

Rexroth IndraDrive Mi The ultra-compact drive system

Compact, versatile and cost-effective



IndraDrive Mi – top performance in an ultra-compact package

Rexroth has reached another milestone in automation technology with the IndraDrive Mi, the ultracompact drive system.

IndraDrive Mi is the ideal solution for all applications where versatility and cost efficiency are key design criteria and space is at a premium.

Decentralized drive systems from Rexroth not only save space, but also maximize the efficiency of drive solutions. IndraDrive Mi makes it possible to use smaller control cabinets, thereby also reducing heat loss. Air conditioners are no longer or only minimally required which, in turn, further lowers overall energy consumption.

Up to 20 IndraDrive Mi can be flexibly connected in series in one drive chain – without any need for modifications in the control cabinet. If required, several drive chains can be operated in parallel with one supply unit.

Advantages

- significant reduction of cabinet size by up to 70 %
- drastic reduction of wiring work by up to 85 %
- easy to integrate with IndraDrive C and M drive devices
- compatible with the IndraDrive drive family
- significant increase of flexibility and modularity of machines and plants



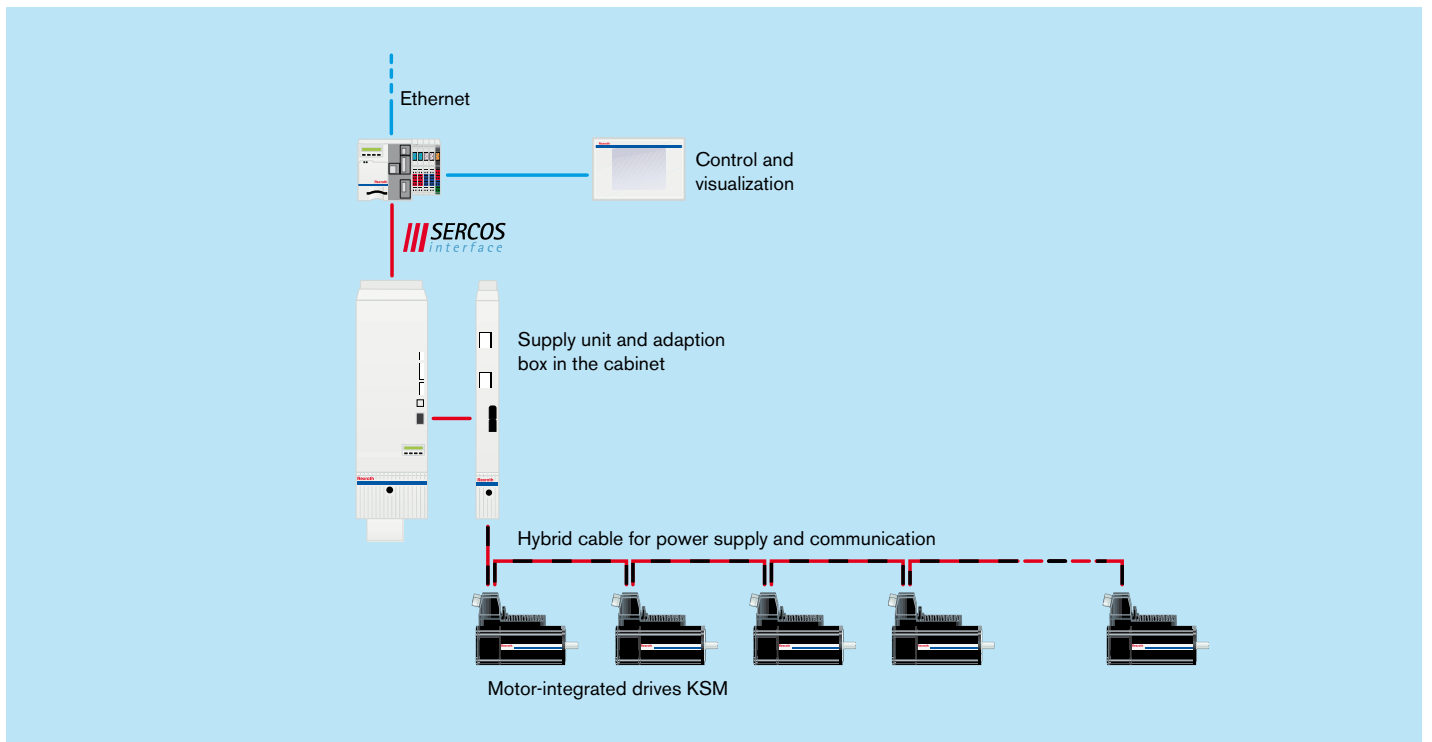
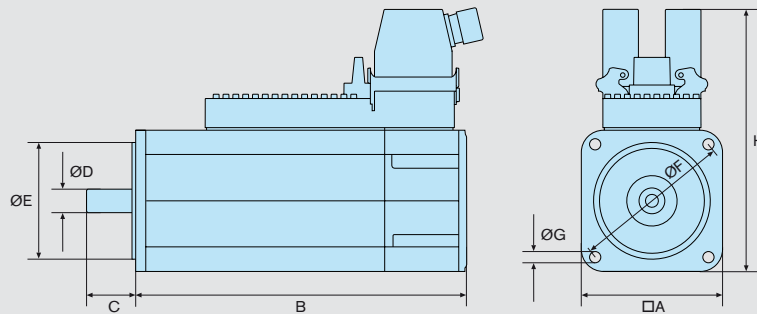
IndraDrive Mi, the space-saving and cost-efficient drive solution, increases the flexibility and modularity of machines and plants. The ultra compact drive system from Control City – the control technology capital.

Motor-integrated drive system KSM – Technical data

Servo drive		Maximum speed	Continuous torque at standstill	Maximum torque	Continuous current at standstill	Maximum current	Moment of inertia	Dimensions								Mass ¹⁾
		n_{Max} [rpm]	$M_{0.60K}$ [Nm]	M_{Max} [Nm]	I_0 [A]	I_{Max} [A]	J_R [kgm ²]	A [mm]	B [mm]	C [mm]	ØD [mm]	ØE [mm]	ØF [mm]	ØG [mm]	H [mm]	m [kg]
KSM01.2B-041	C-42	5,500	2.2	9.4	1.4	6.8	0.00017	82	252	30	14	50	95	6,6	201	5.5/6
KSM01.2B-061	C-35	4,300	6	25	3.3	14.9	0.00087	115	271	40	19	95	130	9	216	9.5/10.3
	C-61	6,000	5.5	18	5	17.7										
KSM01.2B-071	C-24	3,400	10.5	35	4.4	17.7	0.00173	140	307	58	32	130	165	11	248	14/15.1
	C-35	4,700	10	28	5.7	17.7										
KSM01.2B-076	C-35	4,700	8.7	29	5.7	17.7	0.0043	140	290	50	24	110	165	11	248	14.5/15.6

All data refer to the operation with 750 V DC bus voltage

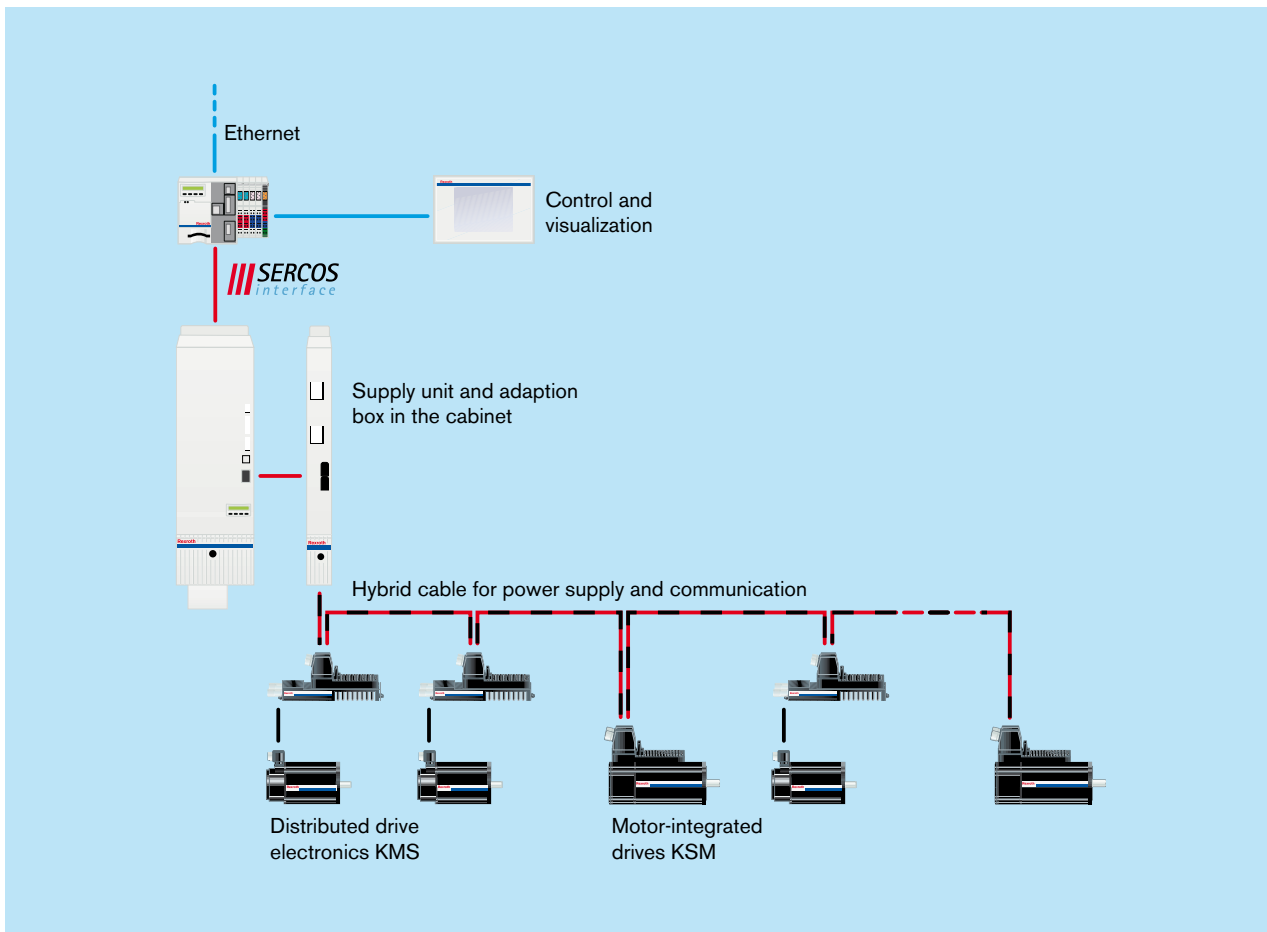
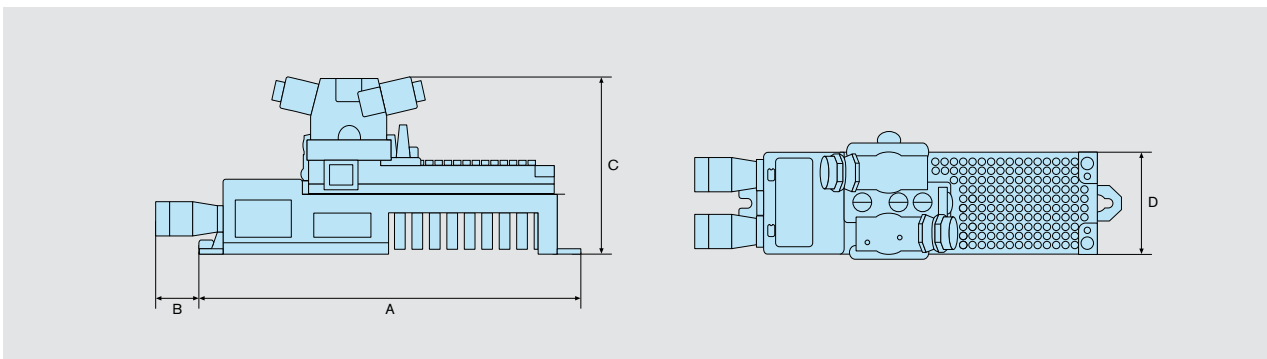
¹⁾ Values without/with holding brake



Distributed drive electronics KMS – Technical data

Servo drive	Continuous current	Maximum current	Dimensions				Mass
	I_0 [A]	I_{Max} [A]	A [mm]	B [mm]	C [mm]	D [mm]	m [kg]
KMS01.2B	6	18	316	24	147	85	2.4

All data refer to the operation with 750 V DC bus voltage



Motor-integrated drive KSM – Technical features

The servo motor casing acts as a heat sink for the compact control electronics of the KSM. This reduces overall size by more than 50 % compared to conventional servo solutions.

- 4 sizes with maximum torques of 9.4 to 35 Nm
- Hiperface® Single and Multiturn absolute encoder
- holding brake with integrated control (optional)
- integrated Motion-Logic acc. to IEC 61131-3
- UL certified



Distributed drive electronics KMS – Technical features

The distributed inverters KMS, in protection category IP65, provide seamless integration of IndraDyn servo motors and 3rd party motors into a chain of IndraDrive Mi drives.

- ideal for use where space is at a premium
- can be combined with KSM
- enables seamless integration of Rexroth MSK and MKE motors
- easy integration of motors from third-parties in open-loop operation or with Hiperface® encoders
- integrated Motion-Logic acc. to IEC 61131-3
- UL certified



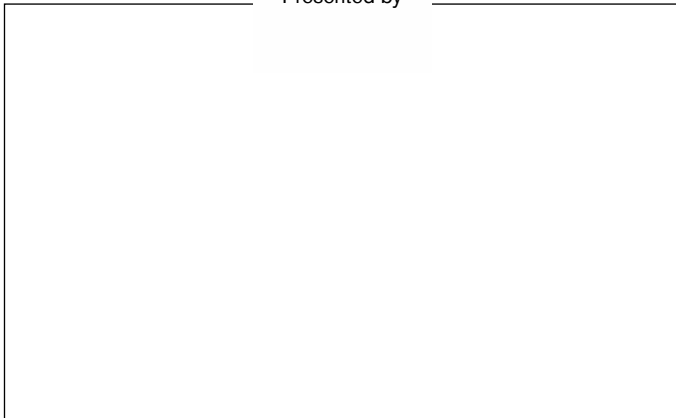
Hybrid cable – one for all

The significant reduction of installation work is one of the big advantages of the IndraDrive Mi – a single cable is sufficient for power supply and communication via SERCOS 2.



Bosch Rexroth AG
Electric Drives and Controls
P.O. Box 13 57
97803 Lohr, Germany
Bgm.-Dr.-Nebel-Str. 2
97816 Lohr, Germany
Phone +49 9352 40-0
Fax +49 9352 40-4885
www.boschrexroth.com

Presented by



The data specified above only serve to describe the product.
As our products are constantly being further developed, no statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

71 514 AE/2009-04-A3-HW
R911319447
© Bosch Rexroth AG 2009
Subject to revisions!
Printed in Germany