



- FRICTION DISC
- STEEL PLATE
- BRAKE SYSTEM
- CLUTCH SYSTEM
- GEAR & SHAFT
- CONTROL VALVE



JINMYUNG FRICTECH 

JINMYUNG POWERTECH 

INNOVATION OF WET FRICTION SYSTEM

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Product Line Up



Friction Disc and Steel Plate

JMFT develop sophisticated metallic and non-metallic friction materials through continued research and development.

Our friction qualities include sintered metallic, advanced friction paper, carbon, graphite, cork, molybdenum and resin mould. All our qualities have been proven through extensive in-house dynamometer analysis and customer application testing.

JMFT also produce a variety of high quality steel counter plates to provide the correct friction couple solution. These products are manufactured with the latest technology in profile shaping, heat treatment, surface finishing and final inspection.

Wet Brake System

JMFT produces various kind of brake systems used in wet environment. These products are designed and developed to demonstrate full braking power according to the characteristics, services and structures of the equipments required.

Such brake system are designed through CAD systems, and the product quality is assured by conducting a series of testes, after products are precisely processed by using advanced equipment like CNC lathe and machining centers.

Especially, the friction materials used for friction discs are chosen from paper, sintered, graphite and carbon depending on the equipment operation conditions.



Wet Clutch System

JMPT has developed both hydraulic and pneumatic multi plate clutch systems to be used in the wet environment. These products are typically mounted into Powershuttle and Powershift multi clutch transmissions to be used in the construction, agricultural and commercial vehicle market. These systems provide customers with both technical and commercial benefits.

Operation of these clutches can be a performed with a range of 3–30kg/cm² of either hydraulic or pneumatic pressure, with the advance friction materials used in the clutch to provide smooth engagement characteristics and longer life operation. Assembly of these clutches can be automatic with 100% in process calibration and checking to ensure fully functional units are delivered to the customer.

Gear, Shaft & Clutch Housing

JMPT can also produce a wide range of individual gears and shafts items to be used in various driveline applications. Our companies vertical integration policy, means that all the equipment to produce these components is in house. For creating the gear profile all hobbing, rolling, shaving, shaping and gear grinding machinery are available in house to ISO Grade 1 profiles. On top of this, all shaft and gear heat treatment equipment is also in house.

To create the modularized clutch systems, JMPT has developed an innovative solution to form the clutch carrier. The housings are created using an advanced cold Flow-Forming process which gives significant commercial and technical advantages. These housings can then be welded to the shafts using internally developed Electron Beam Welding techniques.

To ensure the high quality of our products, the latest measurement and analysis equipment is used, from CCM, Gear Profile, Chemical Analysis, Hardness Checking and full product in process scanning.



Control Valve

JMPT has newly developed in-house a class leading Control Valve Assembly, to go along with the in-house designed and developed wet Clutch Assemblies and PTO's. These assemblies can provide, smooth clutch engagement, drag torque optimization, durability and inching performance.

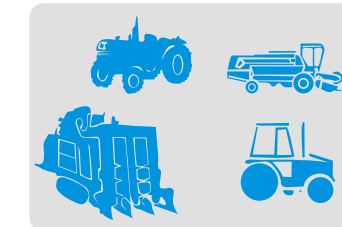
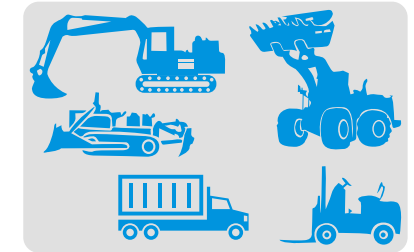
As these components have been design, tested and developed internally, this puts JMPT in a position to supply and support its global footprint of customers.



Application

FOR CONSTRUCTION, HEAVY DUTY

- ▶ POWER SHIFT CLUTCH
- ▶ 4WD CLUTCH
- ▶ WHEEL BRAKE
- ▶ PARKING BRAKE
- ▶ STEERING CLUTCH
- ▶ PTO CLUTCH
- ▶ DIFFERENTIAL CLUTCH
- ▶ LSD CLUTCH

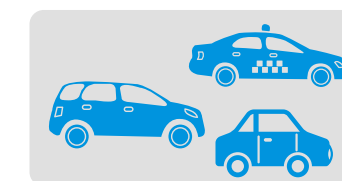
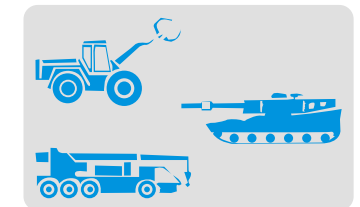


FOR AGRICULTURAL MACHINES

- ▶ MAIN CLUTCH
- ▶ WHEEL BRAKE
- ▶ PARKING BRAKE
- ▶ DIFFERENTIAL CLUTCH
- ▶ PTO CLUTCH
- ▶ POWER REVERSER CLUTCH
- ▶ POWER SHIFT CLUTCH
- ▶ 4WD CLUTCH
- ▶ QUICK TURN CLUTCH
- ▶ LSD CLUTCH

FOR SPECIAL PURPOSE EQUIPMENTS

- ▶ LOCK-UP CLUTCH
- ▶ STEERING CLUTCH
- ▶ PTO CLUTCH
- ▶ POWER SHIFT CLUTCH



FOR AUTOMOTIVE

- ▶ CENTER DIFFERENTIAL CLUTCH
- ▶ LSD CLUTCH

Original manufacturing logic for enhance efficiency and stable quality

JMFT makes an effort to deliver outstanding products quickly at lower cost are not limited to the current technology level. Most of our manufacturing system is developed in our house to create a production logic basis that makes ensure both quality and cost. For friction disc and wet system production lines are each developed to improve customer satisfaction and also, other related environments.



Auto Pre-Bonding M/C

Assembly Pack Tester

Flow-Forming M/C

Electron Beam Welding M/C

Gear Grinding M/C

Test to prove performance that can withstand even extreme conditions

Various working environments are simulated during the APQP and strictly test to measure the friction material characteristic like as friction coefficient heat limitation and energy capacity. Also for clutch system, a variety of tests are carried out including various computer generated simulation of starting, travel and stopping. Our clutches accurately pass the performance level for safety as well as heat resistance and wear resistance.



LVFA

Torsional Fatigue Tester

SAE No2 Tester

Clutch Pack Tester

Control Valve Tester