BAUMÜLLER

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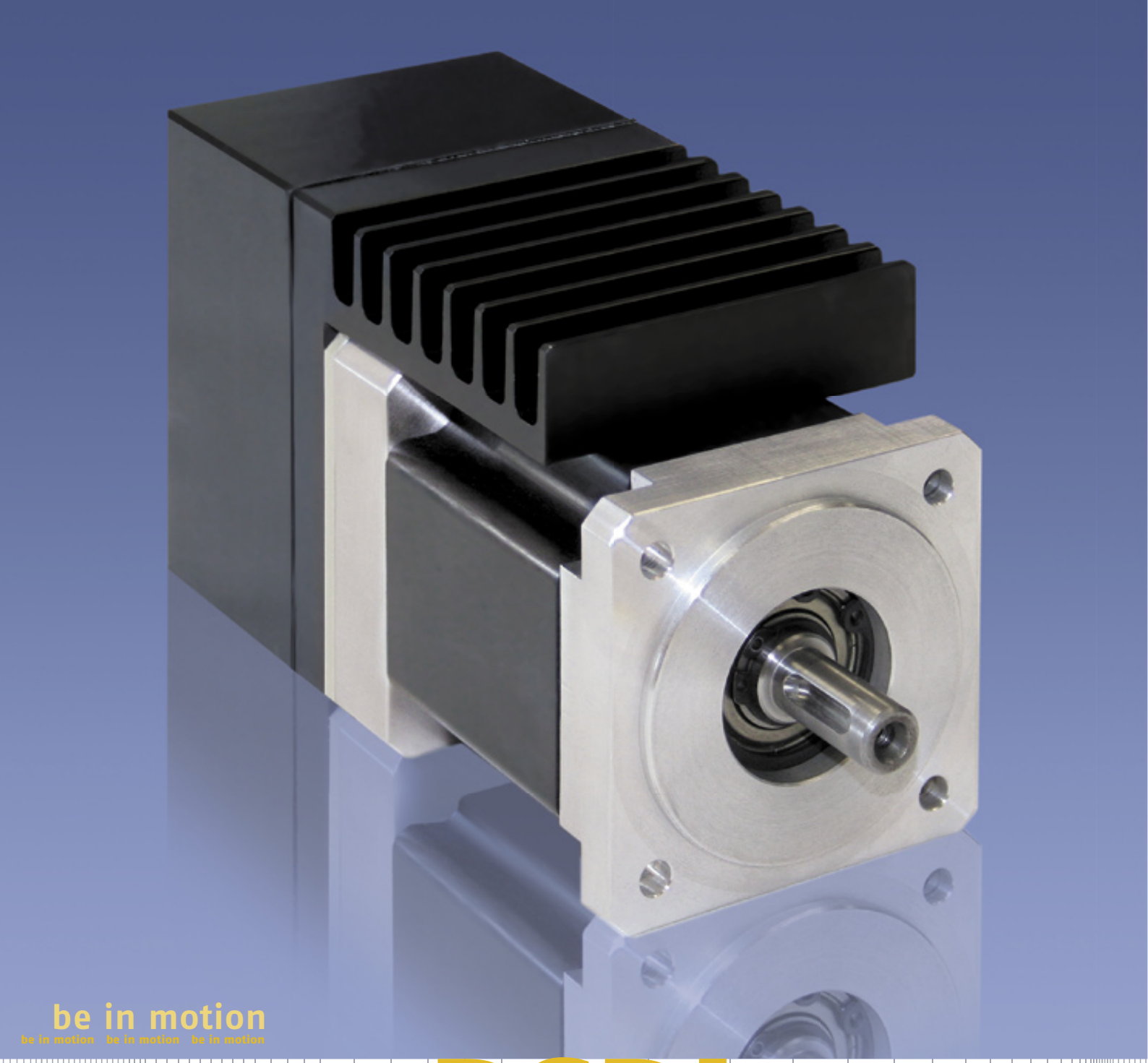
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

DSDI DSMI

825 850 875 900 925 950 975 1000

Servo motors with integrated
regulation and power electronics



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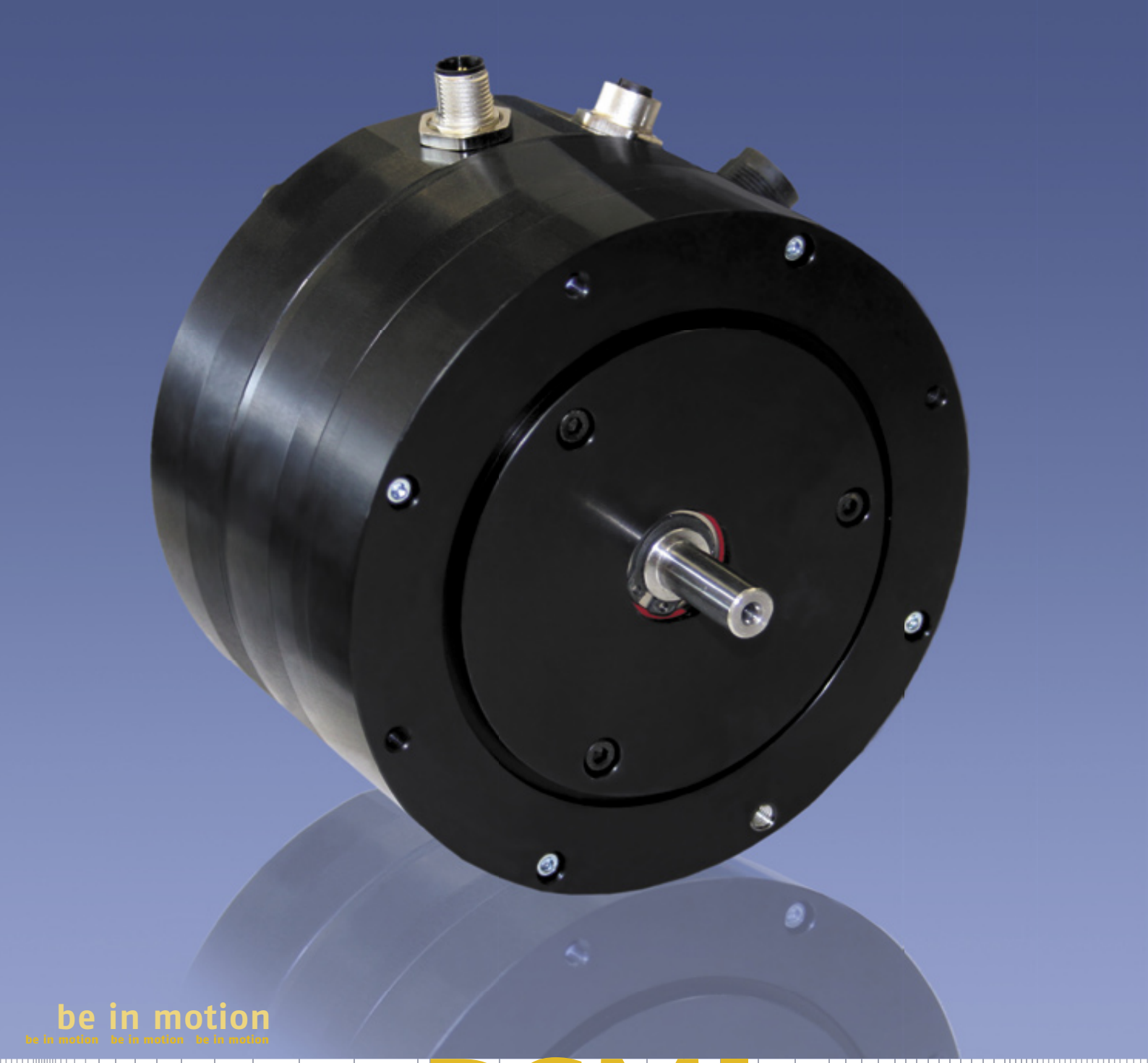
DSDI

The highly dynamic servo motor



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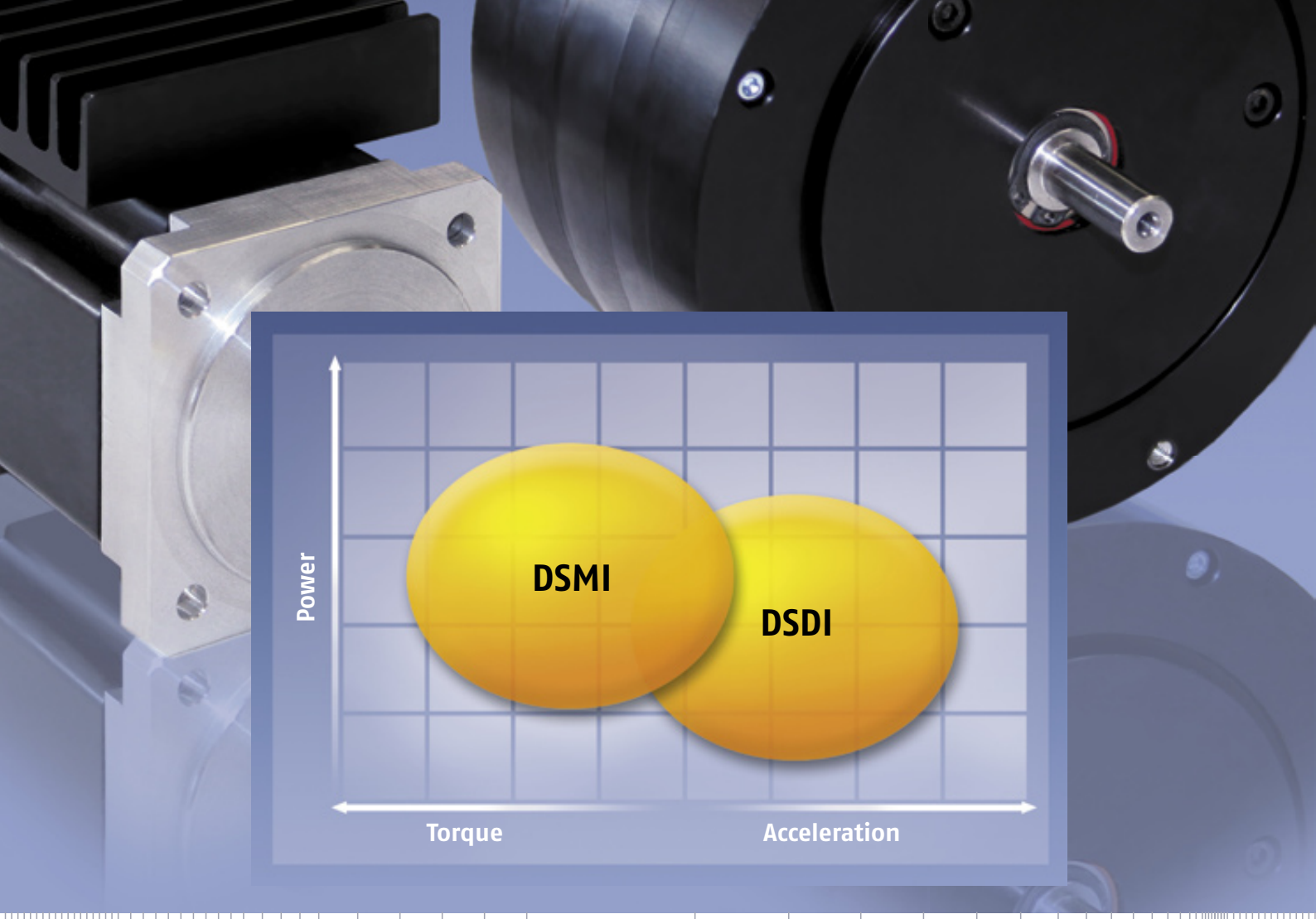
DSMI

The high torque disc motor



The Baumüller DSDI and DSMI ranges fulfill the requirements of modern decentralized drive architecture in a wide variety of servo applications in automation.

DSDI and DSMI – motors with integrated electronics

Whether it's flexible machine architectures you need, or if installation space is tight inside your machine or switchgear cabinet – using decentralized drives will expand your possibilities.

With higher protection ratings (IP54 / IP65) you can integrate the drives directly in the machine.

Possible applications

- Packaging machines
- Plastic machines
- Textile machines
- Printing machines

DSDI – your benefits at a glance

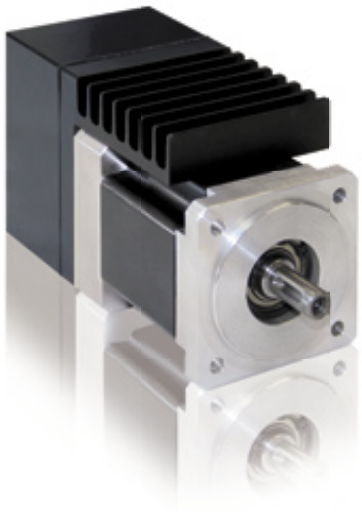
Property	Product benefit	Advantage to customer
Integrated servo-regulator and high protection rating (up to IP65)	**Decentralized drive architecture** ◎ intelligence in drive ◎ Direct installation of drives on your machine ◎ Can be used in tough environments	**Decentralized machine architecture** ◎ Modular machine design ◎ Reduced cabling requirement ◎ High-availability and low-maintenance machine
Compact design with optional customer-specific versions	**Optimal integration in the machine** ◎ Extremely slim, short design ◎ Versions with holding brake and planetary gearbox ◎ Smooth housing surface (except the cooling body)	**Optimized machine design** ◎ Integration of the drive into the optimum machine design ◎ Less susceptibility to fouling
Excellent torque-inertia mass ratio	**Acceleration capability** ◎ Highly dynamic ◎ Higher effectiveness ◎ Best stop-start properties ◎ Speed range up to 6,000 min^{-1}	**Process optimization** ◎ Higher machine output ◎ Increased productivity ◎ Increased economy ◎ Competitive advantage
Excellent concentricity properties	**Process optimization** ◎ Excellent concentricity ◎ Excellent regulation stiffness ◎ Extremely high precision	**Improved process and product quality** ◎ Increased precision ◎ Reduced waste ◎ Increased economy ◎ Competitive advantage
Consistent torque	**Torque consistancy** ◎ Virtually constant torque over a wide range of speeds	**Service design** ◎ A variety of materials can be produced ◎ Single drive set for multiple machines ◎ Reduced sourcing, transport and storage costs
High overload capacity	**Improved dynamics** ◎ High load cycle changes ◎ Excellent acceleration properties	**Machine and process optimization** ◎ Higher machine output ◎ Improved productivity ◎ Increased economy ◎ Competitive advantage
Increased effectiveness	**Reduced losses** ◎ Low losses ◎ Less heat	**Economy** ◎ Improved overall efficiency of machine ◎ Reduced operating costs ◎ Competitive advantage
Virtually free of cogging torque	**Process optimization** ◎ Negligible cogging	**Improved product quality** ◎ Increased precision ◎ No chatter marks
Power density/space requirement	**Installation space** ◎ Increased level of integration in the machine ◎ Slim design ◎ Reduced installation volume	**Reduced installation surface** ◎ Cost and space saving for the machine operator ◎ Competitive advantage
Robustness and freedom from maintenance	**Service-friendly technology** ◎ Electrically commutated. No brushes ◎ Virtually oil-free	**Reduced costs** ◎ Improved machine availability ◎ Reduced service and maintenance costs ◎ Reduced life cycle costs

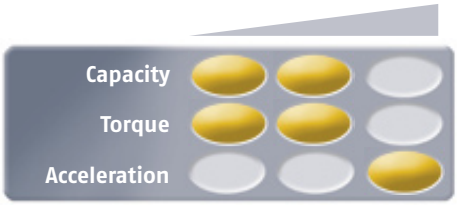
DSDI – AC servo motor with integrated b maXX 2200 servo regulator

The DSDI is a highly dynamic servo drive for applications with the most challenging requirements in terms of acceleration and start-stop properties.

Properties:

- Integrated regulation and power electronics
- Highest dynamics due to excellent torque-inertia mass ratio
- Excellent concentricity properties
- Impressive overload capability
- Slim, short housing design
- Virtually free of cogging torque
- Permanently energised synchronous servo motor
- Mains connection via plug
- Protection rating up to IP65
- With optional holding brake (up to 2Nm)
- With optional planetary gearbox (also directly mounted on motor)





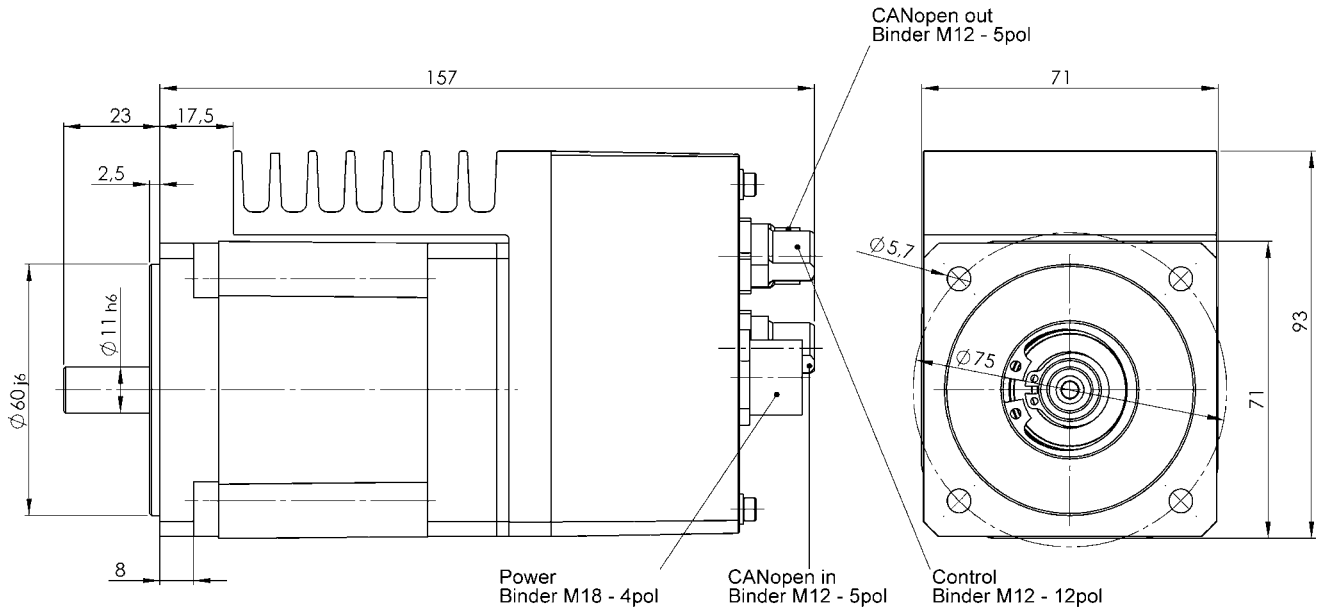
Technical data – DSDI 036S with b maXX 2200

		DSDI 036S-54U2004	DSDI 036S-54U3004	DSDI 036S-54U4004
U_N	[V-DC]	48	48	48
M_0	[Nm]	1	0,8	0,55
I_0	[A-DC]	4,8	6,3	6,3
M_N	[Nm]	0,9	0,7	0,5
P_N	[W]	170	220	230
I_N	[A-DC]	4,3	5,5	5,5
M_{0max}	[Nm]	1,9	1,9	1,9
I_{0max}	[A-DC]	15	15	15
m	[Kg]	2,3	2,3	2,3
J_{mot}	[Kgcm²]	0,29	0,29	0,29
M_0	[lbf ft]	0,88	0,59	0,48
M_N	[lbf ft]	0,66	0,52	0,41
P_N	[hp]	0,23	0,30	0,31
M_{0max}	[lbf ft]	1,40	1,40	1,40
J_{mot}	[lb in²]	0,10	0,10	0,10

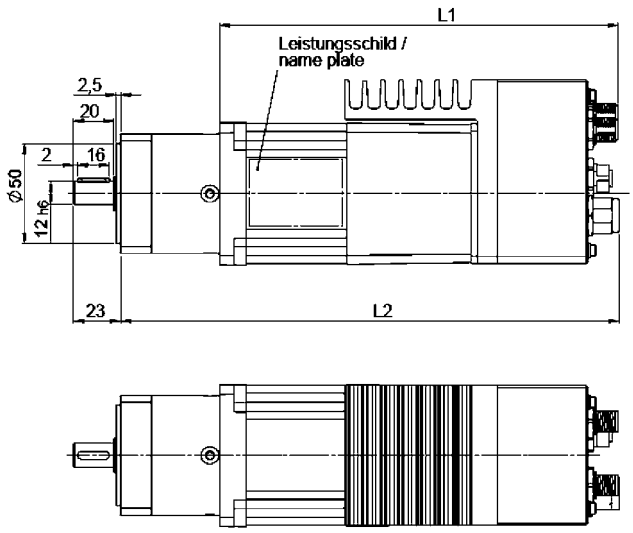
These technical data are examples of the versions already mentioned. Other motor variants are available with different working properties (torque/speed) and for use with 24V power supply.

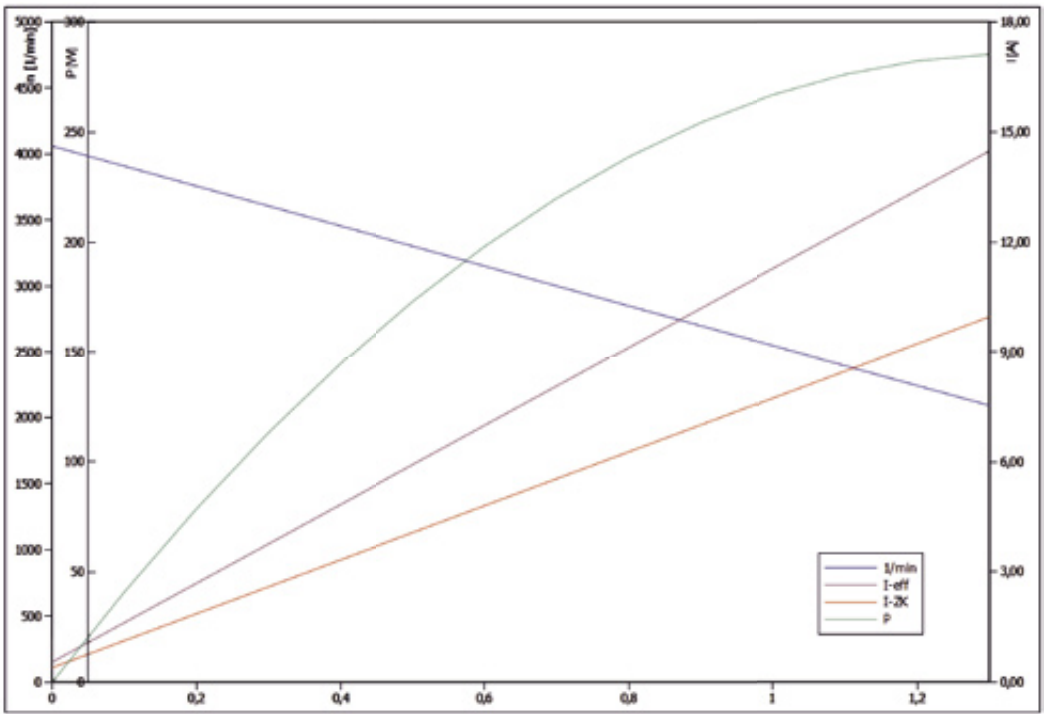
Subject to change.

For details, please refer to the relevant technical documentation.



Darstellung mit Bremse / representation with brake





DSMI – The benefits for you at a glance

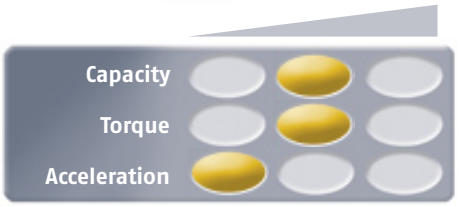
Property	Product benefit	Advantage for customer
Integrated servo-regulator and high protection rating (up to IP54)	**Decentralized drive architecture** ◎ Drive intelligence ◎ Direct installation of drives on the machine ◎ Can be used in tough environments	**Decentralized machine architecture** ◎ Modular machine design ◎ Reduced need for cabling ◎ High-availability and low-maintenance machine
Compact design with optional customerized versions	**Optimum integration in the machine** ◎ Extremely short design ◎ Versions with holding brake and helical or planetary gearbox ◎ Smooth housing surface	**Optimized machine design** ◎ Integration of drive into an optimum machine design ◎ Less susceptibility to fouling
High standstill torque	**Improved start-up behavior** ◎ More effective ◎ Reduced thermal load	**Reduced waste** ◎ Increased productivity with parallel reduction in materials cost
Excellent concentricity properties	**Process optimization** ◎ Excellent concentricity ◎ Excellent regulation stiffness ◎ Extremely high precision	**Improved process and product quality** ◎ Increased precision ◎ Reduced waste ◎ Increased economy ◎ Competitive advantage
Continuous high torque	**Virtually constant torque over a wide range of speeds** ◎ No motor or gear shifting ◎ No need to combine drives	**Service design** ◎ A variety of materials can be produced ◎ Single drive set for multiple machines ◎ Reduced sourcing, transport and storage costs
Good overload capability	**Improved dynamics** ◎ High load cycle changes ◎ Good acceleration properties	**Machine and process optimization** ◎ Higher machine output ◎ Improved productivity ◎ Increased economy ◎ Competitive advantage
Increased effectiveness	**Reduced losses** ◎ Fewer losses ◎ Less heat	**Economy** ◎ Improved overall efficiency of machine ◎ Reduced operating costs ◎ Competitive advantage
Free of cogging torque	**Process optimization** ◎ No cogging/engagement ◎ Little iron loss	**Increase in product quality** ◎ Increase in precision ◎ No chatter marks
Power density/space requirement	**Installation space** ◎ Increased level of integration in the machine ◎ Extremely short shape ◎ Reduced installation volume	**Reduced installation surface** ◎ Cost and space saving for the machine operator ◎ Competitive advantage
Robustness and freedom from maintenance	**Service-friendly technology** ◎ electrically commutated. No brushes ◎ Virtually oil-free	**Reduced costs** ◎ Improved machine availability ◎ Reduced service and maintenance costs ◎ Reduced life cycle costs

DSMI – AC pancake motor with integrated servo regulator b maXX 2200

The DSMI is a high-torque servo drive with a very short design for applications with the most exacting requirements in concentricity and overload capability.

Properties:

- Integrated regulation and power electronics
- High torque
- Excellent concentricity properties
- Virtually constant torque over a wide range of speeds
- Good overload capability
- Housing design with extremely short shape
- Free of cogging torque (coreless motor winding)
- Permanently energised synchronous servo motor
- Mains connection via plug
- Protection rating up to IP54
- With optional holding brake (up to 2Nm)
- With optional helical or planetary gearbox (also directly mounted on motor)



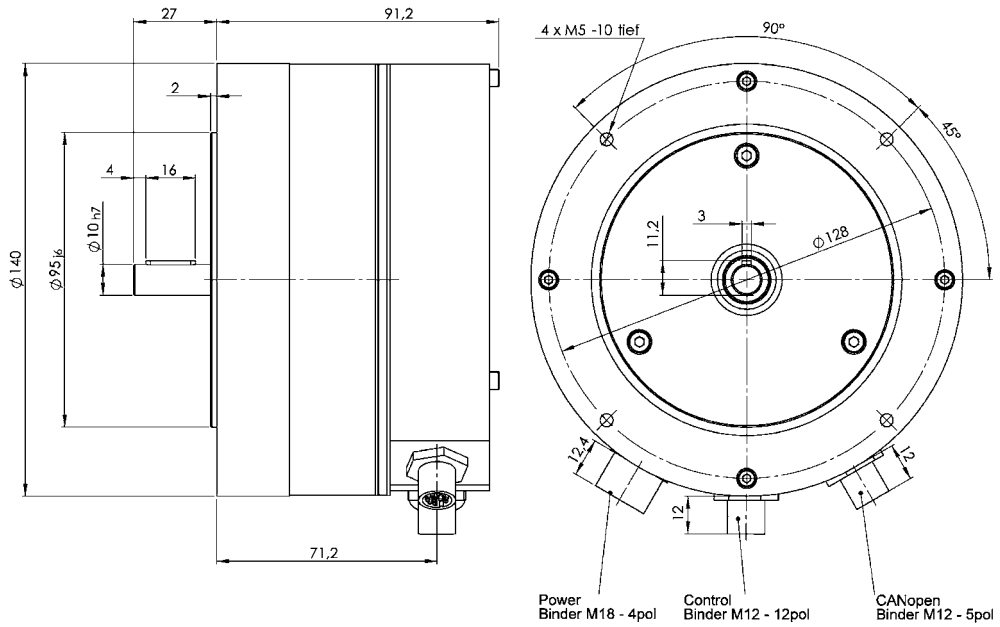
Technical data – DSMI 115 with b maXX 2200

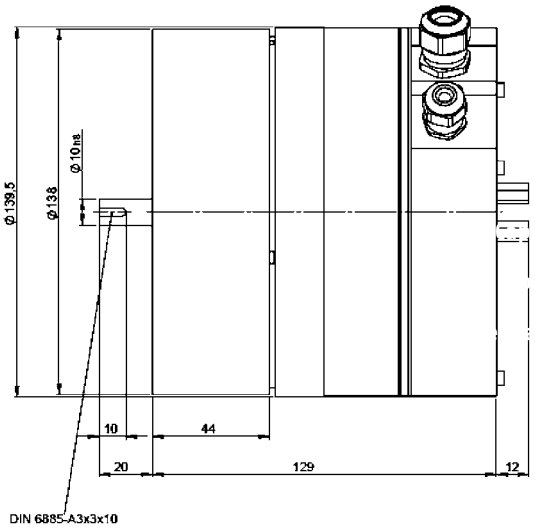
		DSMI 115-54U3004	DSMI 115-54U3002
U_N	[V-DC]	48	24
M_0	[Nm]	1.1	0.8
I_0	[A-DC]	8.6	8.6
M_N	[Nm]	1.05	0.7
P_N	[W]	385	250
I_N	[A-DC]	7.7	11.5
M_{0max}	[Nm]	3.5	2.5
I_{0max}	[A-DC]	7.7	11.5
m	[Kg]	3.6	3.6
J_{mot}	[Kgcm²]	10.4	10.4
M_0	[lbf ft]	0.81	0.59
M_N	[lbf ft]	0.77	0.59
P_N	[hp]	0.52	0.34
M_{0max}	[lbf ft]	2.6	1.8
J_{mot}	[lb in²]	3.6	3.6

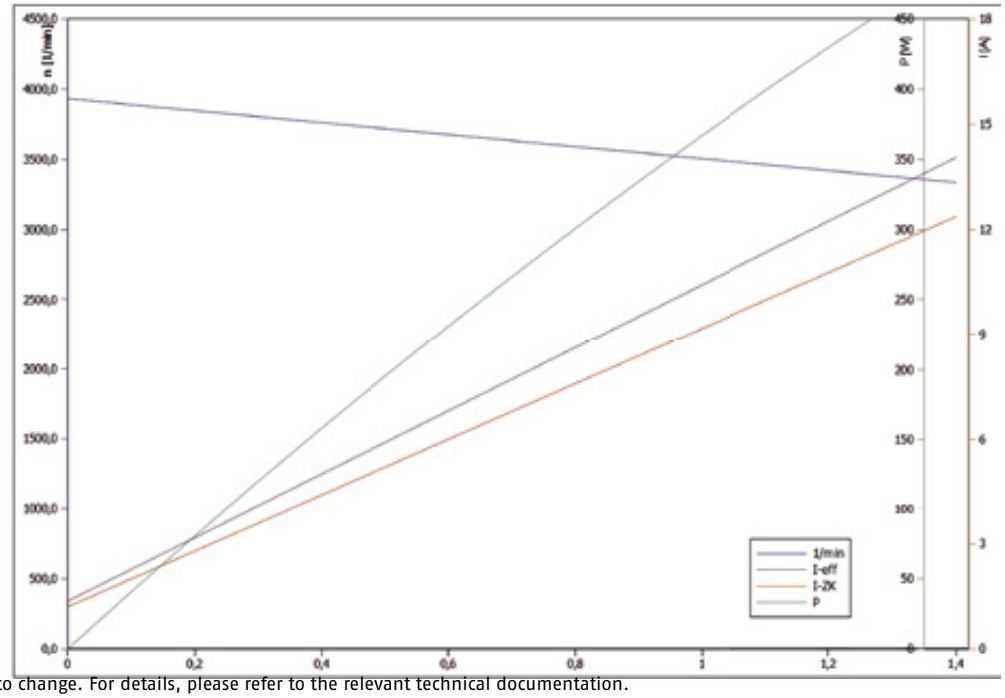
These technical data are examples of the versions already mentioned. Other motor variants are available with different working properties (torque/speed) and for use with 24V power supply.

Subject to change.

For details, please refer to the relevant technical documentation.







Subject to change. For details, please refer to the relevant technical documentation.

Servoregler b maXX 2200 für DSDI/DSMI

The following are amongst the features available for motor regulation:

- Current regulation (sampling times 125 µs)
- Speed regulation (sampling times 250 µs)
- Position regulation (sampling times 2 ms)

Functions:

- Over-voltage, under-voltage and over-temperature monitoring
- 2 analog inputs (0 to 0V)
- 5 digital inputs
- 3 digital outputs (24V)

Field bus:

- CANopen (equipment profile DSP402, protocol DS301)
- Optional Profibus-DP, EtherCAT

Integrated programmable control:

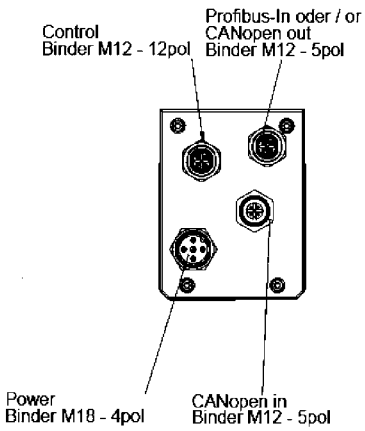
- Motion Process Unit (MPU) with up to 1,600 command lines
- Cycle time 100 µs

Signal generator types:

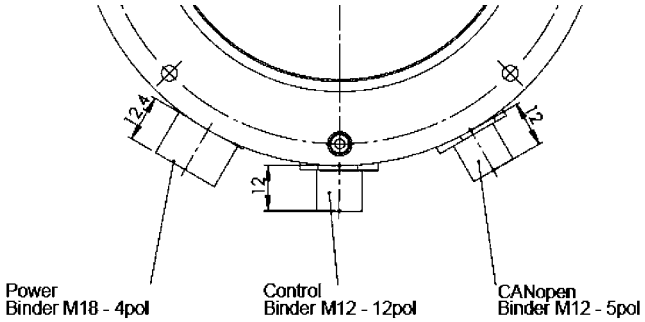
- Hall sensors
- Square-wave incremental encoder
- Absolute encoder
- Absolutwertgeber

Illustration using plug with marking of in-outputs etc.

DSDI



DSMI



Projection information

Drive range ☐ DSDI 036S ☐ DSMI 115

Field bus ☐ CANopen ☐ PROFIBUS-DP ☐ EtherCAT

Nominal speed class ☐ 1000 U/min ☐ 2000 U/min ☐ 3000 U/min ☐ 4000 U/min ☐ 5000 U/min ☐ 6000 U/min

Winding for voltage ☐ 12 V ☐ 24 V ☐ 48 V ☐ 60 V

Encoder type ☐ Hall sensor 4096 Imp/rev.
☐ Square-wave incremental encoder
☐ Absolute encoder

Shaft execution ☐ Smooth ☐ With parallel key (DIN 6885)

Brake ☐ Without brake ☐ With brake

Connections ☐ Device box ☐ Cable

Protection type shaft ☐ Without shaft seal (IP44) ☐ With shaft seal (IP65)

Protection type housing ☐ IP44 ☐ IP54 ☐ IP65

Flange-mounted version ☐ B5

Vibration properties ☐ A ☐ B

Concentricity properties ☐ N ☐ R

Gearbox mounting ☐ Without ☐ planetary gearbox ☐ helical gearbox ☐ worm gear

Configuring information

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Name _____

Company _____

Department _____

Country _____

Street, No. _____

Zip code, City _____

Telephone _____

Fax _____

E-Mail _____

Sketch/Drawing:

Notes:

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For more detailed information, please refer to the relevant technical documentation.

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22 33 44 55 66 77 88 99

11

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Baumüller has been setting a new standard with the converters and controllers of the b maXX series. This drive generation was developed to meet current and future worldwide requirements for automation technology. b maXX constitutes the basis for five different product series when it comes to both simple and complex automation solutions.

b maXX 5000 – Unachieved dynamics and compactness

Safety

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.

b maXX 4000 – 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 4000 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 (b maXX 4600, b maXX 4700) 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 maXX 3300 – 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 servomotors of the DSC, DSP and DSD series and the pancake and linear motor series from Baumüller. Functional safety features integrated into the drive are available, as is a manual control device.

b maXX 2000 – 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 b maXX 2400 (< 60V) is specifically designed for operation with the DSD 28–36 servomotors and the pancake and linear motor series from Baumüller.

b maXX 1000 – Highly efficient frequency converter

For a vector control of standard electric motors Baumüller added an high-efficient and easy to operate 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.

DSDI/DSMI Motors with integrated control and power electronics

The model ranges DSDI and DSMI are servo motors with integrated control and power electronics. These servo drive meet the requirements of modern, decentralized drive architectures in automation. The DSDI is a highly dynamic motor and the DSMI is a high torque servo drive.

Power range 170–385 W (0.23–0.52 hp), speeds up to 6000 rpm, protection rating up to IP65

400

135 200 260 315 400

Baumüller offers an extremely wide range of synchronous and asynchronous motors with shaft heights from 28 mm to 400 mm and many different cooling methods.

DS/DA – General purpose servo motors

The servo motor for all applications with strict energy efficiency requirements.
Type DS: Sizes 45, 56, 71, 100, 132, 160 and 200, power range 0.25–290 kW (0.33–389 hp), speeds up to 6000 min^{-1}, unventilated IP54, ventilated IP23/IP54, water-cooled IP54.
Type DA: Sizes 100, 132, 160, 180, 225 and 280, power range 3.5–400 kW (4.7–536 hp), speeds up to 3000 min^{-1}, ventilated IP23/IP54, water-cooled IP54.

DSC – Compact servo motors

The DSC 45-100 is a series of high-torque servo motors that are up to 30% more compact than conventional servo designs.
Sizes 45, 56, 71 and 100, power range 0.5-18 kW (0.67-24,1 hp), speeds up to 4000 min^{-1}, up to IP65 type of protection

DSP – For high speed performance

For applications requiring high rotary speeds, DSP motors complete the existing DSC range, covering nominal rotary speeds of up to 6000 min^{-1}.

Sizes 45, 56, 71, 100, speeds up to 6000 min^{-1}, up to IP65 type of protection

DSD – Dynamic servo motors

The servo motors for highly dynamic applications with the highest requirements of acceleration capacity and the best start-stop qualities.

Sizes 28, 36, 45, 56, 71 and 100, power range 0.28–37 kW (0.38–49.6 hp), speeds up to 6000 min^{-1}, up to IP65 type of protection

DST – Powerful high torque motors

The high-torque motor DST2 for application with maximum torque requirements.

Sizes 135, 200, 260, 315 and 400, power range 2.7–320 kW (3.6–429 hp), speeds up to 1500 min^{-1}, torque up to 32,900 Nm, IP54 type of protection, water-cooled

GDM & DSM – Disc motors

Baumüller offers a wide range of disc rotors for use in a large number of different applications where installation space is at a premium.

GDM DC disc motors: Power range 16–3000 W (0.02–4 hp)

DSM brushless disc motors: Power range 180–6300 W (0.24–8.4 hp)

DSA external rotor motors

External rotor motors save energy due to their high efficiency rate. Also available are kit solutions for customer-specific installation.

Stator diameter from 74 to 180 mm, performance range from 100 to 300 W (0.13–0.40 hp)

BPx – Baumüller Planetary Gear Series

The BPx planetary gear series in combination with our standard DS/DSD/DSC servo motors are ideally suited for applications with high demands on torque and dynamic.

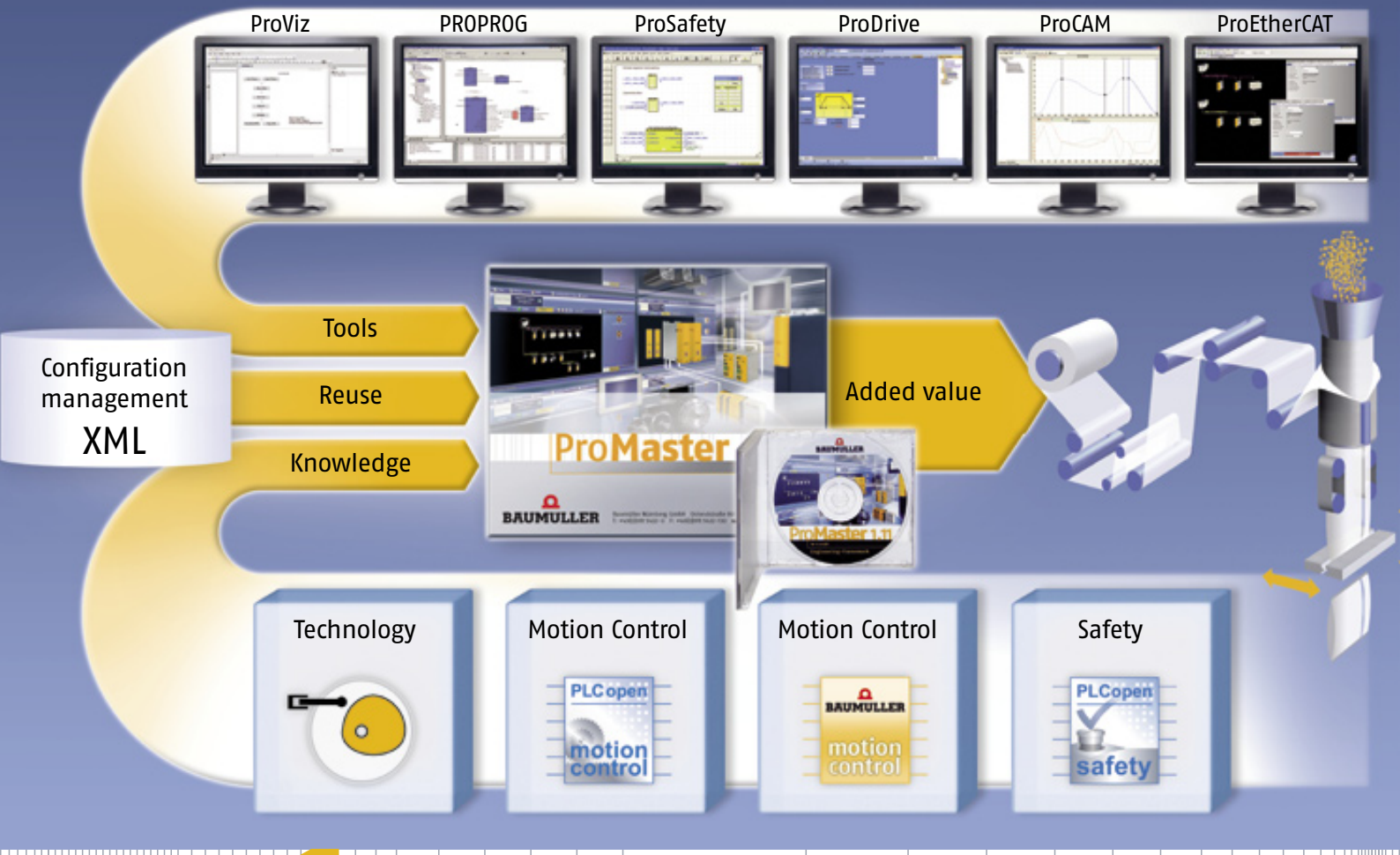
Baumüller Linear drives

The linear motor components LSE10/LSM10 can achieve maximum thrust forces of up to 14.750 N. Customized motor concepts can be realized using a modular system.

DSDI/DSMI motors with integrated control and power electronics

The model ranges DSDI and DSMI are servo motors with integrated control and power electronics. These servo drive meet the requirements of modern, decentralized drive architectures in automation. The DSDI is a highly dynamic motor and the DSMI is a high torque servo drive.

Power range 170–385 W (0.23–0.52 hp), speeds up to 6000 rpm, protection rating up to IP65



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The more intuitive the engineering, the more efficient will be the automation solution. ProMaster allows you to introduce new machine concepts to the marketplace more quickly and you systematically increase the added value of your machine.

ProMaster – An integrated engineering Framework

Consistent machine configuration, parametrization, programming and diagnosis are the fundamental aspects for a machine-oriented application. The implementation of the independent standards such as Motion Control functionalities in accordance with PLCopen or EtherCAT field bus are used.

Your knowledge is managed in the form of parameters and functions in data-sets and libraries – over the entire machine life cycle.

Thanks to ProMaster you can concentrate on your core competence – your machine.

Operating and visualizing with the bmaxx HMI

The bmaxx HMI model range is designed for special automation requirements. The web-based visualization with the HMIs equipped with a 3.5 inch to 15 inch display meets all the requirements of control panels and visualization. The user-friendly and intelligently designed control and visualization tool ProViz which is integrated in the Baumüller Engineering Framework, Pro Master, allows the machine to be adapted to every production process.

b maXX drivePLC – Drive-Integrated Control System

The b maXX drivePLC makes the drive intelligent. The control system intelligence direct on the drive offers the facility of gaining very rapid access to the set value and actual value of the drive regulator. This allows the function of the drive to be expanded by complex motion control, technological and control functions. This guarantees rapid and economical applications.

The b maXX drivePLC is fully integrated in the Engineering Framework ProMaster. Here you have access to all applications for the creation of the machine/plant topology, the field bus and I/O configurators as well as applications such as the IEC 61131-3 programming environment PROPROGwt III, the cam disk editor ProCAM and others. A b maXX local drivePLC is available for applications on the local axis.

b maXX Controller PLC – Modular and Safe

The b maXX Controller PLC consistently implements the concept of scalability and modularity for flexible individual adapting by the mechanical engineer. Thus the b maXX PLC02-Safe has extended the standard motion control range by a two-channel safety control system that fulfils the requirements of IEC61508 to SIL3 and EN 13849 to PL e. This is the first certificated EtherCAT Motion Control PLC with integrated safety function.

b maXX-PCC – PC based PLC

The calculation performance of an industrial PC in combination with a powerful PLC supplements the range of control systems with a reliable and innovative platform. It is equipped with components of the highest level of performance and is based on open standards in the fields of automation and IT. Multi-core processor architecture provides decisive advantages for automation solutions: various different functions can be distributed and the calculation performance can be allocated to the various tasks. It therefore not only fulfils the high real-time requirements of calculation-intensive applications in a control system, it also takes on additional tasks such as visualization or IT linking on a platform. Both box and panel versions are available.

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