

Pro-Dex Offers:

Components

- Operates on compressed air, nitrogen or other inert gases at pressures up to 150 PSI
- Aluminum and stainless steel construction
- Advanced rotor blade design and highly polished cylinder for continuous operation
- Precision ball bearings virtually eliminates friction and wear
- Motors remain cool, even when operated under continuous load
- Repeated stalling, instant reversing will not harm the motor
- Spark-free operation is suitable for use in contaminated, wet or explosive environments
- Instant on, instant off, no wind-up or coasting
- Hardened planetary gear system provides increased torque transmission capabilities and long life
- Lower air consumption than larger motors conserves energy



(800) 562-6204 • www.Pro-Dex.com

Accelerating Possibilities

About Pro-Dex, Inc.

Headquartered in California, USA, with operations in Oregon and Nevada, Pro-Dex delivers products that are often customized to fit the demanding applications of our customers. www.Pro-Dex.com

Our Four Focus Areas Include:

Medical Device Manufacturing Services

Pro-Dex's ISO 13485-certified facility gets electro-mechanical devices planned, built and on the shelf quickly with outsourcing excellence. Customers rely on our proven RA/QA expertise, streamlined documentation and release processes, and lean manufacturing to get their products to market.

Our precision machining capability and high-mix manufacturing flexibility can produce your components to full systems, and everything in between. Our trusted team ensures high quality, reliable and regulatory compliant products delivered on time.

Powered Surgical Devices

Pro-Dex's unique and specialized experience in designing and delivering reliable, powered surgical devices that withstand harsh environments, enables our customers to provide complete medical device systems.

Pro-Dex is your resource for manufacturing capacity overloads, powered surgical device expertise, and for compressing your time to market, enabling your focus to remain on your core business.

Corporate Headquarters: Powered Surgical Devices and Medical Device Manufacturing Services
2361 McGaw Avenue, Irvine, CA 92614 USA
(800) 562-6204 • (949) 769-3281 Fax • www.Pro-Dex.com

Custom Motors for Harsh Environments

Pro-Dex Carson City produces reliable, custom, fractional-horsepower motors for customer's products that operate in harsh or challenging environments in medical and aerospace applications. Our unsurpassed technical support and customer service assists each customer with solutions for their unique requirements.

Pro-Dex Custom Motors
2950 Arrowhead Dr., Carson City, NV 89706-0488
(775) 883-9226 • (775) 883-9228 Fax • www.Astromec.com

High Performance Multi-Axis Motion Control

Pro-Dex OMS provides rock-solid multi-axis motion control with the right combination of standard and customer specified features for general motion application as well as critical applications where failure is not an option. Our customers' count on us when their success depends upon consistent, reliable performance in demanding applications such as Lab Automation, Medical Equipment, Semiconductor Equipment and specialized needs in Research Facilities around the world.

Pro-Dex OMS
15201 N.W. Greenbrier, B-1, Beaverton, OR 97006
(800) 707-8111 • (503) 629-0688 Fax • www.Pro-DexOMS.com

Powerful Mini Air Motors & Drills

For high performance medical, robotic and industrial use



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Whether You Need Exacting Precision or High Performance, Pro-Dex Can Help

Pioneering Air Motor Design & Manufacture

Pro-Dex Custom Motors understands the stringent product design requirements involved in producing highly dependable air motors. Manufacturers choose Pro-Dex because they know they can count on a reliable power source that is small in size yet extremely powerful. Pro-Dex has pioneered the development and manufacture of miniature air motors for medical, robotic and industrial use for more than three decades. Today, hundreds of thousands of Pro-Dex air motors are in use worldwide, and are vital components of products produced by original equipment manufacturers and private label distributors. Known for exceptional reliability and long life, many Pro-Dex motors continue to perform after nearly two decades of continuous service.

Meeting Your needs for Torque and Speed

Pro-Dex motors meet your demanding needs of torque and speed. At only 3/4 inch in diameter, these precision motors produce stall torques from 2.8 in-oz to 1200 in-oz, at free speeds of 40,000 RPM to 7 RPM. Motors are available with either direct drive or internal gearing.

Customized Motors to Fit Your Specific Requirements

The Pro-Dex Custom Motor Team responds to your design needs and customizes air motors to fit virtually any small size and high-power application. Specific requirements for mounting, autoclaving, and speed-to-torque ratios can be accommodated. Pro-Dex maintains design, engineering and production staff all under one roof, which reduces development and lead times.

Rigorous Quality Control Systems Adhere to Medical Device Standards

Stringent quality control standards, from initial machining to finishing and on through assembly are followed. Precision manufacturing and test equipment ensures production of machined parts to your exact design specifications. All finished products must pass torque and speed tests before leaving the facility. Pro-Dex is ISO-13485 certified, registered with the FDA and adheres to Good Manufacturing Practices (GMP).

Partial List of Customers

- Champion Sparkplugs
- E.I. Dupont
- Emerson Electric
- Xerox
- General Motors
- IBM
- Rolls Royce
- Hewlett Packard
- Ingersoll-Rand
- Johnson & Johnson
- Parker Hannifin
- Procter & Gamble
- Siemens AG
- 3M



Pro-Dex Micro Motors Specifications

AIR DRILL		AIR MOTOR		FREE SPEED	STALL TORQUE INCH OUNCES	"L" LENGTH INCHES	APPROXIMATE WEIGHT: OZ.
Right Hand	Reversible	Right Hand	Reversible				
MMD-5000	MMDR-5000	MMF-5000	MMR-5000	40,000	2.8	2.56	3-1/4
MMD-2800	MMDR-2800	MMF-2800	MMR-2800	25,000	6.5	2.56	3-1/4
MMD-0700	MMDR-0700	MMF-0700	MMR-0700	6,300	22	2.56	3-1/4
MMD-0014	MMDR-0014	MMF-0014	MMR-0014	1,575	100	3.19	4-1/4
MMD-0004	MMDR-0004	MMF-0004	MMR-0004	400	320	3.81	4-3/4
+	+	MMF-002	MMR-0002	200	540	3.81	4-3/4
+	+	MMF-0001	MMR-0001	100	1000	4.44	5-1/2
+	+	MMF-5001	MMR-5001	25	1080	5.06	6-1/2
+	+	MMF-6001	MMR-6001	7	1,200	5.69	7



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