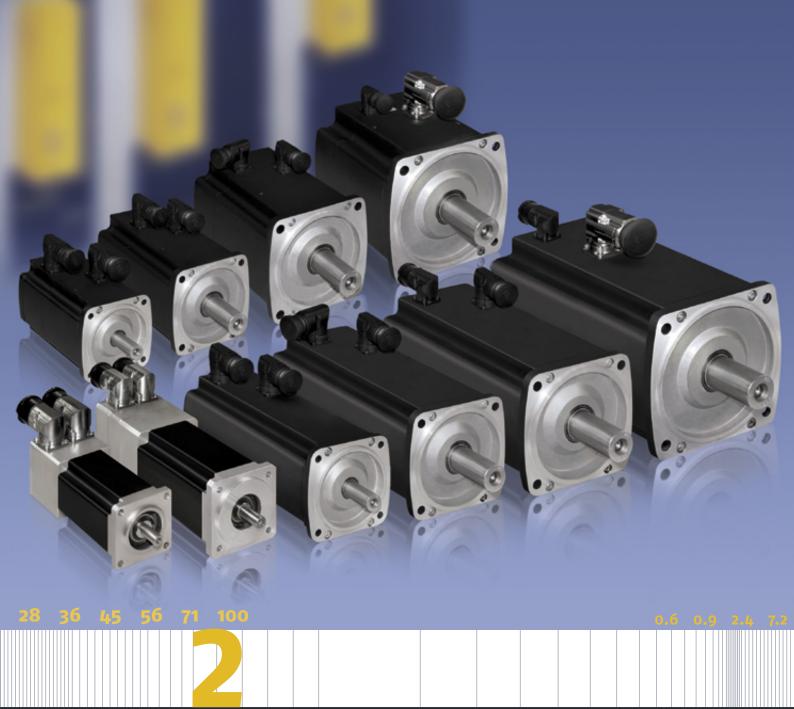


be in motion be in motion 12.0 12.5 13.0 13.5 14.0 14.5 15.0 15.5 16.0 16.5 17.0 Serve Management of the serve of the ser



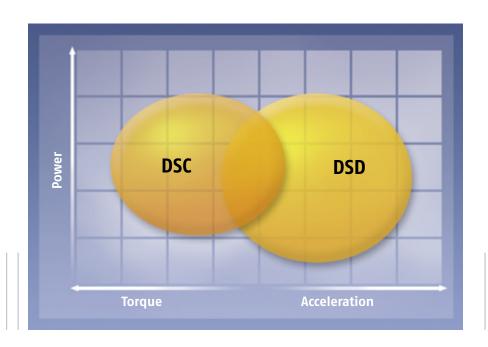
5500 5600 5700 5800 5900

Baumüller's DSD and DSC series offer the right solution for just about any servo application in automation.

Baumüller – Your competent partner for drive solutions

Anyone who wants to be a leader in automation technology must be a trendsetter in the marketplace. Successful development requires years of experience.

Our main focus is always on the functional system as a whole and ways to optimize it with our products and services. We plan, develop, and manufacture optimized automation and drive solutions for a wide range of applications. We also supply complete drive systems, from the control cabinet to the controller and converter to motors. Our corporate philosophy is shaped by our technical competence, innovative strength, flexibility, and a complete dedication to our customers. This is reflected in our motto: be in motion.



Your partner for success

New requirements for the production process, lack of available space in the machine, and the desire for finer torque gradations and hence an even greater integration of the motor range — Baumüller answers these ever–increasing customer requirements with the DSD and DSC motor series.

With the compact DSC motors from Baumüller, the focus is on improving ratings to achieve a higher torque density while also drastically reducing the volume of the motors. These motors cover a typical speed range for servo motors of up to 4,000 rpm. The new DSCs are up to 30% more compact than conventional servo motors.

The dynamic DSD motors are ideally suited for use in highly dynamic applications with extremely demanding acceleration requirements and optimum start/stop characteristics, such as those involving packaging machines, textile machines, plastics-processing machines, handling machines, and special-purpose machines. A speed up to 6,000 r.p.m. can be realized in this process.

DSC motors for textile machines

From the bale to the final web — the carding process is also known as the core of every spinning mill. The task of the carding machine is to create an initial cohesive web from unworked staple by separating the individual fibers and making them parallel. At the same time, knots and impurities are removed. To ensure the highest possible product quality for downstream processes such as the drawing frame, it is essential to form a perfectly oriented bundle of fibers and make a whisper-thin, continuous sliver at the carding machine outlet into a web. With their minimal torque oscillation and high precision, Baumüller DSC motors are the critical factor for achieving this result.





Greater energy efficiency and profitability

- Greater efficiency in the typical speed setting range for these applications
- Reduced lifecycle costs

Your benefits:

Greater profitability due to improved economical and ecological utilization of the complete machine Optimized installation conditions due to more compact dimensions made possible by greater power density.

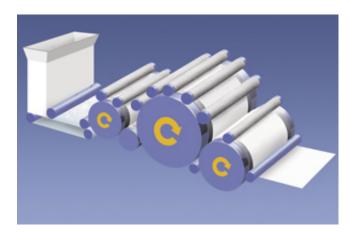
Improved process quality

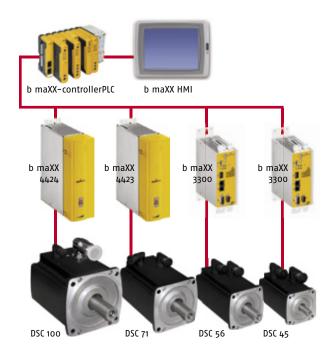
- Greater power density due to optimized response to temperature changes for these applications¹⁾
- Reduced torque oscillation due to optimal magnetic circuit concept

Your benefits:

Greater precision increases product quality, thus reducing waste. This allows you to significantly increase your competitive edge.

 Applies when the maximum permissible ambient temperature and machine productivity are specified, i.e., under special ambient conditions, it can operate without loss of performance.





DSD motors for packaging machines

In the packaging industry, product formats change at a moment's notice. What's more, short changeover intervals and start/stop operation—during filling and sealing as well as punching and cutting—set the requirements bar extremely high for the machines and their drives. Maximum dynamic response and power density are the hallmarks of the Baumüller DSD motor series. The DSD series provides optimum acceleration characteristics. The improved power density and increased overload capability make the DSD series the ideal motor for packaging machines.

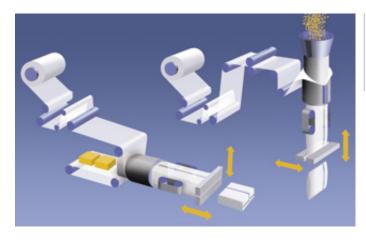


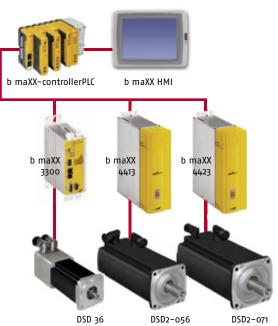
Greater profitability

- Better dynamic response due to an excellent torque/inertia ratio and top-of-the-line overload capability
- Greater productivity

Your benefit:

You gain a competitive edge by increasing your productivity and improving your profitability.





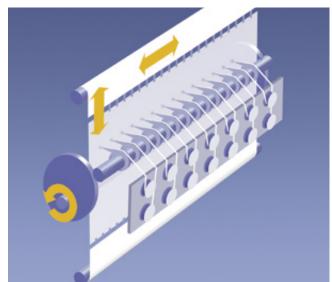
DSD motors for textile machines – embroidery machine example

Fabrics that dreams are made of—manufactured using Baumüller technology. Our technology accomplishes a wide variety of tasks in the textile industry, whether in modular systems or central machine concepts such as embroidery machines: To embroider fabric, a great number of extremely fast, highly dynamic motions must be performed. Ultimate precision and cleanliness are essential prerequisites for the application. From extrusion and drawing in fiber manufacturing to processing — Baumüller is the automation partner for the textile machine industry.



Improved product quality

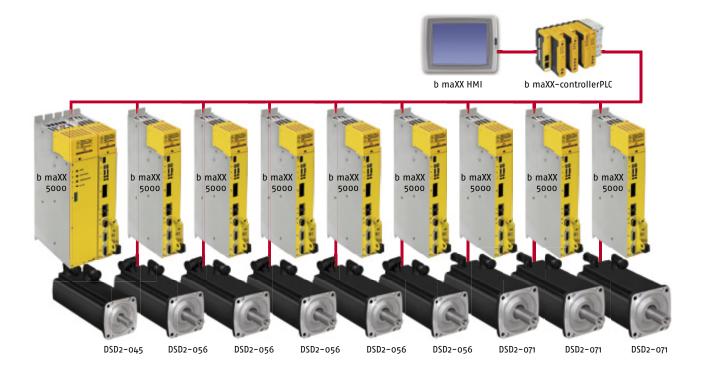
- Improved process quality due to excellent smooth running characteristics
- Lower susceptibility to soiling due to smooth housing surfaces



Your benefit:

By increasing product quality, you significantly increase your competitive edge.

The smooth housing surface improves cleanliness in the machine and the plant.



DSC motors for robotics

For many years, robotics has been an integral part of automation technology. Especially in sectors that require repetitive, dangerous, hard work, industrial robots have become indispensable. In order to meet critical characteristics such as axis acceleration capability, path accuracy, repeat accuracy, and packaging space, manufacturers need drive solutions that are optimized in terms of engineering and economics. With their minimal torque oscillation and high precision, Baumüller's extremely compact, torque-optimized DSC motors are ideal for this application.

Greater energy efficiency and profitability

- Greater efficiency in the typical speed setting range for these applications
- Less heat loss enables more compact dimensions, resulting in optimized installation conditions



Greater profitability due to improved economical and ecological utilization of the complete machine

Improved process quality

- Reduced torque oscillation due to optimal magnetic circuit concept
- High control accuracy due to higher motor moment of inertia

Your advantage:

Greater precision increases product quality, thus reducing waste. This allows you to significantly increase your competitive edge.





DSD 28-100 — Dynamic motors

- Maximum dynamic response due to excellent torque/inertial mass ratio
- Excellent smooth running characteristics
- High overload capability
- O Sleek, uniform housing design
- Almost no cogging effect
- Permanent magnet synchronous servo motors
- Main connection via terminal box or connector
- IP65 degree of protection, regardless of cooling method
- Encoders: resolver, SinCos encoder (optional)
- All types optionally with brake











The DSD series is available in an uncooled, air-cooled and a water-cooled version.



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DSD 28-100 - Technical data

		DSD 28	DSD 36	DSD2-045	DSD2-056	DSD2-071	DSD2-100	
P_N	[kW]	0.3-0.6	0.4-0.9	0.73-2.4	1.3-7.2	3-19	2.8-37	
nn	[min ⁻¹]	4500-6000	4000-6000	3000-6000	2000-6000	2000-6000	1200-6000	
J	[kgcm ²]	0.13-0.2	0.18-0.42	1.0-1.9	3.6-6.6	11.7-18.9	52-105	
Mo	[Nm]	0.7-1.2	1.2-2.8	2.7-5.8	7-20	17-73	42-210	
M_{0max}	[Nm]	2.0-3.9	2.8-8.4	12-28	25-57	53-105	105-280	

	DSD 28	DSD 36	DSD2-045	DSD2-056	DSD2-071	DSD2-100	
P _N [h	p] 0.4-0.8	0.5-1.2	1.0-3.2	1.7-9.7	4.0-25.5	3.8-49.6	
n _N [n	nin ⁻¹] 4500-6000	4000-6000	3000-6000	2000-6000	2000-6000	1200-6000	
J [It	o in ²] 0.04-0.07	0.06-0.14	0.34-0.65	1.2-2.2	4.0-6.5	17.8-35.9	
Mo [It	of ft] 0.5-0.9	0.9-2.1	2.0-4.3	5.2-14.8	12.5-53.8	30.9-154.9	
M _{0max} [It	of ft] 1.5-2.9	2.1-6.2	8.9-20.7	18.4-42.0	39.1-77.4	77.4-206.5	

Subject to change. The values specified are maximum values. For details, please refer to the relevant technical documentation.

Your benefits at a glance

Property	Product advantage	Customer benefit
Dynamic response	 Maximum dynamic response due to excellent torque/inertial mass ratio Maximum overload capability Speed range up to 6,000 rpm 	 Greater productivity Greater profitability Competitive edge
Commissioning/ Installation	Smooth housing surface – not easily soiledSleek, uniform housing design	Easier installationShorter commissioning
Robustness	 IP65 degree of protection, regardless of cooling method Smooth housing surface – not easily soiled 	 Application in harsh industrial environments Integration into optimal machine design Fewer servicing and logistics requirements for machine users
Cooling method	Different cooling methods can be selected: Non-ventilated Surface-cooled with fan Water-cooled	 Optimal accommodation for each specific cooling concept Smaller machine footprint due to surface ventilation or water cooling Lower cost
Accuracy	 Individual encoder configuration based on customer-specific application requirements Resolver standard, SinCos encoder optional Almost no cogging effect Excellent smooth running characteristics 	Higher product qualityLess wasteGreater profitability
Connection method	 Main connection via terminal box or rotary connector Signal generator connection via rotary connector 	 Integration into optimal machine design Greater profitability Greater flexibility Fewer R&D and installation requirements



DSC 45-100 - Compact motors

- O Compact design with high power density
- O IP65 degree of protection, regardless of cooling method
- Main connection and encoder connection via rotatable connectors
- Excellent smooth running characteristics
- Smooth housing surface not easily soiled
- Permanent magnet synchronous servo motors
- High overload capability
- Almost no cogging effect
- Encoders: resolver, SinCos (optional)



43 23 54







The DSC series is available in an uncooled, air-cooled and a water-cooled version.



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DSC 45-100 - Technical data

		DSC 45	DSC 56	DSC 71	DSC 100
P_N	[kW]	0.5-1.3	0.6-5.3	1.2-12	2.3-18
пм	[min ⁻¹]	2000-4000	1000-4000	1000-4000	1000-3000
J	[kgcm ²]	1.4-3.2	4.4-10.6	12.6-31.1	45.8-101.2
M ₀	[Nm]	2.7-6.2	6.2-21	12-58	23.5-105
M_{0max}	[Nm]	8.5-25.5	16-48	28-84	42-126

		DSC 45	DSC 56	DSC 71	DSC 100
P_N	[hp]	0.7-1.7	0.8-7.1	1.6-16.1	3.1-24.1
пм	[min ⁻¹]	2000-4000	1000-4000	1000-4000	1000-3000
J	[lb in ²]	0.48-1.1	1.5-3.6	4.3-10.6	15.6-34.6
Mo	[lbf ft]	2.0-4.6	4.6-15.5	8.9-42.8	17.3-77.4
M_{0max}	[lbf ft]	8.3-18.8	11.8-35.4	20.7-62.0	31.0-92.9

Subject to change. The values specified are maximum values. For details, please refer to the technical documentation.

Your benefits at a glance

Property	Product advantage	Customer benefit
Power density <i>l</i> Space requirement	Compact design with high power density and torque densitySleek, uniform housing design	 Smaller machine footprint Greater productivity Cost benefit for machine users Competitive edge
Robustness	 IP65 degree of protection, regardless of cooling method Smooth housing surface – not easily soiled 	 Application in harsh industrial environments Integration into optimal machine design Fewer servicing and logistics requirements for machine users
Cooling method	Different cooling methods can be selected: Non-ventilated Surface-cooled with fan Water-cooled	 Optimal accommodation for each specific cooling concept Smaller machine footprint due to surface ventilation or water cooling Lower cost
Dynamic response	 High overload capability Good dynamic characteristics Speed range up to 4,000 rpm 	 Greater profitability Greater productivity Competitive edge
Accuracy	 Individual encoder configuration (standard: resolver; optional: SinCos encoder) Almost no cogging effect Excellent smooth running characteristics 	Higher product qualityLess wasteGreater profitability
Connection method	Main connection and encoder connection via rotatable connectors	 Integration into optimal machine design Greater profitability Greater flexibility Fewer R&D and installation requirements



b maXX 4000 has up to eleven slots for plug-in modules and can therefore be individually adapted for special automation tasks. The plug-in b maXX-drivePLC module provides integrated intelligent control.

b maXX — unachieved dynamics and compactness

News from the pioneer of direct drive technology: We present to you the new alignable drive system b maXX 5000 as supplement of our successful b maXX 4000 range. The new range offers a performance spectrum of 1 kW to 35 kW in a rack system. With power supplied and regenerative systems, b maXX 5000 can be use worldwide as an energy efficient drive system. With its Connect Drive System, which enables you to commission our drives efficiently and economically, it displays the perfect expansion of our existing product range. Be successful easily with motion at its best.





b maXX – modular, scalable, open

Baumüller's approved automation and drive solution b maXX can be adapted to the corresponding demands with respect to performance and equipment through its modularity and flexibility. b maXX 4400 offers a power spectrum from 1,1 kW up to 315 kW with different cooling concepts, such as air and water cooling or cold plate variants. With the series b maXX 4100 a regenerative system is at your disposal, which inserts itself smoothly into the automation solution b maXX. Functional safety relay integrated into the drive available as an option. The peak load and rated load devices supplement the proven bmaXX series and are available in five frame sizes. Whether you need maximum output for continuous operation or only for short durations, the b maXX series offers a customized drive solution for every application.



b ma**XX** – versatile mini servo controller

The servo inverter b maXX 3300 is a high-quality servo controller with integrated position control for power ratings up to 5 kW. b maXX 3300 excels through its compact, space-saving design. The field-oriented control provides for excellent performance. Higher-level speed and position control ensure dynamic and exact positioning. The servo controller is specifically designed for operation with the DSD 28–100 servomotors and the pancake and linear motor series from Baumüller. Functional safety relay integrated into the drive available as an option.



b ma**XX** – compact mini servo controller

b maXX 2000 rounds off the converter and controller generation b maXX at the lower end of the power range. The mini servo controller can be built into the control cabinet (b maXX 2400) or integrated into motors in the series DSD 28–36 (b maXX 2300). The integration of the controller and power electronics significantly reduces the amount of cabling that is required. Availability is significantly increased and maintenance is substantially reduced.



b maXX - highly efficient frequency converter

For a vector control of standard electric motors Baumüller added an high-efficient and easily to operated frequency converter into the program: The b maXX 1000 is available in three sizes with capacity ranges from 0.2 to 11 kW. An integrated EMV filter and various protection and overload monitoring functions ensure a troublefree operation. An extensive control and data management system ensures a continuously and exact overview of the current drive status.



Servo motor versions

		DSD-Baureihe				DSC-Baureihe					
		28	36	45	56	71	100	45	56	71	100
Motor length:	КО	-	-	-	-	-	-	✓	✓	✓	✓
	SO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	M0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	LO	-	✓	✓	✓	✓	✓	_	-	_	_
	ВО	 	_	_	_	_	✓	_	_	_	-
Degree of Protection:	IP44	✓	✓	_	_	_	-	_	_	_	_
begree or riotection.	IP64	-	_	✓	✓	✓	✓	✓	✓	✓	✓
	IP65	/	✓	·	·	·	· ✓	· /	·	·	·
	IPOD		•	v	•	v	•	V	•	v	V
Cooling mothods	IC410	√	✓	√	✓	✓	✓	✓	✓	✓	✓
Cooling method:					∨	∨	∨		∨	∨	∨
	IC416	-	-	-				_			
	IC3W7	-	-	-	-	✓	✓	_	-	✓	✓
Rated speeds:	1000	-	-	-	-	-	-	_	\checkmark	✓	✓
	1200	-	-	-	-	-	✓	_	-	-	-
	2000	-	-	✓	✓	✓	✓	✓	✓	✓	✓
	2500	-	-	-	-	-	✓	-	-	-	-
	3000	-	-	✓	✓	✓	✓	✓	✓	✓	✓
	4000	-	✓	-	-	-	-	✓	✓	✓	-
	4500	✓	✓	✓	✓	✓	✓	_	-	-	-
	6000	✓	✓	✓	✓	✓	✓	_	_	_	-
Line voltage:	1 AC 230V	✓	✓	_	_	_	_	_	_	_	-
Line voitage:	3 AC 400V	✓	✓	√	✓	✓	✓	✓	✓	✓	✓
	5 AC 400V		•	•	•	•	·	•	•	•	·
Encoder options:	Resolver	√	✓	√	✓	✓	✓	✓	√	✓	✓
circoder options.	SEK/SEL37	√	√	_		•	•		•		•
					-	_	- ✓	_	_	-	-
	SEK/SEL52	-	-	✓	✓	✓		✓	✓	✓	✓
	SKS/SKM36	✓	✓	-	-	_	-	_	_	-	-
	SRS/SRM50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ECN1313/EQN1325	-	-	✓	✓	✓	✓	✓	✓	✓	✓
	ECN1325/EQN1337	-	-	✓	✓	✓	✓	✓	✓	✓	✓
Shaft options:	Smooth shaft end	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	With key	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	•										
Break:	With Brake	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Without Brake	✓	✓	✓	✓	✓	✓	√	✓	✓	✓
	Without Blake										
Main connection (with/	Connector	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
without KTY-configuration):	Terminal box	-	_	_	_	·	· ✓	_	_	· ✓	✓
without Kit-configuration,	Y-Tec (Connector)	✓	√	_	_	_		_	_	-	
	r-iec (connector)		•	_	-	_	-	_	_	_	-
Danisa Danis	Dell beering			,		✓			,	,	,
Bearing D-end:	Ball bearing	✓	✓	✓	√		✓	✓	√	√	√
	Roller bearing	-	-	-	✓	✓	✓	_	✓	✓	✓
D. I							,			,	,
Balance quality:	Α	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	B (with Ball bearing)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
True running:	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mounted gearbox:	BPE - Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	BPN - Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Please also take account of the instructions given in the technical documentation when configuring for production, since the above overview does not represent a complete regulating unit, and combination possibilities may be excluded.

Configuration information

Fax: +49(0)911 5432-466

Title: Mr. Ms.	Dr. Prof.		City,	postal			
ompany				code			
Depart			Tele	phone			
ment				Fax			
Country			E	-mail			
Configure your	customi	zed serv	vo moto	or			
Motor series:	DSD	DSC					
Motor size:	28	<u> </u>	<u>45</u>	<u> </u>	71	100	
Motor length:	□ КО	S0		LO	■ B0		
Degree of protection:	☐ IP 44	☐ IP 64	☐ IP 65				
Cooling method:	IC410 - I	uncooled	IC416 - a	air-cooled	☐ IC 3W7 -	water-cooled	
Rated speed:	1000 U/i	min	1200 U/r	nin	2000 U/r	nin	2500 U/min
	3000 U/	min	4000 U/	min	4500 U/r	nin	☐ 6000 U/min
Line voltage:	1 AC 230	V	3 AC 400	V			
Encoder options:	Resolver	SEK37	SEL37	SEK52	SEL52	SKS36	SKM36
	SRS50	SRM50	ECN1313	EQN1325	ECN1325	EQN1337	Without encoder
Shaft option:	Smooth	With key	1				
Brake:	With bra	ike	Without	brake			
Main connection:	Connect	or	Termina	l box	Y-Tec (Co	nnector)	
Outlet* main connection:	Rotatab	le	Left	Right	D end		☐ N end
Abgang* Geberanschluss:	Rotatab	le	Left	Right	D end		☐ N end
Bearings D end:	Ball bea	rings	Roller b	earings			
Balance quality:	Class A		Class B				
Smooth running quality:	Class N		Class R				
Mounted gearbox:	Without		With BP	E	With BP	EF	With BPEA
	With BP	N	☐ With BP	NF	With BP	NA	
* With viewing direction D-Side to	shaft end						
Notes:						Baumüller I Ostendstraße DE-90482 Nür Telefon: +49(0 Telefax: +49(0	nberg 0)911 5432-0

For detailed technical information and configuration options, please refer to the current product documentation.

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