The Accu-Coder® DR553 is a direct replacement encoder for the Dynapar Rotopulser Model 60. These encoders are used on ink jet printers, cut to length applications, motor drive speed feedback, and a variety of other applications. The DR553 is a drop-in replacement encoder for the Rotopulser 60 on Videojet Triumph and Excel Printers.

Features:

- 3.5” servo hub on a rugged 2” encoder
- 1/2” stainless steel shaft
- Quadrature with index
- Resolutions up to 2500 CPR*
- Line Driver and Push-Pull outputs
- 5 to 28 VDC
- 6-pin and 10-pin side mount MS connectors
- IP64 sealing

* Other CPRs may be available, Contact Customer Service

Contact Customer Service for pricing. Discounts available for volume orders.

Model DR323 CPR Options

| CPR Options | 0001 | 0002 | 0004 | 0005 | 0006 | 0010 | 0012 | 0020 | 0025 | 0040 | 0045 | 0050 | 0060 | 0064 | 0100 | 0120 | 0125 | 0128 | 0150 | 0180 | 0192 | 0200 | 0240 | 0250 | 0256 | 0300 | 0360 | 0400 | 0500 | 0512 | 0530 | 0600 | 0625 | 0720 | 0800 | 0900 | 1000 | 1024 | 1200 | 1270 | 1500 | 1800 | 2000 | 2400 | 2500 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

The Accu-Coder® Advantage

- US-based since 1969
- Industry-best 3-year warranty
- Exceptional customer service
- Fast lead times – contact us for lead times and expedite options
DR553
Direct replacement encoder for Dynapar Rotopulser Model 60

MODEL DR553 SPECIFICATIONS

**Electrical**
- Input Voltage: 4.75 to 28 VDC, max for temperatures up to 70°C
- Input Current: 100 mA max with no output load
- Input Ripple: 100 mV peak-to-peak at 0 to 100 kHz
- Output Format: Incremental – Two square waves in quadrature with channel A leading B for clockwise shaft rotation, as viewed from the encoder mounting face. See Waveform Diagrams below.
- Output Type: Push-Pull – 20 mA max per channel
  - Line Driver – 20 mA max per channel (Meets RS 422 at 5 VDC supply)
- Index: Occurs once per revolution. See Waveform Diagrams below.
- Frequency Response: Up to 100 kHz.
- Noise Immunity: Tested to BS EN61000-4-2; IEC68-1-3; BS EN61000-4-4; DDENV 50141; DDENV 50204; BS EN61000-4-2; BS EN50081-2
- Symmetry: 180° (+10°) electrical at 100 kHz output
- Quad Phasing: 90° (+22.5°) electrical at 100 kHz output
- Min Edge Sep.: 67.5° electrical at 100 kHz output
- Rise Time: Less than 1 microsecond
- Accuracy: Instrument and Quadrature Error: For 200 to 1999 CPR, 0.017° mechanical (0.6 arc minutes) from one cycle to any other cycle. For 2000 to 2500 CPR, 0.010° mechanical (0.6 arc minutes) from one cycle to any other cycle.

**Mechanical**
- Max Shaft Speed: 8000 RPM. Higher shaft speeds may be achievable, contact Customer Service.
- Shaft Dimension: 0.50°
- Shaft Rotation: Bi-directional
- Radial Shaft Load: 80 lb max. Rated load of 20 to 40 lb for bearing life of 1.5 x 10^6 revolutions
- Axial Shaft Load: 80 lb max. Rated load of 20 to 40 lb for bearing life of 1.5 x 10^6 revolutions
- Starting Torque: 1.0 oz-in with typical IP64 seal or no seal
- Moment of Inertia: 5.2 x 10^-6 in-oz^2
- Max Acceleration: 1 x 10^6 rad/sec^2
- Connector Type: 6- and 10-pin side mount MS connector
- Housing: All metal construction with black protective coating
- Bearings: Precision ABEC ball bearings
- Mounting: 3.5” servo mount
- Weight: 11 oz typical

**Environmental**
- Operating Temp: 0° to 70°C for standard models
- Storage Temp: -25° to 85°C
- Humidity: 98% RH non-condensing
- Vibration: 20 g @ 5 Hz to 500 Hz
- Shock: 75 g @ 11 ms duration
- Sealing: IP64

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Don't see the exact encoder you need?

Call (800) 366-5412 and our Technical Sales Department will cross-reference your encoder to the correct EPC model.

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