

EAGLE™ Basic I Pro

Motion Control Solutions for CMMs



Product description

The EAGLE™ product family offers a comprehensive package of controllers for all kinds of coordinate measuring machines. Whether for machine builders or retrofitters, the EAGLE™ controller family stands for the highest speed, exceptional machine throughput and accurate results.

System integration

EAGLE™ basic

Reduced to the max. Pantec's EAGLE™ basic fulfills the requirements of medium profile CMMs, focusing on touch trigger probe applications at the highest performance level. Equipped with three servo drivers, interfaces to all established CMM softwares, and integrated power adaptor, all in a space-saving 3U 19" housing, EAGLE™ basic is the choice for standard applications.

EAGLE™ pro

The EAGLE™ pro series are high-end controller systems with very high flexibility and unlimited measuring volume. By adding optional boards, the application areas can be easily extended, e.g. for scanning applications.

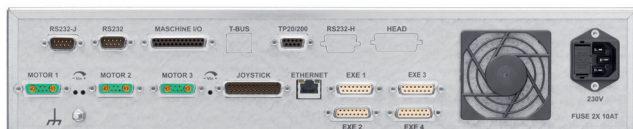
EAGLE™ pro/4: Equipped with a fourth axis for all machine types, like gantry or CMMs with rotary tables, EAGLE™ pro/4 is the ideal solution for complex metrology applications.

EAGLE™ pro/4 HP: The additional fourth axis plus 1000 W total power makes EAGLE™ pro /4 HP the ideal controller for power demanding measuring machines.

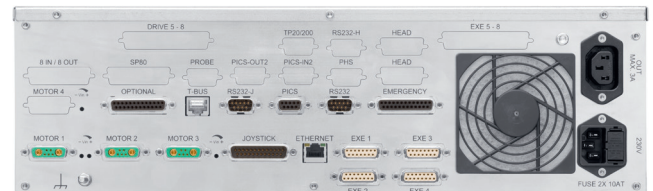
Technical Specifications

	EAGLE™ basic	EAGLE™ pro/3	EAGLE™ pro/4	EAGLE™ pro/4 HP
Specifications				
▪ Configured for direct CNC controlled CMMs	✓	✓	✓	✓
▪ Number of CMM axes controlled	3	3	4	4
▪ Communications link with PC	Ethernet and RS232	Ethernet and RS232	Ethernet and RS232	Ethernet and RS232
▪ Direct Software integration	EAGLE.driver	EAGLE.driver	EAGLE.driver	EAGLE.driver
▪ Integrated motor power supply	✓	✓	✓	✓
▪ Touch-trigger probing function	✓	✓	✓	✓
▪ TP200 interface (with Head interface)	✓	✓	✓	✓
▪ SP600 interface (with Option Board)	-	✓	✓	✓
▪ SP25M interface (with Option Board)	-	✓	✓	✓
▪ SP80 interface (with Option Board)	-	✓	✓	✓
▪ Temperature sensor inputs (T-Bus™)	16 (with Head interface)	16	16	16
▪ Digital scale input RS422	✓	✓	✓	✓
▪ Pantec Support Tool	✓	✓	✓	✓
▪ Emergency stop	✓	✓, extended	✓, extended	✓, extended
▪ Measurement volume	X+Y = 3800mm and Z = 800mm	unlimited	unlimited	unlimited
▪ Subcount interpolation	✓	✓	✓	✓
▪ Drive power	4A / 60 V	5A / 60 V	5A / 60 V	5A / 120 V
▪ Motor types	DC-Brush	DC-Brush	DC-Brush	DC-Brush
▪ GEC (Geometric Error Compensation)	✓	✓	✓	✓
Electrical data				
▪ Nominal input power	550 VA	550 VA	550 VA	1100 VA
▪ Input voltage	115 VAC / 230 VAC	115 VAC / 230 VAC	115 VAC / 230 VAC	115 VAC / 230 VAC
Physical data				
▪ Dimension (L x H x D)	490 x 90 x 380 mm	490 x 135 x 380 mm	490 x 135 x 380 mm	490 x 135 x 380 mm
▪ Weight	10 kg	20 kg	20 kg	25 kg
▪ Rack mounting	19"	19"	19"	19"
Product Configuration			230 VAC	115 VAC
▪ EAGLE™ basic	3 axis CMM controller		34607	34608
▪ EAGLE™ pro/3	3 axis CMM controller		34605	34606
▪ EAGLE™ pro/4	4 axis CMM controller		34609	34610
▪ EAGLE™ pro/4 HP	4 axis CMM controller		34611	34612
Options				
▪ SP25/600 Interface	33506			
▪ SP80 Interface	33507			
▪ TP200 Interface	34478	No scanning probes		
▪ Analog Interface	34480			
▪ Analog Scanning Interface	34481			

Rear side EAGLE™ Basic



Rear side EAGLE™ Pro



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