

# Robotics



# Our Robot Family

## The Culture of Automation

Designing advanced automation solutions means thinking about the industry in a new way, developing new scenarios, designing innovative products and creating ways to streamline production processes. It requires more than technical competence; it requires a team of professionals whose vision is rooted in a culture of excellence. It also requires a combination of talent, passion and experience that unite to define new trends in automation.

Here at Comau, our passion for our work reflects who we are.

## Meet the Comau robot team



All our robots are characterized by high performance in terms of speed, repeatability, accuracy and flexibility.

Product range extends from small payload robots to the massive capacity of 650 kg.

Each robot model is designed with a reduced footprint, large work envelope, highly precise movements and positioning, great reliability and low maintenance costs.



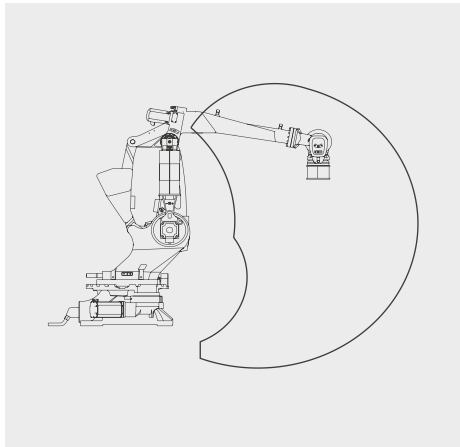
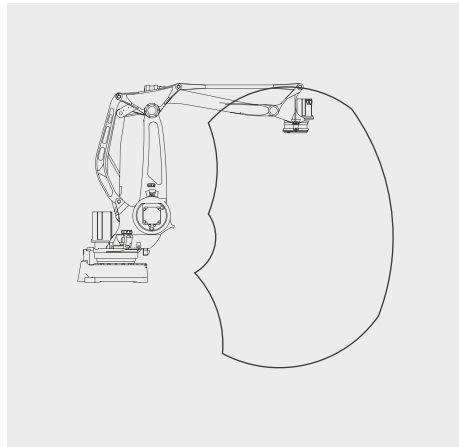
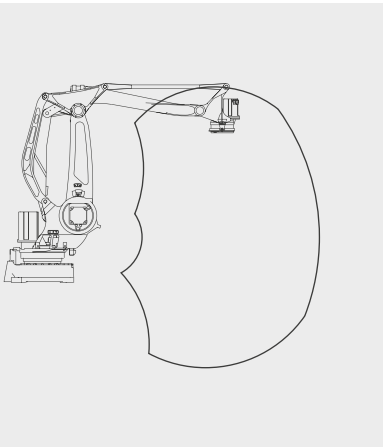
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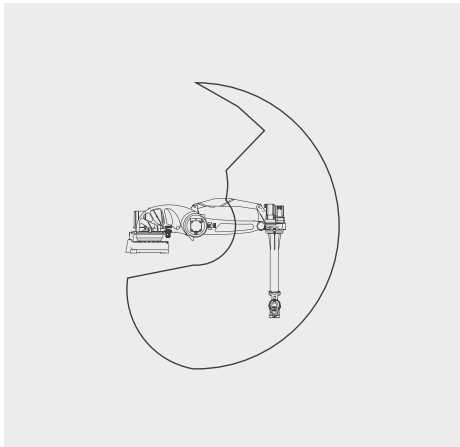
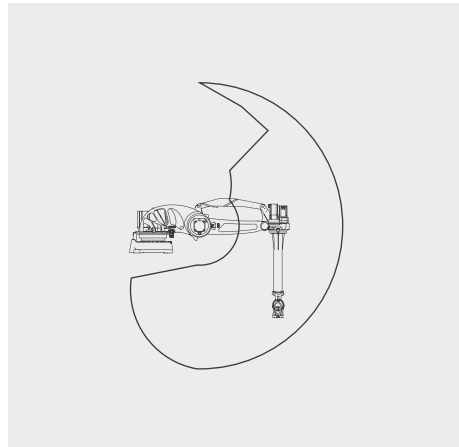
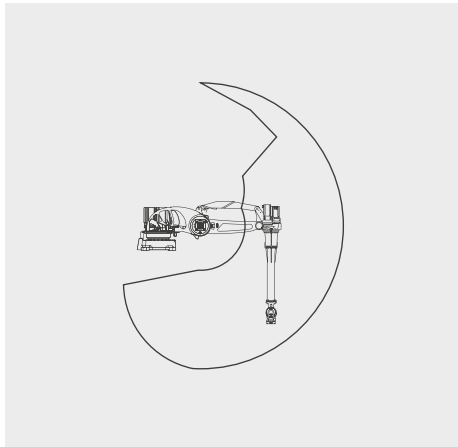
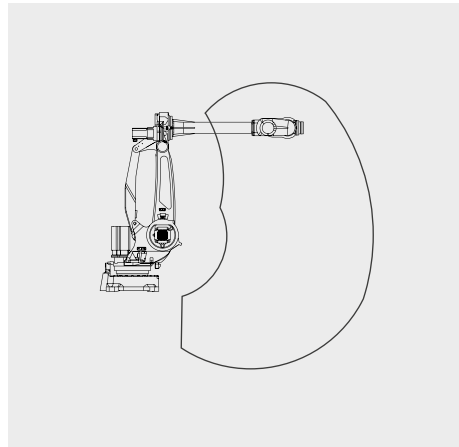
SPECIAL ROBOTS



MODEL	PAL 180 - 3.1	PAL 260 - 3.1	PAL 470 - 3.1
AXES	4	4	5
LOAD (kg)	180	260	470
REPEATABILITY (mm)	0.10	0.10	0.15
REACH (mm)	3100	3100	3100
WEIGHT (kg)	1250	1250	2250
MOUNTING POSITION	Floor	Floor	Floor
PROTECTION CLASS	IP65	IP65	IP65



NJ 100 - 3.2 PRESS	NJ 130 - 3.7 SH PRESS	NJ 165 - 3.4 SH	NJ 210 - 3.1 SH
6	6	6	6
100	130	165	210
0.17	0.20	0.10	0.10
3209	3700	3450	3188
1250	1515	1430	1470
Floor	Shelf	Shelf	Shelf
IP44 / IP65 Wrist	IP44 / IP65 Wrist	IP65 / IP67 Foundry Version	IP65

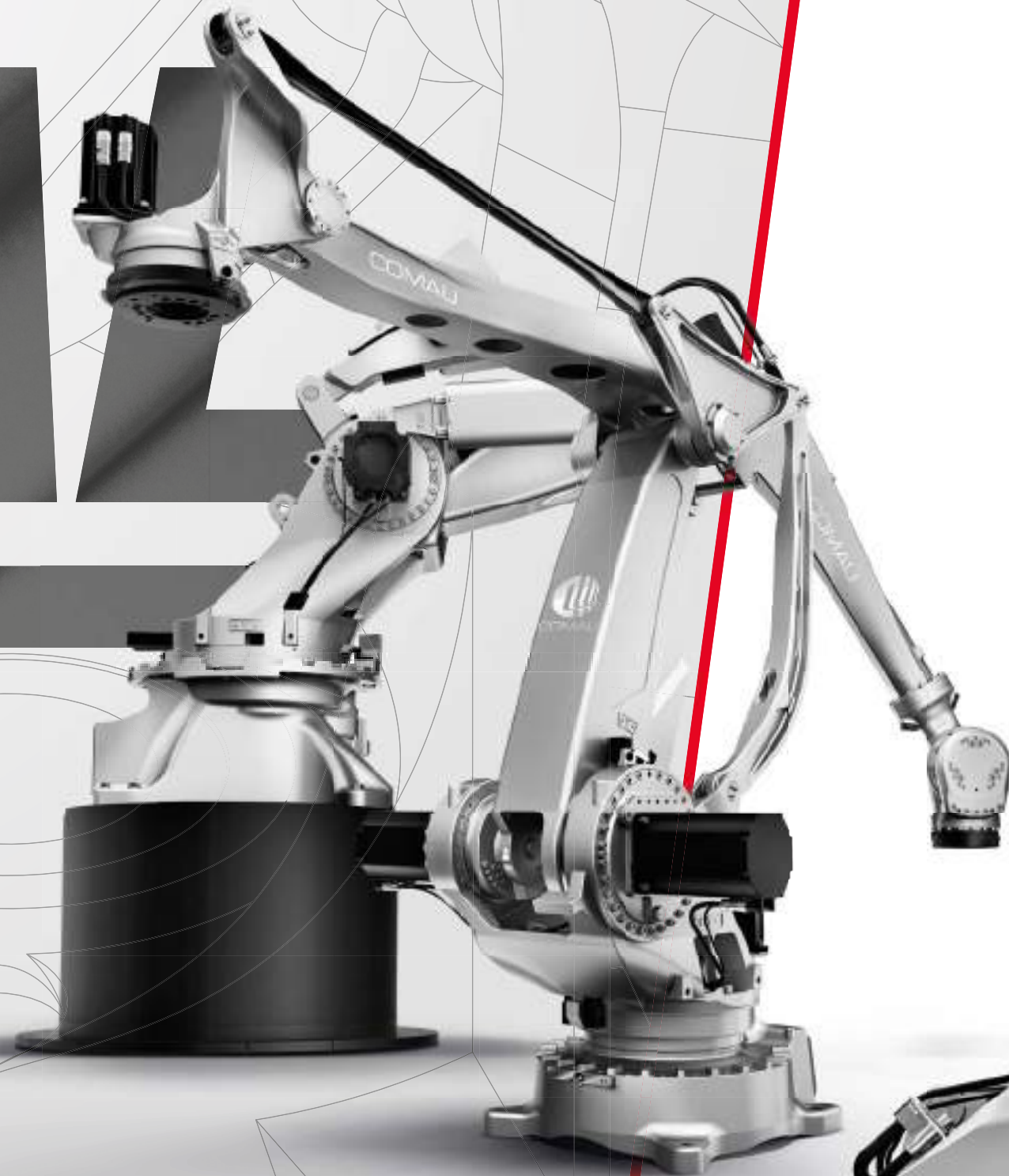


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# PAL

Fast and robust  
palletizing robots

**PAL 180 - 3.1**  
**PAL 260 - 3.1**  
**PAL 470 - 3.1**



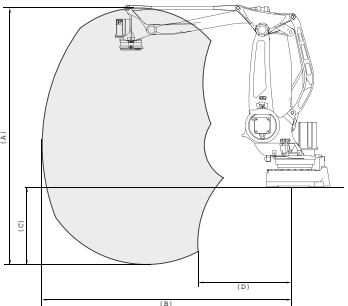
## TECHNICAL SPECIFICATIONS

Model	PAL 180 - 3.1		PAL 260 - 3.1		PAL 470 - 3.1	
Number of axes	4		4		5	
Maximum wrist payload	180 kg		260 kg		470 kg	
Additional load on forearm	25 kg		50 kg		25 kg	
Maximum horizontal reach	3100 mm		3100 mm		3100 mm	
Stroke (Speed)	Axis 1	+/- 180° (120°/s)	+/- 180° (120°/s)	+/- 180° (85°/s)		
	Axis 2	-49° / + 95° (100°/s)	-49° / + 95° (90°/s)	-60° / + 75° (85°/s)		
	Axis 3	-68° / - 208° (110°/s)	-68° / - 208° (110°/s)	-45° / - 205° (85°/s)		
	Axis 5	-	-	Axis bound to balance		
	Axis 6	+/- 2700° (280°/s)	+/- 2700° (260°/s)	+/- 2700° (180°/s)		
Repeatability	0.10 mm		0.10 mm		0.15 mm	
Tool coupling flange	ISO 9409 - 2 - 200 - 6 - M12		ISO 9409 - 2 - 200 - 6 - M12		ISO 9409 - 1 - A 200	
Robot weight	1213 kg		1213 kg		2310 kg	
Protection class	IP65		IP65		IP65	
Mounting position	Floor / Shelf		Floor / Shelf		Floor / Shelf	
Operating Areas	A	3147 mm	3147 mm	3522 mm		
	B	3099 mm	3099 mm	3050 mm		
	C	952 mm	952 mm	480 mm		
	D	1182 mm	1182 mm	793 mm		

### Suggested applications

- Pallettizing
- Handling

PAL 180 / 260



PAL 470

