COMPONENTS, ENGINEERING DEVELOPMENT, AND MANUFACTURING

NOW

- One Single Source, SDP/SI



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SDP/SI creates precision gears, superior mechanical components, & customized solutions for:

- Medical Device & Healthcare
- Aviation, Defense, & Space Industries
- Robotics and Industrial & Warehouse Automation
- Oil and Gas
- Specialized Commercial Products

Originally created in 1950 to be *"the supermarket of stock components"* for the design engineer, SDP/SI has proven themselves to be much more. As a trusted partner to OEMs around the world we provide project management, engineering expertise & precision manufacturing from prototype to production. With world-class quality we specialize in small power transmission & motion control applications.

- CNC manufacturing and precision gear cutting
- Assembly of subassemblies for integration into larger systems
- Prototype to production
- Engineer to engineer assistance & design review
- Manage long-term agreements
- ISO 9001 + AS9100 certified
- AGMA member

SDP/SI offers the industry's most comprehensive selection of mechanical & electromechanical components

Gears and Gear Assemblies

Spur gears Bevel gears Gearboxes Gear racks Anti-backlash assemblies Worms and worm gears

Stock gears available for immediate delivery Download Design Data for Gearing

Synchronous Timing Belt & Pulley Drive Systems

- Stock timing belts and pulleys
- Customized drive components
- Secondary operations performed
- Timing belts cut in-house to meet your specified width requirements.

We Make it Easy -

- Get the best pulley and belt combinations at our Center Distance Designer Tool https://sdp-si.com/tools/center-distance-designer.php
- Download Design Data for Timing Belt and Pulley Drives

Stock and Custom Mechanical Components

- Couplings and universal joints
- Bearings
- Speed reducers/increasers
- Clutches and brakes
- Shafting and shaft accessories

SDP/SI Partners with Nidec MOTION CONTROL Extensive selection of servo motor systems & assemblies

Brushless DC motors & DC geared motors AGV geared motors and wheel kits Controllers Integrated motor drive controllers Frameless motors

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Our engineers can help configure the best combination of motor, mechanical transmission, and controller to meet your most stringent performance and reliability requirements.

Visit our website for product specifications, 3D CAD models, pricing, availability, part ordering 24/7, & request a catalog. **https://shop.sdp-si.com**

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ENGINEERING & PRECISION MANUFACTURING FOR THE



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Our Customers Include:

Boeing Curtiss Wright GE Aviation Systems Honeywell Israel Aerospace Kearfott Guidance L3 Wescam Lockheed Martin Magellan Aerospace NASA Northrop Grumman Corp. Raytheon Co. Robinson Helicopter

AVIATION, DEFENSE, & SPACE INDUSTRIES

SDP/SI High-Precision Gears | Mechanical Components & Assemblies AS9100 Registered.

Applications span a variety of commercial & military jets, tanks, missiles, UAVs, robots, & satellites.

- Actuation/Positioning Systems
- Antenna Positioning
- Cargo Movers
- Door Releases
- Fuel Control
- Instrumentation
- Rudder Control
- Stabilization Systems
- Structural Components
- Weapons Targeting

Comprehensive Engineered Solutions

Design review • Manufacturing efficiency Customer support & project management

Key Mechanical Components & Customized Assemblies Prototype to High-Volume Production

Spur Gears • Anti-Backlash Gears • Miter Gears • Racks & Pinion Gears Internal Gears • Helical Gears • Bevel Gears • Worm Gears • Differentials Gearheads • Planetary Gearheads • Speed Reducers • Worm Drive Gearboxes ISO 7 Class 10000 Clean Room for assembly and testing

Make SDP/SI Your Engineering and Manufacturing Partner

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PROVEN PERFORMANCE AND UNSURPASSED EXPERIENCE FOR THE



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Our Customers Include:

Medtronic Moog, Inc. Intuitive Surgical Siemens Healthcare Abbott Laboratories NxStage Medical, Inc. Instrumentation Labs Hologic Surgical Products Drager Medical Systems, Inc.

MEDICAL DEVICE & HEALTHCARE INDUSTRIES

SDP/SI Mechanical Components & Customized Assemblies Medical Applications Include:

- Minimally Invasive & Surgical Gear Drivers
- Pharmaceutical Processing & Packaging
- Therapeutic & Assisted Living Devices
- Medical & Dental Instruments
- Printing & Recording Devices
- Fitness Equipment
- Patient Positioning
- Robotic Surgery
- Pumps & Drives
- Drug Delivery

Precision Gears, Mechanical Components & Molded Parts

- Non-Corrosive Plastics
- High-Density Polymers
- Flexible Elastomeric Materials
- Wide Variety of Alloys
 - such as Stainless Steel, Titanium, & Aluminum
- High-Resolution Plastic
- 3D Printing for Prototypes

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ENGINEERING DEVELOPMENT & MANUFACTURING – SINCE 1950



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USA Manufacturer - World Class Quality 96,000 sq. ft. - Over 170 Machines

Precision gear and superior mechanical component manufacturer, assembly. Gears I Splines I Worm Gears I Gear Racks I Gearboxes Differentials I Timing Belt Pulleys I Shafts Couplings I Universal Joints Machined & Molded Mechanical Components

Machining capabilities in a variety of materials:

Gear Cutting: 16 DP to 200 DP Turning: 1/8" to 8" OD Milling: 8" to 20"

Operations include:

- CNC Swiss Turning, Multiple Spindle, 9-Axis
- CNC Lathe (Mill-Turn), Multiple Spindle, 5-Axis
- CNC Milling & Machining Centers, 4- & 5-Axis with automation
- Gear Cutting:
 - CNC Bevel
 - CNC Hobbing
 - CNC Shaping
 - Coniflex Bevel Gear Generators
 - Rack Cutting
- Rapid tooth cutting only capabilities send us your blanks!
- Timing belts precision cut to customized widths high volume
- Extremely high accuracy and tight tolerance machining
- Lights out manufacturing
- Shopfloor robotics
- Grinding and deburring
- 3D printing for prototype and low-rate production
- ISO 7 Class 10000 Clean Room for assembly







ENGINEERING DEVELOPMENT & MANUFACTURING - SINCE 1950



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Benefit from our Experience & Product Knowledge

SDP/SI engineers assist with individual components to entire drive assemblies for thousands of applications.

Aerospace | Medical Devices | Surgical Robotics Aviation | Defense | Robotics

- Comprehensive customized solutions
- Engineer to engineer support, resulting in:

Improved efficiency

- Ease of assembly
- Noise reduction
- Smaller size, fewer parts
- Optimum manufacturability
- Designed for improved field service
- Custom subassemblies for integration into larger systems
- Modifications and secondary operations
- Partner on substantial, long-term projects

Our Certifications ISO 9001:2015 + AS9100D Certified

ITAR Compliant - DDTC Registered

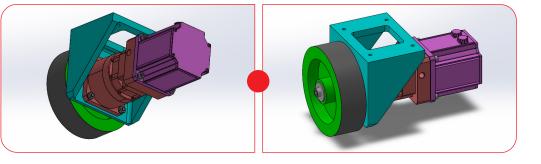
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Acme Lead Screws and Nuts Ball Screws Ball Nuts Linear Ball Bearings Linear Frelon® Lined Bearings Linear Guide Systems Linear Plain Bearings Miniature Mounting Blocks Precision Shafting

MOTORS, GEARHEADS, AND MOTION CONTROL

AGV Geared Motors AGV Assemblies & Kits DC Brushless Servo Motors DC Brushless Frameless Motors Gearheads - Spur and Planetary Gearmotors Integrated Motor Controllers Motor Controllers Stepper Motors

VIBRATION AND SHOCK ABSORBING COMPONENTS

Bolt Mounts Bumpers Cylindrical Mounts ISO - Pads

VIBRATION AND SHOCK ABSORBING COMPONENTS (cont.)

Finger-Flex Mounts Leveling Base Mounts Platemounts Ring Mounts Silicone Gel Tape, Chips, and Sheets Spring Suspension Mounts

HARDWARE

Bushings Cap Screw Kit Dials Handcranks Handles Nuts Pins **Retaining Rings** Screws Set Screws Shims Spacers Springs Stand-Offs Threaded Rods Thumb Screw Knobs Washers

UNIQUE COMPONENTS

Cams

Constant Force Springs Electromechanical Limit Stops Feed Rollers Friction Drive Wheels Idlers Neg'ator® Spring Motor Assemblies Precision Geneva Mechanisms Spir'ator® Spring Powered Reels Spring-Powered Reels



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GEARING

Anti-Backlash Assemblies Bevel and Miter **Cluster Gears & Hubs** Differentials Fairloc® Hub Type Gears and Gear Assemblies - Custom Gearboxes Helical Internal Molded and Nonmetallic Spur Pinions and Pinion Shafts Racks Right-Angle Bevel Right-Angle Helical Speed Reducers Splines and Splined Bushings Spur Spur Gear Stock Worms and Worm Gears



SHAFTING & SHAFT ACCESSORIES

Hardened and Ground Shafting **Ball Splines** Bore Reducers

SHAFTING & SHAFT ACCESSORIES (cont.)

Flexible Shaft Assemblies Gear and Dial Hubs Locking Hub Bushings Shaft Collars Shaft / Hub Clamps Shaft Reducers and Extenders Shaftloc®

COUPLINGS

Bellows Control-Flex Crowned Tooth Gear Type Disk with Split Hub Geargrip Heavy Duty Flexible Helical Jaw "K" Type Magnetic Disk Modular Bellows Neo-Flex Oldham Plastic Sleeve Spider Type Spline Type **Torque Tube** Fairloc® Shaft Couplings Multijawed



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