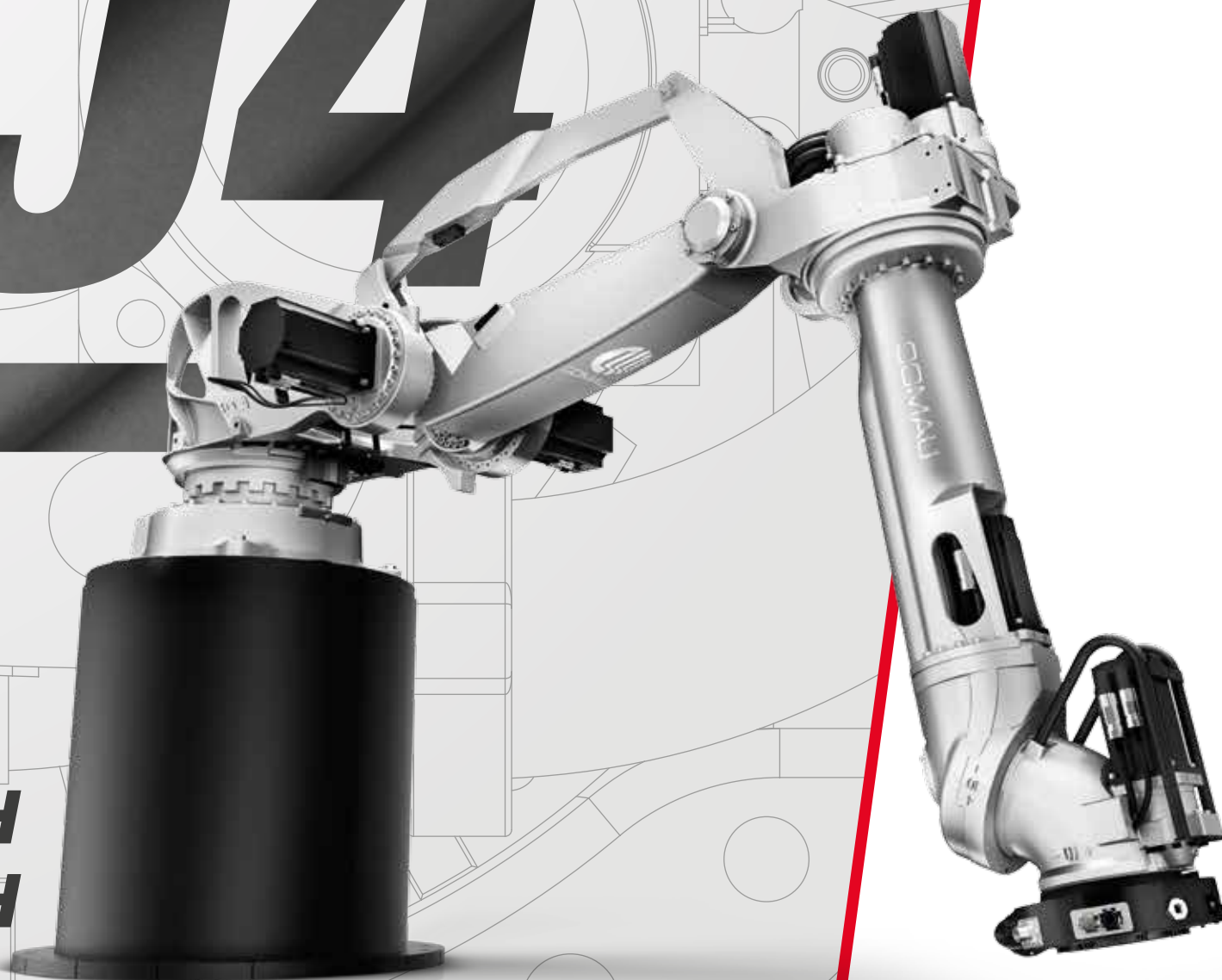


NJ4

**The Hollow Wrist
shelf version**

NJ4 165 - 3.4 SH
NJ4 210 - 3.1 SH



TECHNICAL SPECIFICATIONS

Model		NJ4 165 - 3.4 SH	NJ4 210 - 3.1 SH	Suggested applications
Number of axes		6	6	• Assembly • Handling / Packaging • Machine Tending • Measuring / Testing • Spot Welding
Maximum wrist payload		165 kg	210 kg	
Additional load on forearm		50 kg	25 kg	
Maximum horizontal reach		3377 mm	3188 mm	
Torque on axis 4		1089 Nm	1315 Nm	
Torque on axis 5		804 Nm	952 Nm	
Torque on axis 6		411 Nm	687 Nm	
Stroke (Speed)	Axis 1	+/- 180° (85°/s)	+/- 180° (85°/s)	
	Axis 2	-50° / +170° (90°/s)	+95° / -75° (110°/s)	
	Axis 3	-19,4° / -288° (110°/s)	-21° / -288° (110°/s)	
	Axis 4	+/- 200° (130°/s)	+/- 200° (130°/s)	
	Axis 5	+/- 200° (140°/s)	+/- 200° (125°/s)	
	Axis 6	+/- 200° (170°/s)	+/- 200° (190°/s)	
Repeatability		0.10 mm	0.10 mm	
Tool coupling flange		ISO 9409 - 1 - A 160	ISO 9409 - 1 - A 160	
		ISO 9409 - 1 - A 200	ISO 9409 - 1 - A 200	
Robot weight		1430 kg	1460 kg	
Protection class		IP65	IP65	
Mounting position		Shelf	Shelf	
Operating Areas	A	3027 mm	2837 mm	
	B	3377 mm	3187 mm	
	C	472 mm	535 mm	
	D	323 mm	131 mm	
	E	2027 mm	1837 mm	
	F	850 mm	850 mm	

