



MACKUBIN GROUP & MACKUBIN AUTOMATION

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APW ASPEN MOTION TECHNOLOGIES

CUSTOM BRUSHLESS DC MOTORS

- Permanent magnet brushless style
- 1 inch to 7-inch diameter
- Fractional to 35 HP
- Integral and separate drive circuitry



PRECISION POTENTIOMETERS

- Linear & Rotary Position Transducers
- Hydraulic Cylinder Position Sensors
- Hall Effect Sensors
- Conductive Plastic Resistance Elements
- Incremental Encoders



VOICE COIL ACTUATORS

- Linear - 1.35 lbs to 36.8 lbs continuous force
- Rotary - 5.4 ozin to 113 ozin continuous torq Brushless DC Motors, Standard 1.1" dia to 4" dia; 1.1 to 175 ozin cont.
- Custom open frame rotors and stators
- Hall Effect commutation
- Servo Controllers/Amplifiers



LINE REGEN FILTER KITS



CUSTOM BRUSH DC MOTORS

- Fractional Hp permanent magnet motors
- Gear motors
- Universal motors



HHP, Hand Held Products A Welch Allyn Affiliate

BAR CODE SCANNERS & DECODERS

- CCD, Wand, & Laser Scanners
- Cordless, Hand Held & Machine Mount Scanners
- OEM & Retail Custom Scanners,
- Check Readers, Signature Capture, Mag Stripe
- Portable Data Terminals



LITTLE GIANT PUMP CO



WELCH ALLYN INC, Lamp Division




KOLLMORGEN
INDUSTRIAL DRIVES
INLAND MOTOR
PMI





PUMPS

- Centrifugal, Commercial & Industrial
- Condensate Removal Systems
- Effluent & Sewage, Grinder
- Magnetic -Drive, Submersible

LAMPS

- Miniature & Sub-miniature
- Halogen, Vacuum, Gas Filled, Precision
- Filament, and Miniature Arc lamps
- Light boxes

BRUSHLESS & BRUSH SERVO MOTOR SYSTEMS

Motors:

- Fractional HP to 20 HP
- UL Explosion Proof Brushless Servo Systems
- Linear: Iron Core, Ironless
- Direct Drive Rotary Servo Motors
- Servo Gear, Disk Armature Servo
- Open Frame - Direct Mount

Amplifiers:

- Analog and Digital up to 85 amps
- Single and Multi-Axes Controllers

SERVO MOTORS & DRIVES, STEPPER MOTOR & DRIVES

- Brushless Servo Motors & Amplifiers
- Stepper Motors & Drives
- Permanent Magnet DC Motors
- AC synchronous motors

PRECISION MINIATURE MOTORS

- Escap brand precision ironless DC
- Brushless DC motors;
- DMM disc magnet step motors

GEARHEADS

- EQ Series True Planetary
- NemaTRUE True Planetary
- DuraTRUE True Planetary
- AccuTRUE True Planetary
- ULTRATRUE True Planetary
- PowerTRUE 90 Right Angle



BALL SCREWS & ACTUATORS

BALL SCREWS & ACTUATORS

- Supernuts & screws, ball screws,
- Screw assemblies, stock stages,
- Rails & bearings, linear actuators

Danaher Precision Systems

- **DANAHER PRECISION SYSTEMS**

- **DOVER**

- **INDUSTRIAL DEVICES CORP
(IDC)**

- **NEAT**

PRECISION POSITIONING EQUIPMENT

- Rotary stages
- Rotary tables
- Linear stages
- Linear motors
- Linear Actuators
- Linear Motor
- Air bearing; Lead Screw; Ball Screw, Direct Drive
- Ball Ways; Cross Roller Ways; Re-circulating Ways; Servo motor & Stepper motor systems