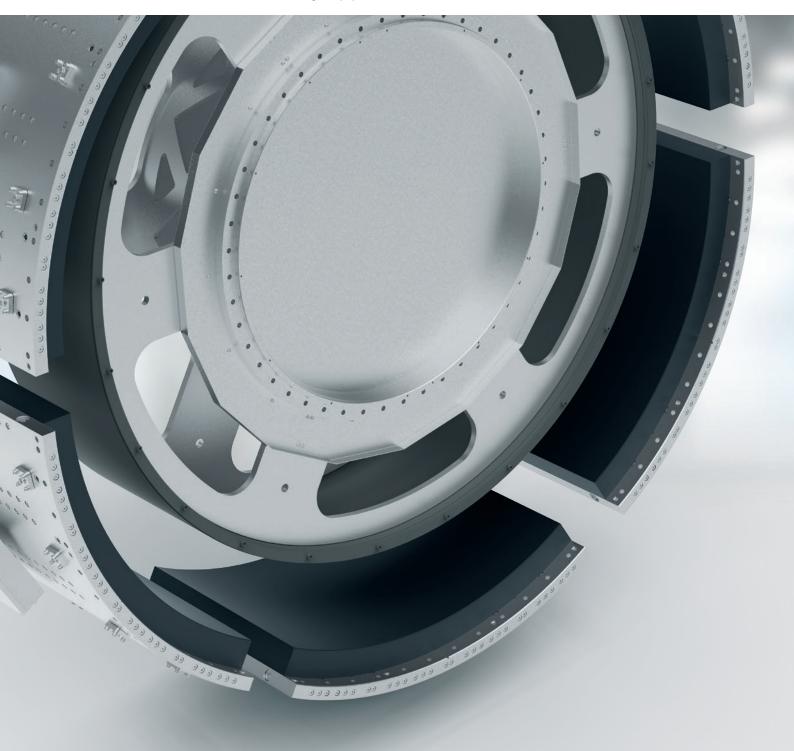
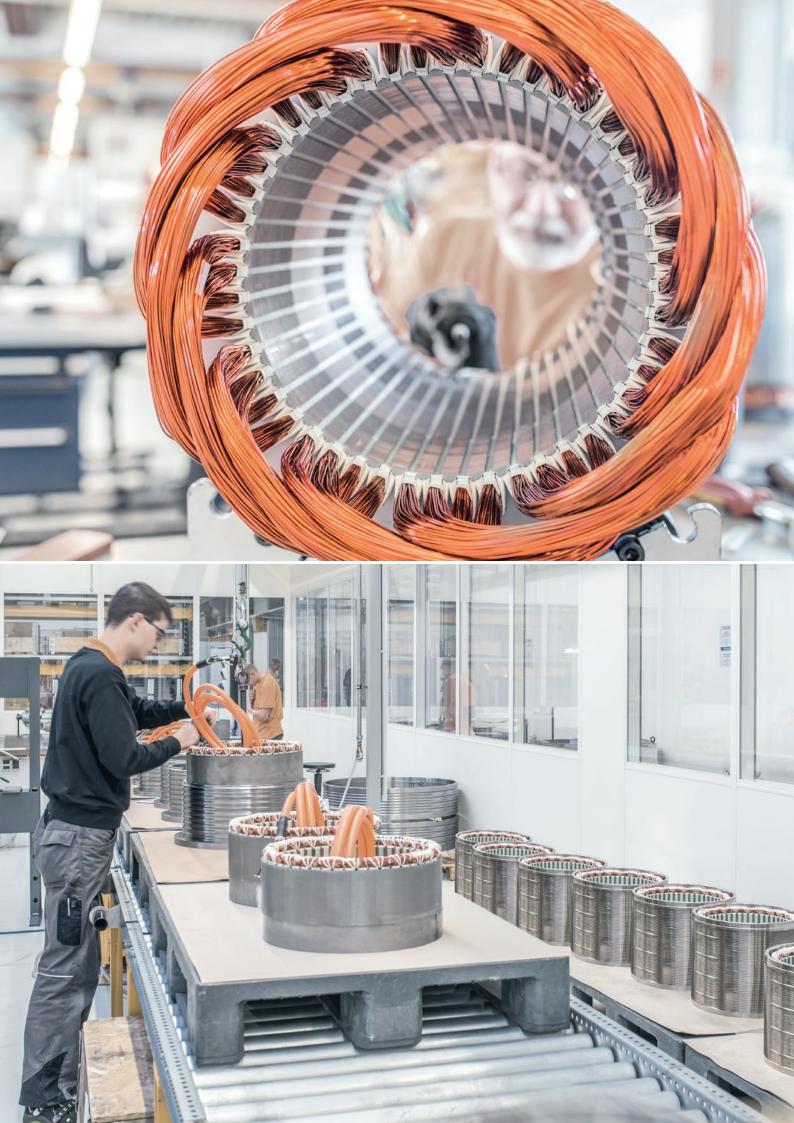


Drive technology Individual solutions for any application



SPINDLE TECHNOLOGY I SYSTEM TECHNOLOGY I DRIVE TECHNOLOGY 1 SERVICE SOLUTIONS

www.kessler-group.biz



Integrate any direct drive into any environment

The entire range of KESSLER drive technology – from planning to production – is created at our company headquarters in Bad Buchau. From the numerical calculation, through to the mechanical and electrical design, up to commissioning, testing and subsequent parameter optimisation – all steps are carried out in-house.

KESSLER products meet the highest efficiency requirements.

KESSLER also provides individual solutions for new application areas with its drive technology expertise.

End-to-end precision from the components to the on-site service

Founded in 1923 by Franz Kessler, the company has developed to become the leading supplier of motor spindles as well as directly driven 2-axis heads and rotary tilt tables for the machine tool industry. KESSLER is proud to list many major companies from the mechanical engineering sector amongst its long-standing customers.

With almost 100 years, KESSLER is continuously developing and optimising its products. The KESSLER product range serves a wide range of sectors, processes and applications. Close cooperation with our customers remains our key focus. The extensive product range, from hightech spindles, 2-axis heads, rotary and rotary tilt tables to motors and direct drive systems, enables KESSLER to implement customised solutions with speed and flexibility.

Service is a matter of trust. Rely on us as your trusted service partner: KESSLER has an established global network of technology and service centres.

Leistungsspektrum

Standard motors

- Asynchronous motors
- Synchronous motors
- Torque motors
- Linear motors

Special motors

- Asynchronous motors
- Synchronous motors
- Torque motors
- Linear motors

Direct drive systems

 Integrated motor systems with bearings and measurement system according to customer requirements

COOLMOTION

KESSLER COOLMOTION[®]

COOL**MOTION**[®] in drive technology

- Achieves a very high torque density with up to 30% more torque in a minimized design
- Facilitates a **compact design**
- Achieves a significantly **more robust** design in relation to resonance and reflection effects
- Facilitates applications even during continuous loads
- Provides maximum standstill torque

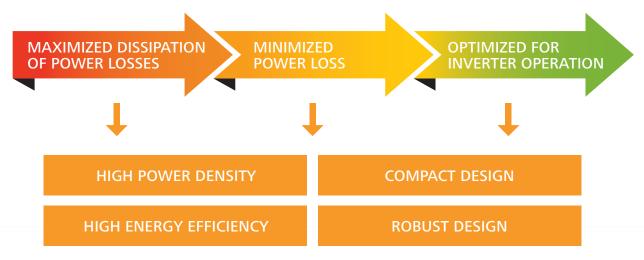


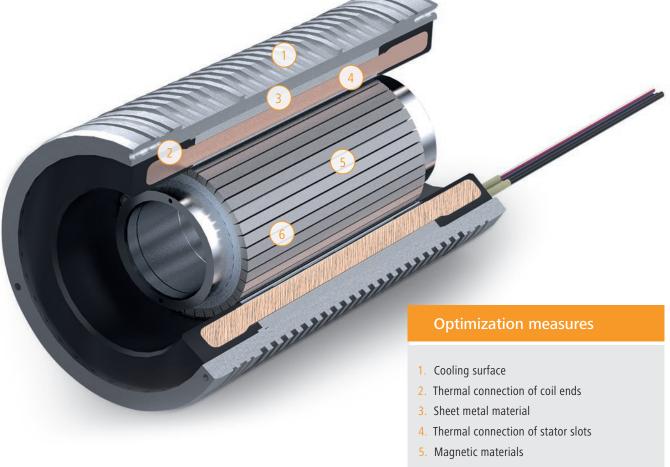
KESSLER is the innovation engine behind state-of-the-art direct drive technology and is renowned for powerful and energy-efficient motors with high torque density and top reliability even in high-demand applications. Real-life simulations and customised calculations are the basis of excellence during the development of KESSLER motors.

The inverter-optimized COOL**MOTION**[®] motors are recognized for their low-loss design and enhanced heat dissipation. Innovative modifications of the motor components have enabled us to reduce the rotor and stator losses by 25 %. Special construction measures have resulted in significantly enhanced heat dissipation.

The COOLMOTION® technology optimizes efficiency to a maximum.

Optimization principle



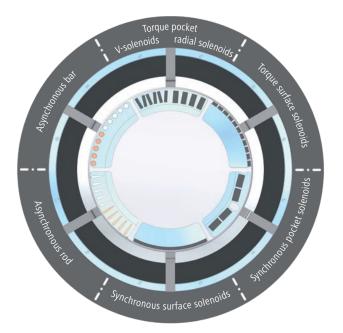


6. Design re. additional power loss

Direct drive technology by KESSLER

With almost **100 years of experience** in motor technology, KESSLER designs and manufactures energy-efficient drives for every range of performance, in accordance with individual customer requirements.

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Top energy and power density

61000

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	Torque [Nm]	Speed [rpm]
Torque pocket, V-solenoids	M[Nm]	n[rpm]
Torque radial pocket solenoids	M[Nm]	n[rpm]
Torque surface solenoids	M[Nm]	n[rpm]
Synchronous pocket solenoids		n[rpm]
Synchronous surface solenoids	M[Nm]	n[rpm]
Asynchronous copper rod	M[Nm]	n[rpm]
Asynchronous aluminium rod		n[rpm]
Asynchronous copper bar		n[rpm]
Asynchronous aluminium bar		n[rpm]

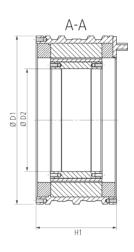
Motor configurator – for fast, efficient online configurations of the best matching product

For details of the KESSLER motors, contact us for a personal meeting or take a look at the online motor configurator. Depending on your requirements, you can also customize the design size, torque and speed of your own motor and submit a request for a nonbinding offer: **motorcatalog@kessler-group.biz**

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KESSLER										
	LIST	OF		ORC	LIF	M	OTO	RS		
	LIJI			JILC	201	1419	0101			
Manage Lineseffort	Cauling jurket	suge	Denser	Si sega	M terges	St speed	th speed	SPECIFY YOUR MOTOR		
Q Tanguemanor HTMs 230-30-334	0,000	30	230	.94	148	200	200	SPECIFY TOOR MOTOR		
Q Torquereation in TMe 200-30-134	with jacket	10	248	34	10	200	200	K Torque in \$1 and \$6 mode		
C Tampernator HTMx 230 50-344	apen. (10	210	417	214	200	248	S1 Tongue from 74 to 9045 Nm		
Q Torguement HTMx 230-50-544	with jacket	90	348	117	ZH	300	366			
C Torquemotor HTMx 230-75-134	open.	110	230	363	326	294	87	55 Tongue from 148 to 18089 Nm		
Q Tempermiller HTMx 200 70-25A	with justice	130	248	369	128	294	87			
Q Tanguemenoi HTMx 220-300-35A	aper -	340	290	310	-102		42	Speed in S1 and S6 mode		
Q Torquemeter HTMx 210 100 154	with jacket	346	248	230	400	- 84	-42	51 Speed from 26 to 200 RPM		
Q Tanguementor HTMx 230-100-85A	· apen c	140	330	705	- 100	200	386			
Q Tonguementor HTMs 200-30A	with jacket.	340	248	230	400	200	285	56 Speed from 13 to 200 RPM		
Q Tonjuenuitor HTMs 230-350-354	Appent	190	230	342		236	- 14			
Q Tanguemation HTMR 200-150-31A	with jacket	180	248	342	684	336	98	n Outer dimension		
Q Torquemeter HTMx 210 150-55A	open	180	230	342	684	200	200	Length from 70 to 270 mm		
Q Torquemention HTMs 220 150-55A	with jacket	110	248	342		300	300			
Q Torquementer HTMx 220-200-35A	0,001	240	230	454	929	382	38	Diameter from 230 to 722 mm		
Q Torquementer HTMx 200-200-81A	with jacket	240	248	454	-	382	85			
Q Tanguementar HTMs 220-300-56A	Cperi	240	210	454	-	300	138	🕪 Cooling jacket		
O		-	-	and 1	- 210	-				

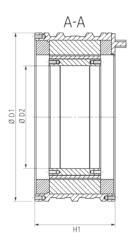
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Excerpt from HTMx series



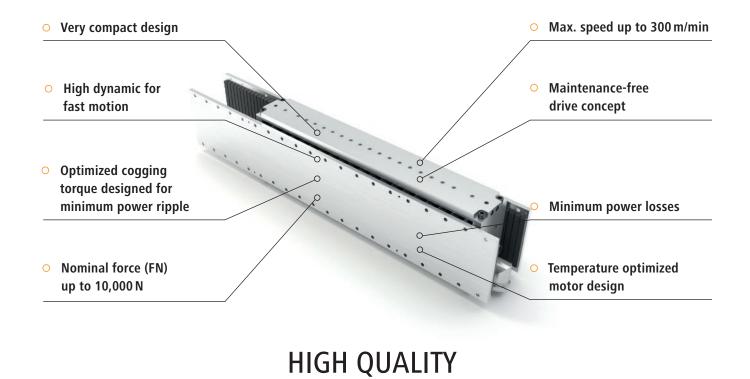
Model	Size	H1 (mm)	N max. (rpm)	MS1 (Nm)	MS6 max. (Nm)
HTMx 210	30	70	200	74	148
D1=230 mm	50	90	200	117	234
D2 = 140 mm	70	110	200	163	326
	100	140	200	230	460
	150	190	200	342	684
	200	240	200	454	909
HTMx 290	30	70	200	175	350
D1 210 mm	50	90	200	290	580
D1=310 mm D2=220 mm	70	110	200	400	800
	100	140	200	560	1,120
	150	190	200	840	1,680
	200	240	200	1,139	2,277
HTMx 360	30	90	100	360	720
	50	110	100	550	1,100
D1=385 mm D2=265 mm	70	130	100	740	1,480
	100	160	100	1,025	2,050
	150	210	100	1,512	3,024
	200	260	100	2,016	4,032
HTMx 420	30	90	100	580	1,160
D1 = 455 mm D2 = 325 mm	50	110	100	840	1,680
	70	130	100	1,100	2,200
	100	160	100	1,510	3,020
	150	210	100	2,210	4,420
	200	260	100	2,933	5,867
HTMx 450	30	90	100	680	1,360
D1 = 485 mm	50	110	100	990	1,980
D2 = 345 mm	70	130	100	1,300	2,600
	100	160	100	1,750	3,500
	150	210	100	2,480	4,960
	200	260	100	3,200	6,400
HTMx 530	30	90	100	870	1,740
	50	110	100	1,300	2,600
D1 = 565 mm D2 = 420 mm	70	130	100	1,740	3,480
	100	160	100	2,380	4,760
	150	210	100	3,450	6,900
	200	260	100	4,525	9,049
HTMx 680	30	100	50	1,790	3,580
D1 710	50	120	50	2,650	5,300
D1 = 710 mm D2 = 522 mm	70	140	50	3,530	7,060
	100	180	50	4,800	9,600
	150	220	50	6,920	13,840
	200	260	50	9,045	18,089

Excerpt from STMx series



Model	Size	H1 (mm)	N max, (rpm)	MS1 (Nm)	MS6 max, (Nm)
STMx 210	30	70	1,500	81	160
D1=230 mm	50	90	1,500	130	260
D2 = 92 mm	70	110	1,500	180	340
	100	140	1,500	250	460
	150	190	1,500	380	710
	200	240	1,500	500	920
STMx 290	30	70	1,400	200	385
D1 210	50	90	1,400	325	600
D1 = 310 mm D2 = 178 mm	70	110	1,400	440	835
	100	140	1,400	620	1,150
	150	190	1,400	900	1,650
	200	240	1,400	1,160	2,150
STMx 360	30	90	1,400	390	730
D1 _ 205 mm	50	110	1,400	595	1,050
D1 = 385 mm D2 = 216 mm	70	130	1,400	820	1,410
	100	160	1,400	1,140	1,920
	150	210	1,400	1,660	2,800
	200	260	1,400	2,150	3,600
STMx 420	30	90	1,000	650	1,140
D1 = 455 mm	50	110	1,000	920	1,600
D2 = 273 mm	70	130	1,000	1,215	2,140
	100	160	1,000	1,580	2,760
	150	210	1,000	2,440	4,100
	200	260	1,000	3,130	5,300
STMx 450	30	90	1,000	750	1,410
D1 = 485 mm	50	110	1,000	1,100	1,990
D2 = 273 mm	70	130	1,000	1,400	2,600
	100	160	975	1,880	3,490
	150	210	980	2,800	5,120
	200	260	800	3,600	6,565
STMx 530	30	90	1,000	960	1,800
D1 = 565 mm	50	110	1,000	1,400	2,650
D1 = 365 mm D2 = 365 mm	70	130	1,000	1,950	3,560
	100	160	1,000	2,600	4,775
	150	210	1,000	3,800	6,800
	200	260	750	4,900	8,750
STMx 680	30	100	800	1,900	2,830
D1 = 710 mm	50	120	800	2,910	4,190
D1 = 710 mm D2 = 465 mm	70	140	800	3,800	5,400
	100	180	800	5,120	7,230
	150	220	800	7,600	10,680
	200	260	700	9,900	13,800

SLM linear motors All advantages at a glance



MADE IN GERMANY

SLM series

Model	Nominal force Fn (N)	Height (mm)	Width (mm)	Length (mm)
100×160	610	34	116	178
150×160	910	34	166	178
100×320	1,220	34	116	338
150×320	1,820	34	166	338
100×480	1,830	34	116	498
150×480	2,730	34	166	498

Other sizes available on request

Examples of applications



Torque motor for direct ship propulsion Motor data:

- Torque S1: 6,090 Nm
- Maximum torque: 13,800 Nm
- Speed S1: 420 rpm
- Maximum speed: 494 rpm

Synchronous motor for sport motor boat Motor data:

- Torque S1: 200 Nm
- Maximum torque: 300 Nm
- Speed S1: 4,800 rpm
- Maximum speed: 4,800 rpm



Torque motor for biomass steam boiler Motor data:

- Torque S1: 11,000 Nm
- Maximum torque: 15,500 Nm
- Speed S1: 40 rpm
- Maximum speed: 60 rpm

Direct drive for eccentric press Motor data:

- Torque S1: 10,700 Nm
- Maximum torque: 23,100 Nm
- Speed S1: 155 rpm
- Maximum speed: 200 rpm

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Operating Worldwide for our Customers



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