FAST®
法斯特

HYDRAULIC-ELECTRIC INTEGRATED SYSTEM & CYLINDER FOR HIGH-LEVEL AGRICULTURAL MACHINERY

www.fasthydraulic.com

YANTAI FUTURE AUTOMATIC EQUIPMENTS CO., LTD

QUALITY CREATES FUTURE

Try to be one of the best brands in the hydraulic & electric integrated system

ABOUT US

Yantai Future Automatic Equipments Co., Ltd. was founded in 1973 and located in Yantai, China. It is a high-tech enterprise with hydraulic-electric integrated control technology and high-level pneumatic control technology. The company covers an area of nearly 60,000 square meters and has more than 470 employees. More than 70 of them are engineers, including 12 senior engineers. We also hire many technical experts from home and abroad as consultant. So far, Yantai Future has owned 772 sets of various production and laboratory testing equipment and 13 professional cylinder production lines. We have also obtained 89 national patents, including 9 invention patents.

The company's main products are hydraulic cylinders, hydraulic integrated systems, hydraulic intelligent equipment, EPC project, high-level pneumatic cylinders and pneumatic systems. The products are certified by ISO9001, IATF16949, and DNV. Now it has an annual production capacity of 400,000 cylinders and 3,000 sets of integrated hydraulic-electric systems.

Our products are widely used for industries such as special vehicles, solid waste disposal, rubber machinery, high-level agricultural machinery, construction machinery, metallurgy, military, ocean engineering, electronics, chemical industry, machine tools, etc. Yantai FAST is an excellent supplier of hydraulic cylinder in the field of engineering machinery. Our products are widely used in engineering machinery such as aerial work platforms, truck mounted cranes, loaders, forklifts, road rollers, scrapers, mini excavators, etc. With compact structure and high-quality seals, the cylinders are reliable, stable with longer service life which can meet the customer's requirement.
Based in Jiaodong, our products have been used all over the world. Besides Chinese Mainland, Hongkong, Taiwan, our hydraulic cylinders and hydraulic systems are also exported to Japan, Germany, US, Italy, Canada, Denmark, Sweden, Iran, Russia, Southeast Asia, etc.

Adhering the core value of "Quality Creates Future", Yantai Future is steadily moving towards the vision of "Becoming an expert brand company in the field of hydraulic engineering technology"!

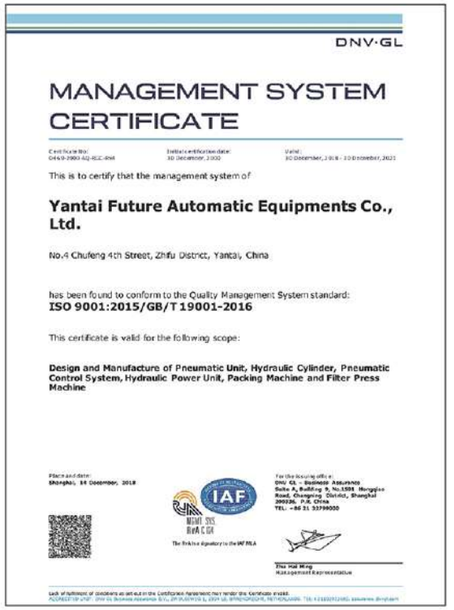
YESTERDAY

TODAY

MILESTONES

1973, Yantai Pneumatic Works
1975, XZB semi-automatic pneumatic casting production line
1982, QBI packing machine
1983, Light aluminium pneumatic cylinder
1984, Bao Steel supplier
1985, lifetime project for pneumatic cylinder
1986, QGAI、QGAII pneumatic cylinder
1986, Provincial enterprise
1987, National enterprise
1988, KQG magnetic pneumatic cylinder
1990, QGK pneumatic rotary actuator
1992, 915 series pneumatic cylinder
1993, Hydraulic cylinder manufacturer
1995, F25 series group valves
1997, K series group valve
2000, ZG vibrate cylinder
2000, ISO9001 by DNV
2001, Yantai Future Automatic Equipments Co., Ltd.
2003, Provincial calibration enterprise
2005, Import & Export certificate
2006, Hydraulic cylinder for garbage trucks
2008, Automatic reciprocate pneumatic cylinder
2008, Blade swing hydraulic cylinder
2009, Invention patent for automatic reciprocate pneumatic cylinder
2010, Provincial high-tech enterprise
2010, Invention patent for electric pull-push tool
2011, YYFH hydraulic cylinder for garbage trucks
2011, Famous brand of Shandong Province
2012, Famous-brand hydraulic cylinder product
2013, City level Engineering research center
2013, National hydraulic & pneumatic prize
2014, Provincial Engineering research center
2014, ISO/TS16949 certificate
2015, Invention patent of pneumatic striking cylinder
2015, Invention patent of hydraulic lifting machine
2015, Invention patent of sequence control multistage ram cylinder
2015, FSL hydraulic control system for waste incineration
2016, Hydraulic system and cylinder for HPU982 offshore drilling platform certified by DNV.
2016, Hydraulic cylinder supplied for US famous car lift manufacturer finished 20000 cycles life test.
2017, A famous Australia agricultural manufacturer visited our factory and start the cooperation.
2017, Certified by new version of ISO9001:2015.
2018, Start to use PLM system.
2018, We produce totally 200,000 pcs hydraulic cylinders for the first time. All the cylinders are made on the production line and the production capacity can reach 400,000 pcs hydraulic cylinders.

ISO 9001 SINCE 2000



DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

This is to certify that the management system of

Yantai Future Automatic Equipments Co., Ltd.

No.4 Chufeng 4th Street, Zhifu District, Yantai, China

has been found to conform to the Quality Management System standard:
ISO 9001:2015/GB/T 19001-2016

This certificate is valid for the following scope:

Design and Manufacture of Pneumatic Unit, Hydraulic Cylinder, Pneumatic Control System, Hydraulic Power Unit, Packing Machine and Filter Press Machine

IATF16949 SINCE 2014

Certificate of Registration

nqa

This is to certify that the Quality Management System of

Yantai Future Automation Equipment Co., Ltd.
No. 4, Chufeng 4th Street, Zhifu District, Yantai City, Shandong Province, 264002, China.

applicable to

The design and manufacture of hydraulic cylinders

has been assessed and registered by
NQA, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable LU5 5ZX, Bedfordshire, England

against the provisions of

IATF 16949 : 2016

This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA.

Managing Director

NQA Certificate No: [illegible]
IATF Certificate No: 0304126
Date: 14 March 2019
Valid Until: 13 March 2022
Version: 1

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Revision Date: Feb 2017

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Issue 5

Service Industry

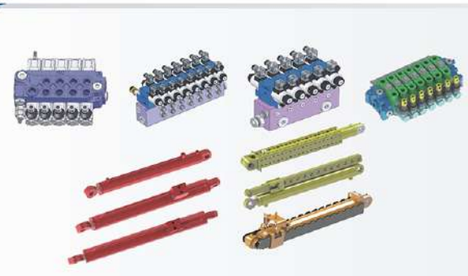
Eco-enviromental Truck

Car Lift

Refuse Incinerator

Engineering Machinery

Car Transporter



High-Level Agricultural Machinery

Rubber Machinery

Offshore Industry

QUALITY CREATES FUTURE>>

*This catalogue only introduces our cylinders and service for agricultural machinery.

FAST® 法斯特

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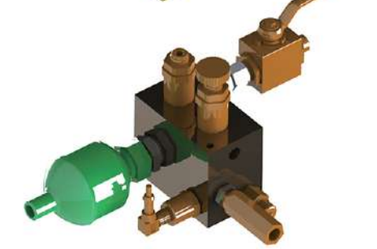
Hydraulic -Electric Integrated System for Round Baler

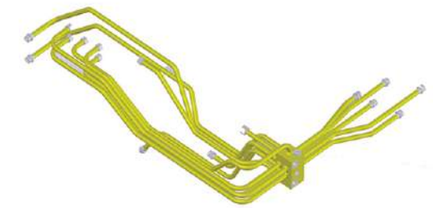
We have developed the hydraulic integration system for round baler, which can bale the size to φ1.2×1.4 meter, weight up to 500 kg.

The whole system includes hydraulic system, pipe, hydraulic cylinder, etc, which provide the customer with complete solution of hydraulic system.

All the control valves are imported from USA with high performance, which satisfies the demands of small working space and high stability. For the pipe, we use numerical control pipe bender to assure the size. For the valve block, we do nickel plating to avoid corrosion.

>Hydraulic System





Hydraulic System
Main parameters:
Max working pressure:20 MPA
Max volume:22L/min
Voltage of solenoid valve 12V
Filtering accuracy:10 μm

>Hydraulic Cylinder

Baler net cylinder
FYK-40/20X70-205

Baler cutter cylinder
FYK-40/20X70-214

Bottom cylinder
FYK-30/25X140-310

Ram cylinder
FYK-40/20x297-520

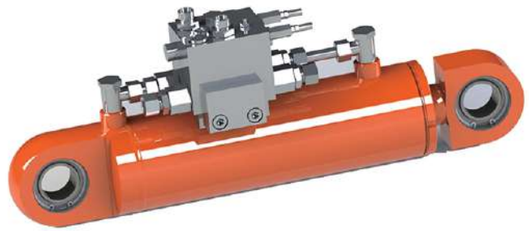
Supporting cylinder
FYK-50/30X500-700

Hydraulic Cylinder for Plough

FAST Hydraulic Cylinder for turning plough mainly includes turning hydraulic cylinder and hydraulic cylinder adjusting working width. For the turning hydraulic cylinder, the control valve is imported .For the hydraulic cylinder to adjust working width, there are 2 Pilot Check Valves to the right position. All seals are imported. With beautiful appearance, stable quality and long service time, the cylinder PPM is lower than 5000.

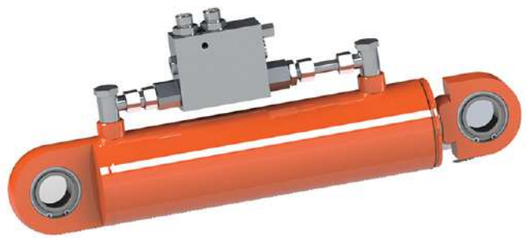
>Hydraulic Cylinder

Side cylinder
FFZL-100/50X120-885



Turning cylinder
FFZL-90/45X234-482

Inside cylinder
FFZL-80/40X320-573



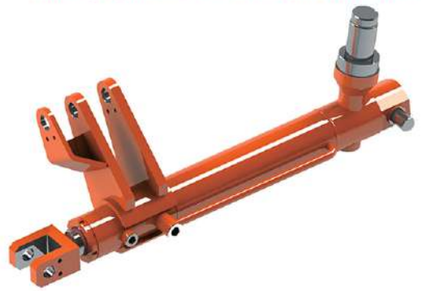
Plough turning cylinder
FFZL-80/45X240-462

Hydraulic Cylinder for Sugarcane Harvester

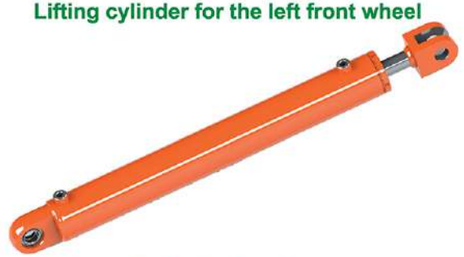
According to different function, the cylinder used for sugarcane harvester is designed accordingly with different seals and parts. With suitable structure and technology, it can meet the requirements for different working conditions. All seals are imported. With beautiful appearance, stable quality, long service time, the cylinder PPM is lower than 5000.

>Hydraulic Cylinder

Lifting cylinder for the right front wheel



Lifting cylinder for the left front wheel



Lifting cylinder for elevator

Lifting cylinder for hopper

Lifting Cylinder for fan

Steering cylinder

Cutting cylinder

Cylinder with level indicator

Cylinder for ridging

Hydraulic Cylinder for Press- Baler

FAST cylinders mainly have 3 models for baler, pushing cylinder, main cylinder and pressure cylinder. With right structure and technology, it can meet the requirements for different working conditions. All seals are imported. With beautiful appearance, stable quality and long service time, the cylinder PPM is lower than 5000.

Main cylinder
FYK-110/80X900-1235

Pressure cylinder
FYK-160/120X400-860

Push cylinder
FYK-160/120X820-1140

Hydraulic Cylinder for Sowing Machinery

Two cylinders in series connection to achieve lifting and back. With one-way valve on the cylinder, which can effectively realize exhaust and guarantee the synchronization accuracy of the two hydraulic cylinders. With right structure and technology, it can meet the requirements for different working conditions. All seals are imported. With beautiful appearance, stable quality and long service time, the cylinder PPM is lower than 5000.

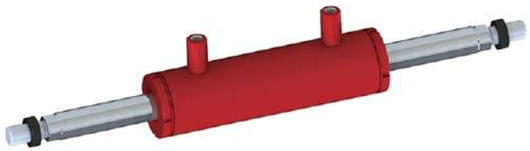
Φ63.5 synchronous cylinder
FBZ-63.5/40X200-456

Φ75 synchronous cylinder
FBZ-75/40X200-456

Hydraulic Cylinder for Large & Medium Size Tractor

FAST hydraulic cylinders for medium and large tractors mainly include steering cylinder and lifting cylinder. Steering cylinder is a double-rod cylinder. The special design for lifting cylinder can reach different strokes. Fast has years of experience of cylinder for agricultural machinery. With rich design experience, mature technology and stable quality, our PPM is lower than 5000.

>Hydraulic Cylinder



Steering cylinder

FN-TL-ZX-01double-rod cylinder with simple mounting type. All the seals are imported. Working temperature is -20℃ to 80℃

Lifting cylinder

SF-700 cylinder is designed with clevis-connecting means and adjustable stroke. All seals are imported. Working temperature is -20℃ to 80℃

Lifting cylinder

SF-800 cylinder is designed with clevis-connecting means, with adjustable stroke and high performance. All seals are imported. Working temperature is -20℃ to 80℃

Lifting cylinder

2304.54.010-00 cylinder is single-acting ram cylinder. The end cap is thread connected with high performance. All seals are imported. Working temperature is -20℃ to 80℃

Lifting cylinder in the right

N1454.54.011-A cylinder is clevis-connecting means, which is simple and stable. All seals are imported. Working temperature is -20℃ to 80℃

Lifting cylinder in the left

N1454.54.010-A cylinder is clevis-connecting means, which is simple and stable. All seals are imported. Working temperature is -20℃ to 80℃

Hydraulic - Electric Integrated System for Square Baler

FAST has produced hydraulic cylinders used on balers for many years. Now we have developed our own standard products. In consideration of the working condition, the seal structure and installation parts were designed reasonably. All seals are imported. The structure, parts, seals, materials and processing technology have been fully standardized. With beautiful appearance, stable quality and long lifetime, the cylinder PPM is lower than 5000.

>Hydraulic System

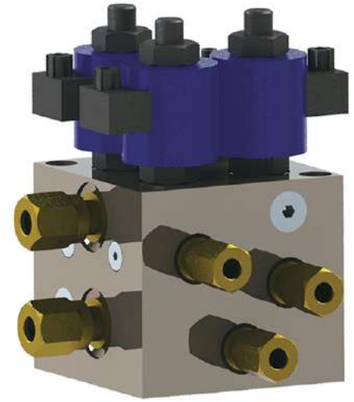
Main Parameters:

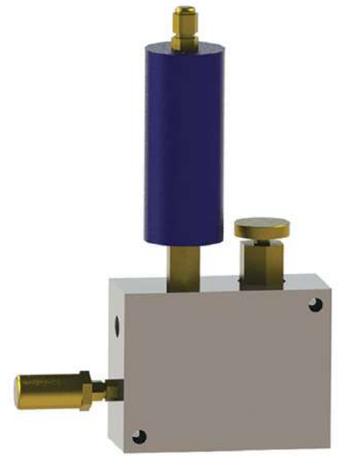
Max working pressure: 21MPa

Max flow: 20L/min

Control voltage of solenoid valve: DC24V

Filter precision: 10 μm





>Hydraulic Cylinder

Hydraulic Cylinder	Model	Introduction
Pickup Cylinder	9FG-7.0-2.2-006-30	Single ear connectors on both ends, practical and beautiful, compact and durable internal structure, superior imported seals, working temperature -40oC – 80oC
Pressurization Cylinder	9FG-7.0-2.2-007-13	Tie rod cylinder, clevis connectors with pins, compact and durable internal structure, stable performance, superior imported seals, working temperature -40oC – 80oC

Hydraulic-Electric Integrated System for Stacker

We provide a full set of hydraulic-electric system solutions. The Stacker Hydraulic-electric Integrated System includes a hydraulic system, pipes, hydraulic cylinders, motors and a electricity control system. All of the control valves are imported high-performance cartridge valves. The pipes are produced by numerically-controlled bending machines, which can ensure the precision of pipes. To avoid the corrosion, the valve blocks are nickel plated. With an integrated board electric control module, the loosing of the electrical elements can be prevented effectively. With these methods, the trouble spots will be reduced and the whole system will be more reliable.

FAST standard hydraulic cylinders for stackers mainly includes one No. 1 hydraulic cylinder, two No.2 hydraulic cylinders, two No.3 hydraulic cylinders, two No.4 hydraulic cylinders, one No.5 hydraulic cylinders, two No.6 hydraulic cylinders, two No.7 hydraulic cylinders, and two No.8 hydraulic cylinders. FAST has produced hydraulic cylinders used on balers professionally for many years. Now we have developed our own 9FG Standard products. The structure, parts, seals, materials and processing technology have been fully standardized. Good looking, stable quality, long lifetime, PPM < 1000.

>Hydraulic System

Main Parameters:

Max working pressure: 20MPa

Max flow: 26L/min

Control voltage of solenoid valve: DC12V

>Hydraulic Cylinder

No.1 Hydraulic Cylinder JCYG-01 Simple mounting structure and good performance. Imported superior seals. Working temperature -20oC-80oC.

No.2 Hydraulic Cylinder JCYG-02 Thread connectors that are easy to be mounted. Imported high-performance seals. Reasonable and compact internal structure. Working temperature -20oC-80oC.

No.3 Hydraulic Cylinder JCYG-03 With a two position three way solenoid valve. External thread connector on the rod. Reasonable structure and good performance. Imported superior seals. Working temperature -20oC-80oC.

No.7&8 Hydraulic Cylinder JCYG-07&08 Thread connectors that are easy to be mounted. Reasonable and compact internal structure. Good performance. Imported superior seals. Working temperature -20oC-80oC.

No.4 Hydraulic Cylinder JCYG-04 With a counterbalance valve. Simple mounting structure. Imported superior seals. Working temperature -20oC-80oC.

No.5 Hydraulic Cylinder JCYG-05 With a balance valve. Its smart shape can save the mounting space. Good performance. Imported superior seals. Working temperature -20oC-80oC.

No.6 Hydraulic Cylinder JCYG-06 Thread connectors that are easy to be mounted. Reasonable and compact internal structure. Good performance. Imported superior seals. Working temperature -20oC-80oC.

Hydraulic Cylinder for Plant Protection Machine

One set of hydraulic cylinders for plant protection machine have 12 models, including 2 steering cylinders with MTS sensors.

There are several main features of the working of plant protection machines:

1)Large range of working temperature. The lowest working temperature is -40oC.

2)Short operation time, long resting period.

3)Small working load, the hydraulic cylinders are mainly used to complete the specified actions.

These features cause that the hydraulic cylinders for plant protection machines need to have the characteristics including low temperature resistant, low friction and low pressure. That requires a good sealing performance. FAST has provided hydraulic cylinders for plant protection machines professionally for many years. With experienced design, mature technology and reliable quality, the cylinder PPM is lower than 5000.

>Hydraulic Cylinder

Ladder lifting hydraulic cylinder
FAST Standard code: ZBJ-PTSJ/YJSJφ40/20-314
Specification: 40/20X314-480 Qty: 2

Steering hydraulic cylinder with sensor
FAST Standard code: ZBJ-ZX-Mφ63/32-215
Specification: 63/32X215-170 Qty: 2

Pesticide frame expansion hydraulic cylinder
FAST Standard code: ZBJ-YJZK-2φ40/20-310
Specification: 40/20X310-480 Qty: 2

Steering hydraulic cylinder
FAST Standard code: ZBJ-ZXφ63/32-215
Specification: 63/32X215-170 Qty: 2

Cover lifting hydraulic cylinder
FAST Standard code: ZBJ-JZSJφ50/25-150
Specification: 50/25X150-300 Qty: 1

Tire stretching hydraulic cylinder
FAST Standard code: ZBJ-LTSZφ63/35-455
Specification: 63/35X455-658.5 Qty: 4

Slasher frame folding hydraulic cylinder
FAST Standard code: ZBJ-GTZDφ50/35-225
Specification: 50/35X225-585 Qty: 2

Pesticide frame rotary hydraulic cylinder
FAST Standard code: ZBJ-YJSJφ63/40-460
Specification: 63/35-525-110 Qty: 2

Slasher frame lifting hydraulic cylinder
FAST Standard code: ZBJ-GTSJφ60/35-280
Specification: 60/35X280-520 Qty: 6

Pesticide frame lifting hydraulic cylinder
FAST Standard code: ZBJ-YJSJφ63/40-460
Specification: 63/40X460-645 Qty: 2

Pesticide frame expansion hydraulic cylinder
FAST Standard code: ZBJ-YJZK-1φ50/35-567
Specification: 50/35X567-760 Qty: 2

Pesticide frame lifting hydraulic cylinder
FAST Standard code: ZBJ-YJQLφ75/35-286
Specification: 75/35X286-534 Qty: 2

Hydraulic Cylinders for Agricultural Attachment

FAST hydraulic cylinders for agricultural attachment are mainly exporting to Europe and North America. Seals structure is based on different working conditions of various machines. Reasonable structure design and machining technology makes our cylinders are capable to work in sever conditions. All seals are imported. With beautiful appearance, stable quality and long service time, the cylinder PPM is lower than 5000.

>Hydraulic Cylinder

Model:980013594

Model:60022091A

Model:037.200-14

Technology R&D

In 1973, FAST produced the first domestic pneumatic cylinder in China. After more than forty years of development, FAST insists on technological innovation as the core power, takes professional services as the core competitiveness. FAST has established a solid cooperative relationship with industry leading enterprises and universities. With the expert team at the forefront of industry technology, FAST has created a unique technical advantage. FAST provides high-end customized system solutions in hydraulic and pneumatic engineering technology field. Keeping fulfilling customers, helping industry development. FAST now has more than 70 technicians, including 12 senior engineers and several Chinese and foreign external experts.

Scientific and Technological Innovation Platform

FAST owns four scientific and technological innovation platforms: High-tech Enterprise, Provincial Enterprise Technology Center, Hydraulic and Pneumatic Technology Engineering Laboratory of Yantai City, Pneumatic Engineering Research Center of Yantai City.

Enterprise Information Construction

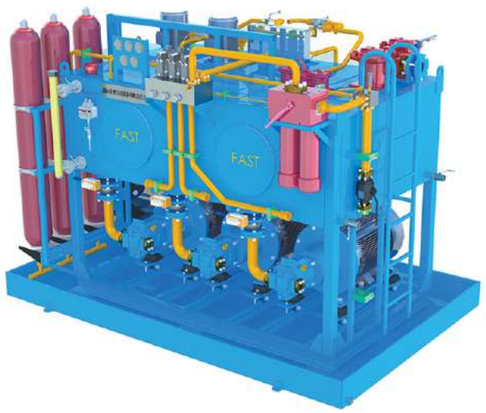
Managing and optimizing the design of products lifecycle with SOLIDWORKS, PLM. Carrying on comprehensive balance and optimized management of enterprise resources (for example, people, property, materials, information, time, space) with ERP.

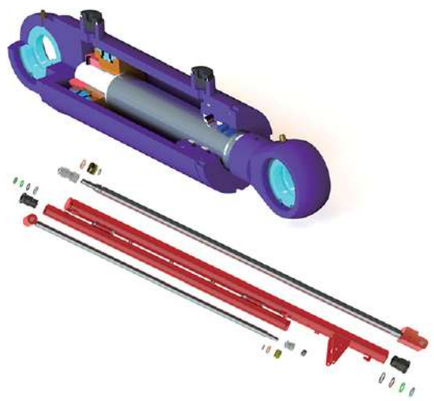
Intellectual Property

FAST has passed IPR Certification by IPMS GB/T29490-2013 Standard and is a National IPR Demonstration Enterprise. Now FAST has owned 92 national patents, including 9 invention patents, 4 copyrights of computer software.

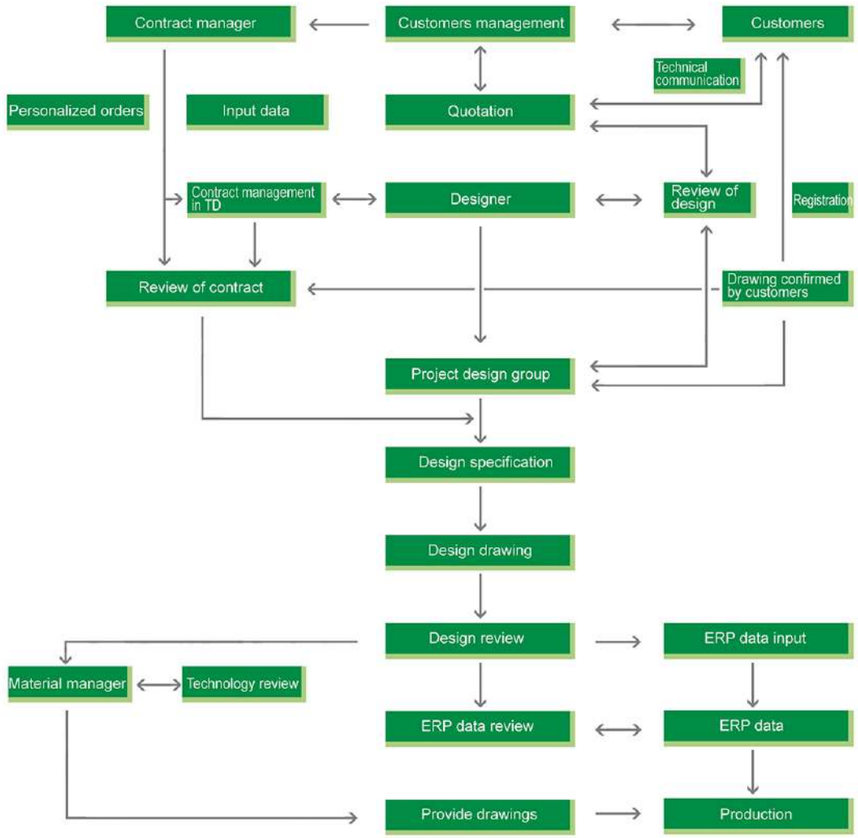
Contribution to the Industry

National (Industry) standard setting outstanding contribution unit. National (Industry) standard setting unit of National Hydraulic and Pneumatic Standardization Technical Committee.



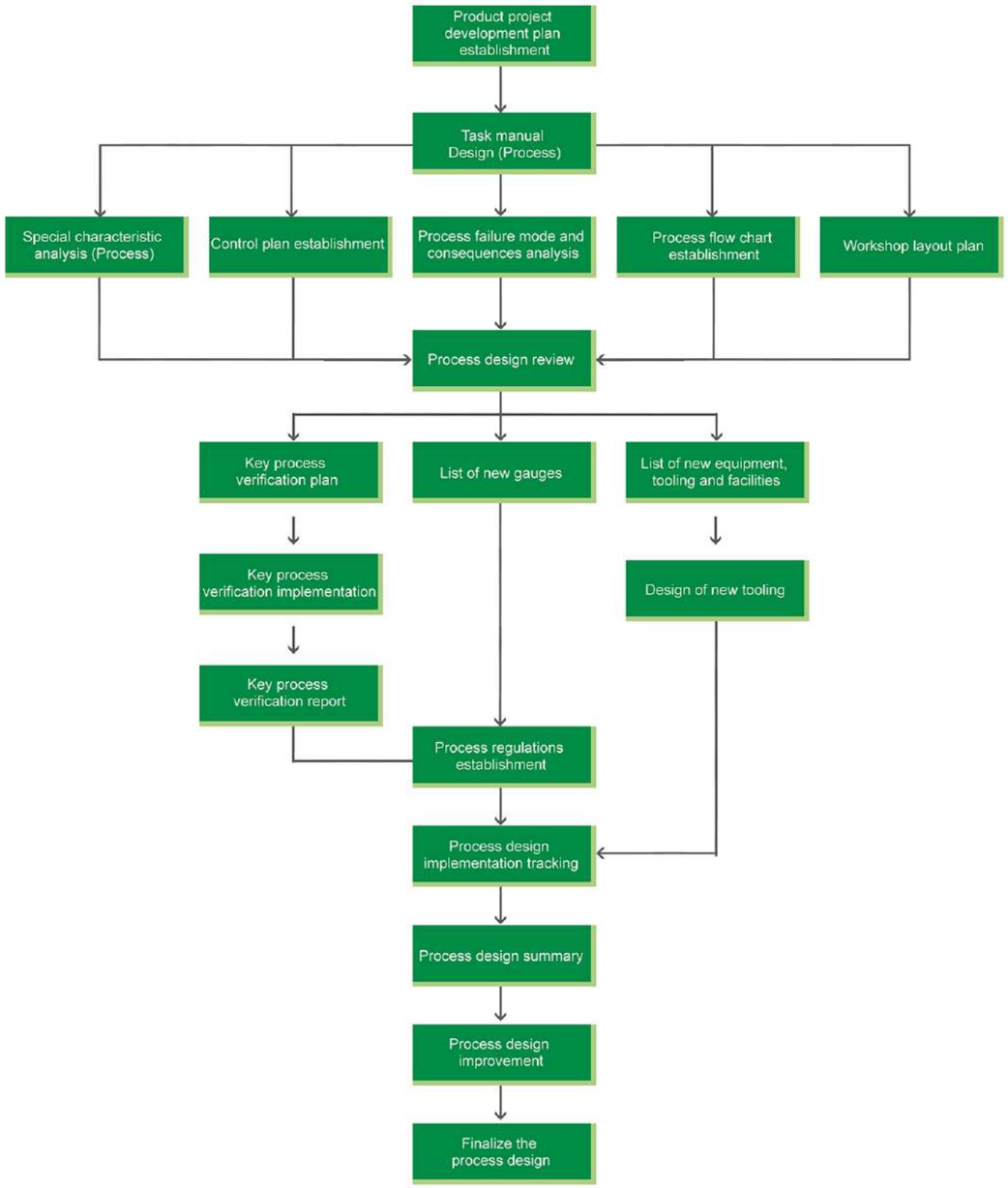


Design Control



Engineering Process Design & Full Inspection Control

Engineering Process Design



Full Inspection Control

Raw material performance monitoring

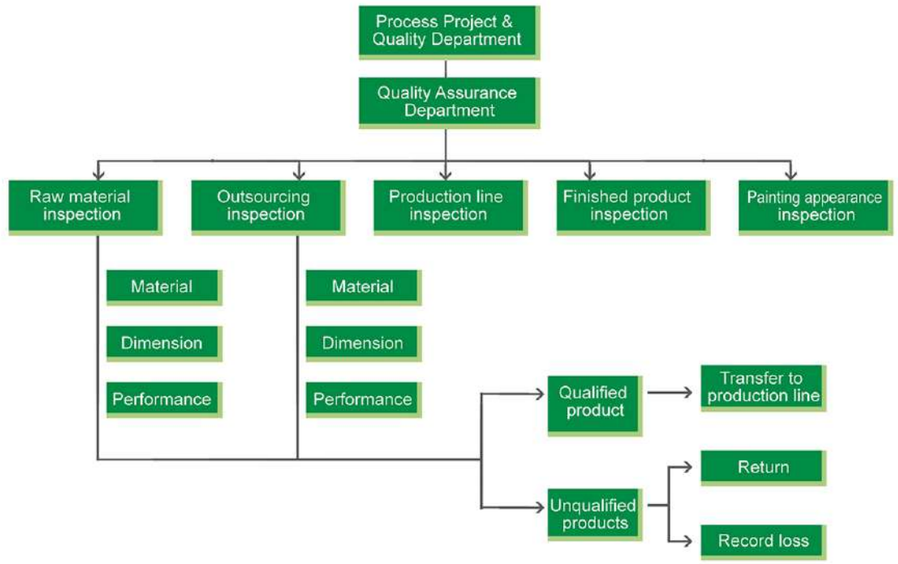
Hydraulic oil and cleanliness control

Production process control

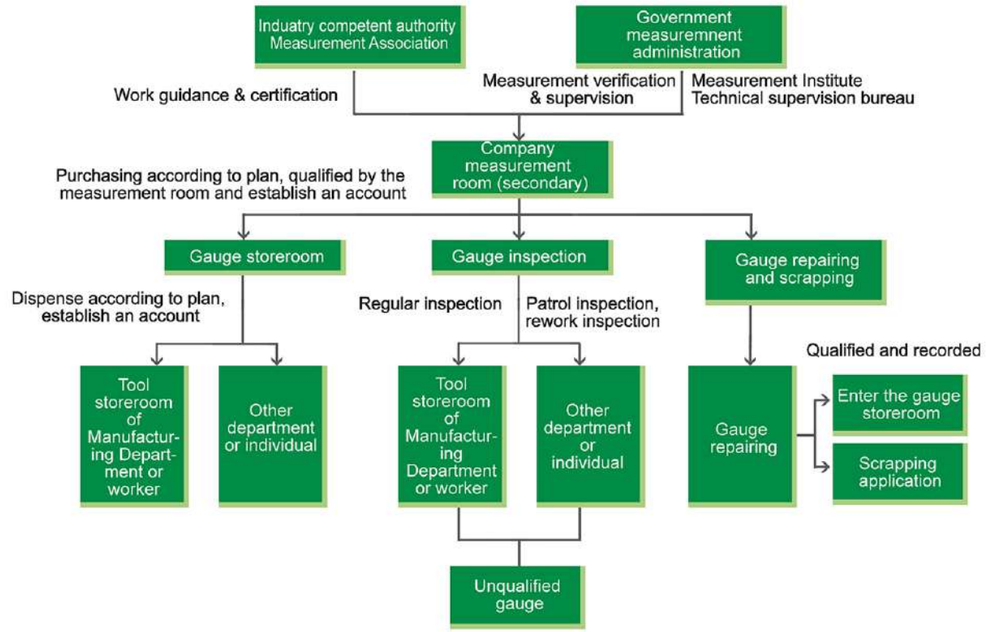
Painting appearance control

Finished product inspection

Quality Inspection Control System (part)



Measurement Management System



Hydraulic Cylinder and Hydraulic System Production Line

Company Headquarter Panorama

QUALITY CREATES FUTURE>>

Prospective> >

Try to be one of the best brands in the hydraulic & electric integrated system

Contact

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