

Company Locations



AV850 - Paper Mill



HS45 - Saw Mill



SD



AV485



AV685



M6C



XP8

HQ / North America

243 Tuxedo Avenue
Cleveland, Ohio 44131
encoderhelpdesk@nidec-industrial.com
216-642-1230

Germany Europe, Middle East

Oliver Gleich: +49 331 98222513 - oliver.gleich@nidec-industrial.com

Mexico, Latin America, Caribbean, South America

Alejandro Casso: +52 81 2032 6632 - alejandro.casso@nidec-industrial.com

China / South East Asia

Ruimin Wang: +86 10 8225 1384 - ruimin.wang@nidec-industrial.com

24/7/365 Tech Hotline

216-641-8317



HD



AV115



AV850



HS45



M4



MD



AV6M



HS44



AV32



HS6M



M3



LMD



AV6A



AV20



HS35A



AV4



HS4



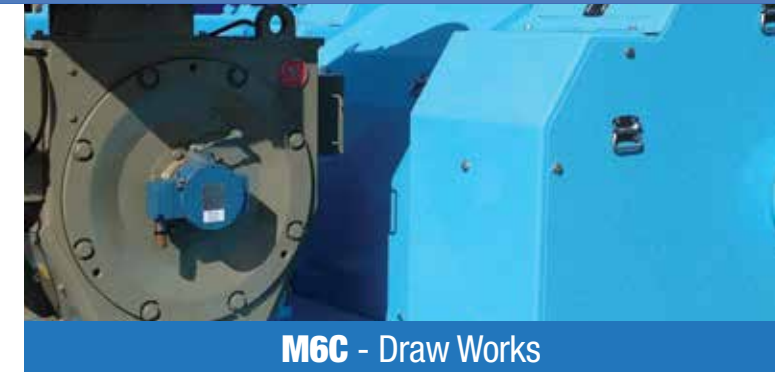
Our Company



M4 - Marine Hoist



HS40 - Steel Mill



M6C - Draw Works



AV32 - Conveyor

We develop, produce and sell top-quality American engineered Avtron Encoders for industrial applications worldwide.

Avtron Manufacturing Inc. was established in 1953 to provide valuable test solutions to the aerospace industry, and we began developing our feedback devices in 1964 with a total focus on reliability. We are driven to maximize customer uptime, which is manifested in the durability of our designs and the responsiveness of our service.

Avtron Encoders are the world's largest-selling brand of heavy and harsh duty encoders. We sell to a wide range of industries from paper mills to metals, mining, wind power and oil & gas drilling. Anywhere an encoder failure would cost money and downtime, you need an Avtron Encoder.

Avtron became part of Nidec Corporation – a \$13Bn global industrial manufacturing and technology company – in 2012, and as such we have expanded our reach and ability to service customers worldwide.

We proudly mark every one of our encoders with our Avtron Encoders brand symbolizing quality, reliability, service and value.

Why Avtron Encoders?

Avtron Encoders are far more durable than competitive units. They feature cast aluminum housings, potted electronics, and oversized bearings. For maximum reliability select our modular models with no bearings at all and Wide-Gap technology.

Avtron magnetic sensors also increase reliability by being impervious to the dirt, dust, oil and liquids that disable optical encoders.

Every Avtron Encoder is 100% tested - not sampled or randomly selected. Some Avtron models have experienced over 4,500,000 hours Mean-Time-Between-Failure in outdoor applications!

We back our encoders with 24-7-365 no-charge engineering technical support (in English) to ensure you can get the help you need, when you need it.

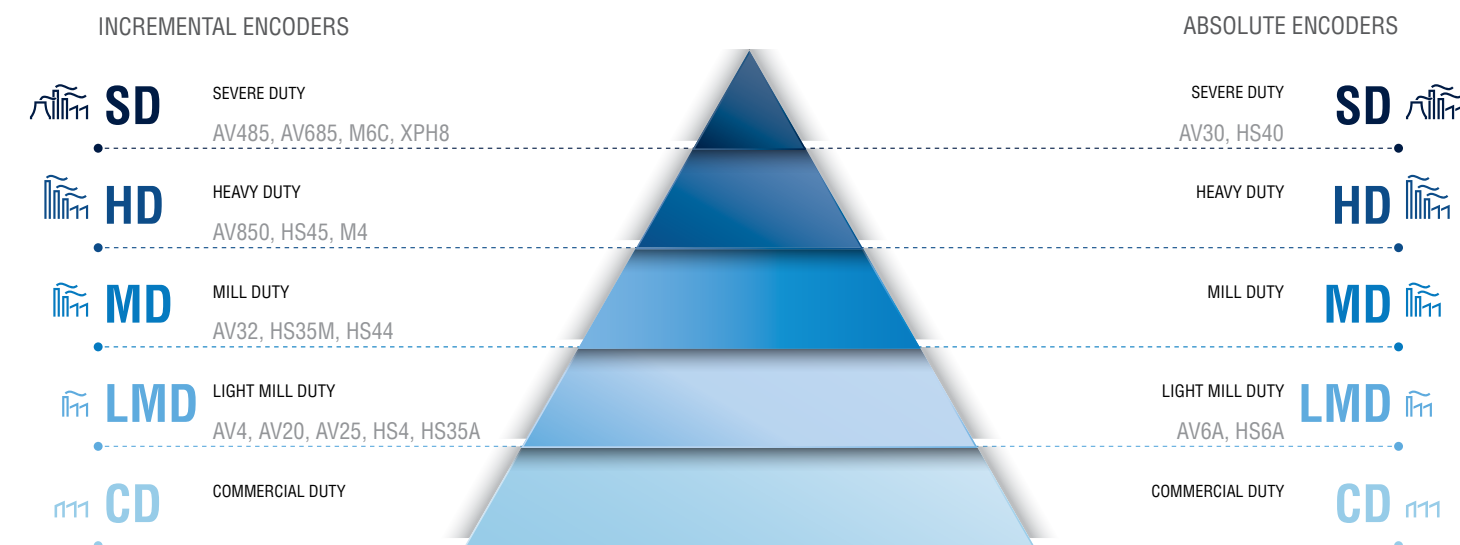
Benefits:

- Your production line and machinery will work longer
- Impacts, liquids and dust won't stop your machine and process
- Reduce unplanned downtime
- Slash mean-time-to-diagnose and repair

Let us partner with you for all your encoder needs!

Please visit www.avtronencoders.com to configure your encoder model today.

Avtron Encoders are the Most Reliable Encoders in the World.



Enclosure	Non-Hazardous Application Models and Options					Hazardous Duty Applications							All Application Options (Hazardous and Non-Hazardous)											
	Mounting Style	Model	Temperature Range	Grounding Brush	Overspeed Switch	Intrinsically Safe Model	Temperature Range	Explosion Proof Model	Temperature Range	Certifications			Sensing	Shaft or Bore Size		Pulses Per Revolution (PPR)*	Max Turn Count	Max Speed RPM*	Max Freq kHz*	Max Outputs	Thru Shaft	Replaceable Sensors	Diagnostics	
										UL CI /Div	UL CI /Zone	ATEX		US	Metric									
Severe Mill Duty	Modular Sensor	AV5	-40C...+120C	-	✓	XR5	-40C...+80C	XP5	-50C...+80C	✓	✓	✓	U	5/8" - 4 1/2"	16mm-115mm	4-100000	1	6000	250kHz	1	✓	✓	✓	
	Modular Sensor	AV12	-40C...+120C	-	✓	XR12	-40C...+80C			✓	✓	✓	U	1 3/8" - 7 7/8"	25-200mm	4-50000	1	6000	250kHz	1	✓	✓	✓	
	Face or Foot	AV30	-30C...+85C	-	-								U	3/8", 5/8"	6-18mm	8192	1-32768	5000	NA	1	-	-	✓	
	56C Face or Foot	AV485	-40C...+120C	✓	✓	XR485	-40C...+80C				✓	✓	✓	U	5/8"	15.88mm	4-50000	1	5000	250kHz	2	✓	✓	✓
	Hollow Shaft	HS40	-30C...+85C	-	-									U	5/8" - 1 1/8"	16-30mm	8192	1-32768	5000	NA	1	-	-	✓
Heavy Mill Duty	Hollow Shaft	AV685	-40C...+120C	✓	✓	XR685	-40C...+80C						U	1 1/8"	28.58mm	4-50000	1	5400	250kHz	2	✓	✓	✓	
	B10 Face or Foot	AV45	-40C...+100C	-	✓	XR4F	-40C...+80C						U	5/16" - 11/16"	9-18mm	8-5000	1	5000	165kHz	2	-	-	✓	
	Modular 4.5"	AV56	-40C...+100C	-	✓	XR56	-40C...+80C						U	1/2" - 3 3/16"	10-85mm	4-5000	1	5400	250kHz	2	✓	-	✓	
	Modular 4.5"	AV56S	-40C...+100C	-	✓								U	1/2" - 3 3/16"	10-85mm	4-5000	1	5400	250kHz	1	✓	-	✓	
	Modular 8.5"	AV85	-40C...+100C	-	✓	XR85	-40C...+80C						U	1/2" - 3 3/16"	10-85mm	4-5000	1	5400	250kHz	2	✓	-	✓	
	Modular 115mm	AV115	-40C...+100C	-	✓	XR115	-40C...+80C						U	1/2" - 3 3/16"	10-85mm	4-5000	1	5400	250kHz	2	✓	-	✓	
	Modular 12.5"	AV125	-40C...+100C	-	✓	XR125	-40C...+80C						U	1 3/8" - 7 7/8"	25-200mm	4-5000	1	5000	250kHz	2	✓	✓	✓	
	Modular 8.5"	AV850	-40C...+100C	-	✓	XR850	-40C...+80C	XPH8	-50C...+85C	✓	✓	✓	U	5/8" - 4 1/2"	16mm-115mm	4-5000	1	6000	250kHz	2	✓	✓	✓	
	Hollow Shaft	HS45	-40C...+100C	-	✓	XR45	-40C...+80C						U	5/8" - 1 1/8"	16-30mm	8-5000	1	5000	165kHz	2	✓	-	✓	
Mill Duty	Hollow Shaft	M4	-40C...+85C	✓	-								U	1 1/2" - 2 3/8"	48-60mm	240-1200	1	5000	100kHz	2	✓	-	-	
	Hollow Shaft	M7	-45C...+80C	-	-			M6C	-40C...+80C	-	-	✓	U	1" - 2 3/8"	25-60mm	240-1200	1	5000	150kHz	2	-	-	✓	
	Modular Auto-Center	AV32	-40C...+100C	-	-								U	1/4" - 1"	4-25mm	32-5000	1	6000	250kHz	1	✓	-	-	
	Hollow Shaft	HS35M	-20C...+85C	-	-								U	1/2" - 1 1/8"	12-20mm	1-3072	1	4700	165kHz	2	✓	-	-	
Light Mill Duty	Hollow Shaft	HS44	-30C...+85C	✓	✓								U		12-17mm	1-10000	1	6000	250kHz	2	-	-	✓	
	Hollow Shaft	M3	-40C...+85C	✓	✓								U	1 1/2" - 2 3/8"	48-60mm	6000	1	5000	150kHz	2	✓	-	-	
	Face or Foot	AV4	-40C...+85C	-	-								U	1/4", 3/8"	6-10mm	1-16384	1	6000	1000kHz	1	-	-	✓	
	Face or Foot	HS4	-40C...+85C	-	-								U		6-15mm	1-16384	1	6000	1000kHz	1	-	-	✓	
	Face or Foot	AV6A	-40C...+85C	-	-								U		6-10mm	256-65536	1-16384	6k/12k+	NA	1	-	-	✓	
	Face or Foot	AV6M	-40C...+85C	-	-								U		6-10mm	4096-8192	1-32768	12k	NA	1	-	-	✓	
	Face or Foot	AV20	-40C...+100C	-	-								U	1/4", 3/8"	10mm	1-3600	1	6000	125kHz	1	-	-	-	
	Face or Foot	AV25	-40C...+100C	-	-								U	1/4", 3/8"	10mm	1-5000	1	6000	125kHz	1	-	-	-	
	Face or Foot	HS6A	-40C...+85C	-	-								U	5/16"-9/16"	8-15mm	256-65536	1-16384	6k/12k+	NA	1	-	-	✓	
	Face or Foot	HS6M	-30C...+85C	-	-								U		6-15mm	4096-8192	1-32768	12k	NA	1	-	-	✓	
	Hollow Shaft	HS25A	-20C...+100C	-	-								U	3/8" - 3/4"	6-16mm	1-3600	1	6000	125kHz	1	-	-	-	
	Hollow Shaft	HS35A	-20C...+100C	-	-								U	1/2" - 1"	12-20mm	1-5000	1	6000	125kHz	1	✓	-	-	

* Values may vary for XR and XP models. Consult factory or website.

