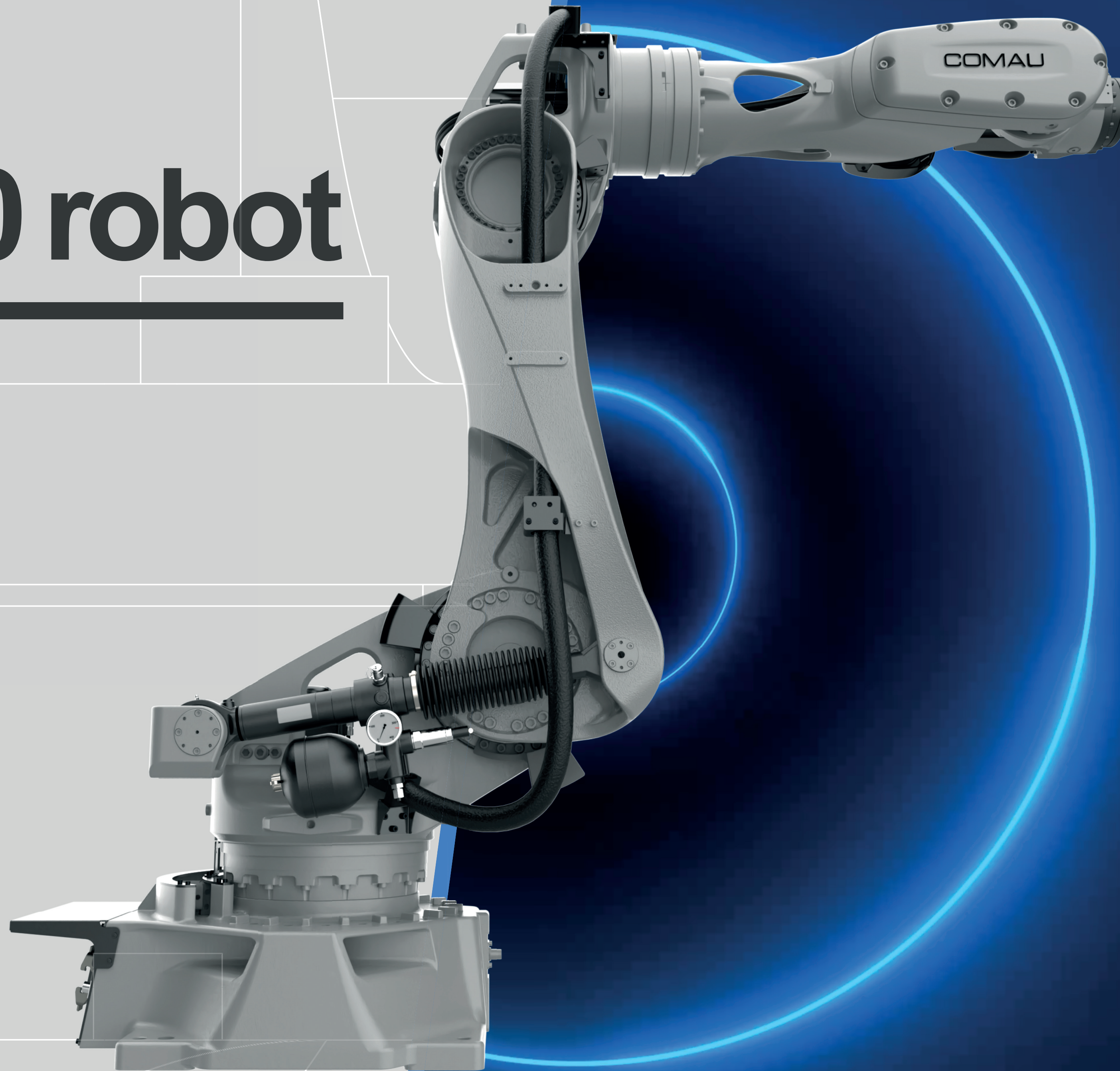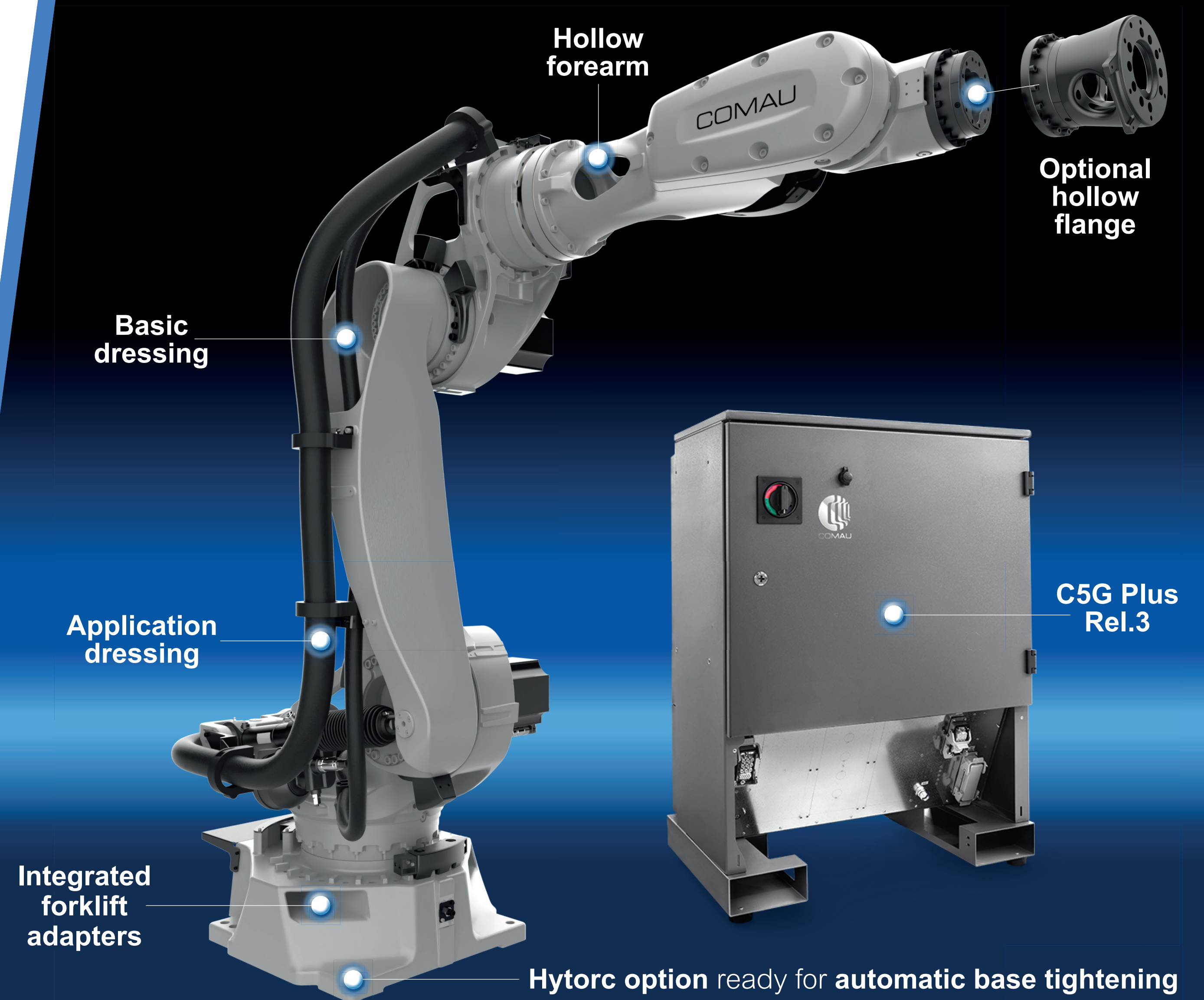# N-220 robot

The new generation robot

N-220 robot is the result of an innovative architectural approach, through an intensive **use of modularity** and components reduction, compact motors, new APC and control drivers.

The most evolved motion algorithms are now suitable with **Comau e-Motion 3.0** to provide excellent performances both in terms of cycle time, repeatability and path control accuracy.
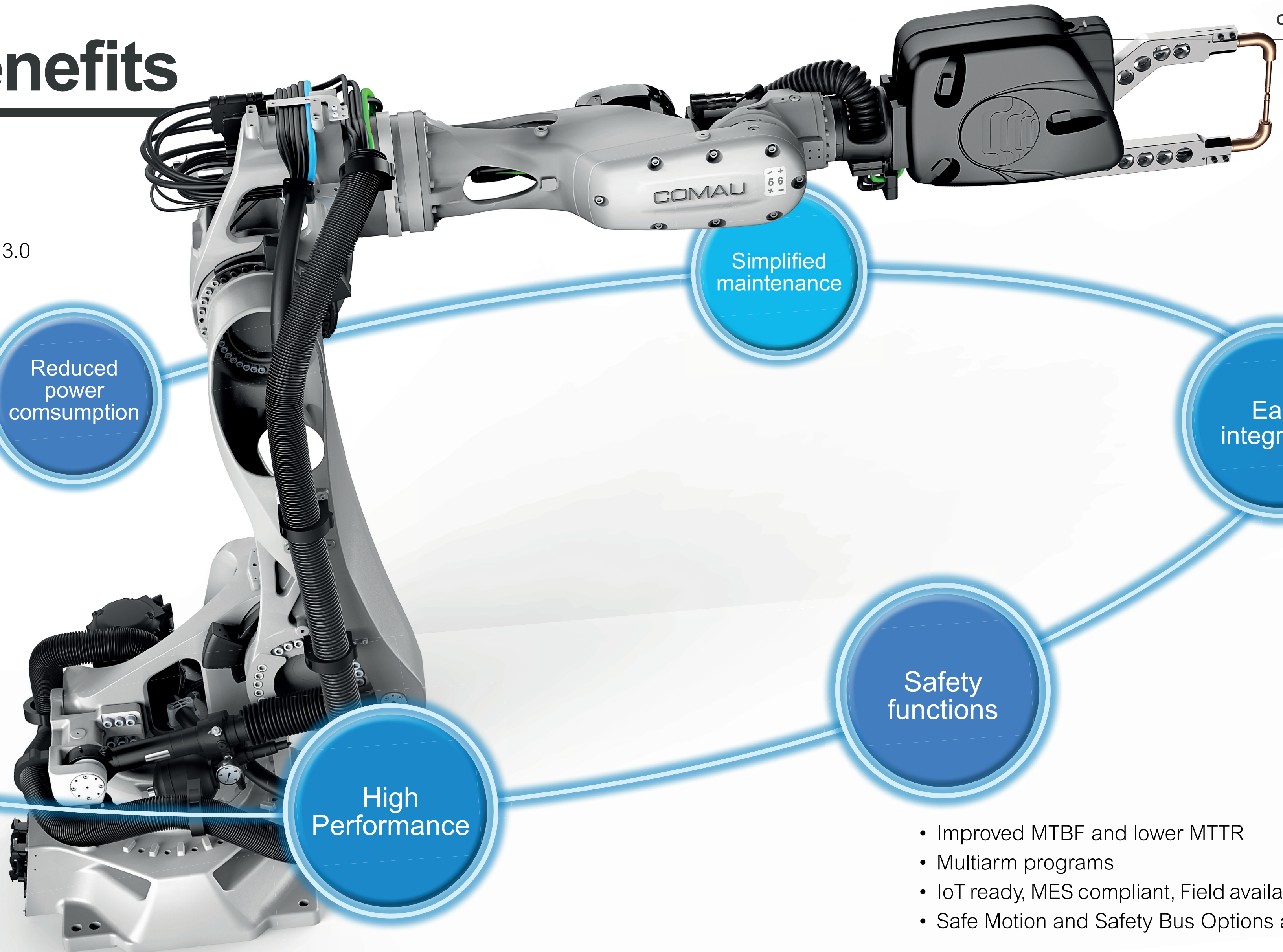
In spot welding and assembly applications N-220 robot offers the advantages of a ready-to-use, reliable and flexible machine while in packaging, palletizing and machine tending it provides highest speed and wide reach.

N-220 robot is supplied in a **basic dressing with multibus cable and air hose up to ax 3**, to which it is optionally possible to combine an **easy dressing solution** with a corrugated hose within the hollow forearm, up to axis 5 of the robot.

Hollow forearm

Optional hollow flange

Basic dressing

Application dressing

C5G Plus Rel.3

Integrated forklift adapters

Hytorc option ready for automatic base tightening

Features & Benefits

Comau N-220 robot

- Direct assembly between motor and gearbox
- Visual recalibration for "turn-set" recovery
- Enhanced SW motion algorithm with e-Motion 3.0
- Wide working areas

Simplified maintenance

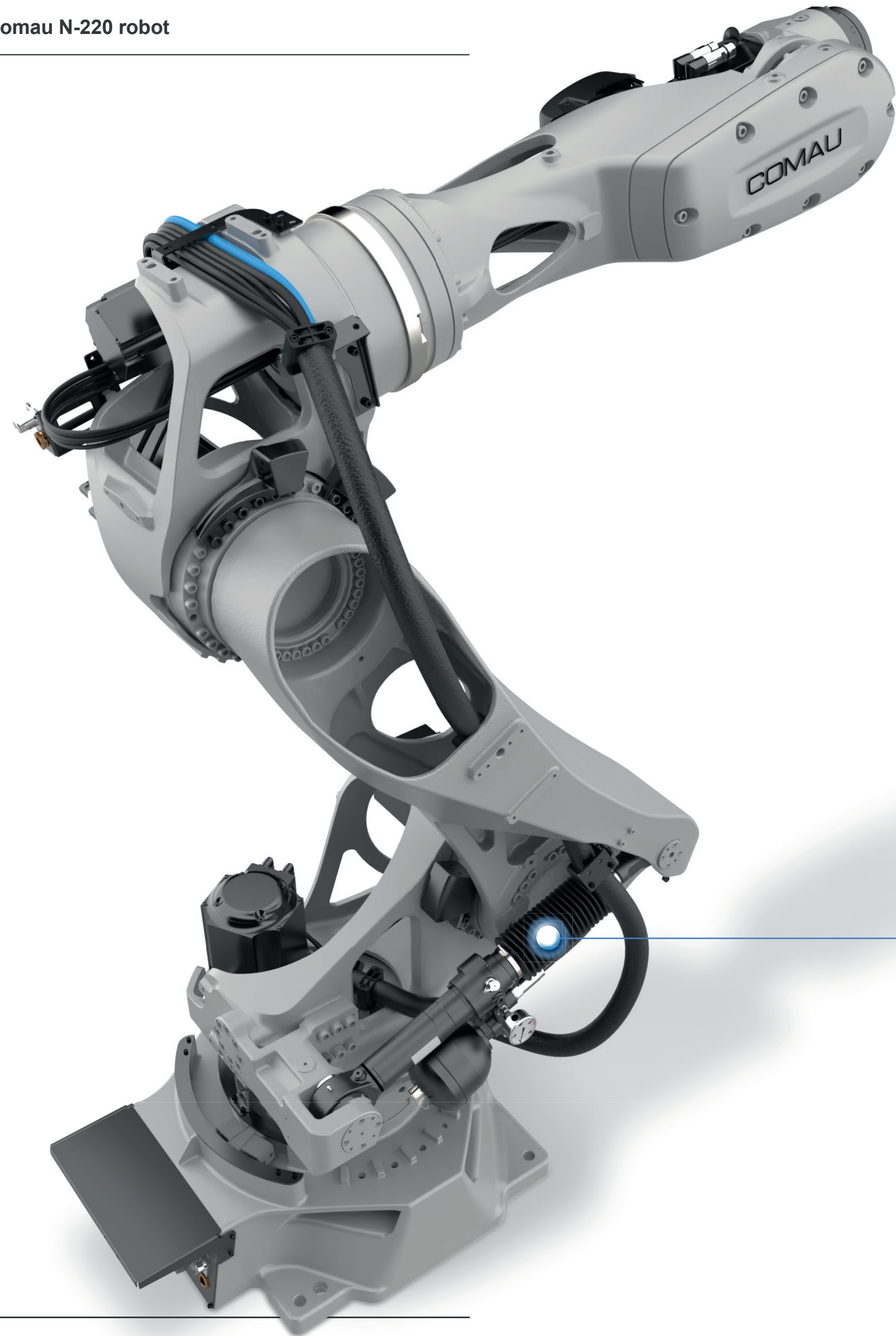Reduced power comsumption

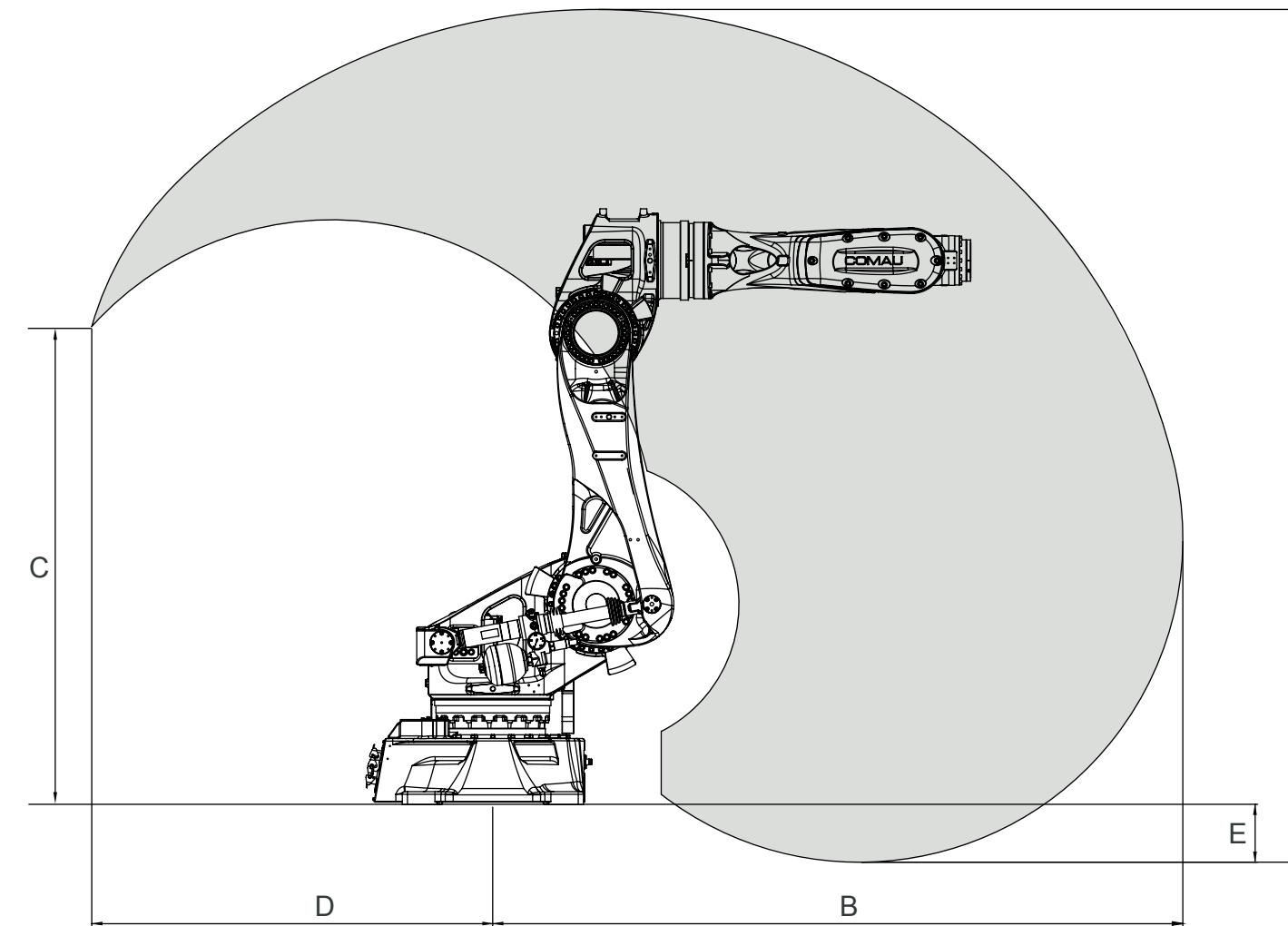Easy integration

Extreme accuracy

Safety functions

High Performance

- Improved MTBF and lower MTTR
- Multiarm programs
- IoT ready, MES compliant, Field availability, OPC UA
- Safe Motion and Safety Bus Options available

Working areas

Technical data sheet

Model	N-220-2.7
Number of axes	6
Maximum wrist payload	220 kg
Additional load on forearm	50 kg
Maximum horizontal reach	2670 mm
Torque on axis 4	1270 Nm
Torque on axis 5	1270 Nm
Torque on axis 6	780 Nm

Stroke (max speed)		
	Axis 1	+/- 180° (120°/S)
	Axis 2	-77° / +76° (100°/S)
	Axis 3	-167° / +74° (110°/S)
	Axis 4	+/- 200° (140°/S)
	Axis 5	+/- 125° (140°/S)
	Axis 6	+/- 2700° (210°/S)

Repeatability	0.05 mm
Tool coupling flange ISO	9409 - 1 - A 125
Robot weight	1193 kg
Protection class	IP65
Mounting position	Floor

Operating area type	Type 1

Operating areas		
	A	3076,4
	B	2670,5
	C	1850,0
	D	1552,2
	E	222,7
	F	-

Model	C5G Plus Rel.3
Dimensions:	800x1110x510 mm
Weight:	125 kg
Working temperature:	5 to 45°C (5 to 55°C with cooler)
Humidity:	from 5% to 95% without condensation
Extended line power range:	400 to 500V
Available for:	N-220
SAFE Control:	available version
Servo-gun ready	available version

The use of a balancing system with nitrogen for axis2 (and larger axis3 stroke-ends) allows N-220 robot a wide backwards working area: that is ideal for **bending** and **agile handling** applications.

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