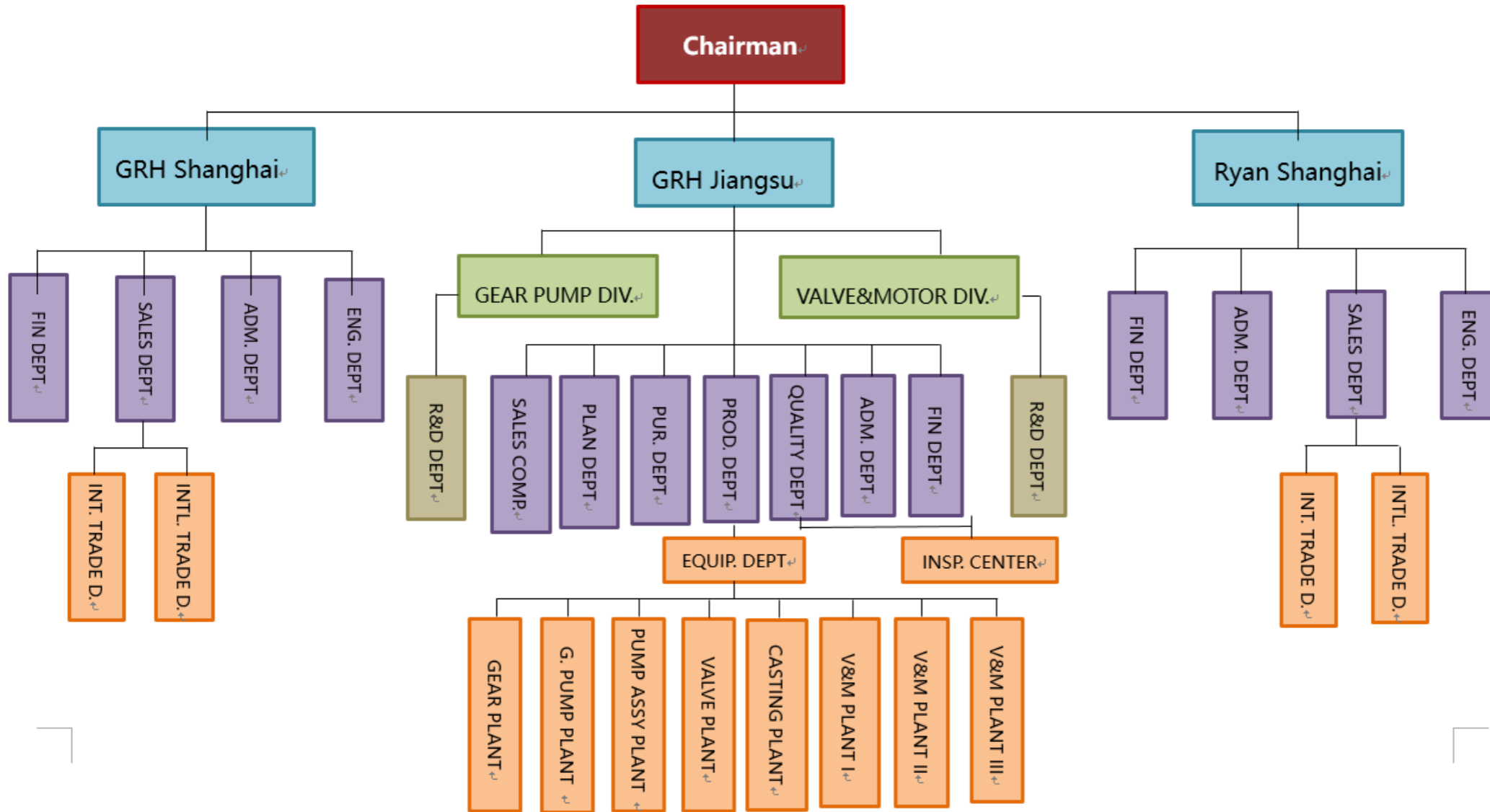


About GRH

- * GRH , established in **1986**
- * employees: **300⁺** , R&D : **39**
- * **9** Product families
- GRH market share:
- exportation: **55%**, **50%** of which exported to Northern American Market.



GRH ORGANIZATION CHART



GRH History



2018



Ryan In Shanghai

2014



Moved to the 3rd Manufacture

2007



GRH in Shanghai

2003



2nd Project of the Factory

2000



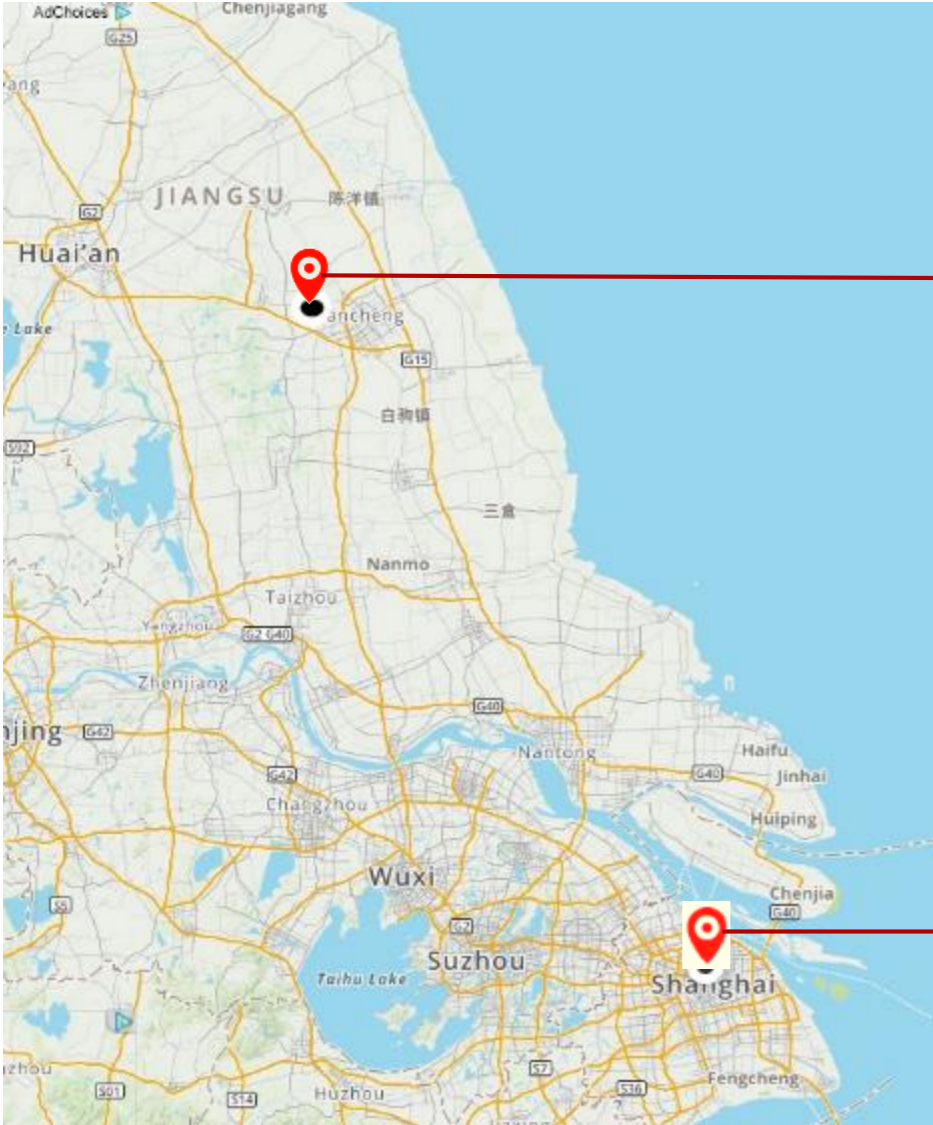
2nd Factory in Industrial Park

1986



GRH Established

GRH manufacture based in Jiangsu Sales office based in Shanghai



3.5 hours drive
To the Manufacture



GRH Facilities



CNC Machine	Performance Test
CNC Machine	Heat treatment



Dust free,
constant
temperatu
re
workshop

CNC Shop



CNC Shop

Auto
Painting
Line



Germany Deburring Machine



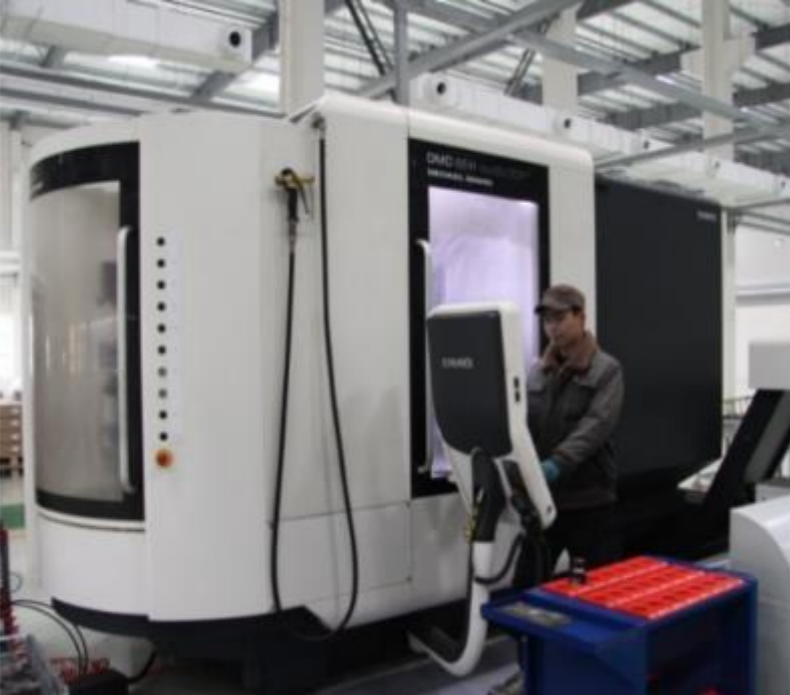
iTEM400 deburring machine



CNC Machine



DMG CNC





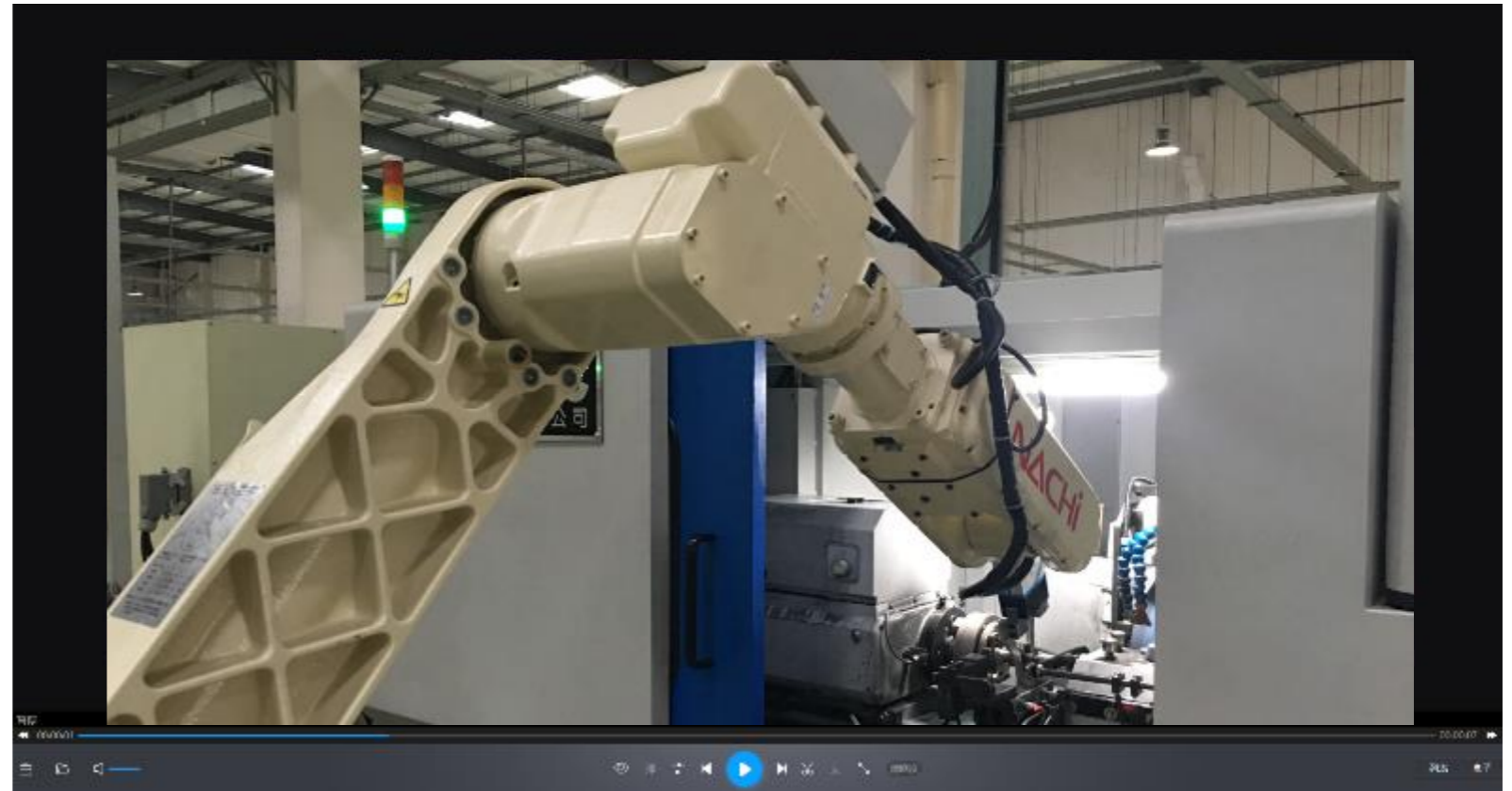
ENGIS Honing





Robot, control 2 CNC machines,
auto inspection system online, auto repair system

1 robot controls 2 CNC machines



Inspection equipment



3-D



Cylindricity Inspection



Particle calculation



Endoscope



Heat treatment



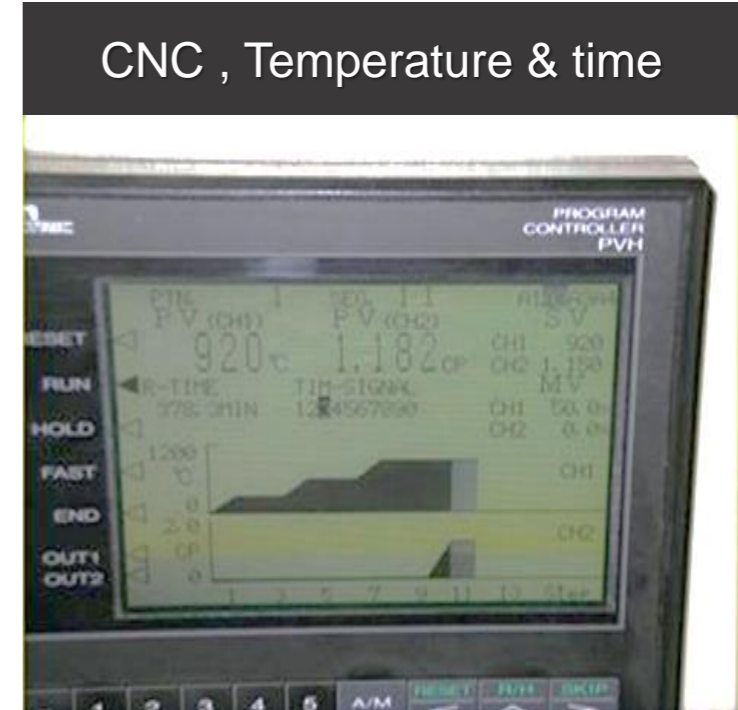
Heat treatment



Key tech-Japan



CNC , Temperature & time



Test Benches



For gear pump gear motor



For orbital motor



For mini power packs



Inspection dimensions



For valves



Air leakage inspection



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R&D Staff **39**



Headed by Chief Engineer Dr. Luo
*received Doctor degree education in the US;
*work with Case for 6 years after education;
*work with Danfoss USA as Chief Engineer in valves for 16 years, in charge of proportional valve and cartridge valve;
*work with GRH in the year of 2008





Manufacture Tech Team headed by Senior Mfg. Expert John Serafin

- *experience of 40 years in valve manufacture;
- * Work with Husco as Chief Mfg Engineer;
- * Work with Danfoss USA as Chief Mfg. Engineer

Focus on QA & QC



Focus on QA & QC



ISO 9001

ISO9001:2015



CE



CE Certificates

Gear Motor

Gear Pump

Hydraulic Valve





CCS

Customers in Agricultural Machinery



Customers in Construction Machinery



Customers in Hydraulic Business



DE GR



Customers in scissors & booms





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About the cooperation with scissors & booms



With Altec, USA



F750



Altec Electricity Maintenance Truck



GRH Gear pump , replacement project of Parker pump



New project of mini power packs and orbital motors are under discussion now.



GRH Gear pump ,
Ready for delivery to
Altec Plant in the
States .

With Zoomlion





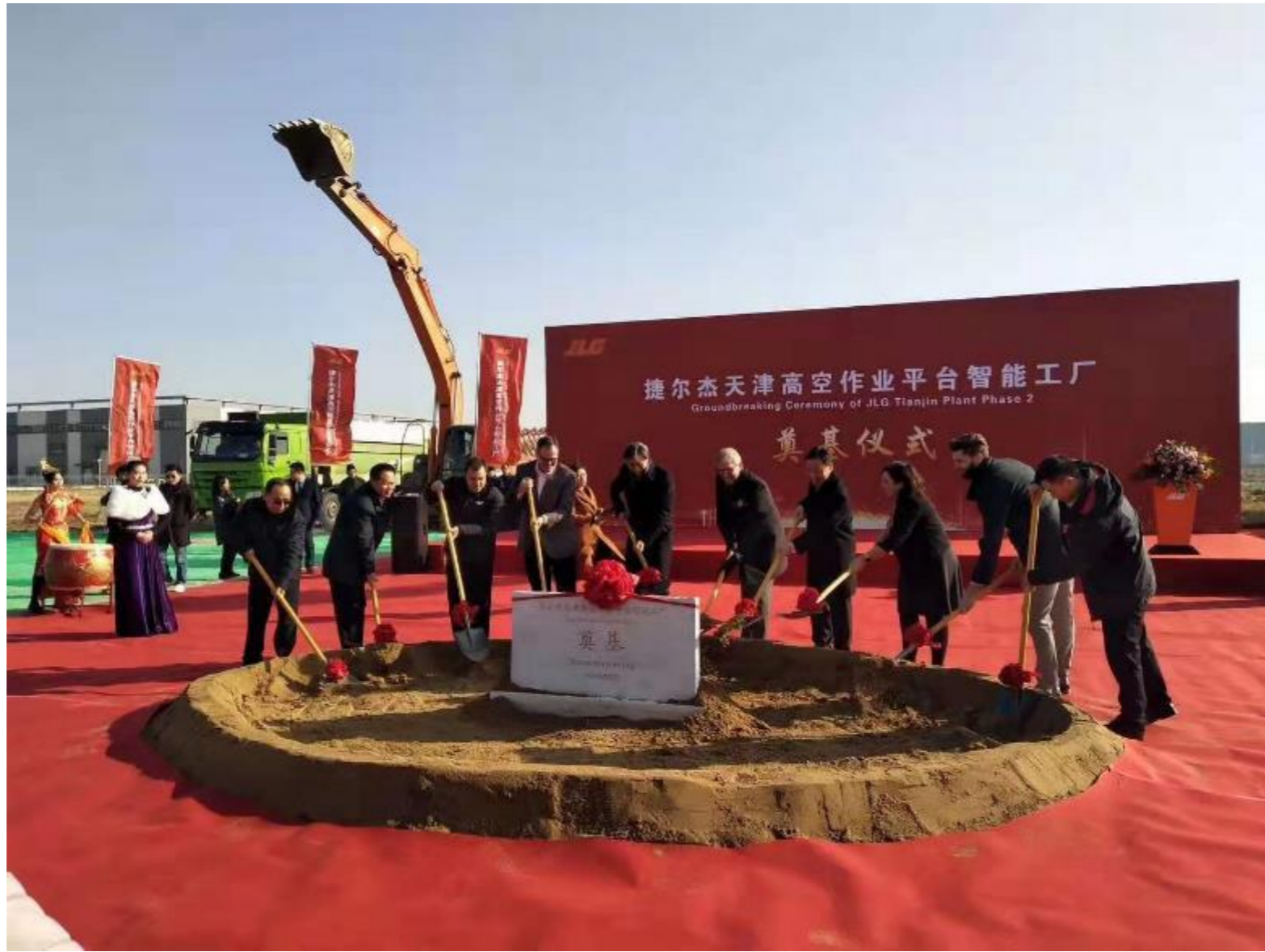
With Zoomlion





JLG imports mini power packs from the US, and tried to find a local supplier here in China. So they asked 3 potential suppliers to offer them mini power packs samples to them for performance test last December, finally by the end of this April, GRH sample has the best performance among Concentric, Bucher. So we are lucky to be selected as their supplier.

JLG New Expansion Project in Tianjin, Jan. 2020





A reference case with Terex Genie. We work with Genie for more than 10 year, and now we are their master supplier. Oct. 2018, we signed a supply agreement with Genie in Chicago for the following 5 years, we got 55% of the total supply volume.

2020, they have decided 100% of the gear pumps will be supplied by GRH
100% of mini power packs are to be supplied by GRH.



With JCB

We work with JCB China.
As JCB Scissor has moved from China to India to avoid the 25% tariffs, we still keep working with JCB India.





With Palfinger

We supply mini power packs to Palfinger China.





With HAULOTTE

We have finished technical & commercial discussion with Haulotte France for two mini power projects; And one project is under discussion.





适用于越野剪叉，主要排量16CC，配套主机Genie的4390，5390机型；



GRH Gear pump for All terrain forklift



适用于越野剪叉，主要排量16CC，配套主机临工，星邦，运想等。



GRH gear pumps for SDLG, Sinoboom, etc



齿轮泵的规格常规有4CC,4.5CC,5CC,5.6CC的排量，配套主机
客户：Genie，JCB，临工，星邦，徐工，运想，柳工，
山河智能等。

GRH gear pump for JCB, SDLG Zoomlion,
Sinoboom, XCMG, Liugong,



应急动力单元实用于直臂，曲臂，越野剪叉，配套主机临工，星邦，徐工，海伦哲等。



Mini power packs , emergency , for straight arm lift, boom lift



油泵，电机总成适用于液驱的6-10M车型的3.3KW+4.0CC总成，
12-14M的4.5KW+5.6CC总成，配套徐工，鑫峰等。

Mini power packs , 6-10 m scissors, 12-14 scissors



2019年APEX ASIA展会, GRH的动力单元配套主机鼎力, 临工, 星邦, 徐工的电驱4M,6M车型, 以及越野剪叉, 直臂, 曲臂的应急动力单元, 桅杆式车型。



GRH Has the gear pump, mini power packs available as follows:

- 1) Mini power packs for 5m, 6m scissor;
- 2) Mini power packs for all the booms, straight arm booms, all terrain forklift, as emergency;
- 3) Gear pumps for the 20m, 26m, 32m straight arm booms;
- 4) Gear pumps for all the all-terrain-forklifts;
- 5) Gear pumps for all the scissors ranging from 6-16m
- 6) Manifolds for all the booms and scissors, according to the customer requirement

Ready for delivery



mini power packs



Ready for delivery

mini power packs



Ready for delivery



mini power packs



Manifolds for scissor lift



Contact GRH



grh

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WELCOME TO GRH