

eCobra 600

Product name		eCobra			
	Size	600			
	Type	600 Standard		600 Pro	
	Cleanroom	Standard	Cleanroom	Standard	Cleanroom
Part Number		RL4-1166000	RL4-1166010	RL4-2166000	RL4-2166010
Number of axes		4			
Mounting		table/floor			
Reach		600 mm			
Maximum Payload		5.5 kg			
Repeatability	XY	±0.017 mm			
	Z	±0.003 mm			
	Theta	±0.019°			
Joint Range	Joint 1	±105°			
	Joint 2	±157.5°			
	Joint 3	210 mm			
	Joint 4	±360°			
Inertia Moment (Max.)	Joint 4	450 kg-cm ²			
Joint Speeds	Joint 1	386°/s			
	Joint 2	720°/s			
	Joint 3	1100 mm/s			
	Joint 4	1200°/s			
Power Requirements		24 VDC: 6 A 200 to 240 VAC: 10 A, single-phase			
Protection		IP20			
Clean Class		---	Class 10	---	Class 10
Environment	Ambient Temperature	5 to 40°C			
	Humidity Range	5 to 90% (non-condensing)			
Weight		41 kg			
Basic configuration	Controller	iCS-ECAT			
	On-board I/O (Input/Output)	12/8, 4 Solenoid Output			
	Conveyor tracking input	No		2	
	RS-232C serial	1			
	Programming environment	Sysmac Studio 64-bit			
	ACE Sight	Yes			
	ePLC Connect	No			
	ePLC I/O	No		No	
Connectable controller		Omron NJ501-R Series			

eCobra 600 Lite / Standard / Pro

Product name		eCobra					
	Size	600					
	Type	600 Lite		600 Standard		600 Pro	
	Cleanroom	Standard	Cleanroom	Standard	Cleanroom	Standard	Cleanroom
Part Number		17010-16000	17010-16010	1711[]-16000	1711[]-16010	1721[]-16000	1721[]-16010
Number of axes		4					
Mounting		table/floor					
Reach		600 mm					
Maximum Payload		5.5 kg					
Repeatability	XY	±0.017 mm					
	Z	±0.003 mm					
	Theta	±0.019°					
Joint Range	Joint 1	±105°					
	Joint 2	±157.5°					
	Joint 3	210 mm					
	Joint 4	±360°					
Inertia Moment (Max.)	Joint 4	450 kg-cm ²					
Joint Speeds	Joint 1	386°/s					
	Joint 2	720°/s					
	Joint 3	1100 mm/s					
	Joint 4	1200°/s					
Cycle times *1 (Payload 2.0 kg)	Burst	0.66 s		0.55 s		0.39 s	
	Sustained	0.66 s		0.55 s		0.45 s	
Power Requirements		24 VDC: 6 A 200 to 240 VAC: 10 A, single-phase					
Protection		IP20					
Clean Class		---	Class 10	---	Class 10	---	Class 10
Environment	Ambient Temperature	5 to 40°C					
	Humidity Range	5 to 90% (non-condensing)					
Weight		41 kg					
Basic configuration	Controller	eAIB					
	On-board I/O (Input/Output)	12/8, 4 Solenoid Output					
	Conveyor tracking input	No				2	
	RS-232C serial	No		1			
	Programming	ACE		ACE, PackXpert, ePLC			
	ACE Sight	No *2		Yes			
	ePLC Connect	No		Yes			
ePLC I/O		No				Yes	
Connectable controller *3		No		SmartController EX, NJ/NX/NY Series *4			

- *1. Adept cycle, in mm 25/305/25 (seconds, at 20°C ambient)
- *2. The SmartVision MX cannot be used with the Lite type.
- *3. Choose a controller to suit your application.
- *4. The robot version 2.3.C or later is required to connect with the NJ/NX/NY Series.

eCobra 800

Product name		eCobra					
	Size	800					
	Type	800 Standard			800 Pro		
	Cleanroom/IP	Standard	Cleanroom	IP65	Standard	Cleanroom	IP65
Part Number		RL4-1168000	RL4-1168010	RL4-1168030	RL4-2168000	RL4-2168010	RL4-2168030
Number of axes		4					
Mounting		table/floor					
Reach		800 mm					
Maximum Payload		5.5 kg					
Repeatability	XY	±0.017 mm					
	Z	±0.003 mm					
	Theta	±0.019°					
Joint Range	Joint 1	±105°					
	Joint 2	±157.5°					
	Joint 3	210 mm					
	Joint 4	±360°					
Inertia Moment (Max.)	Joint 4	450 kg-cm ²					
Joint Speeds	Joint 1	386°/s					
	Joint 2	720°/s					
	Joint 3	1100 mm/s					
	Joint 4	1200°/s					
Power Requirements		24 VDC: 6 A 200 to 240 VAC: 10 A, single-phase					
Protection		IP20	IP20	IP65	IP20	IP20	IP65
Clean Class		---	Class 10	---	---	Class 10	---
Environment	Ambient Temperature	5 to 40°C					
	Humidity Range	5 to 90% (non-condensing)					
Weight		43 kg					
Basic configuration	Controller	ICS-ECAT					
	On-board I/O (Input/Output)	12/8, 4 Solenoid Output					
	Conveyor tracking input	No			2		
	RS-232C serial	1					
	Programming	Sysmac Studio 64-bit					
	ACE Sight	Yes					
	ePLC Connect	No					
	ePLC I/O	No					
Connectable controller		Omron NJ501-R Series					

eCobra 800 Lite / Standard / Pro

Product name		eCobra		
	Size	800		
	Type	800 Lite		
	Cleanroom/IP	Standard	Cleanroom	IP65
Part Number		17010-18000	17010-18010	17010-18030
Number of axes		4		
Mounting		table/floor		
Reach		800 mm		
Maximum Payload		5.5 kg		
Repeatability	XY	±0.017 mm		
	Z	±0.003 mm		
	Theta	±0.019°		
Joint Range	Joint 1	±105°		
	Joint 2	±157.5°		
	Joint 3	210 mm		
	Joint 4	±360°		
Inertia Moment (Max.)	Joint 4	450 kg-cm ²		
Joint Speeds	Joint 1	386°/s		
	Joint 2	720°/s		
	Joint 3	1100 mm/s		
	Joint 4	1200°/s		
Cycle times (Payload 2.0 kg)	Burst *1	0.73 s		
	Sustained *1	0.73 s		
Power Requirements		24 VDC: 6 A 200 to 240 VAC: 10 A, single-phase		
Protection		IP20	IP20	IP65
Clean Class		---	Class 10	---
Environment	Ambient Temperature	5 to 40°C		
	Humidity Range	5 to 90% (non-condensing)		
Weight		43 kg		
Basic configuration	Controller	eAIB		
	On-board I/O (Input/Output)	12/8, 4 Solenoid Output		
	Conveyor tracking input	No		
	RS-232C serial communications	No		
	Programming environment	ACE		
	ACE Sight	No *2		
	ePLC Connect	No		
Connectable controller *3		No		
ePLC I/O		No		

Product name		eCobra		
	Size	800		
	Type	800 Standard		
	Cleanroom/IP	Standard	Cleanroom	IP65
Part Number		1711[]-18000	1711[]-18010	1711[]-18030
Number of axes		4		
Mounting		table/floor		
Reach		800 mm		
Maximum Payload		5.5 kg		
Repeatability	XY	±0.017 mm		
	Z	±0.003 mm		
	Theta	±0.019°		
Joint Range	Joint 1	±105°		
	Joint 2	±157.5°		
	Joint 3	210 mm		
	Joint 4	±360°		
Inertia Moment (Max.)	Joint 4	450 kg-cm ²		
Joint Speeds	Joint 1	386°/s		
	Joint 2	720°/s		
	Joint 3	1100 mm/s		
	Joint 4	1200°/s		
Cycle times (Payload 2.0 kg)	Burst *1	0.62 s		
	Sustained *1	0.62 s		
Power Requirements		24 VDC: 6 A 200 to 240 VAC: 10 A, single-phase		
Protection		IP20	IP20	IP65
Clean Class		---	Class 10	---
Environment	Ambient Temperature	5 to 40°C		
	Humidity Range	5 to 90% (non-condensing)		
Weight		43 kg		
Basic configuration	Controller	eAIB		
	On-board I/O (Input/Output)	12/8, 4 Solenoid Output		
	Conveyor tracking input	No		
	RS-232C serial communications	1		
	Programming environment	ACE, PackXpert, ePLC		
	ACE Sight	Yes		
	ePLC Connect	Yes		
	ePLC I/O	Yes		
Connectable controller *3		SmartController EX, NJ/NX/NY Series *4		

Product name		eCobra		
	Size	800		
	Type	800 Pro		
	Cleanroom/IP	Standard	Cleanroom	IP65
Part Number		1721[]-18000	1721[]-18010	1721[]-18030
Number of axes		4		
Mounting		table/floor		
Reach		800 mm		
Maximum Payload		5.5 kg		
Repeatability	XY	±0.017 mm		
	Z	±0.003 mm		
	Theta	±0.019°		
Joint Range	Joint 1	±105°		
	Joint 2	±157.5°		
	Joint 3	210 mm		
	Joint 4	±360°		
Inertia Moment (Max.)	Joint 4	450 kg-cm ²		
Joint Speeds	Joint 1	386°/s		
	Joint 2	720°/s		
	Joint 3	1100 mm/s		
	Joint 4	1200°/s		
Cycle times (Payload 2.0 kg)	Burst *1	0.44 s		
	Sustained *1	0.54 s		
Power Requirements		24 VDC: 6 A 200 to 240 VAC: 10 A, single-phase		
Protection		IP20	IP20	IP65
Clean Class		---	Class 10	---
Environment	Ambient Temperature	5 to 40°C		
	Humidity Range	5 to 90% (non-condensing)		
Weight		43 kg		
Basic configuration	Controller	eAIB		
	On-board I/O (Input/Output)	12/8, 4 Solenoid Output		
	Conveyor tracking input	2		
	RS-232C serial communications	1		
	Programming environment	ACE, PackXpert, ePLC		
	ACE Sight	Yes		
	ePLC Connect	Yes		
Connectable controller *3		SmartController EX, NJ/NX/NY Series *4		

*1. Adept cycle, in mm 25/305/25 (seconds, at 20°C ambient)

*2. The SmartVision MX cannot be used with the Lite type.

*3. Choose a controller to suit your application.

*4. The robot version 2.3.C or later is required to connect with the NJ/NX/NY Series.

eCobra 800 Inverted Lite / Standard / Pro

Product name		eCobra Inverted		
	Size	800		
	Type	800 Lite		
	Cleanroom/IP	Standard	Cleanroom	IP65
Part Number		17010-18400	17010-18410	17010-18430
Number of axes		4		
Mounting		inverted		
Reach		800 mm		
Maximum Payload		5.5 kg		
Repeatability	XY	±0.017 mm		
	Z	±0.003 mm		
	Theta	±0.019°		
Joint Range	Joint 1	±123.5°		
	Joint 2	±156.5°		
	Joint 3	210 mm		
	Joint 4	±360°		
Inertia Moment (Max.)	Joint 4	450 kg-cm ²		
Joint Speeds	Joint 1	386°/s		
	Joint 2	720°/s		
	Joint 3	1100 mm/s		
	Joint 4	1200°/s		
Power Requirements		24 VDC: 6 A 200 to 240 VAC: 10 A		
Protection		IP20	IP20	IP65
Clean Class		---	Class 10	---
Environment	Ambient Temperature	5 to 40°C		
	Humidity Range	5 to 90% (non-condensing)		
Weight		51 kg		
Basic configuration	Controller	eAIB		
	On-board I/O (Input/Output)	12/8, 4 Solenoid Output		
	Conveyor tracking input	No		
	RS-232C serial communications	No		
	Programming environment	ACE		
	ACE Sight	No *1		
	ePLC Connect	No		
Connectable controller *2		No		
ePLC I/O		No		

Product name		eCobra Inverted		
	Size	800		
	Type	800 Standard		
	Cleanroom/IP	Standard	Cleanroom	IP65
Part Number		1711[]-18400	1711[]-18410	1711[]-18430
Number of axes		4		
Mounting		inverted		
Reach		800 mm		
Maximum Payload		5.5 kg		
Repeatability	XY	±0.017 mm		
	Z	±0.003 mm		
	Theta	±0.019°		
Joint Range	Joint 1	±123.5°		
	Joint 2	±156.5°		
	Joint 3	210 mm		
	Joint 4	±360°		
Inertia Moment (Max.)	Joint 4	450 kg-cm ²		
Joint Speeds	Joint 1	386°/s		
	Joint 2	720°/s		
	Joint 3	1100 mm/s		
	Joint 4	1200°/s		
Power Requirements		24 VDC: 6 A 200 to 240 VAC: 10 A		
Protection		IP20	IP20	IP65
Clean Class		---	Class 10	---
Environment	Ambient Temperature	5 to 40°C		
	Humidity Range	5 to 90% (non-condensing)		
Weight		51 kg		
Basic configuration	Controller	eAIB		
	On-board I/O (Input/Output)	12/8, 4 Solenoid Output		
	Conveyor tracking input	No		
	RS-232C serial communications	1		
	Programming environment	ACE, PackXpert, ePLC		
	ACE Sight	Yes		
	ePLC Connect	Yes		
ePLC I/O	Yes			
Connectable controller *2		SmartController EX, NJ/NX/NY Series *3		

Product name		eCobra Inverted		
	Size	800		
	Type	800 Pro		
	Cleanroom/IP	Standard	Cleanroom	IP65
Part Number		1721[]-18400	1721[]-18410	1721[]-18430
Number of axes		4		
Mounting		inverted		
Reach		800 mm		
Maximum Payload		5.5 kg		
Repeatability	XY	±0.017 mm		
	Z	±0.003 mm		
	Theta	±0.019°		
Joint Range	Joint 1	±123.5°		
	Joint 2	±156.5°		
	Joint 3	210 mm		
	Joint 4	±360°		
Inertia Moment (Max.)	Joint 4	450 kg-cm ²		
Joint Speeds	Joint 1	386°/s		
	Joint 2	720°/s		
	Joint 3	1100 mm/s		
	Joint 4	1200°/s		
Power Requirements		24 VDC: 6 A 200 to 240 VAC: 10 A		
Protection		IP20	IP20	IP65
Clean Class		---	Class 10	---
Environment	Ambient Temperature	5 to 40°C		
	Humidity Range	5 to 90% (non-condensing)		
Weight		51 kg		
Basic configuration	Controller	eAIB		
	On-board I/O (Input/Output)	12/8, 4 Solenoid Output		
	Conveyor tracking input	2		
	RS-232C serial communications	1		
	Programming environment	ACE, PackXpert, ePLC		
	ACE Sight	Yes		
	ePLC Connect	Yes		
Connectable controller *2		ePLC I/O Yes		
		SmartController EX, NJ/NX/NY Series *3		

*1. The SmartVision MX cannot be used with the Lite type.

*2. Choose a controller to suit your application.

*3. The robot version 2.3.C or later is required to connect with the NJ/NX/NY Series.