

Intelligent Brushless Drive IMD series 2 to 20 A

3 in 1
Motion controller
PLC
Drive

Advanced Motion functions

Positioning



Gearbox



CAM profiles



Registration



CAM boxes



PLC



Applications

Multi-axis manipulators
Packaging machines
Label printing
Winding
Flying shears
Dosing

Security

Setup & program on
Memory Stick

Performances

Setup tools

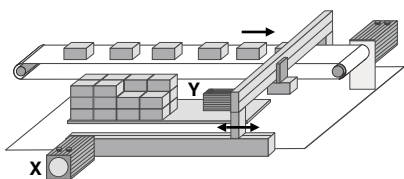
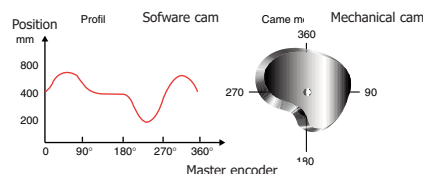
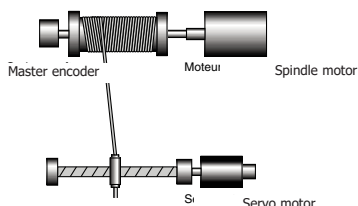
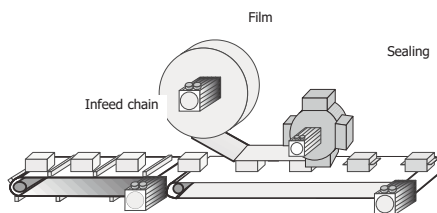
Trajectory generator
Instrument panel
Hyper terminal
Oscilloscope

Software workshop

Basic Motion Tasks
Trajectory array
CAM profiles



The solution for your motion control applications

Palletisation

Electronic cams

Winding

Flow-Pack

Power supply

230V to 400V AC $\pm 10\%$ three-phase

Auxiliary supply

24 V DC $\pm 10\%$, 0.4A typical (0.7A max if all options)

EMC Filter

Integrated

Brake resistor

Integrated (30W)

Provision for an external resistor

Architecture

32 bit Processor :150 MHz DSP and 100 000 gate FPGA

memory: FLASH, FRAM, RAM and Memory Stick*

Real-time multi-tasking kernel

Control loops

Current loop : 75 μ s - Speed loop : 150 μ s - Position loop : 150 μ s

Motor feedback

Resolver, Incremental encoder*, SinCos encoder HIPERFACE*

Master encoder

Incremental, Absolute SSI, Virtual

SinCos HIPERFACE* (only if Motor feedback does not use it)

Encoder emulation

Setup from 1 to 100 000 pulses per revolution

Communication

Modbus RTU, CANopen*, Ethernet Modbus TCP*, EtherCAT*

Inputs / Outputs

4 digital inputs (with 2 fast 1 μ s) / 2 digital outputs

2 analogue inputs / 1 analogue output

1 safety input SIL2*

Additional module 12 digital inputs / 8 digital outputs 500mA*

Diagnostic

Status display

Operating modes

Torque, speed or position mode

Stepper Mode (pulse input, direction)

Motion functions (positioning, S profile, gearbox, CAM profiles, synchronization, CAMBOX functions, triggered movement)

IMD range	IMD/2/S	IMD/5/S	IMD/10/S	IMD/20/S
Nominal current	2.5 Arms	5 Arms	10 Arms	20 Arms
Peak current (2s)	5 Arms	10 Arms	20 Arms	40 Arms
Nominal power	1.4 kVA	2.8 kVA	5.6 kVA	11.2 kVA
Dimensions W x H x D	72 x 293 x 233	72 x 293 x 233	72 x 293 x 233	125 x 293 x 233

*options