

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

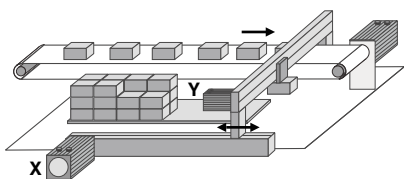
Software workshop

Basic Motion Tasks
Trajectory array
CAM profiles

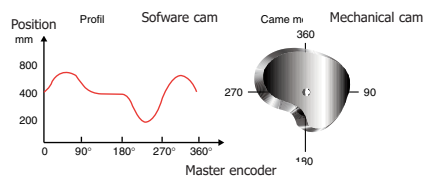


The solution for your motion control applications

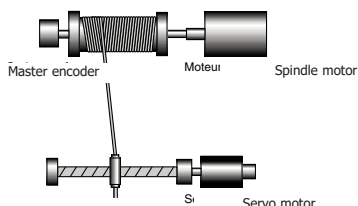
Palletisation



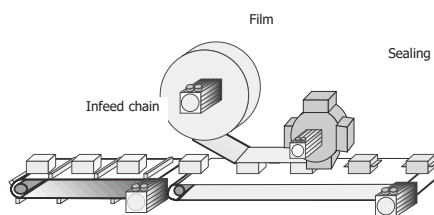
Electronic cams



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