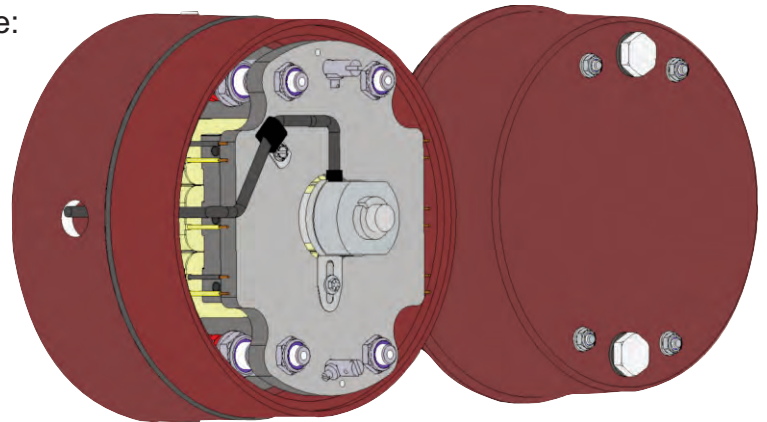


## SMART BRAKE with Internal Encoder

Dings' **SMART BRAKE** combines the ruggedness of a Dings electromagnetic spring set brake with an encoder that meets the requirements of your applications. The sealed hollow shaft encoder is protected within the 60, 70, 80 and 90 Series end mount brakes.

Applications for the **SMART BRAKE** include:

- Crane and Hoist
- Ship Board Capstans and Winches
- Communication Satellite Dish
- Paper and Pulp Process Equipment
- Mining Equipment
- Oil Platforms and Riggings
- Elevators/Escalators
- Petrochemical/Chemical Processing



### Brake Specifications:

#### 60 Series Brakes

Motor Horsepower Range: 1/2hp to 5hp  
Torque Range: 1.5 lb-ft to 25 lb-ft  
Frame Size: 56C and 143TC/145TC  
Enclosure Types: NEMA 2, 4, and 4X

#### 70 Series Brakes

Motor Horsepower Range: 3hp to 25hp  
Torque Range: 10 lb-ft to 75 lb-ft  
Frame Size: 182TC/184TC, 213TC/215TC,  
and 254TC/256TC  
Enclosure Types: NEMA 2, 4 and 4X

#### 80 Series Brakes

4 Post Design (Heavy Duty)  
Motor Horsepower Range: 5hp to 50hp  
Torque Range: 25 lb-ft to 175 lb-ft  
Frame Size: 284TC/286TC  
Enclosure Types: NEMA 2 and 4

#### 90 Series Brakes

Heavy Duty Brake  
Motor Horsepower Range: 50hp to 150hp  
Torque Range: 125 lb-ft to 450 lb-ft  
Frame Size: 324TC/326TC - 404TC/405TC  
Enclosure Types: NEMA 2 and 4

### Encoder Specifications:

#### Encoder Products Company Model 260

Tether Mounted for Maximum Encoder Life  
Shaft Seals for Environment Protection  
Resolution: 1024 PPR standard, other ratings available  
Format: Quadrature A&B with index  
Input Voltage: 4.75 min. to 16VDC at 100mA max.  
Enclosure Rating: IP50  
Connector/Termination: Sealed  
6' length standard, other lengths  
and connectors available  
Operating Temperature: 0 to 100°C

Other encoders are available, contact factory for details.

**Call Dings Company  
to Discuss Your  
SMART BRAKE  
Application**

# Product Overview

## 40 Series



Small AC and DC Motors  
Torque Ratings: 3/8 and 3/4 lb-ft  
Enclosure Type: NEMA 2, IP40

## 50 Series



Motor frame 48C  
Torque Ratings: 1.5, 3 & 6 lb-ft  
Enclosure Type: NEMA 2, IP40  
Manual Release: Non-maintained

## 60 Series - 5600 Style End Mount



Motor frame 56C & 143TC/145TC  
Torque Ratings: 1.5 through 15 lb-ft  
Enclosure: NEMA 2, IP40;  
Manual Release: Maintained/auto reset

## 60 Series End Mount



Motor frame 56C & 143TC/145TC  
Torque Ratings: 1.5 through 25 lb-ft  
Enclosure:  
NEMA 2, IP40;  
NEMA 4, IP56;  
NEMA 4X, IP56 Washdown  
NEMA 4X, IP56 Washdown in  
Stainless Steel  
Hazardous Location Brake Available  
Manual Release: Maintained/auto reset

## 60 Series Double C face Coupler



Motor frame 56C & 143TC/145TC  
Torque Ratings: 1.5 through 20 lb-ft  
Enclosure:  
NEMA 2, IP40;  
NEMA 4, IP56;  
NEMA 4X, IP56 Washdown  
NEMA 4X, IP56 Washdown in  
Stainless Steel  
Manual Release: Maintained/auto reset

## 1-70 Series End Mount



Motor frame 182TC/184TC;  
213TC/215TC; 254TC/256TC  
Torque Ratings: 1.5 through 25 lb-ft  
Enclosure Type: NEMA 2, IP40  
Manual Release: Maintained/auto reset

## 70 Series End Mount



Motor frame 182TC/184TC; 213TC/215TC; 254TC/256TC  
Torque Ratings: 10 through 105 lb-ft  
Enclosure Type:  
NEMA 2, IP40;  
NEMA 4, IP56;  
NEMA 4X, IP56 Washdown  
Hazardous Location Brake Available  
Manual Release: Maintained/auto reset

## 70 Series Double C face Coupler



Motor frame 182TC/184TC; 213TC/215TC;  
254TC/256TC  
Torque Ratings: 10 through 105 lb-ft  
Enclosure:  
NEMA 2, IP40;  
NEMA 4, IP56;  
NEMA 4X, IP56 Washdown  
Manual Release: Maintained with auto reset

## 80 Series



Motor frame 284TC/286TC  
Torque Ratings: 25 through 175 lb-ft  
Enclosure Type:  
NEMA 2, IP40;  
NEMA 4, IP56  
Manual Release: Maintained with auto reset

## 90 Series



Motor frame 324TC/326TC; 364TC/365TC;  
404TC/405TC  
Torque Ratings: 180 through 450 lb-ft  
Enclosure Type:  
NEMA 2, IP40  
NEMA 4, IP56  
Manual Release: Maintained with auto reset



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