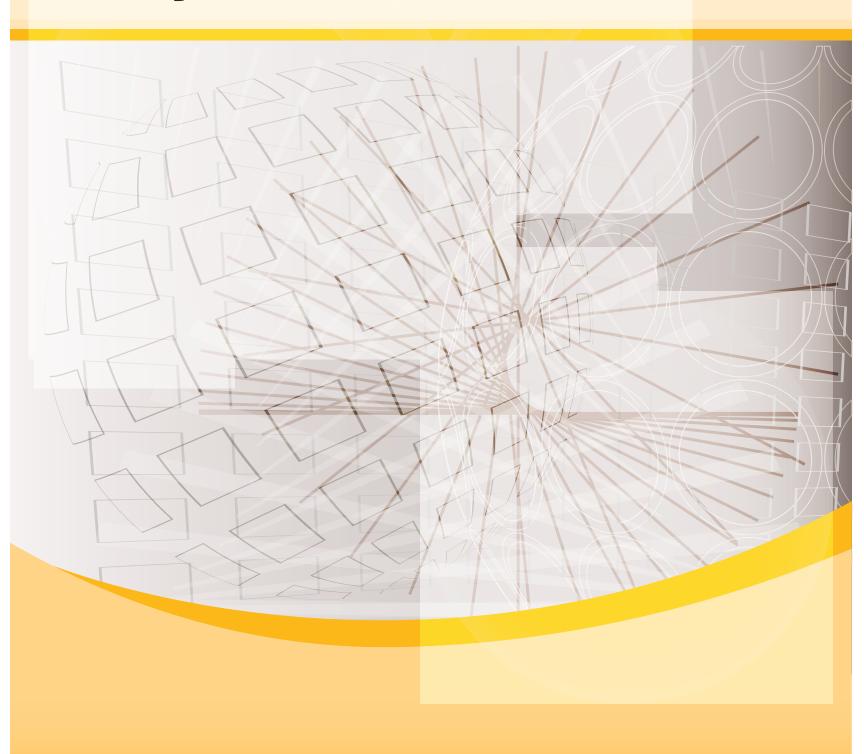


Parker Hydraulic Products

ARVI HITECH



ARVI Hydraulic Product Range



When it comes to hydraulic products, Parker is the most recognized name in the business. With over 75 years of experience, Parker currently inventories more than 200,000 hydraulic part numbers, allowing for unlimited solution possibilities. Customers can reduce their number of vendors without compromising quality. And buying from a single source saves time and money, allowing for easier ordering and faster shipping.

Accumulators

Accumulators maximize the energy efficiency of hydraulic systems by increasing productivity, reducing maintenance and lowering overall operating cost. These systems last longer and provide better performance than comparable systems without accumulators

- · Piston, bladder and diaphragm designs
- Shock suppressors
- Reservoir isolators
- Gas bottles
- Charging kits and accessories



Rotary Actuators



Hydraulic and pneumatic rotary actuators featuring long-life, durability and high efficiency for low cost operation. Offering a full range of torque options and pressure ratings matched to the application for an optimum solution.

- Rack and pinion
- Non-tie rod rack & pinion
- Single and double vane
- Custom engineered housings and shafts
- Materials: titanium, monel, stainless, bronze
- Special environments and applications

Cylinders

From off-the-shelf mobile or quick-delivery tie rod to highly engineered cylinders for your specific applications, the wide array of hydraulic cylinders from Parker reduce your cost by providing the optimum hydraulic actuator solution.

- Industrial Tie Rod
- Mobile
- Mill Type
- Electrohydraulic
- Telescopic
- Custom







Filtration

Parker's hydraulic filters deliver positive protection against contamination, providing reliability for your hydraulic systems and components. On-line particle analysis, off-line bottle sampling and water contamination analysis are perfect complements to high performance.

- Pressure & return filters
- Off-line & purification systems
- Reservoir accessories
- Fluid condition monitoring
- Fluid analysis
- Competitive interchanges



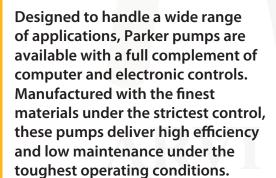
Motors



Parker's complete line of long life hydraulic motors provides solutions to almost any rotary power application. Piston units deliver unmatched performance and efficiency. Gear and gerotor motors are a lower cost answer for many applications. Pressures to 420 bar (6000 PSI). Horsepower from 5 to over 600.

- Low speed high torque motors
- Gerotor
- Radial piston
- High speed motors
- Piston fixed & variable displacement
- Vane
- Gear

Pumps



- Gear pumps
- Piston and Vane pumps
- Fixed and variable displacement pumps
- Gold Cup hydrostatic transmission pumps
- Flow dividers/intensifiers







Compact Hydraulics



Compact, powerful and efficient performance are delivered from Oildyne products. Robust, simple designs provide power density, easy installation and flexibility for use across a wide variety of applications.

- Electro-hydraulic actuators
- Miniature power units
- Fluid power systems
- Gear motors
- Piston pumps
- Cartridge piston pumps
- Hand pumps





Threaded Cartridge Valves



Parker has one of the broadest lines of cartridge valves and manifold systems in the industry. With expert applications engineering assistance, we can develop and design virtually any solution to meet your needs. From • Load and motor controls simple cartridge valve applications to • Proportional control valves complex integrated manifold systems, • Integrated manifold solutions we can handle it all.

- Solenoid valves
- Pressure controls
- Flow controls
- Check and Shuttle valves
- Logic elements

Valves and Controls

Parker provides the largest selection • In-line products including flow of Mobile and Industrial valve products ranging from simple in-line valves to high performance sectional and manifold mounted directional and proportional valves

- and pressure controls, checks, ball and shear seal valves
- Manifold mounted pressure, directional, proportional control and servovalves
- Mobile open-center and pressure-compensated loadsense valves (pre & post comp)
- In-line accessories and hydraulic remote controllers



Hydraulic Accessory Valves



Flow controls, flow dividers, pilot • Flows to 225 LPM (60 GPM) operated check valves, relief valves, selector valves and bankable/stackable directional control valves

- Pressures to 207 Bar (3000 PSI)
- Cast iron bodies

Colorflow Valves

- Inline mounted flow, check, needle, gauge isolator and snubber valves
- Flow controls available in pressure compensated models
- Sizes \(^1/8\)"-2\"
- Choice of NPTF, SAE, BSPP and ISO 6149 metric ports
- Maximum operating pressures up to 345 Bar (5000 PSI)
- Flows up to 568 LPM (150 GPM)
- Steel bodies; some models also available with brass or stainless steel







Ball Valves

- Designed for hydraulic, pneumatic and other media
- Features full-port design for low pressure drop and maximum system efficiency
- Blowout-proof stems
- Assortment of port configurations including threaded, manifold mounted, SAE split flange and a unique 4-bolt rotating SAE flange design



Electro hydraulic Servo valves

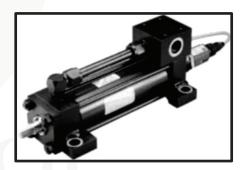


Robust, reliable, industrial strength Valves for motion control applications

- Flow ranges up to 340 LPM (90 GPM)
- Maximum operating pressures up to 345 Bar (5000 PSI)
- Explosion proof models available
- Intrinsically safe models available
- Valves meet CSA, FM and Cenelec standards
- Low flow models available to 1.9 LPM (0.5 GPM)

Linear Servo Actuators

- Fully assembled and tested units
- Bore sizes from 2"-10" (51-254mm) with LDT feedback
- Strokes up to 180" (4572mm)
- Nominal pressures up to 207 Bar (3000 PSI)
- Mounting sub plate NFPA D03, D05, or servo



Compact Hydraulic Power Units



ARVI HITECH

Our compact 108 Series power units let you put the power where you need it. They're completely selfcontained with an AC or DC motor, gear pump, reservoir, internal valving, load hold checks and relief valves. The 108 Series models are designed for intermittent service and come in four standard pump sizes which produce flows of .0098, .0187, .0246, and .0321 cubic inches per revolution. Locking check valves are available in all models. Performance will vary with the type of fluid used. Several hydraulic circuits are available. 108 Series units are available with single- or bi-directional rotation.



Pneumatic Cylinders

ICS - ISO Cylinders

A completely new cylinder range from the ground up, with major investment in research, material and technology, demands long experience and major resources. When we developed our new cylinder range, we started from scratch, but not really. Decades of research and learning about what our customer really need world-wide has given us a very stable foundation to start from

The new ICS is a cylinder design of the highest possible quality, every detail has been thought through, without making any compromises, It has a large number of innovations which could only be achieved by using the best possible materials and methods. The result is a complete family of ISO/VDMA cylinders, of which we are very proud. The new Parker ICS is a high technology cylinder design for us about every conceivable application, both simple and highly complex.





2A/2AN NFPA Industrial Tie Rod Style Cylinders

Pre-lubricated, durable steel construction cylinder rated to 250 PSIG for the most demanding pneumatic applications, 2A/2AN cylinders offer 4 standard piston rod end configurations and are available with cushions, end of stroke position sensing linear position sensing and a full line of mounting accessories.

- · 13 standard bore sizes from
- Rod sizes 1/2" to 51/2" diameter
- Built to any practical stroke length
- 18 standard NFPA mounting styles

P1D Series Non-Lube ISO Cylinders

The new P1D Series cylinders offer a number of innovations that can be achieved only by using the best possible materials and design. The result is a complete family of ISO/VDMA cylinders with exceptional performance. The Standard version offers the most cost effective solution. The Removable Gland version adds ease of repair and flexibility. The Clean version, with its positive geometry and hygienic design, offers a solution in washdown environments where cleanliness is key. The Tie Rod version offers a more tradition approach that can be utilized in multiposition





2MA with Linear Position Feedback

The 2MA with linear position feedback provides features which assure reliable operation in many areas of automation and process technology, even under extreme ambient conditions.

- 7 standard bore sizes from
- Magneto-strictive feedback technology
- Analog or digital
- outputs 11 standard mounting styles

P1A Series Mini-ISO Cylinders

P1A Series cylinders are ideal for the food. packaging and textile industries. All P1A cylinders $incorporate\, adjustable\, end\, cushions\, and\, magnetic$ pistons standard. Other standard features include 304 stainless steel bodies and piston rods and black anodized aluminum end caps for superior corrosion resistance.





SR/SRM & SRD/SRDM Series Stainless Steel **Body Cylinders**

Cylinders include a 304 stainless steel body for space-saving, lowcost, high-performance operation in light-duty applications. Single and double-acting cylinders are prelubed. Pressures up to 250 PSI.

- 12 standard bore sizes from 5/16" to 3"
- 28 mounting styles, full line of
- mounting accessories
- The SRD/SRDM Series offers. Delrin heads and caps for superior corrosion resistance.
- 5 standard bore sizes from 9/16 to 2"
- Stroke lengths to 32" standard
- 2 mounting styles, custom to order





Pneumatic Cylinders

P1M Swing Clamp Cylinders

LP/LPM Series Low Profile Cylinders

The P1M Swing Clamp option offers clamping capability to the extensive list of features associated with the P1M cylinder. This option is ideal for clamping applications that have limited space available.

- 32, 40 and 50 mm bore sizes
- 10, 20 and 50 mm stroke lengths
- 90° clamp rotation
- Rotation reversible in the field





Low-profile, lightweight aluminum cylinders fit tight space requirements. Non-lube service for pressures to 250 PSI. LPM Series offers a magnetic piston when piston position sensing is required.

- 8 standard bore sizes from 9/16" to 4"
- Strokes from 1/8" to 6"
- 6 standard mounting styles

P1G Series Cartridge Cylinders

P1M Series Extra Low Profile Cylinders

Efficient, compact design for use when space is at minimum. An unique internal transfer tube provides for single or dual end porting. Recessed magnetic piston sensing switches fit flush with the cylinder body to economize space and simplify machine automation.

- 10 standard bore sizes from
 12 mm to 100 mm
- Stroke lengths customized to your application
- Industry and VDMA mounting Interchanges





Threaded body, cartridge style cylinders provide space savings and flexibility.

- 6, 10 and 16 mm bore sizes
- Stroke lengths to 15 mm
- Nickel plated body and stainless steel piston rod construction standard

P10S Cylinders

The P10S range of cylinders is intended for use in a wide range of applications. These cylinders are particularly suitable in applications such as packaging, the food industry and the textile industry.

Careful design and high quality throughout ensure long, trouble free service life.

The compact design, with through mounting holes that are countersunk and tapped at both ends, make the cylinders easy to mount, with or without mountings.

They are available in diameters of 12, 20, 25, 32, 40, 50 and 63 mm, with stroke lengths up to 100 mm.

The singel acting version is available in the same bore size as the double acting version and with stroke lengths up to 50 mm. All cylinder types have magnetic pistons as standard and are initially lubricated with our food grade grease. Reed switch and solid state sensors are available as accessories and can be fitted in the dove tail slots on three of the sides of the cylinder body.

PRN/PRNA Series Rotary Actuator

The PRN/PRNA Series uses a rounded vane design in its nine sizes, helping to reduce vane seal leakage and lower breakaway pressure. The PRN/PRNA also has an optional, externally mounted hydraulic shock absorber which can be used in high inertial load applications.

- Single and double vane
- Miniature and standard models
- Optional Hall effect or reed switches and hydraulic shock absorber (hydro-cushion)
- Foot or flange mounting
- Maximum operating pressure 9.7 Bar (140 PSI)









Pneumatic Valves

Parker PHS Series Solenoid pilot actuated in-line valves

3/2, 5/2 and 5/3 configurations
Sizes 1/8", 1/4", 3/8" and 1/2"
Higher flow rates, compact design
Solenoids are available with locking or
non-locking manual over rides.
Max operating pressure 10 Bar
Working Temperature +5°c to +60°c
Flow rates up to 3000 LPM





N Series High-Speed Poppet Valves

Compact inline design in three body sizes features a short stroke poppet for fast, consistent response. Prelubed for non-lube service. Suitable for low pressure and vacuum service with external pilot. Special service pilots available for applications requiring continuous duty operation. Pressures up to 250 PSIG. 2 and 3-way, 2-position

- Three body sizes
- Normally open or normally closed
- Inline mounted

PVL Series

Easy in, easy out stack assembly speeds installation and makes future configuration changes or service fast and simple. Output ports available either threaded or with instant tube fittings. Thin valve cross sections allow for more valve outputs in a smaller package. Stack has two common exhaust galleries.

- Three body sizes
- Stacking manifold valves designed for DIN rail mounting
- Single and double solenoid or air pilot operated





ADEX Series

Valves utilize 0.6 watt solenoids with LED and surge suppression. The collective wiring system available for A05 and A12 valves accommodates up to 12 stations and connects with Sub-D 25 or 26-pin ribbon.

- 4-way, 2 and 3-position and 3-way,
 2 position (NO or NC)
- · Inline or bar manifold mounted
- Collective wiring system Sub-D 25 or 20-pin Multi connector

Air Logic Control Systems

Virtually all production machines using pneumatic actuators operate in a dedicated and repeatable sequence or cycle. The purpose of any control method is to insure that all steps of the machine's cycle occur as intended. The sequencer constitutes the backbone of a Telepneumatic control circuit. The sequencer's poppet design provides long life using only shop air. Since it is modular, the sequencer can easily be configured to any application cycle requirement. Logic elements and supporting relays provide for other application needs such as safety conditions, operating modes and time delays.

- Sequencer module
- Logic elements: and, or, not, yes, memory
- Time delay relays
- $\bullet\, \mathsf{Amplifier}\, \mathsf{and}\, \mathsf{sensor}\, \mathsf{relays}$
- Fixed and variable pulse units
- Pneumatic pressure level switch
- Head and tail set for DIN rail mounting
- Two hand control module





Moduflex Series

With high performance technology, Moduflex opens a new era in the field of electro-pneumatic automation. Valves may be standalone or assembled into short long islands, depending on the application. With IP 65-67 water and dust protection, the valves can be installed near the cylinders for shorter response time and lower air consumption. Metric sizes are also available. Island modifications are easy and adding or removing a valve or changing a valve function, tubing size, or piloting can be done in minutes. Moduflex is offered with DeviceNET, Profibus-DP, Interbus-S, CANopen and ASi serial bus communication protocols.

- 2 valve sizes
- 3-way, 2 position single, 4-way, 2-postition single and double, dual 3-way, 2 position, 3-pos CE, APB and PC
- 5/32" or 1/4" or 1/2" push-in fittings
- Peripherals include flow controls, pressure regulators and dual PO check modules
- Cv = 0.32 to 0.8





Pneumatic Valves

ISO Valves

Sub-Base and manifold valves conforming to ISO 15407-2, ISO -5599-2 and ISO 5599-1

- Fort Sizes up to 3/4"
- Operating Pressure vacuum -145
- Terminal Block wiring, Collective wiring.
- D- Susconnector, Isynet Serial Bus
- Flow rates up to 6000 LPM
- A complete serial bus communication offering for all ISO valves
- Sandwich Regulators, flow control valves available.





Moduflex FRLs

Fully modular FRL Series

- Port sizes G1/8 & G1/4 (40mm body)
- Port sizes G 3/8 & G1/2 (60mm body)
 Port sizes G1/2, G3/4 & G1"
- (80 mm body)
- Ultra modern design
- Assemble combinations without tools
- Marine grade aluminium construction.
- Unique Cliplock Mounting System.
- 5 Micron, 40 Micron elements on standard options include coalesing units.
- Optional manifold mounted regulators.

Filters, Regulators & Lubricators

Parker FRLs offer rugged performance and dependable service in a wide variety of sizes and flows. Available with polycarbonate or metal bowls. Operating pressures to 250 PSIG. Modular accessories are available for most sizes.





Viking Valves

The Viking Xtreme valve range is robust, versatile and combines high performance with compact installation dimensions. Large flow capacity, shot change-over times and low change-over pressure are important characteristics of this valve range.

All 4 sizes are designed to operate with pressures up to 16 bar and with temperature ranges from -40 $^{\circ}$ C to + 60 $^{\circ}$ C.

Solenoids are available with locking and non-locking manual over rides.

Manifold bar installation and pressure bar installation

Flow rates up to 2700 LPM

Tubing and Thermoplastic Hose

High resistance polyamide body

- Stud fittings brass nickle plated
- Miniature Fittings with full flow capacity
- Teflon coated BSPT threads
- Face seal with BSPP threads
- Positive hold with stainless steel grab ring
- Push button tube release
- For nylon or polyurethane tube. Both Metric and Imperial sizes available in tubes









Pneumatic Applications

LF 3000 polymer push-in fittings, flow control regulators, pneumatic function fittings and universal compression fittings



For Demanding Applications

LF 3600 chemical nickel-plated brass instant fittings, function fittings and accessories





Stainless steel fittings: LF 3900 / LF 3800 instant fittings, flow control regulators and accessories



Accessories and Plugs

Technical Tubes



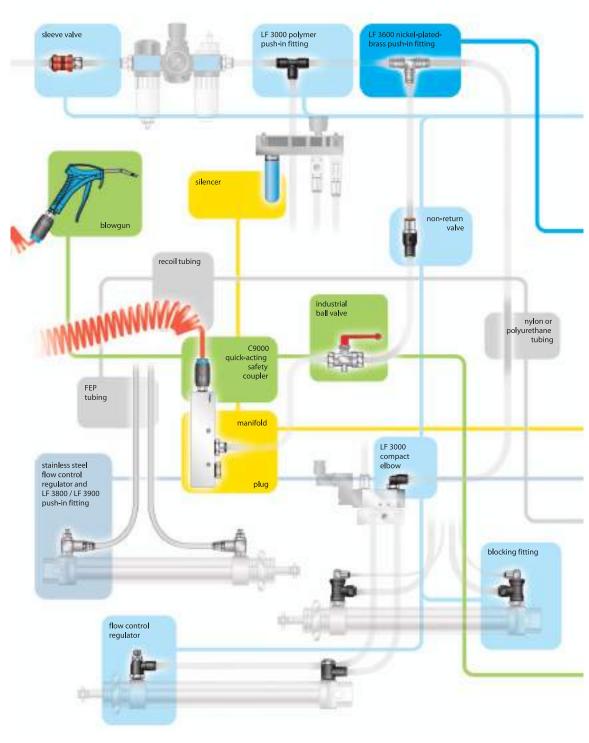
Complementary Range Complementary range: C9000 quick-acting

couplers, blowguns and ball valves





Build your installation with the Legris range





Fluid Connectors

DIN Fittings



O-Lok



Tooling



Tubes



A RVI HI JEGH

Adapter



Rotary Fittings



Triple Lok



Valves



ARVI HITECH No: 210, Anna Street, Devar Nagar, Padi, Chennai - 600 050. Tel Fax no: +91-44-26543738 Mobile: 9884802547 & 9840601278

High Pressure Hydraulic Flanges



Diagonistic equipment



Tube Clamps



Weld Fitting





Parker Electromechanical Products

ET Series Electric Cylinders

The ET Series Electric Cylinder is built to last. Its robust design, which includes angular contact thrust bearings and roller bearing anti-rotation rod bearing carriage, ensures durability in the most demanding application. Available in four sizes, the ET Series offers the choice of ball screw or acme lead screw transmissions.





ER Series Rodless Actuators

The HPLA is a rugged "next generation" linear module that offers high speed, high acceleration, and long travel, combined with stiff, rigid construction characteristics. It is ideally suited as a single axis product or as a component for high speed multiaxis gantries. The HPLA carriage is rigidly supported on three sides by heavy duty roller bearings, housed in a rugged aluminum housing. The bearing wheels are pre-loaded via eccentric bushings to eliminate play in the system, and are strategically located to evenly distribute the load across the length of the carriage.

Planetary Gearheads

Parker Integrated Planetary Gearhead further enhances our servo motor product offering, providing the

shortest overall motor/gearhead package length in the industry. By designing the pinion gear into the motor shaft, we have eliminated the need for an adapter plate and coupling, reducing the package length by up to 2 inches.

In addition, we provide a system specification for each motor/ gearhead combination, which simplifies component selection and shortens the design cycle time. Seven standard gearhead ratios (up to 100:1) are available in sizes 16, 23 and 34.





Drives & Contollers

Parker servo and steper drives offer the latest technologies in drive products available today.

Our compact and high performance drives are tightly integrated with our controllers and motors and come in a broad range of power levels.

Parker drive systems offer power and diversity in a multitude of form factors. We offer a wide range of digital and analog servo and stepper drives for all your motion needs, as well as convenient packaged drive/controller systems.





autorotor

Rotary Indexing Tables

Autorotor Rotary Indexing Table series 5 is a mechanical square axis unit to transform the uniform rotation of inlet shaft in an intermittent rotation of output disk. The number of standard indexing ranges from 2 up to 32. From 32 up to 540 indexing on request. Indexing tables are generally mounted on:

- Assembling machines
- Packing equipments
- Manufacturing equipments
- Automated welding machines
- Movement devices
- Machining isles
- Filling machines
- Printing machines



Servo Driven Indexing Tables

The same mechanism, the same reliability, the same precision as the mechanical indexing tables Series 5. On the top of it, totally programmable by means of a PC, PLC or a dedicated panel. It is possible to set the angle of rotation, the turning speed and the acceleration ramp.

The servo motor which moves the table is driven by a digital gear with integrated axis card.

The TE table can operate both within a bigger system (in this case its brand of electronics will be the same as the system's) and autonomously, in medium-small very flexible structures.

Rotary Rings

Rotary indexing table series 5 and Indexing Rings are mechanical square axis devices which transform the uniform rotation of inlet shaft in an intermittent rotation of output disk. These commonly used tables are characterized by high speed, continuous and totally controlled displacement, smooth running also at high frequency, self-locking in dwell position, high repeatability, absence of vibrations, low maintenance and low installed power.



Square axis Intermittent and Oscillating Drives

The IT series intermittent drives and the OT series oscillating drives are mechanical square axis devices.

A mechanical barrel cam and followers transform the inlet shaft uniform rotation into intermittent rotation (as regards IT series), or an intermittent oscillation (as regards OT series), at the outlet. Also for the IT series, the number of standard indexing can range from 2 up to 32, over 32, up to 540 on request (it is also available the continuous type). Standard oscillating angle of the OT series can be up to 90°. As a rule for all the production, Auto rotor applies the most suitable motion law for specific customer's need, following mathematical exact functions.

High Speed Intermittent Oscillating Drives

The Autorotor high speed intermittent drive ITV series 5 is a mechanical square axis device. A mechanical cam with followers transforms the inlet shaft uniform rotation into a predetermined intermittent rotation or oscillation at the outlet. High speed intermittent drives ITV series are mechanical square axis devices, whose operating principle is almost the same as the IT series above. Their peculiar manufacturing feature, however, make them a class of products apart. At Present their speed can reach 700/800 cycles/min. (excellent speed for tablet press, high speed press/shears feeder, etc.), although featuring high repeatability and absence of vibrations which are peculiar to Auto rotor production.





Parallel axis Intermittent and Oscillating Drives

Intermittent drives series AP(PARAL-LEL AXIS) and oscillating drives series OP are mechanical parallel axis units which transform the uniform rotation of the inlet shaft in an intermittent rotation of the output shaft.

The output shaft is hollow, so hoses, wires, etc. can pass through it.

The number of AP indexing ranges from 1 to 8; standard OP oscillation angle can reach 45°.

autorotor

Manipulators

Mechanical rotary and linear manipulators are suitable for moving and positioning of pieces at high speed. Construction with positive movement, where masses are controlled in acceleration and deceleration, allows uniform transfer, without shocks and vibrations, up to 120 cycles/min. Linear manipulator horizontal stroke can be adjusted from 75 to 200 mm., while vertical stroke can be adjusted from 30 to 75 mm. Rotary manipulator standard angular displacement can be of 30° - 60° - 90° - 120° - 180°, and vertical stroke range from 40 to 180 mm. On request, Auto rotor can also supply motor drives for its products. This material (reduction units, self-braking motors or dynamic brake motors, brake-clutch units, converters, etc.) is not manufactured by Auto rotor, but supplied by very well-known trade marks. Obviously, Auto rotor follows customer's requirements for a specific trade mark.



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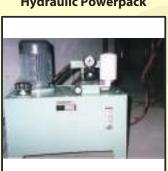


Solutions

Oven Endurance Testing fixture



Hydraulic Powerpack



Pneumatic Panel



Damper Cylinder



Refrigeration Type de-humidifier



Pneumatic Control panel



Die-Coat mixing tank



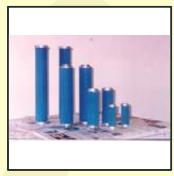
Pneumatic Control Panel



Refrigerated Air Dryer



Special Micro Filter Elements



Concrete mixing Batching Plant



High pressure test bench



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