

# Rugged Encoders that Eliminate Unscheduled Downtime

## Steel Industry



*NorthStar RIM Tach  
8500 NexGen (RT8)*



*HD35R Encoder*



*HS35R Encoder*



*AC58  
Encoder*

**NorthStar**

**HENGSTLER**

**DYNAPAR™**

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Speed, precision and reliability are critical in the steel industry. Dynapar offers a wide range of NorthStar, Hengstler and Dynapar mill-duty magnetic and optical encoders, many of them available with dual sensor output for maximum uptime. **Dynapar mill-duty encoders are built tough for the steel industry.**

## INCREMENTAL MAGNETIC

	<p><b>NorthStar RIM Tach Series</b> This family consists of bearingless magnetic encoders available in 8.5" and 12.5" NEMA C-face mounting configurations. Featuring cast iron housing with stainless steel replaceable sensors, on-board diagnostics with LED and alarm output, dual sensor output, and highest tolerance to motor shaft run-out in its class.</p>		<p><b>NorthStar RIM Tach 6200 NexGen</b> This encoder, a member of the NorthStar RIM Tach Series, is a rugged shaft encoder with NEMA 56 C-face mounting flange and integral feet. Ideal for applications requiring flower pot mounting or belt driven arrangement.</p>
	<p><b>NorthStar SLIM Tach Series</b> This family consists of compact, bearingless magnetic encoders available in 56, 140 or 180 C-face motor mounting configurations that provide reliable speed and position control for space constrained motor feedback applications. Featuring anodized aluminum housings with integral sensors, on-board diagnostics with LED and alarm output, dual sensor output, and highest tolerance to motor shaft run-out in its class.</p>		<p><b>NorthStar RIM Tach HS85</b> This encoder, a member of the NorthStar RIM Tach Series, is a robust hollow shaft encoder constructed with stainless steel and cast iron that mounts easily to large motor shafts, up to 4.5" in diameter.</p>

## INCREMENTAL OPTICAL HUB SHAFT

	<p><b>Dynapar HS35R</b> This encoder is designed with a technologically advanced optical sensing engine encased in a robust mechanical housing to withstand 400G shock while providing reliable feedback of up to 5000 PPR. Featuring single or dual output and a variety of other mechanical and electrical options that can be customized to fit all closed-loop applications.</p>		<p><b>NorthStar HSD35</b> This encoder is designed with mill specific features including a field serviceable connector for solder-less connections, stainless steel clamp and shaft collar, dual sensor output, and electrically isolated shaft sizes up to 1.25".</p>
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## INCREMENTAL OPTICAL SHAFTED

	<p><b>Hengstler RI58</b> This encoder, available in both shafted and hollow shaft configurations, provides precision digital resolution of up to 5000 PPR in a standard 58mm aluminum housing. Featuring a variety of mechanical and electrical options that can be customized to fit all closed-loop applications.</p>		<p><b>NorthStar HD35R</b> This encoder features a 100 mm IEC flange with an 11 mm shaft containing a 4mm key for European standard motor mounting and two, large-gauge, over-sized bearings in a robust housing capable of withstanding shock loads of up to 400g.</p>
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## ABSOLUTE

	<p><b>Hengstler AR62</b> This absolute magnetic encoder is designed to provide speed and position control for a variety of applications over multiple digital and analog interfaces. Featuring up to 28 bit resolution, stainless steel or aluminum housing that withstands up to 200g Shock and 20g Vibration, and submersible IP69k sealing for washdown and corrosive environments.</p>		<p><b>Hengstler AC58</b> This absolute optical encoder, available in both shafted and hub shaft configurations, features up to 29 bit resolution for precise speed and position control, onboard diagnostics, aluminum or stainless steel housing, and multiple communication protocols including Profibus, CANOpen, DeviceNet and SSI.</p>
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## RESOLVERS

	<p><b>NorthStar RF25</b> This flange mounted resolver is a great alternative to encoders for applications that involve extremely high temperatures, shock and vibration, and high levels of contaminants.</p>		<p><b>NorthStar RH25</b> This hub-shaft mounted resolver is a great alternative to encoders for applications that involve extremely high temperatures, shock and vibration, and high levels of contaminants.</p>
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**Additional Feedback Options:** NorthStar HSD37, NorthStar HD25, NorthStar HS60, Dynapar H56 and Dynapar 60P Rotopulser

**Accessories:** RIMSS2 Signal Splitter, RIMSSW Signal Switcher, RIM M100 Encoder Tester, RIMFV Frequency to Voltage Converter, Grounding Brush Kit, Cables, Couplings