

**HÜBNER**  
ELEKTROMASCHINEN AG  
**BERLIN**



*Tachos, Bearingless Encoders & Encoder Tester*



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# BAUMER HÜBNER / THALHEIM Encoders & Tachos



ITD Series

## Large Bore Hollow Shaft Incremental Encoders

Part No.	Pulse Rate	Supply Voltage	Shaft
ITD41A4Y681024HNIKR1S30IP5450	1024	8-30 Vdc	30 mm Through Hollow
ITD70A4Y71024HNIKR1S60IP54	1024	8-30 Vdc	60 mm Through Hollow
ITD70A4Y71024HNIKR1S75IP54	1024	8-30 Vdc	75 mm Through Hollow



HOG 10



POG 10

## Industrial Duty Incremental Encoders

Part No.	Pulse Rate	Supply Voltage	Shaft
POG10-DN1024-I	1024	9 - 30 Vdc	Shaft 11 mm
POG10-DN2048-I	2048	9 - 30 Vdc	Shaft 11 mm
HOG10-DN1024-I16H7-KLK	1024	9 - 30 Vdc	Hollow Shaft 19 mm
HOG10-DN2048-I16H7-KLK	2048	9 - 30 Vdc	Hollow Shaft 19 mm



HDmag MIR 3000F / MQR 3000F

## Incremental Bearingless Encoders

Part No.	Description
HDmag MIR 3000F	Flexible magnetic tape encoder, shaft removal maintaining a free shaft end not required Up to 131,072 pulses per revolution Integrated signal processing For shafts up to Ø3183 mm
MDFK/MEFK/ITD	Pulses per revolution 20...8192 For shafts Ø6...150 mm Square wave and sinusoidal signals Very compact and cost-effective
HDmag MHGE	Especially robust and precise Pulses per revolution up to 32768 Integrated signal processing For shafts up to Ø740 mm Optional DNV approval
HDmag MHGP	Particularly high-resolution Pulses per revolution up to 524,288 Integrated FPGA signal processing For shafts up to Ø340 mm



MDFK/MEFK/ITD



HDmag MHGE / MHGP / MHAP / MHAD

## Absolute Bearingless Encoders

Part No.	Description
HDmag MHAP/MHAD	Resolution up to 17 bit For shafts up to Ø340 mm SSI or CANopen
HDmag MQR 3000F	Flexible quasi-absolute magnetic tape encoder Position resolution singleturn up to 16 bit Speed resolution up to 24 bit For shafts up to Ø3183 mm
HDmag MHAD 50	Our compact absolute encoder with additional incremental signals



HDmag MHAD 50



## DC Tachos, Encoder Tester and Encoder Simulator



TDP0,2LT Series

### DC Tachogenerators

Part No.	Mounting Type	Voltage per 1000rpm	Shaft Diameter
TDP0,2LT-4B10	Tacho Flange	60 Vdc	11 mm Shaft
TDP0,2LT-4B3	Foot Mount	60 Vdc	11 mm Shaft
TDP0,2LT-3B10	Tacho Flange	100 Vdc	11 mm Shaft
TDP0,2LT-3B3	Foot Mount	100 Vdc	11 mm Shaft
KTD50-6B10	Tacho Flange	60 Vdc	11 mm Shaft
KTD50-10B10	Tacho Flange	100 Vdc	11 mm Shaft
KTD3-2B10	Tacho Flange	20 Vdc	11 mm Shaft
KTD3-3B10	Tacho Flange	20 Vdc	11 mm Shaft
KTD2-1B14-6	Flange	10 Vdc	6 mm Shaft
KTD2-1A4L	Hollow Shaft	10 Vdc	12 mm Shaft



TDP13.06LT Series

### Heavy Duty DC Tachogenerators

Part No.	Mounting Type	Voltage per 1000rpm	Shaft Diameter
TDP 13.06 LT-2 B5KM / B14KM	Flange	200 Vdc / 40 W	14 mm Shaft
TDP 13.06 LT-2 B5KM / B14KM	Flange	100 Vdc / 40 W	14 mm Shaft



TDP0,2LT Series

### Three Phase Tachogenerators

Part No.	Mounting Type	Voltage per 1000rpm	Shaft Diameter
TD3A4KAKM	Modular	30 Vdc	10,11,12 and 16 mm Hollow Shaft Possible
KTD3A4KAKM	Modular	3 x 23,2 Vac	10,11,12 and 16 mm Hollow Shaft Possible



HENQ1100

### Encoder Tester

Part No.	Description
HENQ1100	Encoder Testing Unit for Incremental Encoders