

# PxG<sup>®</sup> integrated

PxG<sup>®</sup> CM3G.. precision planetary gearmotors

**Compact, dynamic, precise**



# High dynamics and precision with every movement

The design unit consisting of a gear unit and motor for demanding applications

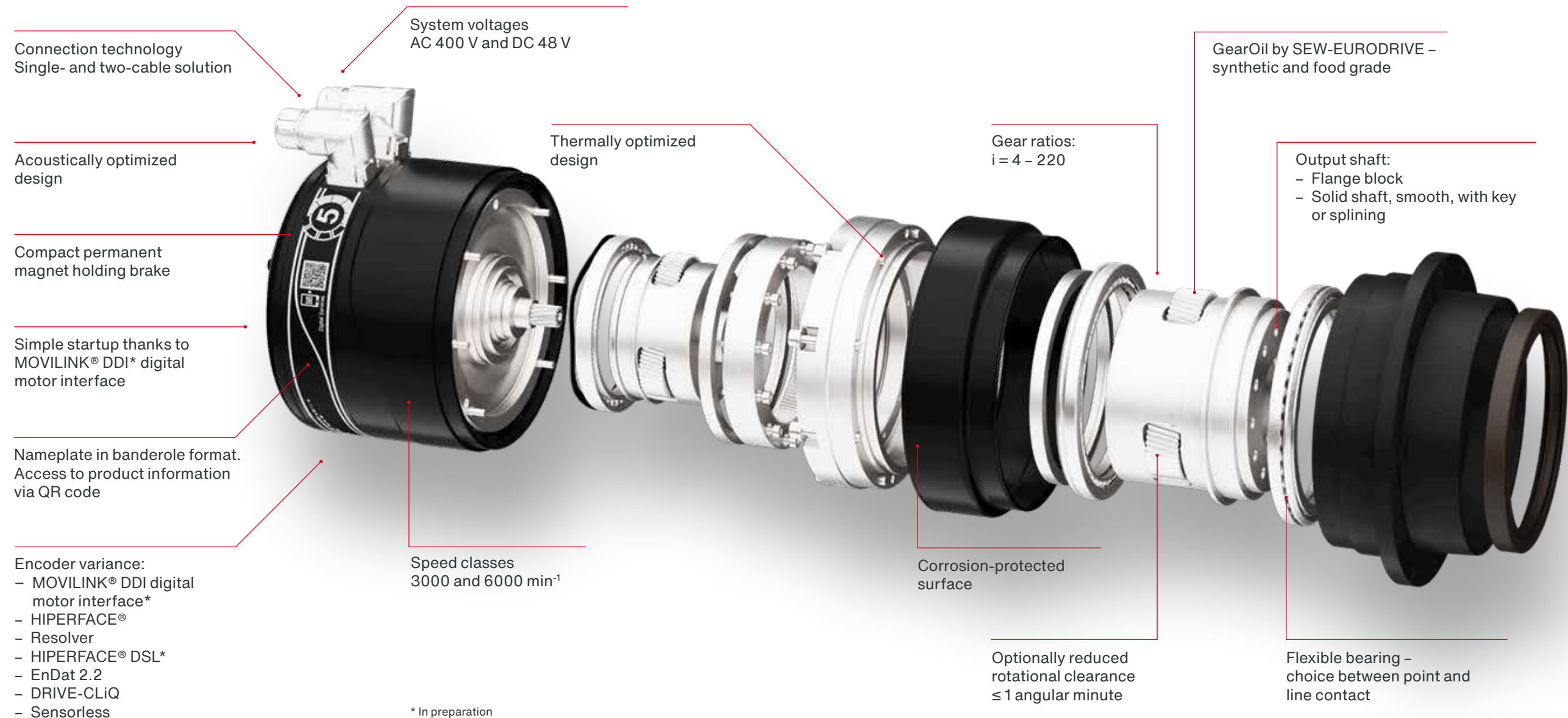
**Development and design at SEW-EURODRIVE stand for precision and innovation. This applies in particular to PxG® integrated, the latest development among our precision planetary gearmotors.**

These new gearmotors bear their name consciously: PxG® integrated are precision planetary gearmotors that have been developed and designed as a fully integrated unit. The basis for this is the modular gear unit system of the proven PxG® precision planetary gearmotors.

As a result, they are up to 40 percent shorter than comparable planetary servo gear units that are mounted to the servomotors using adapters. This saves space and allows you to adapt them flexibly to your system layout.

They are powerful, efficient, and increase productivity by up to 34 percent in short-cycle applications.

- **Up to 40 percent shorter** than precision gearmotors with conventional adapter mounting
- Finer surfaces, for example in metal and wood processing, thanks to **excellent synchronism and precision**
- **Up to 34 percent more productive** with the same maximum output torque thanks to optimized thermal design and lower inertia



# PxG® integrated – coordinates movements

PxG® integrated performs movements precisely and dynamically in the tightest of spaces – ideal for packaging, food production, metal processing, and handling.

**The precision planetary gearmotor combines precision with a compact design, making it extremely efficient and versatile. With an accuracy of up to one angular minute, it offers an ideal solution for demanding applications.**

Thanks to GearOil by SEW-EURODRIVE gear unit oil, it is not only suitable for industrial applications, but can also be optionally equipped with H1 lubricants for applications in food production.

The unit is impressively flexible, particularly in robotics and automation: Several delta robots can work precisely and optimally together, even in the smallest working spaces and even if the spaces overlap. This is made possible by the powerful MOVI-C® CONTROLLER and the MOVIKIT® Robotics software module.

Its compact design and simple integration make it the perfect choice for a wide range of applications.



## Delta kinematics – precision and speed

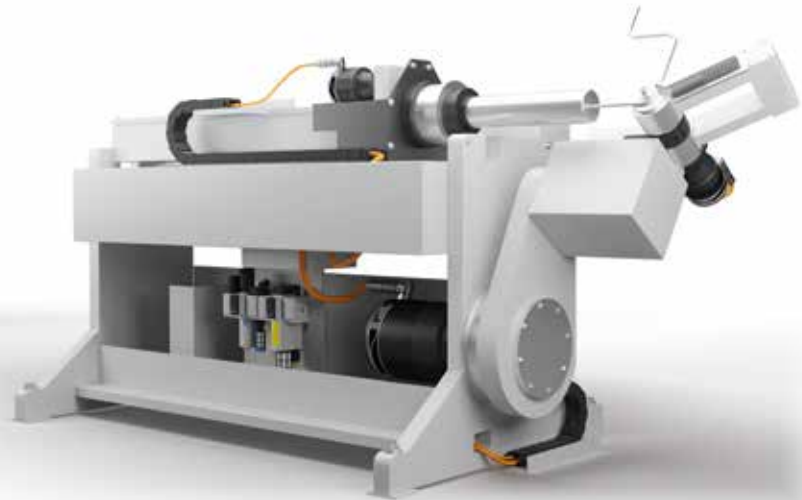
Pick and place – this means high-speed handling with robotics functionality for free movement, especially in confined spaces.

The PxG® integrated precision planetary gearmotor works precisely and dynamically, even at far more than 200 picks per minute. Several robots in the same work envelope can be arranged in a compact and space-saving manner.

## Wire and tube bending machine – efficiency and precision in dynamic movements

Wire or tube bending machines are particularly productive thanks to the dynamic movement of the bending head and the lightweight machine design.

The PxG® integrated precision planetary gearmotor improves bending accuracy and can increase the throughput of the machine.



## Chain magazine and tool changer – maximum performance with high precision

Short “chip-to-chip times” are essential when changing tools. Synchronized, precise positioning and a high overload capacity are important here.

The new, compact precision planetary gearmotors are particularly powerful and can be integrated in an extremely space-saving manner.



## 4-way pallet shuttle

Shuttle technology in warehouse logistics enables maximum efficiency in the smallest of spaces. To make optimum use of optimally utilize storage space, particularly flat designed shuttles are used. PxG® integrated are perfect for this limited space.

The precision planetary geared motors are compact, adaptable and dynamic and can therefore achieve high movement speeds for every storage and retrieval process.





# More compact and efficient than the standard

Scalable, fast, and precise performance – in every class

The planetary gear units in the PxG® series adapt to your requirements: The scalable P5.G all-rounder impresses with high dynamics, the fast P6.G endurance runner effortlessly masters top speeds, and the precise P7.G power-

house delivers maximum torque density. In combination with the CM3G.. servomotors, this creates a compact unit that takes efficiency, precision, and reliability to a new level.



PxG® series precision planetary gear units	P5.G	P6.G	P7BG
Gear ratio i	4 to 100	4 to 100	16 to 220
Dyn. output torque Nm	47 to 760	47 to 480	70 to 990
Rotational clearance	≤ 1 (R) – 6 (N)	≤ 2 (R) – 8 (N)	≤ 1 (R) – 3 (N)

CM3G.. type servomotors	71S*	71M*	80S*	80M	100S	100M
System voltage	400 V	400 V	400 V	400 V	400 V	400 V
Speed class min <sup>-1</sup>	3000/6000	3000/6000	3000/6000	3000/6000	3000/6000	3000/6000
Standstill torque Nm	2.45	5.8	4.65	15.6	8.8	25.5
Standstill current A	1.46/2.75	3.95/7.3	3.15/6.2	10.1/18.9	7.3/14.4	12.5/22
Dyn. limit torque Nm	4.5	12.6	8	30	15.6	60
Max. motor current A	3.2/6	9.2/17	6.1/12	21.5/40	16.7/33	33.5/59

\* also available in 48VDC system voltage

# Using digital tools to create an ideal system

Our online offering throughout the entire life cycle

We support you with our Life Cycle Services from the initial orientation through to the use and modernization of your machines. Whatever point you are at:

**We help you to find the best solution for you with our digital tools.**

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SEW-Workbench
- 2

MOVISUITE® engineering software in the application



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## SEW-Workbench planning and configuration tool

Do you want to combine products into a functioning drive system simply by dragging and dropping them?

Then the SEW-Workbench planning and configuration tool is perfect for you.

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## Product configurator – selecting and ordering

You have no time to browse through extensive catalogs?

Our product configurator lets you configure your drive technology quickly and easily online. And an especially practical feature: You can place your order directly from the tool.

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## Transparent data – the right software for your system

Do you need all the information at a glance for the startup or optimization of complex machines?

We make machine data available transparently online. Quick and easy planning, startup, operation, and diagnostics save you time and money and also improve safety and productivity.

<https://www.sew-eurodrive.de/inbetriebnahme-engineering>



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**Take the next step toward more efficient,  
more sustainable production.**

Contact us for more information  
or a one-to-one consultation.



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