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MULTI-AXIS MOTION CONTROLLERS

DSMAX Family

The DSMAX is a very powerful multi-axis motion controller family dedicated to control up to 31 ETEL's position controllers. Moreover the DSMAX can execute complex interpolated trajectories. Thanks to its real-time deterministic position controllers management through TEB bus, the DSMAX covers the most demanding multi-axis applications.

- Multi-axis synchronization and interpolation
- Several trajectory calculation algorithms
- Stage mapping function
- Errors link management
- Live trajectory change
- Multitasking capabilities
- ISA, PCI or Ethernet communication
- High speed communication bus (TEB)
- Programmable with sets of ETEL's libraries

DSMAX1	DSMAX2	DSMAX3
ISA Board	Rack format - TCP/IP Communication with PC	PCI Board

CONFIGURATION NETWORK

The DSMAX multi-axis motion controller family allows the management of the DSC position controllers through Turbo-ETEL-Bus (TEB).

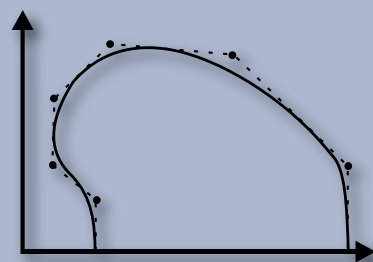
CYCLE TIME

166 μ s (to manage up to 31 axes)

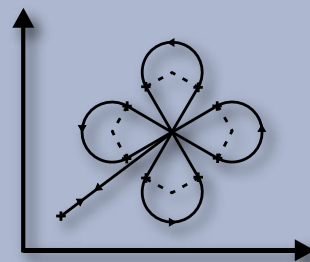
MOTION CONTROL BUS

TEB: Multi-axis fast bus 100 Mbps

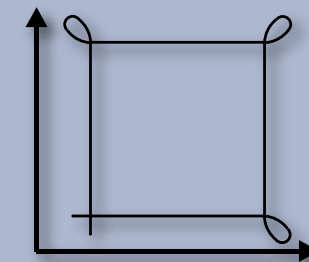
INTERPOLATION MODES



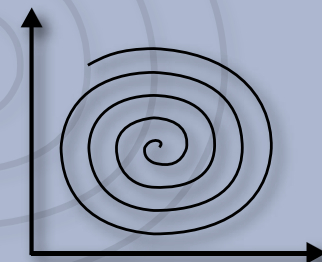
Universal Linear Movement (ULM): trajectory made up of concatenated linear movements



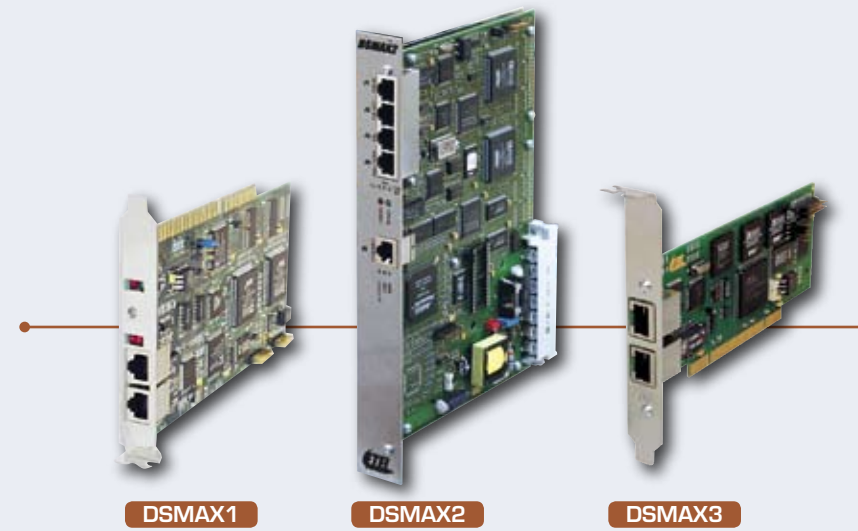
G-code based: trajectory made up of linear segments and circle arcs



Position-Velocity-Time (PVT): user-defined trajectory smoothed by a 3rd order polynomial

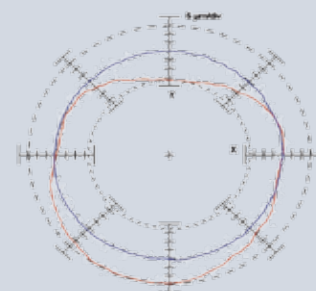


Look-up Table (LKT): trajectory with a user-defined look-up table profile



	DSMAX2	DSMAX1	DSMAX3
Machine Control	Processor type: PowerPC@200 MHz Fast Ethernet comm. speed: 100 Mbps		
Motion Control	Motion type: G-code, PVT, LKT, ULM Interpolated axes: 4 Sequence threads: 3	Motion type: G-code, PVT, LKT, ULM Interpolated axes: 4 Sequence threads: 3	Motion type: G-code, PVT, LKT, ULM Interpolated axes: 2x4 Sequence threads: 3
Axes Sync.	PC communication: TCP/IP Synchronized axes: 31 Cycle time: 6 kHz (166 μ s)	PC communication: ISA Synchronized axes: 31 Cycle time: 6 kHz (166 μ s)	PC communication: PCI Synchronized axes: 31 Cycle time: 6 kHz (166 μ s)

ADVANCED FUNCTION EXAMPLE: Stage mapping



Without stage mapping

With stage mapping

Radius: 75 mm
Feed rate: 1200 mm/min.
Direction of rot.: CW

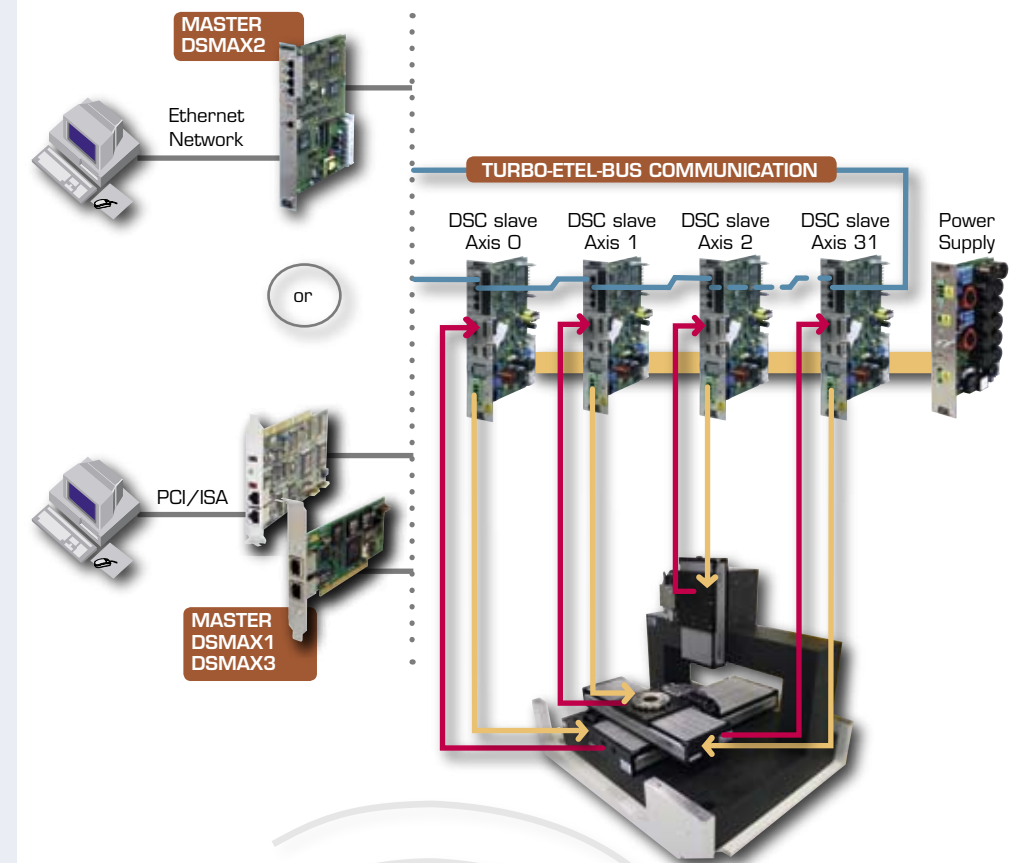
MANAGEMENT TYPE

- Synchronization up to 31 axes
- Interpolation up to 2x4 axes at 6 kHz
- 4 different interpolated movement types: G-code based, PVT, LKT and ULM
- Up to 3 sub-sequences in parallel

Sequence definition

Sequences are defined by the user to describe movements including positioning commands and use standard functionalities of programming (tests, variables, subroutines...)

To optimize the system performances and to facilitate the programmer's work, three sequences can be simultaneously executed.





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