



# Winner Hydraulics For **INDUSTRIAL** And **MOBILE** Solutions



## WINNER HYDRAULICS CORPORATION

No.51 TAI-YUAN ST, HUA-TAN HSIANG,  
CHANG-HUA HSIEN, TAIWAN 50351

Tel: 886-4-786 5118 Fax: 886-4-787 3915

E-mail: [winner-mail@umail.hinet.net](mailto:winner-mail@umail.hinet.net)

<http://www.winnerhydraulics.com>



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Screw-in Hydraulic Cartridge Valves  
Manifolds  
Mini Power Packs

WINNER HYDRAULICS CORPORATION

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# WINNER HYDRAULICS CORPORATION

A WORLD-CLASS MANUFACTURER  
of Power Packs and Cartridge Valves



Established in 1993, Winner Hydraulics Corporation is an internationally recognized manufacturer of screw-in hydraulic cartridge valves, manifolds and mini power packs. After years of hard work, Winner has steadily grown from its original building to the present 16,000 square meter facility.

Today, Winner sells its products globally and is now an international leading designer and manufacturer of power packs and high performance screw-in hydraulic cartridge valves with products sold to over 60 countries around the world.

## CUSTOM DESIGN CAPABILITY

In addition to the standard products, our outstanding R&D team and wide range of world-class machining equipment allow us to design and manufacture any custom hydraulic circuit in a short time that will fully meet customers' needs.



## COMPANY PROFILE

Established in 1993

Building Space: 16,000 square meter

Number of Employees: 200



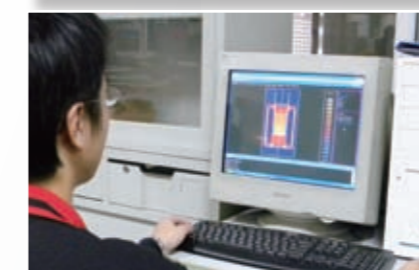
## OUTSTANDING R&D CAPABILITIES OVER 20 DESIGN ENGINEERS

Our approach to research and development is entirely customer oriented. Winner's R&D department consists of over 20 experienced design engineers who constantly develop new products to meet customers' demands. Our R&D engineers fully utilize 3D drawing software and CAM system for highly efficient customization of products to meet customers' desired specifications. In addition, we also use the advanced SolidWorks Flow Simulation Software to simulate the hydraulic circuit operation.

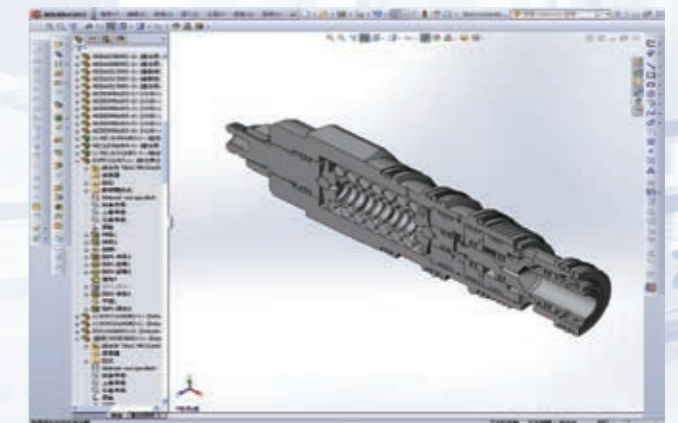
This allows our R&D engineers to optimize design of the new products and to save time in product's development and modification.



Our design engineers employ the advanced SolidWorks Flow Simulation Software for optimal design.



The magnetic analysis software is also applied for accurate design.



# INTEGRATED MANUFACTURING PROCESS

A Wide Variety of World-famous Machining Equipment

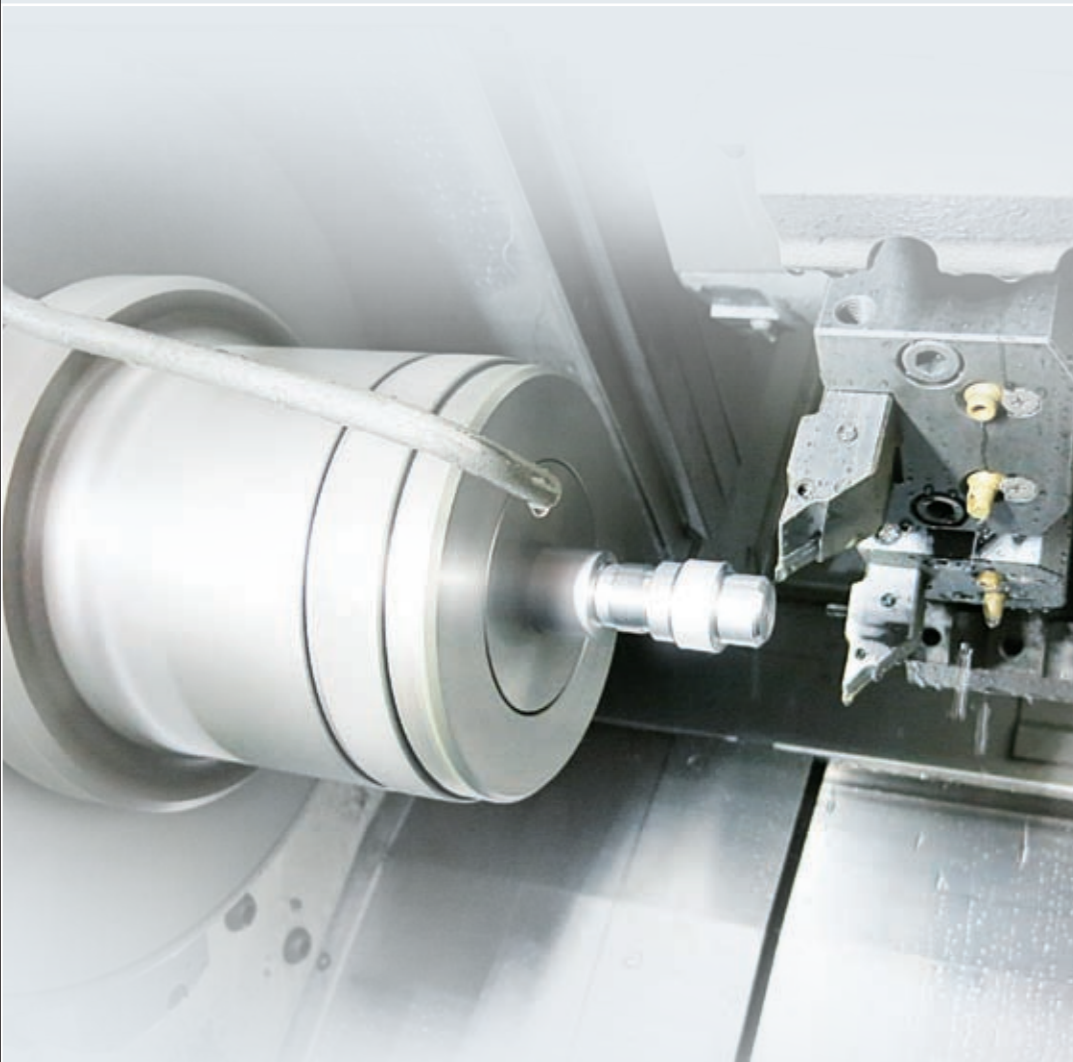
In order to manufacture products which require extremely fine tolerance, both equipment with high precision and highly skilled machinists are required. To meet this commitment, we have constantly introduced a wide variety of world-famous machining equipment such as turn-mill complex machines, CNC machining centers, welding machines, grinding machines, honing machines and lapping machines etc. These allow us to fully control accuracy.



5-axis turning milling complex machine



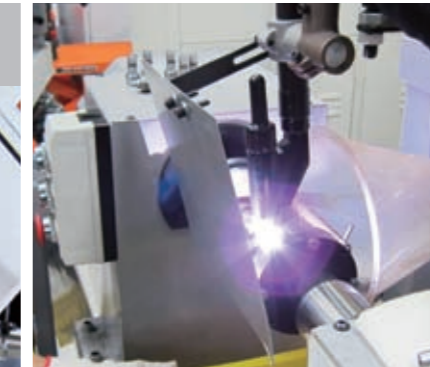
Winner's production line is fully equipped with a wide range of world-famous machining equipment.



Automated in-process inspection



Welding



Honning



Twin-spindle twin-turret CNC lathe



In-process inspection



6 pallets change horizontal machining center

# HEAT TREATMENT IN HOUSE

To ensure Winner products achieve the dependable mechanical and physical properties, we have invested heavily in various heat treatment equipment for our production line to perform carbonitriding quenching, tempering and nitriding in house.

All parts are subject to metallurgical structure inspection, hardness test and constant fatigue test. Everything we do is to ensure each product from Winner will deliver the best possible quality you have come to expect.



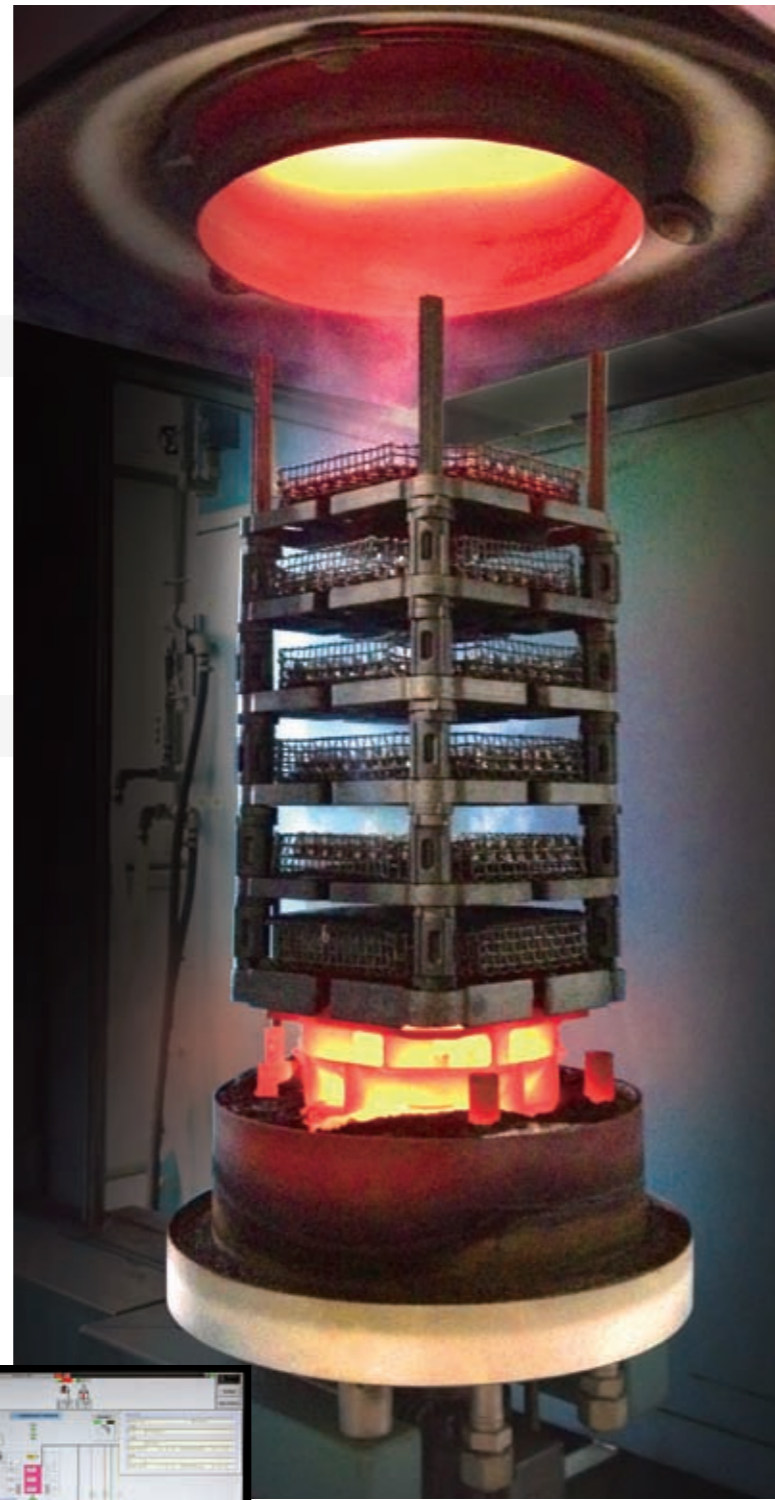
Nitriding furnace



Tempering furnace



Carbonitriding quenching furnace



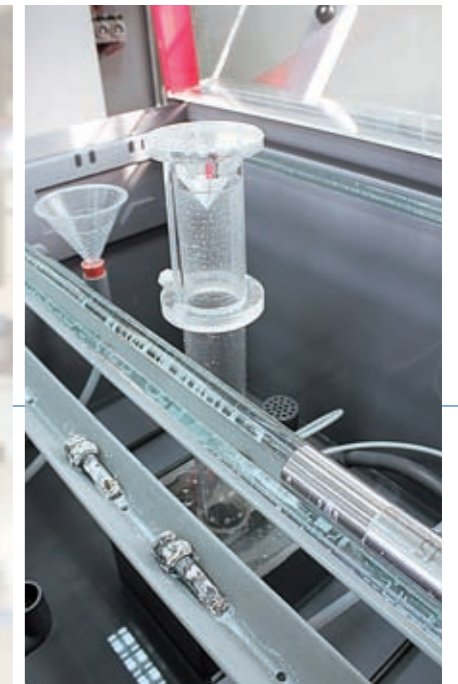
# PLATING IN HOUSE

Winner's modern facility includes plating equipment which provides standard zinc plating and will provide zinc-nickel plating for cartridge valves. To ensure the plating quality, the chemical solutions are carefully analyzed by various tests. Zinc-nickel offers better resistance than standard zinc, with standard zinc protecting to 24 hours in salt fog and zinc-nickel protecting to 1000 hours.

## Why Winner Zinc-Nickel ?



Vacuum cleaner



Salt fog test



# 100% QUALITY INSPECTION WINNER INSISTS ON QUALITY

Quality is the cornerstone of every thing we do at Winner, and as such, rigorous quality control is implemented throughout the entire manufacturing process.

Winner's quality control department is fully equipped with a wide range of sophisticated inspection equipment.

Our quality assurance system begins with inspecting incoming material and extends through every step of the manufacturing process. Each part is subject to final inspection prior to shipping, ensuring the highest level of quality, performance and dependability.



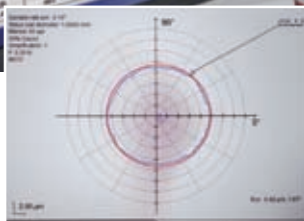
3D coordinate measuring machine (CMM)



Automatic rubber hardness tester



Roundness measuring tester



## QUALITY ASSURANCE THROUGH COMPREHENSIVE INSPECTION

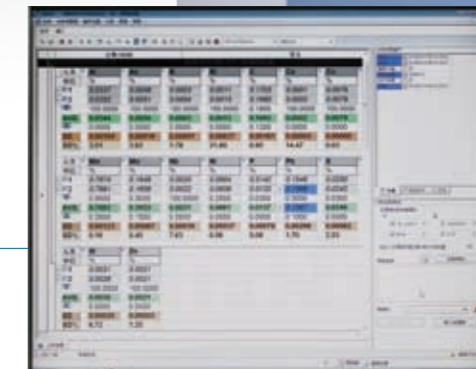
At Winner, we directly import top quality materials which are then inspected with our thermo scientific advantage metal analyzer. After machining, all parts are inspected by various sophisticated inspection instruments, such as roundness measuring machine, surface roughness tester and 3D coordinate measuring machine (CMM), etc.



Thermo scientific advantage metal analyzer.

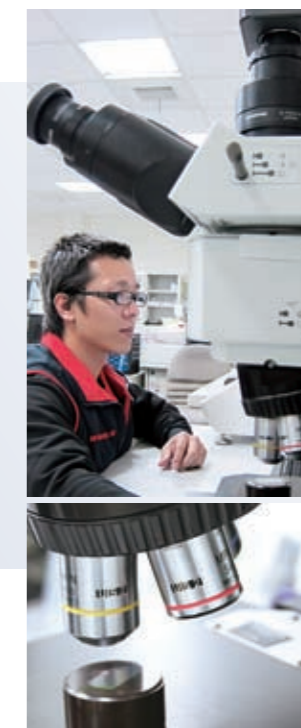
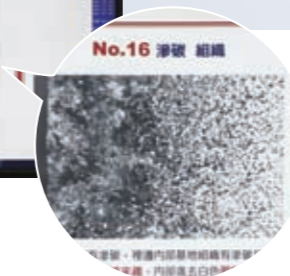
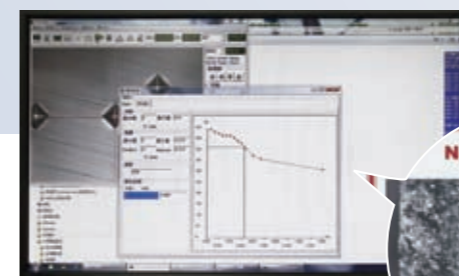


Winner only imports top quality materials that meet our quality standards and then pass our rigorous testing.



### WINNER Quality Control System Includes :

- Incoming material inspection
- In-process inspection
- Final product inspection



Microcomputer Vickers hardness tester.



Profile projector

# RIGOROUS ASSEMBLING PROCESS ! 100% TESTING ! CONTINUOUS SERVICE LIFE TESTS !

Based on the company's policy "Quality is Priority", Winner not only directly imports materials from various countries but also implements the comprehensive procedure throughout the entire assembling processes.

100% in-process tests are also conducted by the highly experienced personnel.

Furthermore, to ensure Winner products achieve the best possible quality level, we also conduct long time continuous fatigue tests in house.

These tests ensure Winner products will perform according to design specifications even when used in harsh working conditions or poor environmental conditions. Meeting customers' requirements is a force that drives us to progress and Winner is committed to provide a total solution for our customers.

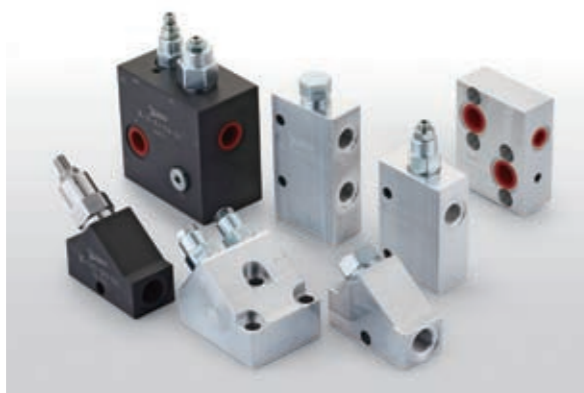
## CARTRIDGE VALVES



## ELECTRONIC PROPORTIONAL CARTRIDGE VALVES



## ML LINE MOUNT STANDARD MANIFOLDS



## MH SANDWICH MANIFOLDS



## PERFORMANCE TEST FOR POWER PACKS AND CARTRIDGE VALVES



Programmable humidity & temperature chamber.

Fatigue test laboratory

## MINI POWER PACKS

