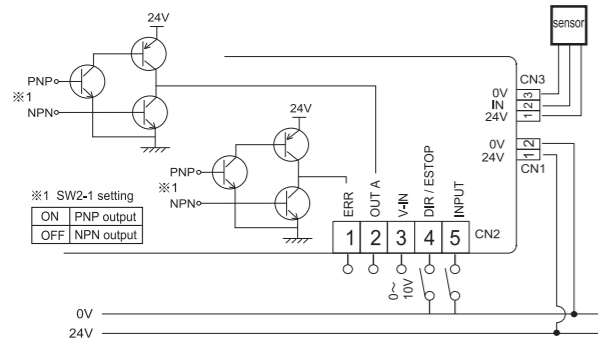


MDR专用内置输送逻辑  
**HB-510型**



<Wiring diagram>



<Specifications>

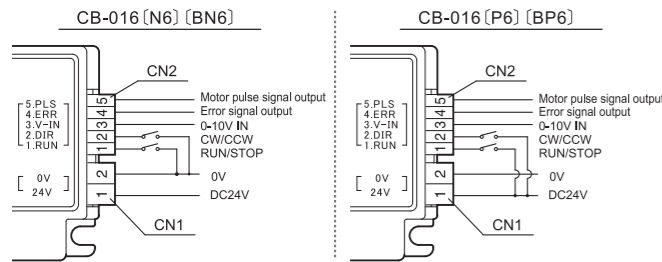
Power voltage	DC24V ±10%
Rated voltage	DC24V
Static current	0.06A
Peak current	20A ≤ 1msec
Starting current	4.0A
Input	Sensor NPN/PNP
Alarm	NPN/PNP
Forcible run/stop	NPN/PNP
Direction	NPN/PNP
Emergency stop	NPN/PNP
External speed variation	DC 0 to 10V
Output	Sensor NPN/PNP open collector (#1)
Error	NPN/PNP open collector (#1)
Synchronization	NPN/PNP open collector (#1)
LED indication	Error (red) Power status (green) Sensor status (orange)
Protection	Integral 7A fuse (+ side) Integral diode against miss wiring
Thermal protection	Reacts at 85 °C on circuit board, or 100 °C on motor

#1 PNP or NPN signal selectable by clip switch  
#2 Applicable only for HB 510BN or HB 510BP for Power Moller with built-in brake  
#3 It is not available at ambient temperature of 0 °C or less for LT.

MDR专用标准驱动器  
**CB-016型**



<Wiring diagram>



<Specifications>

Power voltage	24VDC ±10% (±5%) *1
Rated voltage	24VDC
Static current	0.03A
Peak current	20A, 1msec or less
Starting current	4.0A
Motor starts running from RUN signal	≤ 15msec
Error signal discharge	NPN (or PNP) Open collector output (should be set to 25mA to less max. output current)
LED	Power (green) Error (red) Frequency (red/orange)
Protections	Integral 6.3A fuse (+ side) Diode against miss-wiring
Thermister	95 °C on PCB or 105 °C in motor

#1 No holding effect. In case holding effect is required, use Power Moller with built-in brake option (BR) together with CB-016[BN6][BP6].  
#2 In case of CB-016[BSS][BP6], connector P/N is S10B-XHA.  
#3 ElectroMagnetic brake, which is disengaged to the motor when powered, and is engaged to the motor to stop inertia when power is off.  
#4 CB-016 driver card having LT option is used in the ambient temperature range between -30 and 10 °C. (no condensation)  
#5 In case of using UL recognized product.  
#6 Conforming to EC60640-1 and UL240  
#7 Please select and use an appropriate cable according to the voltage used, the current, and the environment. There is a fear of a leak or a fire when an inappropriate cable is used.

MDR专用驱动器产品阵容

类型	型号	外观
高度控制 网络通信 + 本地逻辑	IB-P 系列	支持PROFINET (IB-P系列)
	IB-E 系列	支持以太网/IP (IB-E系列)
网络通信	IB-C 系列	支持CC-Link (IB-C系列)
内置固定逻辑	HB 系列	HB-510, HBR-605, HBM-604
标准驱动器	CB 系列	CB-016, CB-018

Technology for tomorrow



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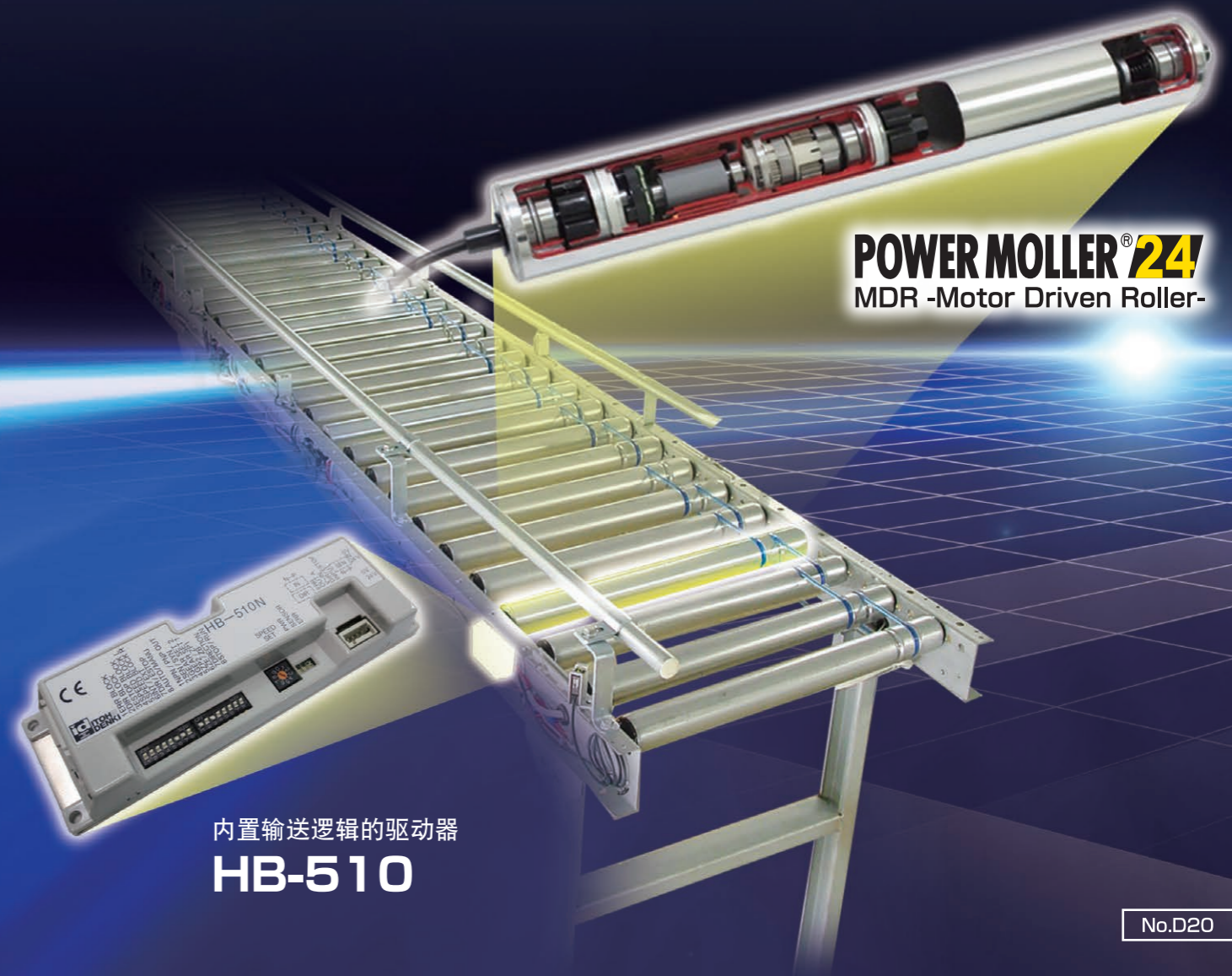
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MDR是物料输送的万能组件



POWER MOLLER® 24  
MDR -Motor Driven Roller-

内置输送逻辑的驱动器  
**HB-510**

No.D20

# 内置POWER MOLLER24 (MDR: Motor-Driven Roller)与 输送逻辑的驱动器(HB-510)

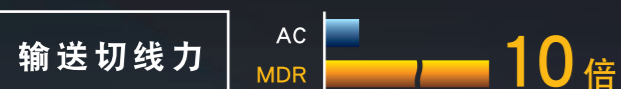
## 关于 MDR

MDR是Motor-Driven Roller的缩写。

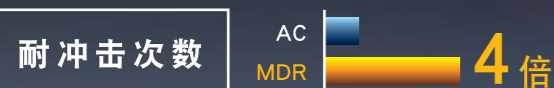
伊东电机将搭载DC无刷电机的输送机驱动用电机辊统称为MDR并一直致力于MDR的推广。

### 具有卓越耐久力的MDR

依据本公司产品实验值的对比



※AC(PM486BS)与MDR(PM486FE)的圆周速度为15m时的对比



- 打造安全、舒适的空间
- 节省能源
- 高转矩、高速输送
- 控制性优异
- 削减设计工时数  
降低成本

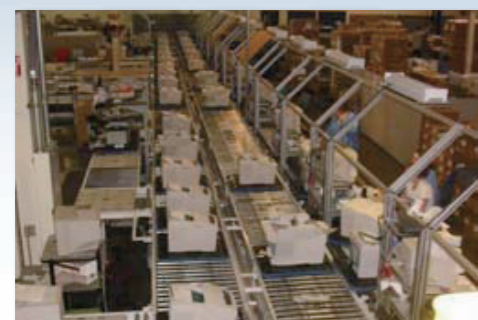
### MDR输送机交货事例



书籍配送中心



饮料生产厂家的配送中心



OA设备生产厂家



汽车零部件生产厂家



### 通过内置输送逻辑的驱动器HB-510实现简单输送

HB-510内置了输送逻辑，  
因此不需要输送机的控制程序。

大幅度削减输送机的设计工时数

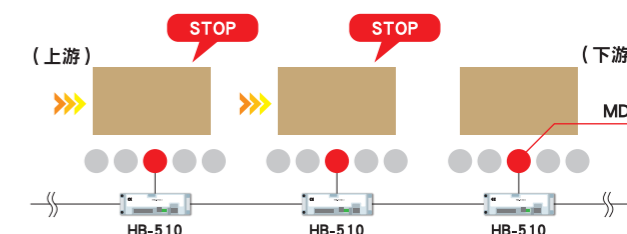
通过简单布线即可实现即插即用的运行



### 可以打造这样的输送机

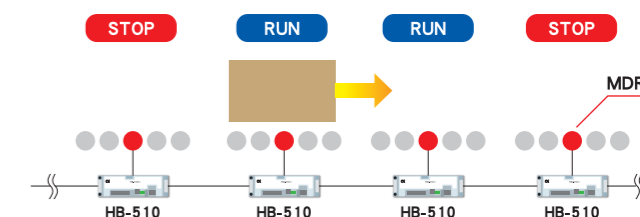
#### ■ 输送物之间不会碰撞

当下游有输送物停止时，上游侧的输送物分开间隔并停止，避免损伤输送物。



#### ■ 按需运行输送

MDR输送机采用按需运行输送的方式，  
可以仅驱动必要的部分，与其它方式相比，  
最多可以削减60%的耗电。

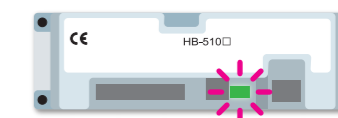


#### ■ 输送机的速度可以变化

可以根据生产能力改变输送机的输送速度。  
(也可以通过外部信号变更连接HB-510的所有生产线。)

#### ■ 电机保护功能

当因过载等而引起电机、基板的温度上升时，以及电机被锁定时，  
将停止输出，防止电机被烧坏。  
错误信息可以通过驱动器的LED来识别。



可以通过LED的显示  
进行错误识别。