

# ROTOTECH

*company profile*

food processing  
manufacturing  
water & waste  
wineries  
mining  
hvac

service  
soft starters  
geared motors  
electric motors  
speed controllers  
motor protection



**ROTOTECH**

*a symbol of quality*

**ROTOTECH - DRIVING FORCE**

**Tel: 1300 553 552**

## Speed Controllers

### ENERGY SAVING MSC-3 SERIES By Zener Electric

- Speed Controllers for AC Electric Motors: 0.37kW to 600kW
- Easy to use features with full digital display
- PID pump & temperature control packages
- Models with inbuilt Low leakage EMC filters for use on RCD protected circuits
- HVAC model with ESO (Fire Override), DC bus choke and energy save
- Single phase 240V & 480V SWER; special voltages for export and mining, 220V to 1100V
- Choice of compact enclosures IP30, IP66 weatherproof or stainless steel enclosures
- Flux Plus for precise torque and power control
- RS485 serial Communications with choice of Modbus, Lon Works, Devicenet, Johnson Controls/Metasys
- Inbuilt motor protection



Selection of Zener Speed Controllers with IP66, IP30 and Stainless Steel Enclosures

## Soft starters

### SMART START By Zener Electric

- Control Starting Current and Torque
- In-built Electronic Motor Overload
- Integral Bypass Contactor reduces heat generation
- Easily adjustable Plain English keypad & display
- Very Compact Design
- Under & Over Current Protection
- Motor Mate & A-480 series available  
15 - 1300 Amps
- Adjustable Accel & Decel Ramp
- Adjustable Pump Profile Ramp
- Pump Stop Profile for Water Hammer Reduction



30kW Soft Starter

## Rototech Electric Motors

### 3 PHASE Motors

THE POWER TO DRIVE THOUSANDS OF COMMERCIAL AND INDUSTRIAL APPLICATIONS FROM ROTOTECH

- Industrial 3 phase motors 0.09kW to 4000kW
- 415V, 1000V, high voltage and export voltages
- Cast iron construction or multi mount alloy frame
- Class H smoke spill, 2 speed and inverter duty
- Enclosure options IP23, IP55, IP66 & IP67
- Heavy duty full cast iron mining spec, IP66 Class H
- MEPS approved to premium efficiency standards



PREMIUM  
EFFICIENCY  
1 & 2

### SINGLE PHASE Motors

- General purpose motors available in Rolled Steel B56 or Cast Alloy Metric Frame
- Power Ratings, 40 watt to 7.5kW 240V
- 480V single phase SWER Motors and Controllers up to 18.5kW
- Compressor and Special Duty Motors



### HAZARDOUS Motors

- Hazardous location motors:-
- Ex 'd' Flame Proof - Class 1 Zone 1
- Ex 'e' Increased safety - Class 1 Zone 1
- Ex 'n' Increased safety - Class 1 Zone 2
- DIP (Dust Ignition Proof)

Ex



### BRAKE Motors

THE BEST IN PRECISION ENGINEERING FROM ROTOTECH PROVIDING POSITIVE STOPPING POWER

- Brake motor sizes from .18kW to 110kW
- Increases protection for machinery and personnel
- Brake kit assemblies for existing machinery
- Modular Brake assemblies



### SPECIAL Motors

ROTOTECH SUPPLY OR MANUFACTURE A WIDE RANGE OF NON-STANDARD SPECIAL DUTY MOTORS TO SUIT MOST INDUSTRIAL REQUIREMENTS, INCLUDING:

- Water Cooled
- DC Motors
- Slip Ring Motors
- SERVO Motors
- Forced Cooled
- Inverter Motors



## Rototech Support Specialised Service

Rototech service all brands of AC Drives and Soft Starters...

Rototech is the authorised master sales and service provider for Zener Electric. Rototech stock an extensive range of spare parts and our technicians are factory trained by Zener as preferred service providers for Speed Controllers and Soft Starters.

**24 HOURS**



Testing and Repair Service



Workshop equipped for building and modifying electric motors to meet customer requirements

## Rototech Special Products

Convenient Variable Speed Control (VSC) Packages and kits ready for installation, fully documented and pre-commissioned complete with accessories, Level/Temp/Pressure Transducers and housed in compact IP66 Enclosures

- Constant Pressure and Level VSC Pump Control Packages
- Load control and synchronised VSC Systems
- Soft Starter Packages with Contactors and Protection
- HVAC VSC Packages - Stair Pressurisation, CO<sup>2</sup> car park exhausts, Cooling Tower Control etc
- Winery Services VSC Packages - Brine Pump, Crusher, Portable and fixed Wine Pumps, Sweep Arm and Rotary Fermenter Controls



75kW Variable Speed Package built by Rototech with IP66 Stainless Steel Enclosure

### SPEED CONTROL PACKAGES FOR PORTABLE PUMPS

- Rugged IP66 Steel or Stainless Steel Enclosures
- Variable Speed/Forward/Reverse/Stop Controls
- Mains lead & Plug
- Local Remote Control Selection
- Motor Isolation Switch
- In-built Low leakage EMC Filter suitable for use on RCD protected circuits



11kW Zener Drive Package with Radio Remote on a Positive Displacement Wine Pump

Choice of In-Built Radio Remote or Pendant with Lead



Pendant with Lead



Radio Remote

## Gear Reducers/Gear Motors

Rototech supply a comprehensive range of power transmission equipment with thousands of combinations to suit most industrial needs.



**RIGHT ANGLE WORM & HELICAL WORM**

- Cast iron or alloy construction
- Solid or hollow shaft



**PARALLEL SHAFT BEVEL HELICAL**

- Right angle and parallel shaft
- Solid or hollow shaft



**INLINE HELICAL REDUCERS & GEAR MOTORS**



**PLANETARY REDUCERS & GEAR MOTORS**

- Larger output torque, low speeds with compact dimensions



**SPECIAL PACKAGES**

- Gear Reducers base mounted with Brake and Anti Run Back



**SHAFT MOUNT**

- Shaft Mount with free input shaft and torque arm

## Couplings, Pulleys & Clutches

To complete your transmission installation Rototech supply a comprehensive range of quality Clutch/Brakes, Torque Limiters, Flexible Couplings, Pulleys and Taper Locks



Clutch/Brakes



Couplings



Pulleys

## *Electronic Shear Pin (ESP)*

### PRECISE OVERTORQUE PROTECTION

- Precise and fast acting over torque trip for protection of motors, gear motors and driven equipment
- Provides controllable torque margins for safe operation of plant & equipment
- Considerable cost savings in reduced maintenance and downtime
- Unique electronic circuitry monitors both current and voltage to quickly detect mechanical fault overloads



## *Electronic Motor Protection*

### COMPREHENSIVE RANGE OF ELECTRONIC MOTOR PROTECTION DEVICES

- Microprocessor based motor protection to 400Amps
- Easy configuration & diagnostics
- Protects against phase loss/unbalance/reversal, under current, locked rotor & stall
- Select from base models to multi function units with digital displays, hour run and adjustable trip classes



## *Direct Temperature Protection*

ROTOTECH PROVIDE A RANGE OF SINGLE OR MULTICHANNEL PT100 TEMPERATURE CONTROLLERS THAT MONITOR EQUIPMENT USING PT100 TEMPERATURE PROBES DIRECT FROM THE SOURCE. THE TEMPERATURE OF EACH LOCATION CAN BE DISPLAYED AND EACH CHANNEL CAN BE PROGRAMMED TO TRIP OR PROVIDE AN ALARM AS REQUIRED.

Ideal for Monitoring and Protecting a wide range of Equipment including: -

- Bearings
- Electric Motor Windings
- Submersible Pumps
- Cooling Water
- Gear Reducers
- Compressors

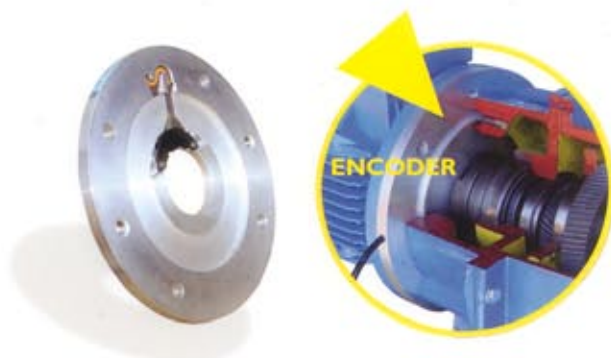


## Encoder

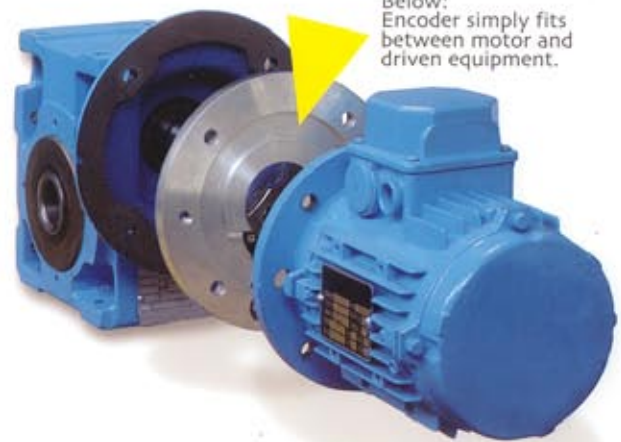
### FLANGE MOUNTED SHAFT ENCODER

ROTOTECH ENCODERS ARE A SIMPLE AND INTELLIGENT MEANS OF MONITORING THE SPEED, POSITION AND ROTATION OF YOUR MOTOR DRIVE SYSTEMS

- Intelligent flange super compact incremental shaft encoder fits between motor and driven equipment
- 10-24V DC HTL or 5V DC TTL designs.
- -40°C to 100°C operating temperature
- 1 - 200 Pulses per revolution.
- Standard metric flange size compatibility.



Left:  
Enlarged cut-away view  
of encoder connected  
between motor and  
gear reducer.



Below:  
Encoder simply fits  
between motor and  
driven equipment.

## Accessories

### A WIDE RANGE OF ACCESSORIES

- Cast iron motor slide rails
- Steel and stainless steel enclosures
- Contactors and overloads
- DOL, Star/Delta, Auto Transformer Motor Starters & Soft Starters
- Thermistor and RTD Relays
- EMC Glands and shielded cable for VFD's
- Motor forced cooling kits
- Brakes
- Vibration Monitors



Slide Rails



EMC Cable & Glands



Vibration Monitor



Motor Starter



Brake (cutaway view)

H  
C  
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R

# Rototech company PROFILE

Rototech supply, manufacture and service industrial equipment for Mining, Agriculture, Wineries, HVAC, Pumping, Manufacturing and Food Processing.

## ADVISORY SERVICE

*Our consultants will be pleased to assist with advice and products for improving your company's energy costs and overall efficiency. We pride ourselves on providing fast, accurate technical support and pricing.*

## FAST DELIVERY

*Comprehensive stock holding of standard products. Fast delivery to metro and country areas.*

## AFTER SALES SERVICE 24X7

### WE SUPPORT OUR PRODUCTS

*Rototech stock and sell an extensive range of Zener spare parts and our factory trained technicians service speed controllers and soft starters.*

## FRIENDLY CUSTOMER SERVICE

*Our staff will quickly and cheerfully assist you with access to our account or credit card facilities. Our technical support and sales staff will assist you with your product selection over the phone, on line, or visit you at your premises.*

## QUALITY CONTROL

*Since 1987 Rototech has built its reputation on strict quality control of our systems and products. We simply use a common sense approach based on customer feedback and backed up with third party International Accreditation ISO 9000-2000, License No. 7861.*



• ELECTRIC MOTORS • SPEED CONTROLLERS • GEARED MOTORS  
• SOFT STARTERS • ENCODERS • MOTOR CONTROL & PROTECTION

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