

## HKM: New dimension stainless steel motors

The new HKM stainless steel motors from Kollmorgen fulfill the EHEDG, 3A and NFS hygiene standards and are proving themselves with superior performance data

- ▶ Particularly suited to applications where there is the possibility of contact with food and beverage
- ▶ Extremely high operational safety even with intensive, frequent cleaning processes.
- ▶ Specially for drives in the food and beverage and packaging industries and in medical devices
- ▶ Ideal in rough environments with the highest demands in terms of corrosion safety



Kollmorgen HKM - The stainless steel motors for machines with the highest demands

### Increased productivity due to reduced cleaning times

- Ideal for machines with an open design
- No expensive protective devices, no difficult to reach corners which gather dirt
- Quick and simple yet safe cleaning

### Fulfills the EHEDG and 3A hygiene standards

- Lubricant and seals adhere to FDA standards
- Stainless steel round housing with a roughness of <math><0,8 \mu\text{m}</math> and the design where all edges have a radius of R1.5 prevents dirt deposits

### High operational safety

- Design in the IP69K degree of protection: Safe with high pressure cleaning with water pressures of up to 100 bar.
- No error prone plug connections due to firmly mounted cable
- Single cable technology with digital feedback (Digital Resolver SFD or HIPERFACE DSL)

### Innovative motor design with superior efficiency

- Torque derating under 20%
- High speed of up to 8,000 rpm offers more flexibility with gearhead fitting and increased productivity through higher output speed with the same torque
- HKM2 is the most compact stainless steel motor on the market

### 19 sizes for optimal design of the drive

- 5 sizes with 4 respective lengths and winding options for optimal adaptation to the servo amplifier
- Two housing designs for front or flange mounting

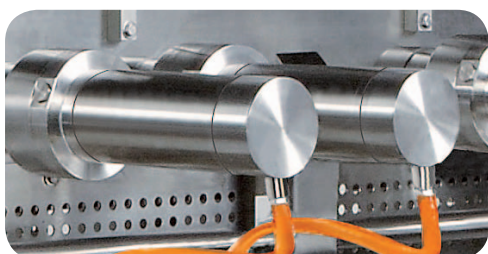
### Options

- Feedback option Digital Resolver SFD or HIPERFACE® DSL
- Brake option
- Ventilation valve option
- Cable length 1 m to 15 m

**HKM - the stainless steel axes from Kollmorgen.**

HKM stainless steel motors are delivered with AKD servoamplifiers suited to the application. The standard series AKD for central mounting in the control cabinet and the AKD-N series with the AKD-C power supply module, which is particularly efficient in machines with multiple spatially distributed axes, are available for the construction of a decentralized servo system.

In conjunction with a gearhead, for example from the AquaTrue series from Micron, Kollmorgen stainless steel motors facilitate drive solutions from one source, through the high rated speed of up to 8000 rpm, thereby fulfilling the highest hygiene and efficiency demands.

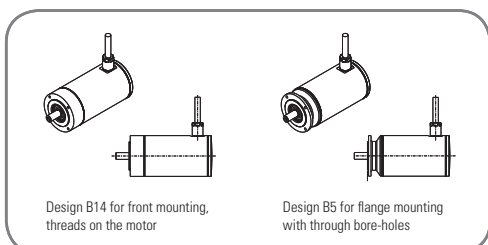


HKM stainless steel motors in combination with a gearhead in a machine with an open design. These system sections can be cleaned easily and quickly with high pressure cleaners.



Application without gearhead with screw connection on the front side.

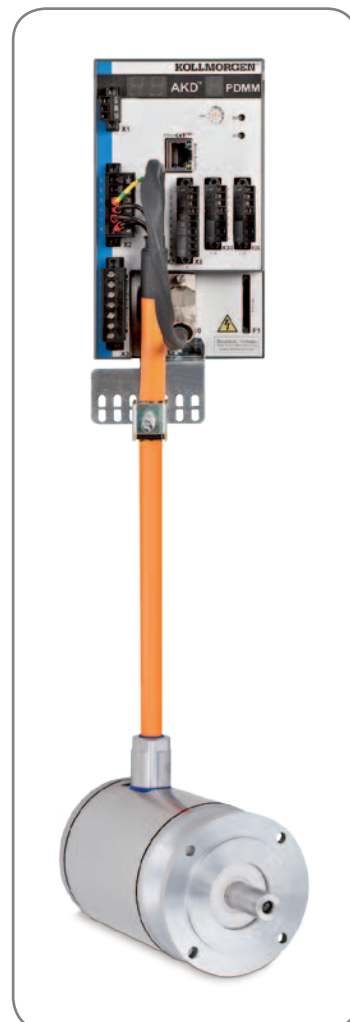
**Adaptable: The optimum motor for every drive**



Two housing types for optimal installation: In conjunction with a gearhead, the front mounting version forms a compact drive train. The flange version is best suited for backwards screw connection.



The HKM stainless steel motor, front mounting version



HKM in flange mounting version with AKD-PDMM, the 3-in-1 solution with MotionController, PLC, and servo amplifier in a housing for construction of flexible multi-axis systems.

**Performance data - overview**

There are 5 sizes with 4 respective rotor lengths (except for HKM3) and windings suited to the servo amplifier available.

	HKM stainless steel motors					Options			Servo amplifier		
	Nominal power [kW]	Continuous torque [Nm]	Peak torque [Nm]	Maximum speed [rpm]	Motor diameter [mm]	HIPERFACE DSL	Digital resolver SFD	Brake	AKD standard	AKD-N decentral	AKD PDMM
HKM2	0.18 ... 0.52	0.4 ... 1.4	1.6 ... 5.5	8,000	72.5	✓	✓	✓	✓	✓	✓
HKM3	0.35 ... 0.72	1.1 ... 2.5	4.0 ... 10.5	8,000	85	✓	✓	✓	✓	✓	✓
HKM4	0.6 ... 1.0	1.7 ... 5	6 ... 20	6,000	114	✓	✓	✓	✓	✓	✓
HKM5	0.77 ... 2.2	4 ... 12	13 ... 45	6,000	132	✓	✓	✓	✓	✓	✓
HKM6	2.1 ... 5.5	10.4 ... 21	35 ... 79	6,000	186	✓	✓	✓	✓	✓	✓