

# Motion kits

# iMK



## General

The motion kits consist of brushless servo motors incl. matching drive regulator. The motion kits are suitable for the use in the range of small to medium performance up to 2KW. The servo motors are electronically commutated 3-phase motors with incremental encoders and hall sensors. These are available in 4 manufactured sizes. (For more information see catalog pages about EC 60S/L and EC 80S/L)

The two drive regulators iMD20/40 are constructed for supply voltages of 40 -90VDC (iMD20) or 230VAC. As interface for higher-level controls. CANopen interfaces as well as an analog +/-10V interface can be used. (For more information see catalog pages about iMD20 and iMD40).

## Technical Data

	iMK 20S	iMK 20L	iMK 40S	iMK 40L
Motor type	EC 60 S	EC 60 L	EC 86 S	EC 86 L
Motor performance [W]	157	235	440	660
Nominal torque [Nm]	0.5	0.75	1.4	2.1
Peak moment [Nm]	Jan 75	Feb 25	5.0	7.5
Nominal speed [U/min]	3,000			
Encoder solution [Inkr]	1,000			
Supply voltage	40-95 V DC		230 V AC	
CAN-Bus interface	CANopen DS301, DS402 of the CiA (CAN in automation)			
Analog input (+/-10V)	11 Bit solution			
PWM switching frequency	8.2 KHz or 16.4 KHz			
Current / rotational speed / position cc	Scan times min 61 μs, 344μs, 488 μs			
Input for reference & end switch	✓			
Brake control	✓			
Gantry operation or synchronous oper	✓			
Motor current monitoring	✓			
Monitoring of the encoder signal	✓			
Watchdog	✓			
Electrical isolation	Processor. Power element, I/O`s			
Zero speed monitoring	✓			
Drive regulator dimensions	180 x 35 x 120 mm		180 x 50 x 150 mm	
Item no.	317000 0002	317000 0003	317000 0004	317000 0005

Technical specifications subject to change.