

Parjet Co., Ltd.



Company Profile

1. Company history

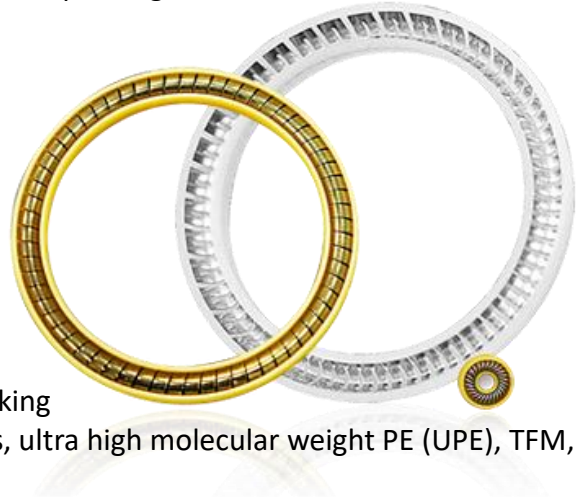
- 1991 Company founded to sell elastomer seals business for local industrial customers.
- 1993 Become authorized deal of elastomer seals for Parker Hannifin.
- 1995 Become authorized deal of hydraulic hose and industrial hose for Parker Hannifin.
Start hose assembly by the Parkrimp system under license of Parker Hannifin.
- 1996 Become registered to ISO Quality Management System, ISO 9001.
- 2003 Introduce the first DMH CNC machinery to produce spring-energized PTFE seals with registered tradename Hiperseal®.
- 2004 Start in-house production of Helical spring and cantilever spring.
- 2005 Set up several testing equipments such as universal test for elastomer and PTFE compounds. Various sealing performance tests are also introduced to verify design or modification.
- 2007 Move to New factory in Dafa industrial park and expand production capability
- 2008 Expand machining capability for compatible or tailor-made hydraulic/pneumatic and rotary seals with various materials such as filled PTFE, UHMWPE, PEEK and TFM.
- 2010 Introduce automatic trimming machine for molded seals.
- 2011 Launch new flip-lip PTFE rotary seals to local market by trade name HiperLip®.
- 2012 Introduce production of PTFE tube with compression molding.
- 2012 Expand market in America and European.
- 2013 Produce seals with low temperature application of LNG filling gun with temperature of -196°C.
- 2014 Produce large size of oil turret seal for Floating Production Storage and Offloading (FPSO)
- 2014 Introduce spring laser welding machine.
- 2015 Introduce production of isostatic filled PTFE tubes.
- 2015 Introduce Keyence high-order optical projection measuring equipment.
- 2015 Receive ISO/TS 16949 certification.
- 2016 Introduce MCS Marc FEA software.
- 2017 Receive Republic of China patent, with patent name of M534270.
- 2018 Introduce production of canted coil spring.
- 2018 Establish new plant in Hefa Industrial Park with production base of 8920 m².
- 2018 Become registered to the newest ISO Quality Management System, ISO 9001:2015.
- 2019 Introduce experimental equipment of TGA, DSC and DMA.
- 2019 Introduce Large molding press with OD of 1200 mm and rotary seal performance testing equipment.



2. Production capacity

2.1 Product category

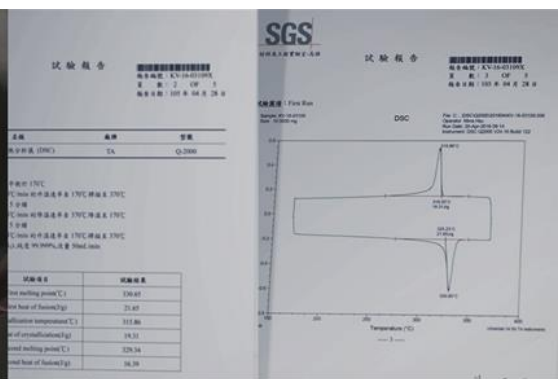
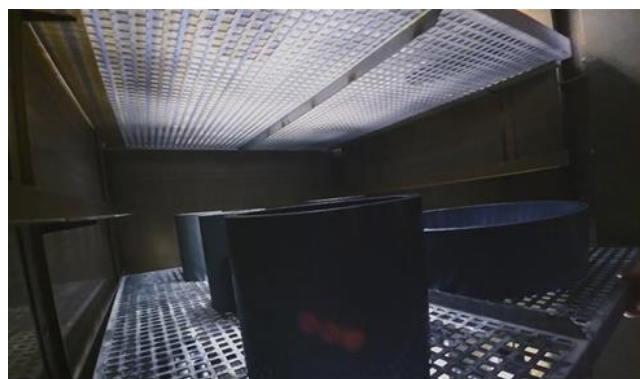
- (1) Rotary seals including oil seal, bearing seal, high pressure rotary seal, high performance rotary seal, split rotary shaft seal, labyrinth seal, V-ring, environmental eliminator.
- (2) Hydraulic and fluid seals including high performance rod sealing systems, rod seals, piston seals, symmetrical seals, cushion seals, wiper rings.
- (3) Spring energized filled PTFE seal.
- (4) Seals for oil and gas application.
- (5) FDA-compliant seals for food, pharmaceutical, and medical applications.
- (6) Seals for harsh chemicals environment.
- (7) Pneumactical application.
- (8) Customized sealing design.



2.2 Produce size: ID of 1.5mm to OD of 1500 mm.

2.3 Seal material: 30 choices depending on the working application including NBR, PU, PTFE compounds, ultra high molecular weight PE (UPE), TFM, PEEK, etc.

2.4 Production and test equipment



- (1) CNC lathe machine for seals, 8 units.
- (2) Isostatic press for PTFE tube production, 1 unit.
- (3) Compression molding for PTFE tube production, 3 systems.
- (4) Sintering furnace for PTFE tubes, 4 units.
- (5) Helical Spring production equipment, 2 systems.
- (6) Slant Coil Spring production equipment, 1 system.
- (7) Spring Laser Welding (Micro Welding) System, 1 unit.
- (8) Automatic rimming system for molded seals, 2 systems.
- (9) Various materials and seals performance testing machine



2. Production process

(1) Production process of HiperSeal®

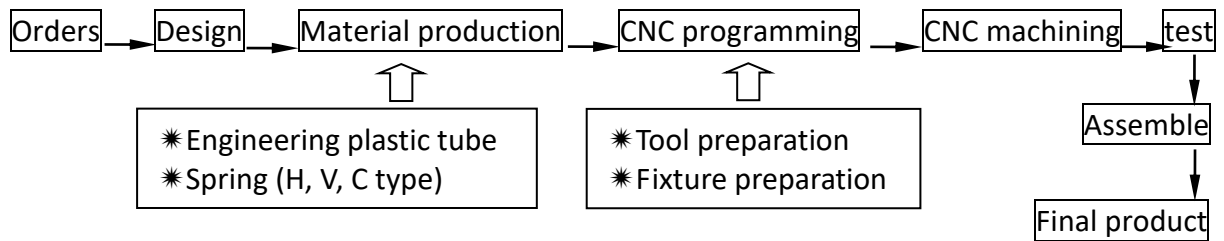
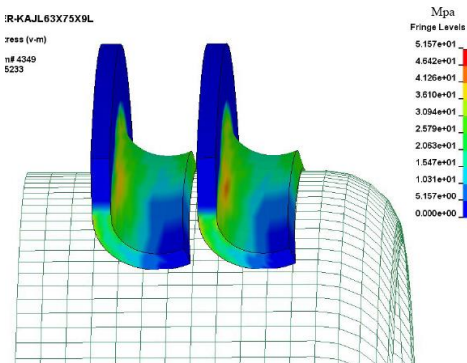
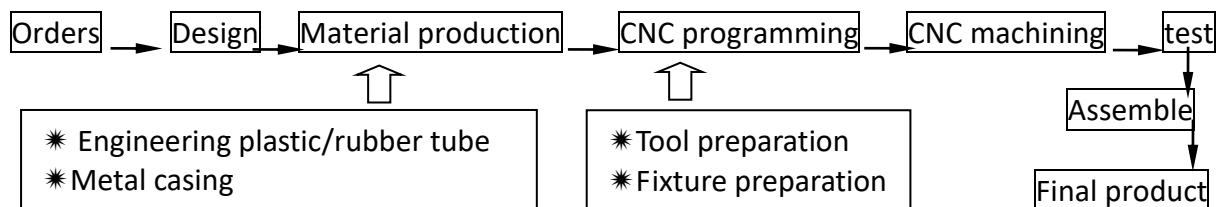


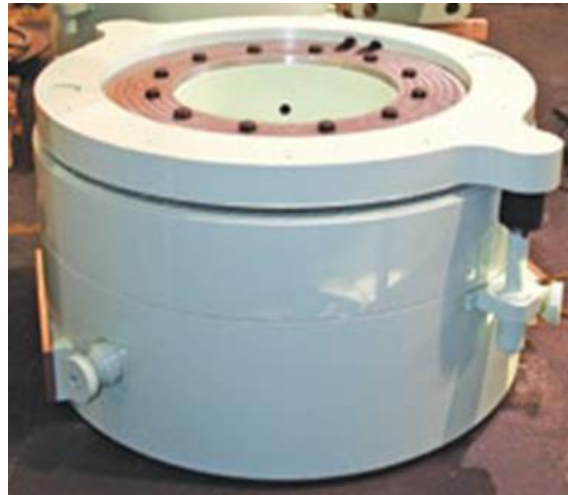
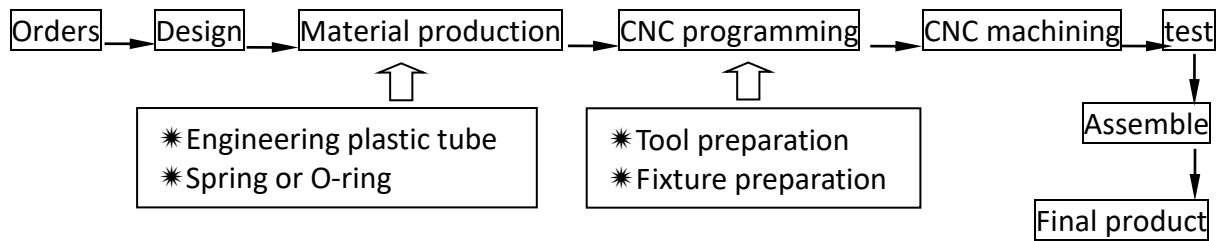
圖 1



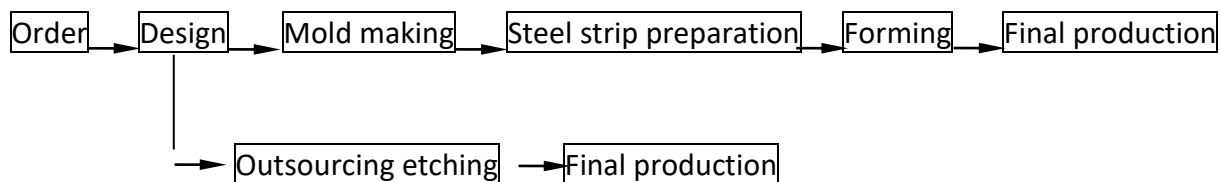
(2) Production process of HiperLip®



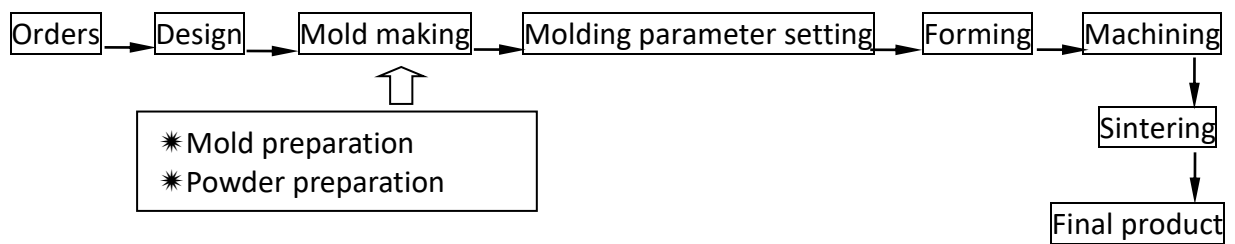
(3) Production process of specific application seal : Taking size medium to large customized hydraulic seals as an example



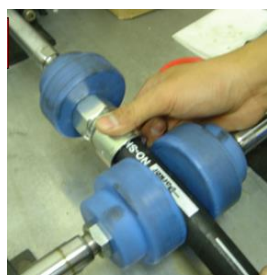
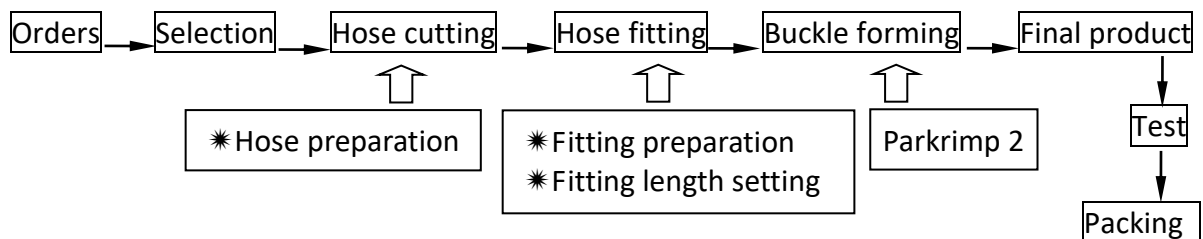
(4) Production process of spring



(5) Production process of compression molding and cold isostatic press for PTFE tube



(6) Production process for high pressure hydraulics hose



3. Main application

- (1) Oil turret seal for Floating Production Storage and Offloading (FPSO)
- (2) Swivel joints for loading & unloading arm
- (3) Cryogenic valves
- (4) LNG filling device (Nozzle)
- (5) Large or precision control hydraulic cylinder
- (6) Sealing solution for API 6A and API 6D valves and related equipment
- (7) Sealing solution for CNC lathe
- (8) Screw air compressor
- (9) Robotic arm
- (10) Dispenser
- (11) High pressure water jet (gun)
- (12) Automotive seals
- (13) High temperature and high pressure equipment
- (14) High rotating speed equipment

4. Design and analysis software

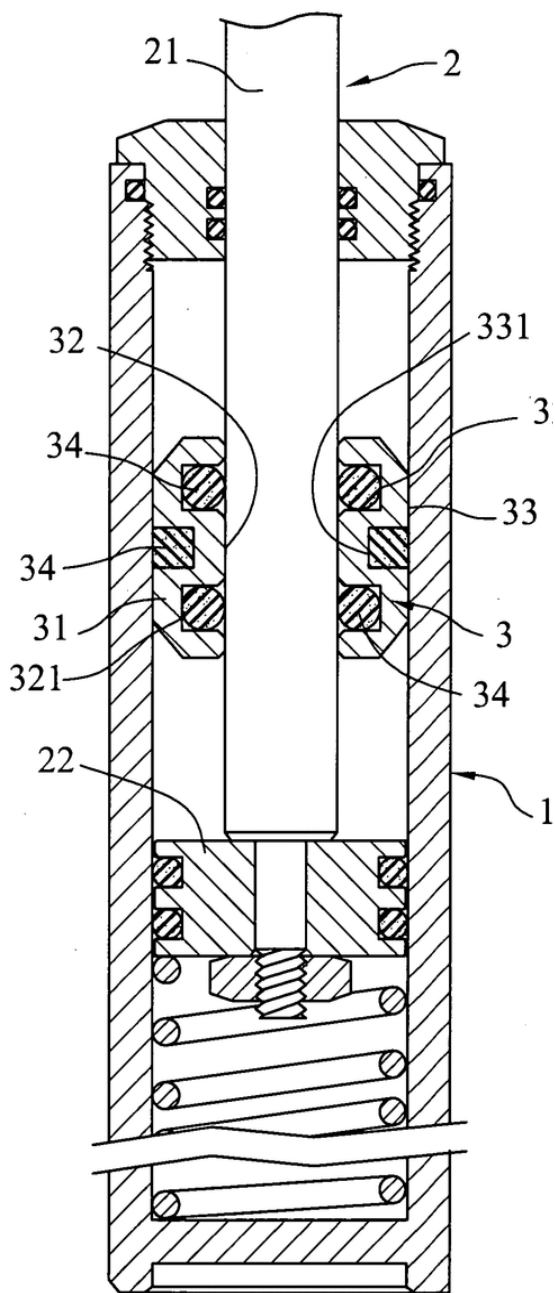
- (1) AutoCAD 2018
- (2) SOLIDWORKS 2018
- (3) MSC MARC (FEA) 2018
- (4) Finite Element Analysis case of seals, see attachment 1.

5. Patent

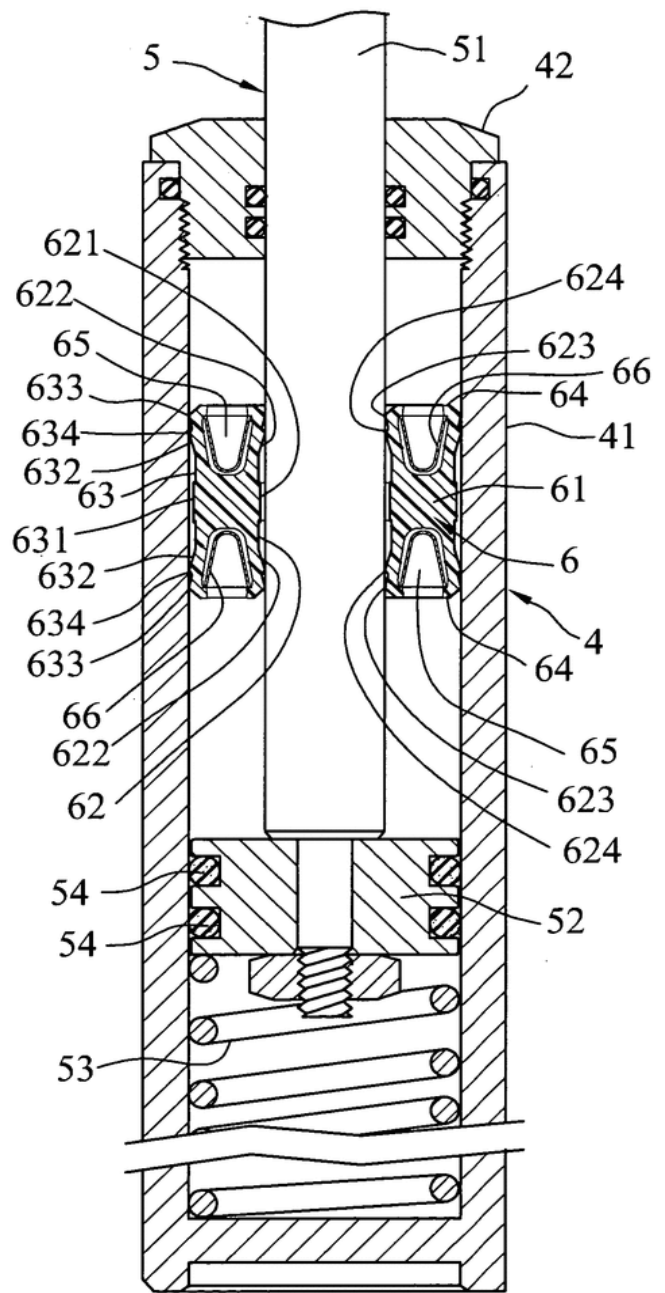
- (1) (For bicycle) Damping device, New Patent of the Republic of China M534270, as diagram shown below.
- (2) (For bicycle) Damping device, People's Republic of China utility model patent announcement CN206290638U.

6. Production floor area : 5,700 m²

7. Employees : 50

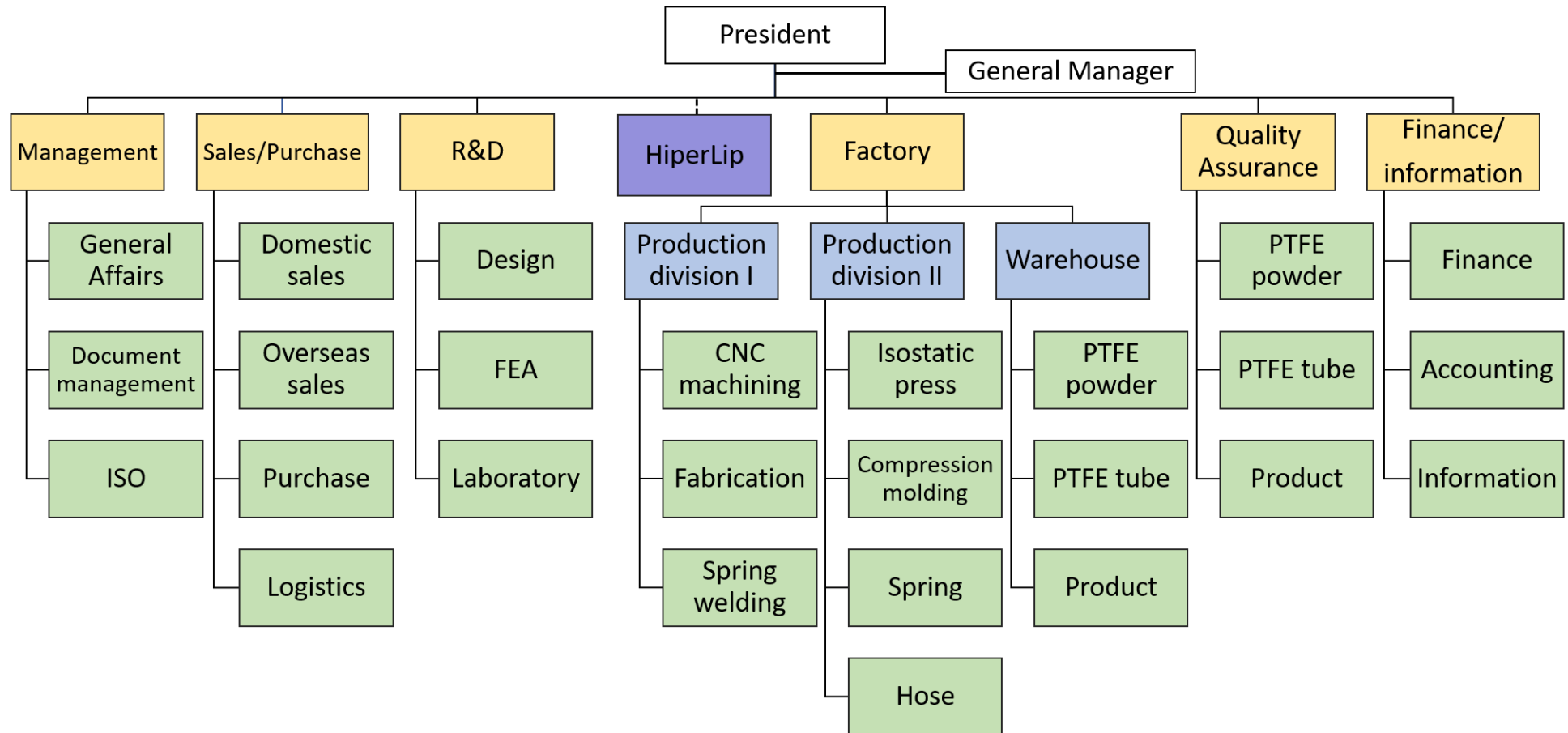


Traditional design



New patent design

8. Company organization



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