# IECFCS

## PART NO. D-1370

| STANDARD SPECIFICATIONS | |
|---|---|
| **Operating Current** | 7.5 amps per ring |
| **Operating Voltage** | 1,000 VRMS |
| **Electrical Noise** | 5 microV, P-P, BW = 10Hz - 10kHz at 8.5 mA, 500 rpm |
| **Leakage Resistance** | 10,000 M Ohms(min) |
| **Temperature Range** | -30°F to 175°F |
| **Encasement** | Clear anodized aluminum, splash proof construction |
| **Ring Material** | Solid coin silver |
| **Brush Springs** | Beryllium copper |
| **Brush Contacts** | Four 80% silver - 20% graphite contacts per ring |
| **Brush Blocks** | Delrin |
| **Insulation** | Teflon and delrin |
| **Sealing** | O-rings, v-rings on shaft |
| **Leads** | 20 AWG TFE covered wire, 3 ft long |

| OPTIONS | |
|---|---|
| **Current** | Up to 20 amps per ring |
| **Voltage** | Up to 5,000 VDC |
| **Temperature** | Up to 250°F |
| • Split cover to facilitate inspection | |
| • Stainless steel encasement parts | |
| • Bore sizes up to 12” | |
| • Leads longer than the standard 3 ft length | |
| | |
| | |

### Sample Applications Include:

- Coil Tubing Reels
- Drive Shaft Torque Measurements
- Packaging Machines
- Food Processing Equipment

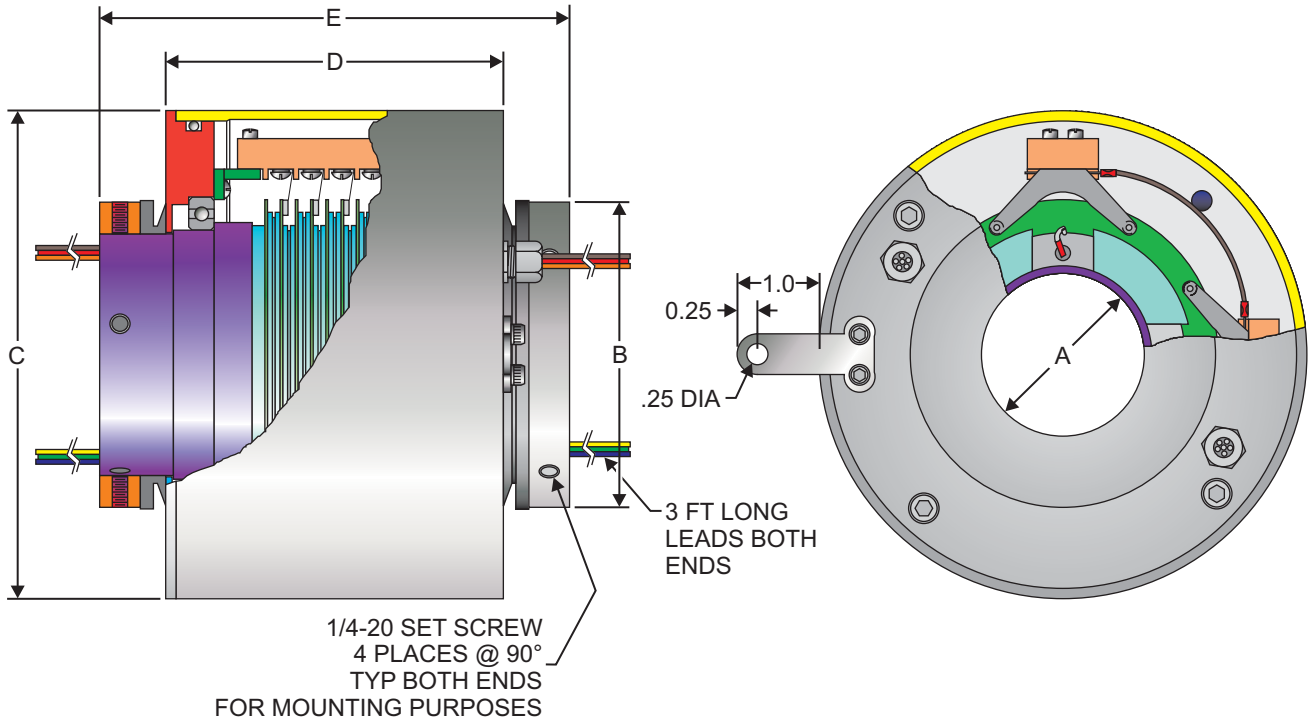
The **IECFCS** unit expands the features of the IEL-HS model, shown on page 9. In the standard configuration it is designed to fit over shafts up to 8” in diameter and up to 12” as an option. The standard **IECFCS** is available with 2 to 62 rings or up to an optional 300 rings.

The standard bore sizes are: 1, 2, 4, 6 and 8 inches. If your application requires a nonstandard bore size, we will build the next larger size and install a reducing sleeve with the required bore size for a nominal charge.

This assembly can be modified to rotate up to 3,000 rpm for short periods of time. Please consult our staff for information concerning rotational speeds.

An example of a modified **IECFCS** is illustrated on page 16, part no. D-1350, model IECFCS-04-58-MOD. This unit mounts over the shaft of a rotating platform and transfers power and signals to 7 stations around its axis.

# IECFCS




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **DIM A** $^{+.003}_{-.001}$ | 1.003 | 2.003 | 3.003 | 4.003 | 5.003 | 6.003 | 7.003 | 8.003 |
| **DIM B** | 2.468 | 3.468 | 4.468 | 5.468 | 6.468 | 7.468 | 8.468 | 9.468 |
| **DIM C** | 5.00 | 6.00 | 7.00 | 8.00 | 9.00 | 10.00 | 11.00 | 12.00 |

| RINGS | D | E |
|---|---|---|
| **2** | 2.65 | 4.28 |
| **4** | 3.03 | 4.65 |
| **6** | 3.40 | 5.03 |
| **8** | 3.78 | 5.40 |
| **10** | 4.15 | 5.78 |
| **12** | 4.53 | 6.15 |
| **14** | 4.90 | 6.53 |
| **16** | 5.28 | 6.90 |
| **18** | 5.65 | 7.28 |
| **20** | 6.03 | 7.65 |
| **22** | 6.40 | 8.03 |

| RINGS | D | E |
|---|---|---|
| **24** | 6.78 | 8.40 |
| **26** | 7.15 | 8.78 |
| **28** | 7.53 | 9.15 |
| **30** | 7.90 | 9.53 |
| **32** | 8.28 | 9.90 |
| **34** | 8.65 | 10.28 |
| **36** | 9.03 | 10.65 |
| **38** | 9.40 | 11.03 |
| **40** | 9.78 | 11.40 |
| **42** | 10.15 | 11.78 |

| RINGS | D | E |
|---|---|---|
| **44** | 10.53 | 12.15 |
| **46** | 10.90 | 12.53 |
| **48** | 11.28 | 12.90 |
| **50** | 11.65 | 13.28 |
| **52** | 12.03 | 13.65 |
| **54** | 12.40 | 14.03 |
| **56** | 12.78 | 14.40 |
| **58** | 13.15 | 14.78 |
| **60** | 13.53 | 15.15 |
| **62** | 13.90 | 15.53 |

*Note: Dimensions shown are intended, except manufacturing tolerances will apply.*

## ORDERING INFORMATION

Example: **D - 1370 - 02 - 16**

- **D - 1370** — base part number
- **02** — 2.003” bore size (dim A)
- **16** — 16 rings