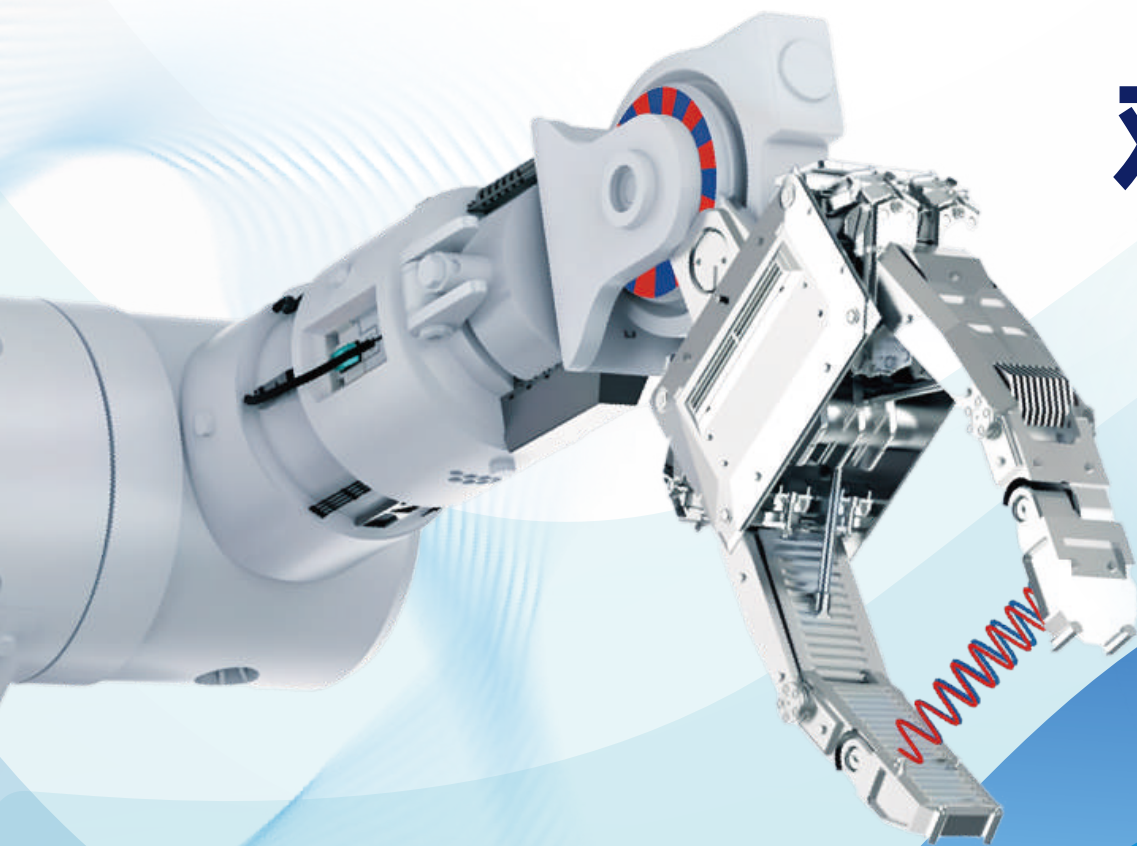




HUTCHINSON®

双轨道 磁环



哈金森(Hutchinson)致力于为陆地、空中及海洋等极端环境中运营的客户提供基于科学与技术的多材料解决方案。凭借创新精神、快速响应能力、卓越适应力及跨领域视野，我们的团队为各行业打造定制化产品和解决方案。



創意電子有限公司
Weltronics Component Limited

由代理商创意电子为您提供技术支持与服务

哈金森磁环

- 主磁道由偶数个磁极组成。第一条磁道用于高精度位置定义。
- 第二条磁道称为游标磁道，磁极数比主磁道少一对。用于通过计算相对于主磁道的偏移量来计算绝对位置。

哈金森磁环因其橡胶的弹性特性，加上良好的橡胶-金属粘合性，确保在极端环境下也能保持良好的性能。且磁环与 iC-Haus 的 iC-MU 系列芯片相结合，可构成绝对位置测量系统，高效响应工业应用。并广泛应用于医疗应用中使用的机器人、自动化生产线或机床等领域。



特点

- ▶ 磁性硫化橡胶复合材料
- ▶ 粘合不锈钢嵌件
- ▶ 温度范围：-40 至 140 °C
- ▶ 尺寸：20 至 90 毫米
- ▶ 可轴向和径向设计

符合质量要求和最新法规。



优势

- ▶ 优化的磁信号：
优异的粘接力，可承受更高的转速
- ▶ 永磁材料：
出色的环境耐受性
- ▶ 超轻薄的设计，适合小型外壳(轴向设计厚度仅为 1.1 毫米)易于安装
- ▶ 标准件及可定制化设计
- ▶ 适用于机器人和电机控制应用，自动化生产线或机床
- ▶ 兼容 iC-Haus 的 iC-MU、iC-MU150、iC-MU200 系列



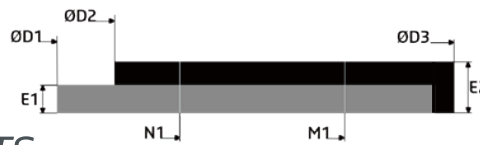
应用领域

无论是用于家庭自动化应用的机器人、生产线、机械手臂还是物流链自动化，我们的解决方案都完全满足客户的要求和使用环境。



AXIAL NONIUS MAGNET RINGS

DATA SHEET FOR STANDARD PARTS



MAGNETIC FEATURES			
ITEM	PARAMETER	HUT128A32	HUT128A64
N1	Number of pole pairs on Nonius track	31	63
	Scanning reading diameter of Nonius track	18,88 mm	44,95 mm
	Pole width of Nonius track	0,96 mm	1,12 mm
M1	Number of pole pairs on master track	32	64
	Scanning reading diameter of master track	26,08 mm	52,15 mm
	Pole width of master track	1,28 mm	1,28 mm

> MATERIAL CHARACTERISTICS

Br	Remanence @20°C	190 mT
Tc	Temperature coefficient of the remanence	-0,19 %/K
	Coercitivity field	240 KA/m

> RECOMMENDED CHIP USAGE

iC-Haus chips reference	iC-MU	iC-MU
Radial position of chip center <i>referred to axial center</i>	11,24 mm	24,28 mm
Recommended mechanical air gap <i>referred to magnetic coating surface</i>	0,40 mm	0,40 mm
LSB limit value under control (Min & Max)	60 %	

MECHANICAL FEATURES			
HUTCHINSON PART NUMBER		789890	789933
ØD1	Ring inner diameter (mm)	15,00 ^{+0,03} _{-0,02}	38,00 ^{+0,03} _{-0,02}
ØD2	Magnetic track inner diameter (mm)	16,00 ^{+0,1} _{-0,1}	41,00 ^{+0,1} _{-0,1}
ØD3	Ring outer diameter (mm)	29,00 ^{+0,2} _{-0,2}	56,00 ^{+0,2} _{-0,2}
E1	Stainless steel insert thickness (mm)	0,60	0,60
E2	Total thickness (mm)	1,10 ^{+0,1} _{-0,1}	1,10 ^{+0,1} _{-0,1}
Magnet ring operating ambient temperature range		-40 to 140 °C	

External fields can change the functional properties and may reduce system accuracy or damage the disc magnetization. The functionality of the system may no longer be ensured. Direct contact with magnetic clamps or other permanent magnets must be avoided.

AXIAL NONIUS MAGNET RINGS

DATA SHEET FOR STANDARD PARTS



MAGNETIC FEATURES

ITEM	PARAMETER	HUT150A32	HUT150A64
N1	Number of pole pairs on Nonius track	31	63
	Scanning reading diameter of Nonius track	23,36 mm	53,90 mm
	Pole width of Nonius track	1,18 mm	1,34 mm
M1	Number of pole pairs on master track	32	64
	Scanning reading diameter of master track	30,56 mm	61,10 mm
	Pole width of master track	1,50 mm	1,50 mm

> MATERIAL CHARACTERISTICS

Br	Remanence @20°C	190 mT
Tc	Temperature coefficient of the remanence	-0,19 %/K
	Coercitivity field	240 KA/m

> RECOMMENDED CHIP USAGE

iC-Haus chips reference	iC-MU150	iC-MU150
Radial position of chip center <i>referred to axial center</i>	13,48 mm	28,75 mm
Recommended mechanical air gap <i>referred to magnetic coating surface</i>	0,40 mm	0,40 mm
LSB limit value under control (Min & Max)	60 %	

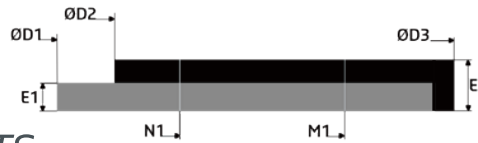
MECHANICAL FEATURES

HUTCHINSON PART NUMBER		789837	789612	789880	789980
ØD1	Ring inner diameter (mm)	18,00 ^{+0,03} / _{-0,02}	8,00 ^{+0,05} / _{-0,00}	47,40 ^{+0,03} / _{-0,02}	35,50 ^{+0,03} / _{-0,02}
ØD2	Magnetic track inner diameter (mm)	20,50 ^{+0,1} / _{-0,1}	20,50 ^{+0,1} / _{-0,1}	49,90 ^{+0,1} / _{-0,1}	49,90 ^{+0,1} / _{-0,1}
ØD3	Ring outer diameter (mm)	34,50 ^{+0,2} / _{-0,2}	34,50 ^{+0,2} / _{-0,2}	65,10 ^{+0,2} / _{-0,2}	65,10 ^{+0,2} / _{-0,2}
E1	Stainless steel insert thickness (mm)	0,60	0,60	0,60	0,60
E2	Total thickness (mm)	1,10 ^{+0,1} / _{-0,1}	1,10 ^{+0,1} / _{-0,1}	1,10 ^{+0,1} / _{-0,1}	1,10 ^{+0,1} / _{-0,1}
Magnet ring operating ambient temperature range		-40 to 140 °C			

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AXIAL NONIUS MAGNET RINGS

DATA SHEET FOR STANDARD PARTS



MAGNETIC FEATURES

ITEM	PARAMETER	HUT200A16	HUT200A32	HUT220A32	HUT200A64
N1	Number of pole pairs on Nonius track	15	31	31	63
	Scanning reading diameter of Nonius track	12,40 mm	32,80 mm	36,82 mm	73,50 mm
	Pole width of Nonius track	1,30 mm	1,66 mm	1,87 mm	1,83 mm
M1	Number of pole pairs on master track	16	32	32	64
	Scanning reading diameter of master track	20,40 mm	40,80 mm	44,82 mm	81,50 mm
	Pole width of master track	2,00 mm	2,00 mm	2,20 mm	2,00 mm

> MATERIAL CHARACTERISTICS

Br	Remanence @20°C	190 mT
Tc	Temperature coefficient of the remanence	-0,19 %/K
	Coercitivity field	240 KA/m

> RECOMMENDED CHIP USAGE

iC-Haus chips reference	iC-MU200	iC-MU200	iC-MU200	iC-MU200
Radial position of chip center <i>referred to axial center</i>	8,20 mm	18,40 mm	20,41 mm	38,75 mm
Recommended mechanical air gap <i>referred to magnetic coating surface</i>	0,60 mm	0,60 mm	0,60 mm	0,60 mm
LSB limit value under control (Min & Max)	60 %			

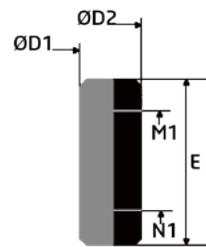
MECHANICAL FEATURES

HUTCHINSON PART NUMBER		789985	789869	789909	789987	789932
ØD1	Ring inner diameter (mm)	8,00 ^{+0,03} _{-0,02}	25,00 ^{+0,05} _{-0,00}	28,9 ^{+0,03} _{-0,02}	31,50 ^{+0,025} _{0,00}	62,00 ^{+0,03} _{-0,02}
ØD2	Magnetic track inner diameter (mm)	10,00 ^{+0,1} _{-0,1}	29,10 ^{+0,1} _{-0,1}	30,00 ^{+0,1} _{-0,1}	32,80 ^{+0,1} _{-0,1}	70,00 ^{+0,1} _{-0,1}
ØD3	Ring outer diameter (mm)	24,00 ^{+0,2} _{-0,2}	44,50 ^{+0,2} _{-0,2}	44,50 ^{+0,2} _{-0,2}	49,00 ^{+0,1} _{-0,05}	85,00 ^{+0,2} _{-0,2}
E1	Stainless steel insert thickness (mm)	0,50	0,60	0,60	1	1
E2	Total thickness (mm)	1,30 ^{+0,1} _{-0,1}	1,40 ^{+0,1} _{-0,1}	1,40 ^{+0,1} _{-0,1}	2,00 ^{+0,1} _{-0,1}	1,80 ^{+0,1} _{-0,1}
Magnet ring operating ambient temperature range		-40 to 140 °C				

External fields can change the functional properties and may reduce system accuracy or damage the disc magnetization. The functionality of the system may no longer be ensured. Direct contact with magnetic clamps or other permanent magnets must be avoided.

RADIAL NONIUS MAGNET RINGS

DATA SHEET FOR STANDARD PARTS



MAGNETIC FEATURES							
ITEM	PARAMETER	HUT128R32		HUT150R64			
N1	Number of pole pairs on Nonius track	31	63	63			
	Scanning reading position of Nonius track	1,2 mm	2,2 mm	1,7 mm			
	Pole width of Nonius track (°)	360/62	360/126	360/126			
M1	Number of pole pairs on master track	32	64	64			
	Scanning reading position of master track	4,8 mm	5,8 mm	5,3 mm			
	Pole width of master track (°)	360/64	360/128	360/128			
> MATERIAL CHARACTERISTICS							
Br	Remanence @20°C	190 mT					
Tc	Temperature coefficient of the remanence	-0,19 %/K					
	Coercitivity field	240 KA/m					
> RECOMMENDED CHIP USAGE							
iC-Haus chips reference		iC-MU	iC-MU150				
Radial position of chip center <i>referred to axial center</i>		3 mm	4 mm	3,5 mm			
Recommended mechanical air gap <i>referred to magnetic coating surface</i>		0,40 mm	0,40 mm	0,40 mm			
LSB limit value under control (Min & Max)		60 %					
MECHANICAL FEATURES							
HUTCHINSON PART NUMBER		789894		789892		789951	
ØD1	Ring inner diameter (mm)	20,00	+0,021 -0,00	53,10	+0,03 -0,00	52,60	+0,03 -0,00
ØD2	Ring outer diameter (mm)	24,50	+0,05 -0,05	59,60	+0,15 -0,15	59,60	+0,15 -0,15
E	Height (mm)	6	+0,1 -0,1	8	+0,2 -0,0	7	+0,2 -0,0
Magnet ring operating ambient temperature range		-40 to 140 °C					

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