Our technologies benefits

- High MTBF
- High energy saving
- Solid mechanical construction
- Increased throughput
- Wide-range speed/torque on a single item (no gear)
- Wide format handling capability

- System efficiency increase due to the absence of gears inside the motoroller
- No limits start/stop cycles
- **☑** Drastic noise reduction
- No maintenance
- The replacement with a new motoroller does not require any configuration action



MOTOR POWER COMPANY srl

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>> APPLICATION AREAS



CONVEYOR

Technologies for transportation of pallets, parcels, envelopes and other packed items

SORTING

- Express couriers plants

- Luggages sorting plants (airports)
- Postal sorting plants
- Retail distribution food/no food



AUTOMATIC GUIDED VEHICLES







SEE IT BEFORE IT HAPPENS

GEARLESS TECHNOLOGIES FOR **EFFICIENT** MATERIAL HANDLING





In modern manufacturing, the organization flow of input material till the finished product output is called material handling. Moving, protecting, storing and controlling materials over their entire operational cycle up to distribution, is a process that incorporates a wide range of manual, semi-automated and fully automated operations that are put in place to improve inventory, shorten delivery time and lower overall costs.



>> CONVEYOR APPLICATIONS

Pallet Conveyors allow efficient transport, accumulation, lifting, and sorting of heavy loads as an alternative to forklifts handling.

In warehouse automation operations, a pallet conveyor is generally utilized to move loads of several hundreds kilograms while ensuring continuous feed of work and cutting edge efficiency.







>> **SORTING APPLICATIONS**

The main sorter component, known as the carrier, consists of a series of carts which are actually small bi-directional conveyor belts.

The configuration of the cross belt sorter can either be in a straight line or in a loop, high throughput of a vast range of products, flexible integration into existing layouts, low operating costs, simple mechanical construction, and a higher density of sort locations are the main benefits guaranteed by cross belt solutions. Sorting of smaller items in the following industries are typical applications:

Parcel-Courier - Postal - Health & beauty - Entertainment - Electronics - Retail - Clothing & apparel - Mail order fullfilment



An automated guided vehicle (AGV) is an unmanned mobile robot that follows markers or wires in the floor, or uses vision or lasers (LGV - laser guided vehicle).

They are most often used in industrial applications to move materials around a manufacturing facility or a warehouse and allow to increase handling efficiency and allowing modular adaption of the architecture due to easy implementation of extra vehicles.







Lite Pro drive

» Power 235 Watt

» Torque 2,8 Nm

Motoroller

» 60Vdc

Drive

» CANOpen

» Feedback TTL encoder, Hall sensor

The motorollers design is based on direct drive torque motors technology, means that the motion is transferred directly

Motorollers are available either in frameless (cartridge) version - without tube -, or power pack, the design that includes

» Digital i/o: 8 digital inputs, 2 digital outputs

DRIVE DMR PC 6/50

• 48 Vdc operating supply voltage Nominal current 6A

Ethercat, Profinet and Ethernet IP fieldbus

- » Servo modes: torque, velocity and position with S-curve profile » Internal Script
- » Very compact design

» 24 and 65 Vdc

» Profibus

» Encoder, Hall Sensor

» I/O programmability

Dual axes operation

Peak current 15A

• 3 photoeyes inputs

» USB programmability

Motoroller 60 Power Pack

» Size 60mm «Ready to use»

Motoroller 76 - Frameless and Power Pack Drive DMR 76-10/65

» Power 260 Watt

» Torque 3.1 Nm

» Fnonder, Hall sensor

» Suitable for 80mm tubes

» 48 and 65 Vdc

PALLET CONVEYOR

· External diam. 89mm and 70mm

400W high density power brushless motoroller

GEARLESS MOTOROLLER

Motoroller 46 Power Pack

» Torque 0,16 Nm and 1,35 Nm

» Dual axis control in each drive

» I/O programmability for speed, start and

» Two sizes: power 50 Watt and 115 Watt

» Cartridge diam 46 mm, suitable for 50 mm tubes

Drive DMR 50-5/50

» Hall sensors, Encoder

» 24 and 48Vdc

» 24 and 48 Vdc » Encoder e Hall Sensor

» CanOpen, RS485

from the motoroller to the load, without any applied gearbox.

the external roll and provides a «ready to use» configuration.

- 48Vdc and 400Vac
- 3 stages planetary gearbox
- Motoroller size 89 with planetary «lifetime» lubricated
- gearbox, conveyor speed 16,2 m/min (0,27 m/sec) Motoroller size 70 with planetary «lifetime lubricated
- gearbox, conveyor speed 22,2 m/min (0,37 m/sec) IP 54 - Class F - Payload up to 1500 Kg
- Digital I/O

DUET drive integrated brushless servomotors

Motion, positioning and control with power and efficiency without foregoing precision and speed: Motor Power Company caters to these needs through a comprehensive line-up of brushless servomotors with integrated drive technology. Servomotors you can rely on featuring drives with a wide choice of fieldbus options.

These models are everything you need for moving and controlling an axis is built directly into these highly compact single component: servomotor, feedback and intelligent servo drive featuring CANopen, Profinet or Ethercat networking.

- Supply voltage 48 Vdc
- Integrated brake control
- Absolute encoder, resolver and incremental encoder feedback
- Fieldbus: Ethercat, CanOpen and Profinet



Gearless motoroller and drive - bundle size 50, 60 and 80 mm

Two versions

Frameless motor without tube, for insertion into the roller; power pack version, a ready-to-use motor that includes the roller

Pallet Conveyor Roller with integrated servomotor, in bundle with DMR PC drive, for pallet movement up to 1.500ka







PRODUCTS

Gearless motoroller bundle size 50, 60 and 80mm Two versions, frameless motor without tube, for insertion into the roller and power pack version, a ready-to-use motor that includes the roller.

Drive integrated servomotor DUET

High density power integrated solution. These models are everything you need for moving and controlling an axis. Servomotor, feedback and intelligent servo drive featuring CANopen, Profinet or Ethercat networking









PRODUCTS

Drive integrated servomotor DUET

High density power integrated solution These models are everything you need for moving and controlling an axis. Servomotor, feedback and intelligent servo drive featuring CANopen, Profinet or Ethercat networking







