LIGHT MILL DUTY - For use in dry commercial and industrial environments with temperature controlled spaces.

MILL DUTY – For use in typical industrial environments. More mechanically robust than light mill duty. Not recommended for environments with frequent temperature changes and chronically wet conditions.

HEAVY MILL DUTY – For more rugged environments with frequent temperature fluctuations and increased levels of contaminations and moisture.

SEVERE DUTY – For use in very wet or dusty environments with large and frequent temperature extremes including outdoor applications.

OPTICAL sensors are offered in light and mill duty encoders. Optical sensing technology works best when used in environments without frequent temperature changes and/or chronically wet conditions.

MAGNETIC sensors are offered in light, mill, heavy and severe duty encoders. Because they are not affected by dust or moisture, they are suited to rough service in modular style encoders.

Recommended Type	Typical Applications*									
	Conveying	Converting	Films	Food	Paper	Steel	Hoist	Marine	Oil Drilling	
Light										
Standard/Mill										
Heavy					S			S	E	
Severe					S			S	E	
* Darker=better suited for application ^s Stainless Option Recommended ^E Explosion Protected Recommended										

* Nidec Motor Corporation makes no warranty as to suitability of purpose; recommendations are based on industry standard applications and are subject to warranty terms and conditions of sale.

See the quick pick chart on page 60 for more details of the encoders below:

	TYPE OF ENCODER	MOUNTING	MODEL		
	Optical Commercial Duty	Hollow Shaft	Dynapar ^{®†} HS20R		
		Tollow Shart	Encoder Products Co.®† 260		
Heavier Duty			AVTRON®† HS25A		
			Avtron ^{®†} HS35A		
	Optical Light Duty	Hollow Shaft	Dynapar ^{®†} HS35R		
			Encoder Products Co.®† 775		
			Encoder Products Co.®† 776		
			Encoder Products Co.®† 25T		
	Optical Mill Duty	Hollow Shaft	Encoder Products Co.®† 770		
			Encoder Products Co.®† 771		
	Magnetia Mill Duty	No Bearing	Avtron®† AV32		
	Magnetic Mill Duty	Hollow Shaft	Avtron ^{®†} HS35M		
		Hollow Shaft	Avtron®† HS45		
	Magnatia Llagur Duty		Dynapar ^{®†} ST56		
	Magnetic Heavy Duty	Modular C-Face	Avtron®† AV56A		
			Avtron AV850		
	Magnetia Severa Dutu	Hollow Shaft	Avtron ^{®†} AV685		
	Magnetic Severe Duty	Solid Shaft	Avtron ^{®†} AV485		

† All marks shown within this document are properties of their respective owners.

