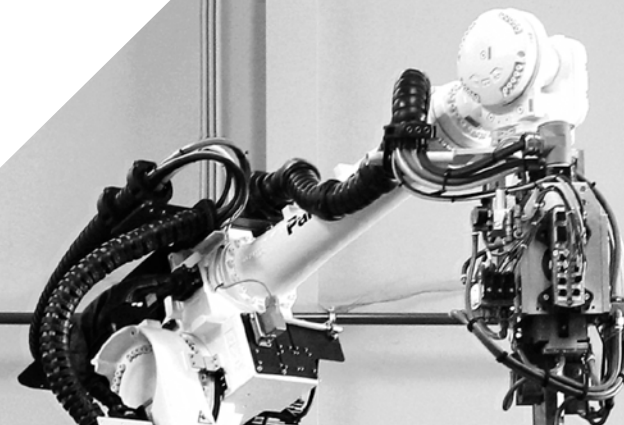




ROBOTIC SOLUTIONS FOR THE INDUSTRY

**“BUILDING THE FUTURE
FOR 10 YEARS”**



FAKA
ROBOTICS



**ROBOTIC
SOLUTIONS**
INTEGRATORS
FOR THE INDUSTRY

INDEX



● Introduction	04-05
● About the company Presentation	06-07
● About the company Paka Robotics & Paka Services	08-09
● Learn more about our Services Paka Robotics	10-11
● Our Product Range Equipamentos Robotizados	12-13
● Fixed table PK 100-01	14-15
● Manual Rotary Table PK 200-01	16-17
● Electrical Rotary Table PK 200-10 11	18-19
● Electrical Positioner Rotary Table PK 200-20 21	20-21
● Fixed Robot + Positioner PK 300-01 02	22-23
● Rail PK 400-10 30	24-25
● Interconnected Structure PK 500-01 02	26-27
● Noria PK 600-01 02	28-29
● Column PK 700-10 20	30-31
● Special Equipments	32-33
● Resistance Welding Machines Our Welding Equipment	34-35
● Our Robots Our Positioners	36-37

INTRODUCTION

THE GROUP, INTEGRATOR OF ROBOTIC SOLUTIONS FOR THE MOST DIVERSE INDUSTRY, **IS NOW PRESENT ALL OVER EUROPE.**

”

We are professionals in the design and manufacture of robotic equipment for welding and industrial handling.

We commenced our journey in 2008, ambitioning to be market leaders in this field.

Based on growth, our strategy is only possible through innovation, competence and continuous improvement of our processes, services and finished products.



ABOUT THE COMPANY

Paka is official partner of **PANASONIC INDUSTRY EUROPE.**



The Group works closely with its official partners, suppliers and customers, seeking to ensure an accurate communication of their needs and an active search for better solutions, maintaining an efficient long-term relationship with the customer.

Company's facilities are located in Portugal, in a Village called Válega, Aveiro District. These facilities are divided in two industrial units, one is dedicated to machinery and industrial equipment assembly and

manufacture, with an area of 1 600m², and the other, with a total area of 2 400m², is dedicated to mechanical locksmithing and precision metallurgy activities.

The Group will increase its production capacity in 2019 by building a new 4,200m² unit.

DESIGN AND MANUFACTURE OF ROBOTIC EQUIPMENT FOR **WELDING** **AND INDUSTRIAL HANDLING**

Paka Group was founded in 2008 by a professional team counting about 35 years of experience in the robotics sector, mainly in the design and manufacture of robotic equipment for welding and industrial handling.

Later, the Group equipped itself with a machine park with high technological capability for production process and for rendering services for the mechanical locksmithing and precision machining areas, offering prompt response to the various requests received.



ABOUT **PAKA GROUP**

The Group is divided into two companies: Paka Robotics, dedicated to the development of robotic equipment for the most diverse industry, and Paka Services, who performs mechanical locksmithing, metalworking and precision machining activities.



PAKA ROBOTICS

Company in the Group specialised in industrial equipment production and solutions creation according to each business specifics, namely, robotic welding systems, handling, palletizing and storage solutions, as well as automated production lines envisioned to automate the customer's productive process.

Agent to Panasonic and Serra Soldadura, both in the Portuguese and Spanish market.

Integrator of ABB and Fanuc manipulators, in handling and palletizing solutions.



PAKA SERVICES

Company in the Group dedicated to performing activities of general mechanical locksmithing, metalworking and precision machining, welding in various alloys, saw (cutting), bending, rectification, drilling, turning, wearing, sharpening, boring, milling, planing, polishing, reaming and flattening.

The company also performs cutting and engraving activities, of/in metals through laser beams, thermal and surface treatments, namely metallization, enamelling, anodizing, galvanizing, polishing, hardening, engraving, trimming, pickling, painting, cleaning, plastification, lacquering, colouring, thermal treatment and other similar metal treatments, performed under subcontracting or task order.



LEARN ABOUT **OUR SERVICES**

"We have a technical team specialised in Design, Development and Production working every day to achieve the best results and solutions, in accordance to customer needs."



- ✓ Mechanical Project
- ✓ Electrical Project
- ✓ Pneumatic Project
- ✓ Electrical Services
- ✓ Mechanical Services

- ✓ Pneumatic Services
- ✓ Welding and Manipulation Cells
- ✓ Equipment Retrofit and Upgrade
- ✓ Jigs
- ✓ Industrial Vision Systems

- ✓ Automation
- ✓ PLC´s Programming
- ✓ Robots' Programming
- ✓ Training assistance
- ✓ Technical assistance

PERSONALIZED SERVICE

Customer satisfaction is the focus of our activity!

This is the reason why we work every day.

We design, develop and deliver products and services in a customized and reliable way.

As a result, we assure an excellent and quality service to our customers and we are capable of responding to the most varied challenges.

OUR RANGE OF PRODUCTS

- Fixed Table
- Rotary Table
 - Manual
 - Electrical
 - Electrical Positioners
- Fixed Robot + Positioner
- Rail
- Interconnected Structure
- Noria
- Column
- Special Equipment
- Resistance Welding Machines
- Positioners
- Robots

The products presented here are some of the robotic solutions, designed and fabricated in our company in order to meet the most diversified industrial customers' needs.

Our products are associated with an idea of design of higher design quality, versatility and reliability, in addition to the use of the newest technologies.

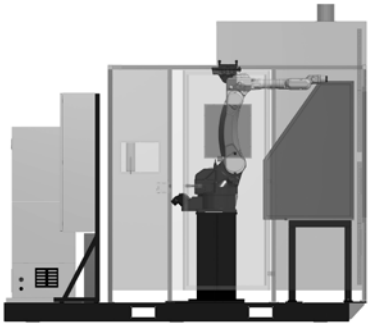
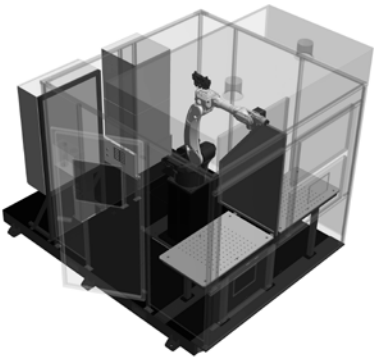
Every day, we work to present the best solutions, seeking to meet our customer's best interests.

Customer satisfaction is the focus of our activity!

A photograph of industrial robotic equipment in a factory. The main focus is a large white machine with a glass-enclosed workspace. Inside, a robotic arm is visible. The machine has safety labels, including a blue circle with a hand icon and a yellow triangle with a flame icon. To the left, another similar machine is partially visible. The background shows a factory interior with a corrugated metal ceiling and orange overhead cables. A large blue diagonal graphic element is in the top right corner, and a red triangle is on the right side, containing the text.

ROBOTIC EQUIPMENT

FIXED TABLE PK 100-01 | 02



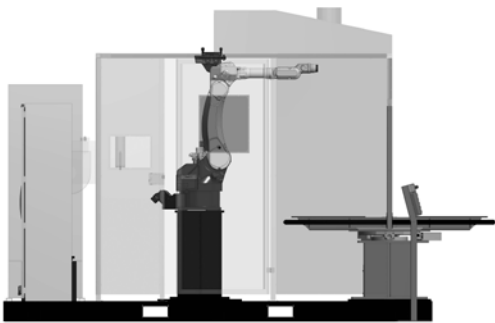
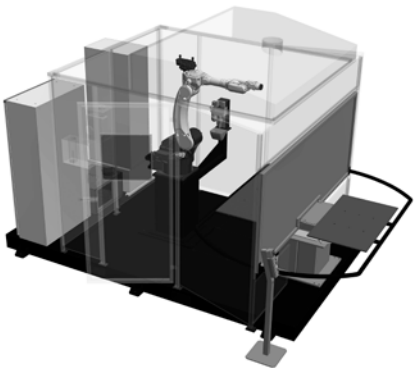
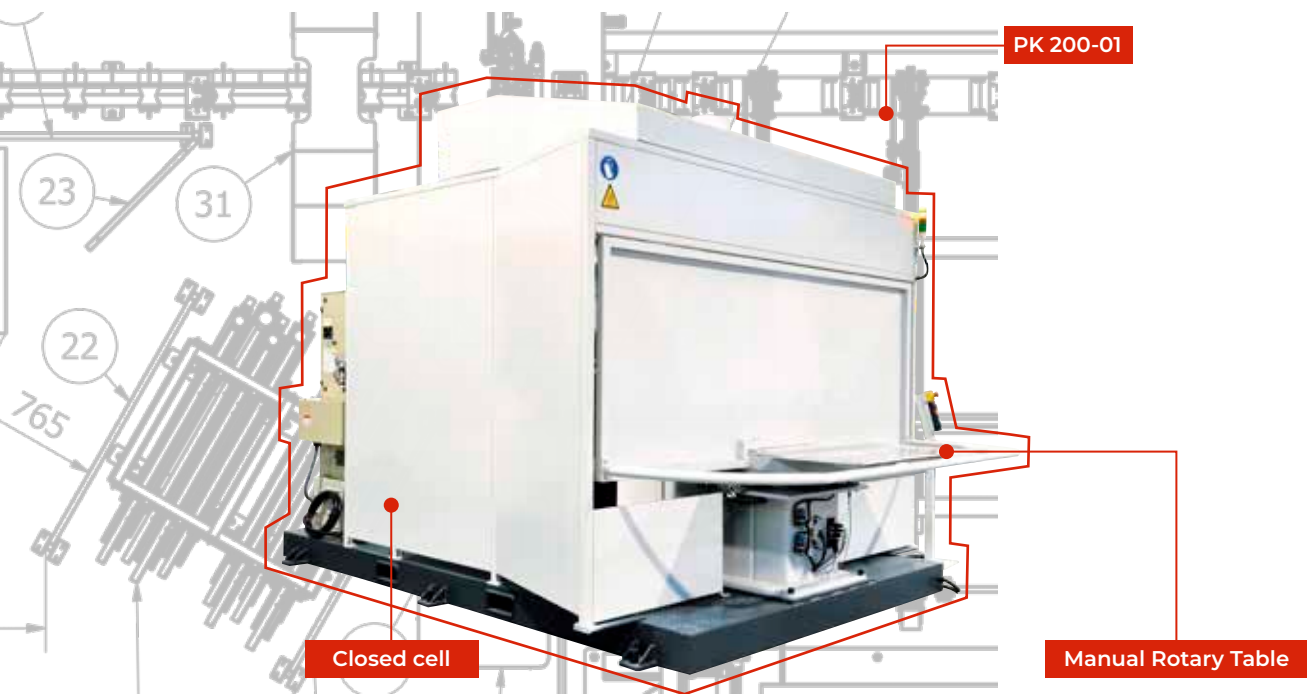
TECHNICAL SPECIFICATIONS

Reference	Type	Robot	Table		Track		Column		Lathe		Noria		Equipment		Comments
			Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Description	
PK 100-01	Fixed Table	To be defined as per catalogue	To be defined by the client												Closed cell with two work areas and pneumatic doors
PK 100-02	Fixed Table	To be defined as per catalogue	To be defined by the client												Closed cell with Albany door

PK 100-02



MANUAL ROTARY TABLE PK 200-01



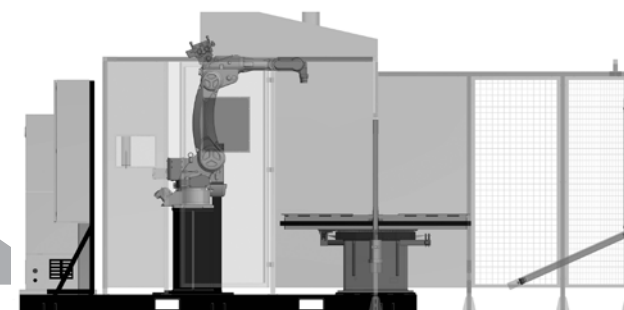
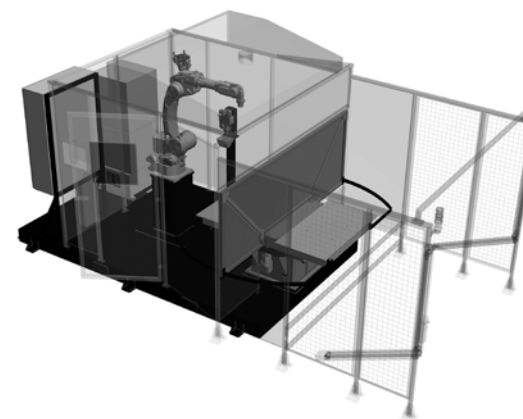
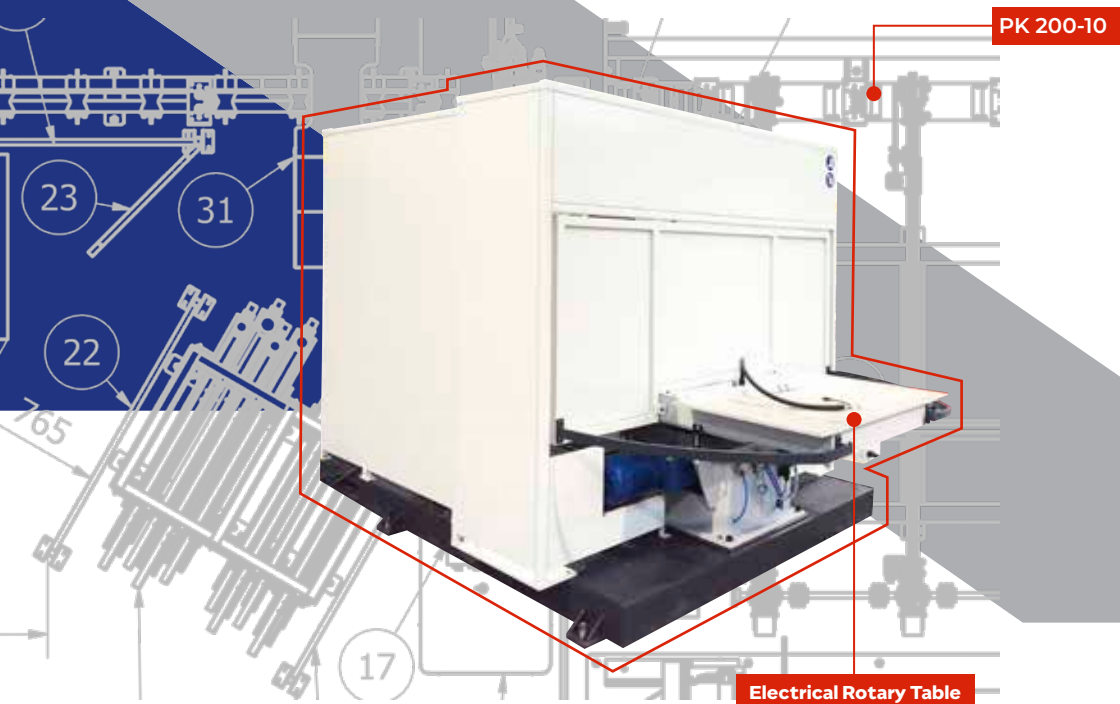
TECHNICAL SPECIFICATIONS

Reference	Type	Robot	Table		Track		Column		Lathe		Noria		Equipment		Comments
			Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Description	
PK 200-01	Manual Rotary Table	To be defined as per catalogue	Rotary table with 2 positions	L600xC1100											Closed cell

A large industrial machine, model PK 200-01, is shown in a factory setting. The machine is white with a large, clear, rectangular viewing window. It has a sturdy metal frame and a base with various components, including what appears to be a control panel or sensor unit. The machine is positioned on a dark, textured floor. In the background, there are other industrial structures and a yellow safety barrier. On the left side of the image, there are two thick, diagonal stripes, one blue and one red, separated by a white line. The machine has a blue circular warning symbol and a yellow triangular warning symbol on its upper right side.

PK 200-01

ELECTRICAL ROTARY TABLE PK 200-10 | 11



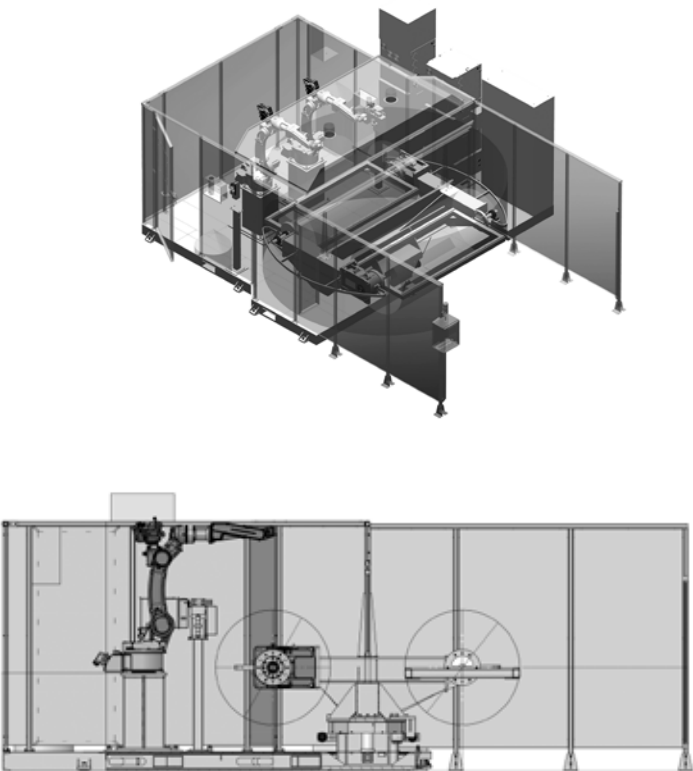
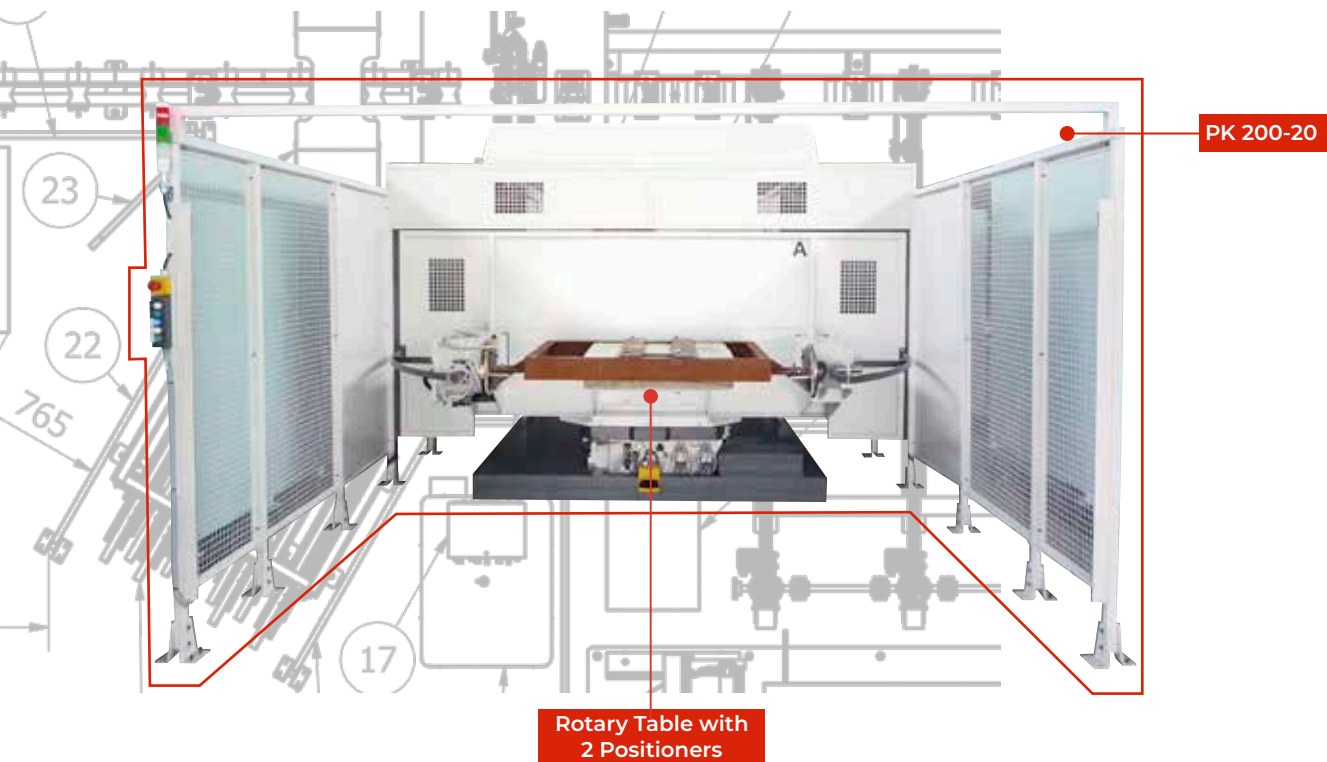
TECHNICAL SPECIFICATIONS

Reference	Type	Robot	Table		Track		Column		Lathe		Noria		Equipment		Comments
			Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Description	
PK 200-10	Electrical Rotary Table	To be defined as per catalogue	Rotary table with 2 positions	L600xC1100											Cell with network panels and photoelectric barriers
PK 200-11	Electrical Rotary Table	To be defined as per catalogue	Rotary table with 2 positions	L600xC1100											Closed cell with Albany door



PK 200-11

ELECTRICAL POSITIONER ROTARY TABLE | PK 200-20 | 21



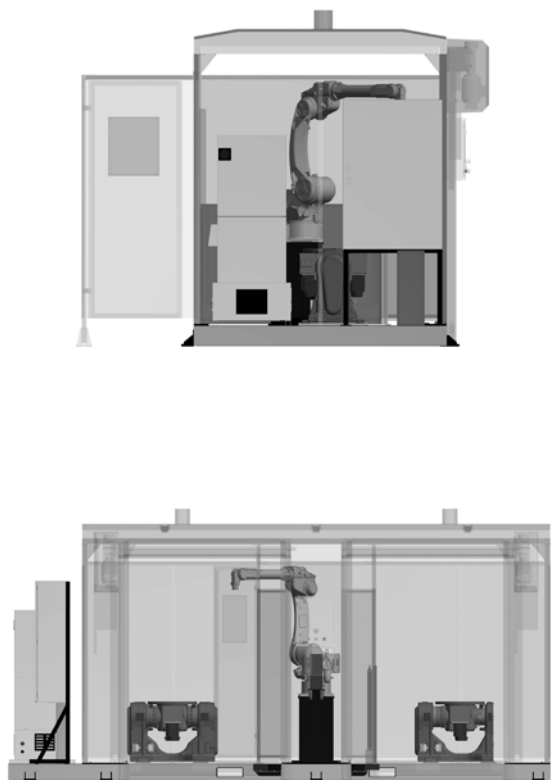
TECHNICAL SPECIFICATIONS

Reference	Type	Robot	Table		Track		Column		Lathe		Noria		Equipment		Comments
			Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Description	
PK 200-20	Rotary Table with 2 Positioners	To be defined as per catalogue	Rotary 2 positions YA-1RJB12 reducer (250kg)	D1100xC1400											Safety electric barriers
PK 200-21	Rotary Table with 2 Positioners and Albany door	To be defined as per catalogue	Rotary 2 positions Panadice YA-1RJB12_22 (250kg)	D1200xC2200											Cell with 3 robots + Rotary Table

PK 200-21



FIXED ROBOT + POSITIONER PK 300-01 | 02



TECHNICAL SPECIFICATIONS

Reference	Type	Robot	Table		Track		Column		Lathe		Noria		Equipment		Comments
			Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Description	
PK 300-01	Fixed Robot + Positioner	To be defined as per catalogue											Horizontal plate	YA-1RJC62	Closed cell with 2 Albany door
PK 300-02	Fixed Robot + Positioner	To be defined as per catalogue											Panadice YA-1RJB12 (250kg)	D850xC912	Closed cell with 2 Albany door



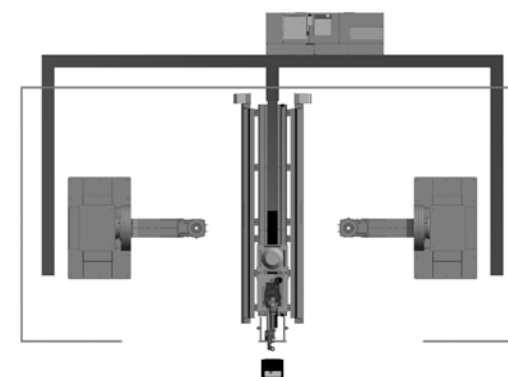
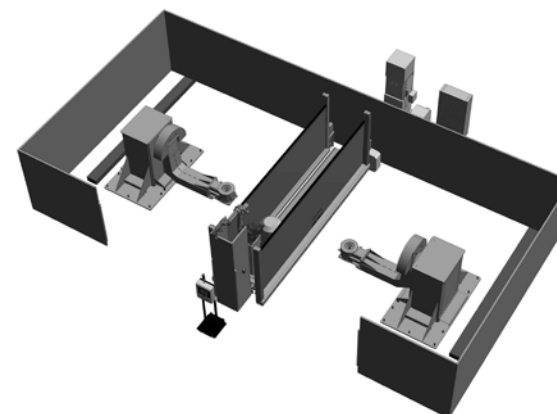
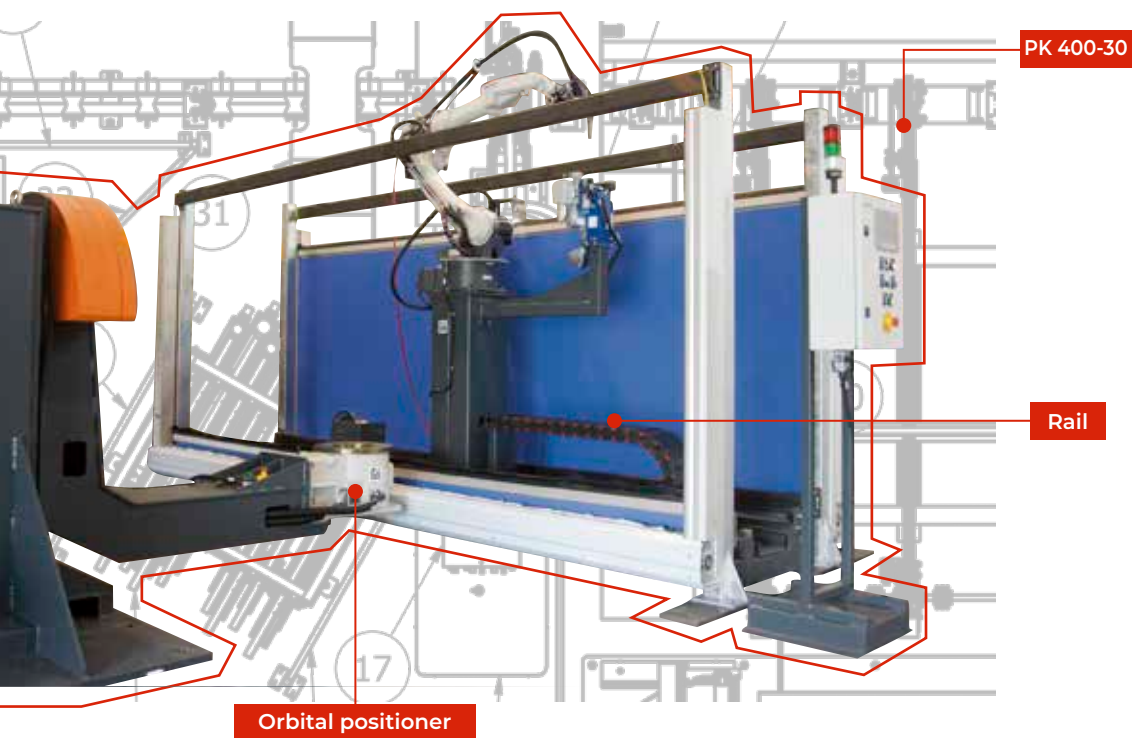
A

ALBANY
ASSA ABLOY



PK 300-02

RAIL PK 400-10 | 30



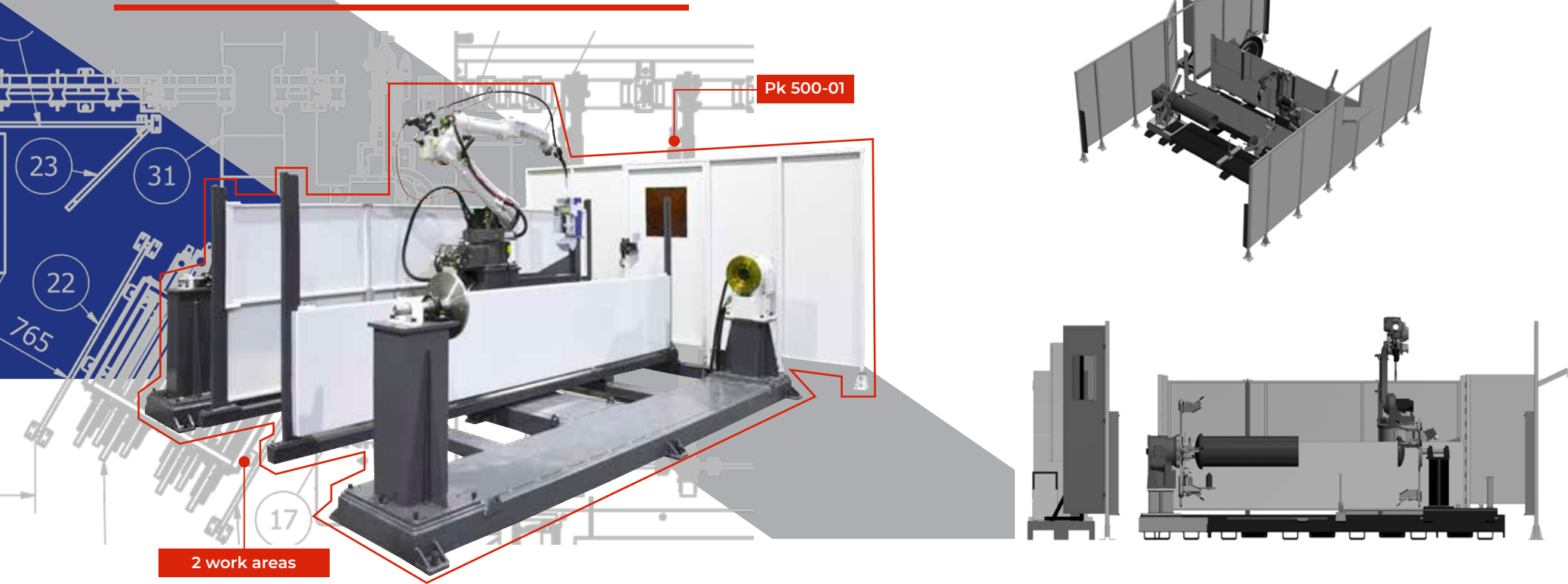
TECHNICAL SPECIFICATIONS

Reference	Type	Robot	Table		Track		Column		Lathe		Noria		Equipment		Comments
			Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Description	
PK 400-10	Rail with Column	To be defined as per catalogue			Pin 45	C8990	On track column with rotating arm								
PK 400-20	Rail with Lathe Type Positioner	To be defined as per catalogue			Pin 45	C9517			RH-500C Reducer	D2200xC7000					
PK 400-30	Rail with Orbital Positioner	To be defined as per catalogue			Marathon Support 250kg	From 3000 to 25000mm							Payload 1000kg	Orbital length 1600mm	



PK 400-10

INTERCONNECTED STRUCTURE PK 500-01 | 02

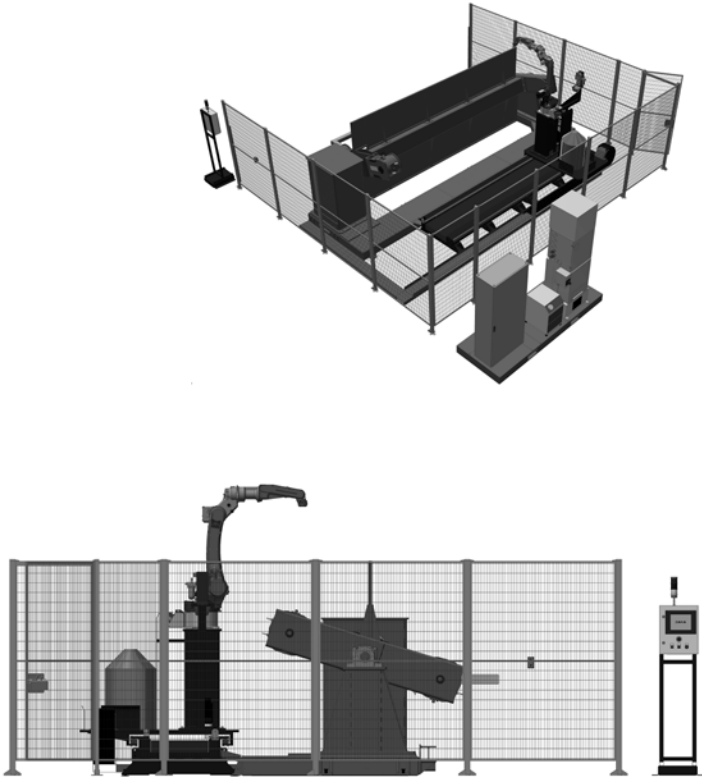
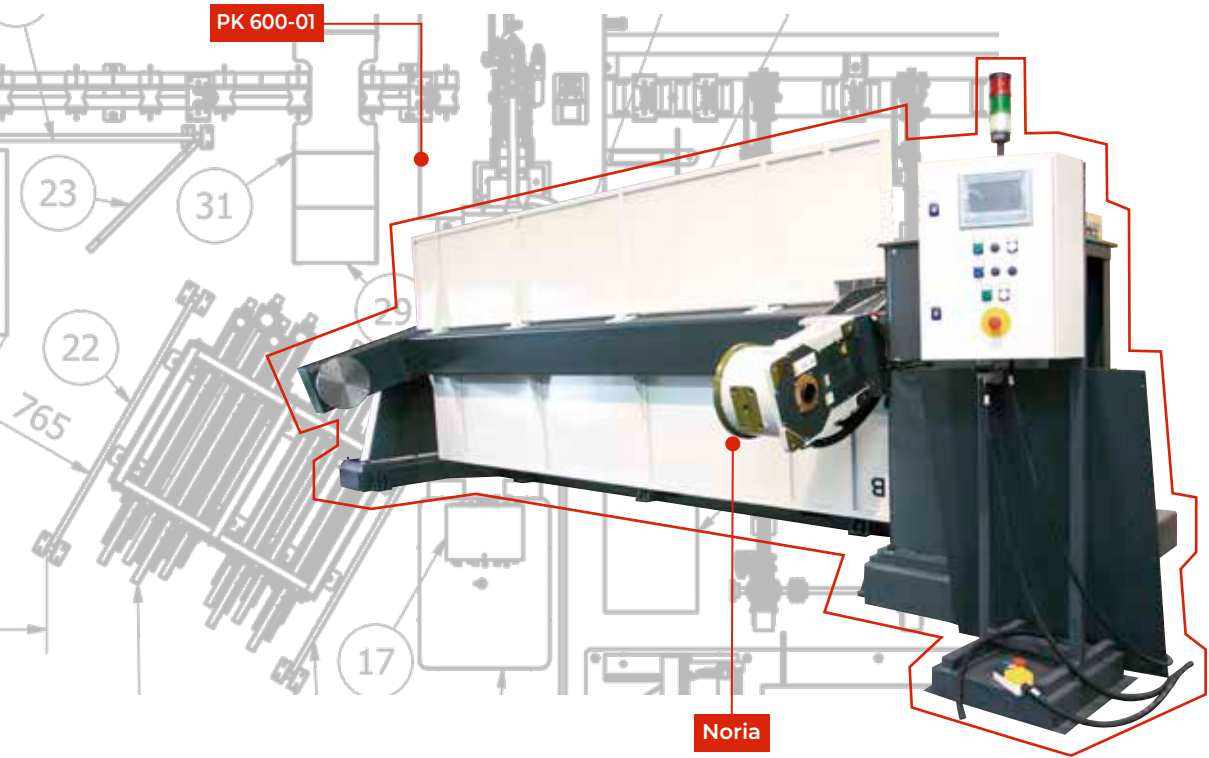


TECHNICAL SPECIFICATIONS

Reference	Type	Robot	Table		Track		Column		Lathe		Noria		Equipment		Comments
			Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Description	
PK 500-01	Interconnected structure	To be defined as per catalogue				C3000			Panadice YA-1RJB12 250kg	D500xC2500 / C500					
PK 500-02	Interconnected structure	To be defined as per catalogue			Pin 25	C7500			RD-320C Reducer	D1670xC58507 / C3850					

PK 500-02

NORIA PK 600-01 | 02



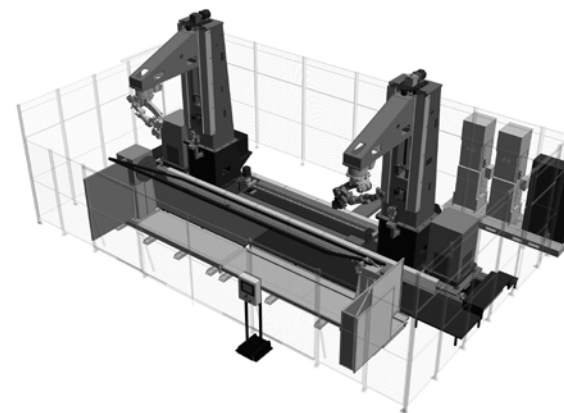
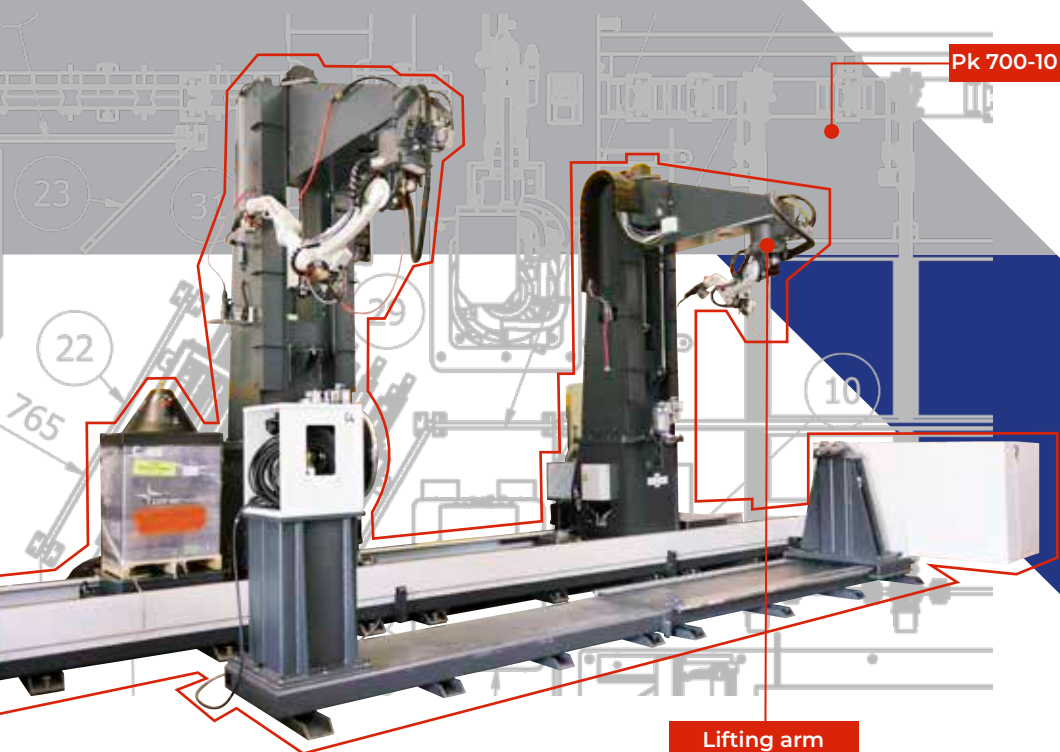
TECHNICAL SPECIFICATIONS

Reference	Type	Robot	Table		Track		Column		Lathe		Noria		Equipment		Comments
			Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Description	
PK 600-01	Noria	To be defined as per catalogue			Pin 35	C4500mm					Payload 1000kg	C4500mm			
PK 600-02	Noria	To be defined as per catalogue			Pin 35	C4500mm					RH-500C + YA-1RJB32 (1000kg) Reducer	D1030xC2880			



PK 600-02

COLUMN PK 700-10 | 20



TECHNICAL SPECIFICATIONS

Reference	Type	Robot	Table		Track		Column		Lathe		Noria		Equipment		Comments
			Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Dimensions	Specifications	Description	
PK 700-10	Column	To be defined as per catalogue			Pin 45	C9517,5	On track column with lifting arm	A3556/2356		D1235xC5690					
PK 700-20	Column	To be defined as per catalogue			Pin 45	C9517	On track column with rotating arm	A2400	Rh-500C Reducer	D2200xC7000					



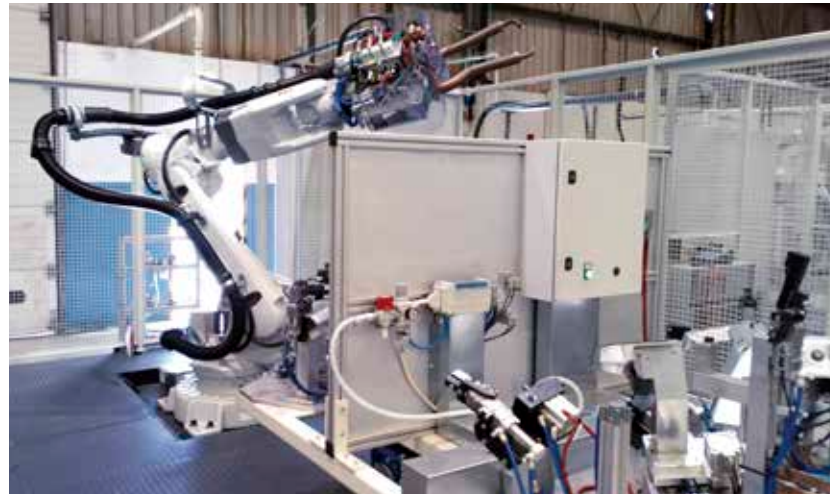
PK 700-20

SPECIAL MACHINES

Innovative solutions for the most varied industrial sectors using advanced and recent technologies that comply with high quality standards, thus enabling the companies' productive process to become faster, more efficient and cost effective.

Cutting line, manipulation and welding.
Stainless steel pipe grinding.





Spot welding cell.

Resistance welding cell with rotating plate.



A close-up photograph of an industrial resistance welding machine. The machine features a grey metal frame with a vertical column and a horizontal arm. A copper electrode is positioned at the end of the arm, ready to weld a piece of metal. Red and blue cables are connected to the machine. The background is a blurred industrial setting. The image is framed by a blue diagonal band on the left and a red diagonal band on the right.

RESISTANCE WELDING

OUR WELDING EQUIPMENT AND GUN

ROBOT GUNS



MANUAL
WELDING GUNS



CC WELDING



SPOT WELDING



SHEAVE WELDING



PROJECTION WELDING

OUR POSITIONERS

Our partner Panasonic tested and proved our positioners, which grant precise positioning and rapid reorientation for an efficient production.

The positioners may be integrated as auxiliary axis in systems with robot application.

Our models can reach a payload up to 1 000 kgs and they offer various velocity and flexibility ratings in accordance to customers' needs.



YA-1RJB12

Load capacity
250 Kg



YA-1RJB22

Load capacity
500 Kg



YA-1RJB32

Load capacity
1000 Kg



YA-1RJC62

Load capacity
300 Kg



YA-1RJC72

Load capacity
500 Kg



YA-1RJR42

Load capacity
400 Kg



YA-1RJR52

Load capacity
110 Kg

OUR ROBOTS

We work with industrial robots for welding and handling, supplied by our partner Panasonic.

All robots are available with G3 version, equipped with full digital communication and Tawers technology. This technology offers the advantage of communicating very rapidly, allowing the execution of previous set tasks by the operator, aiming to improve productivity and product quality.



TS-800

Maximum range | 841 (mm)



TS-950

Maximum range | 971 (mm)



TM-1400

Maximum range | 1400 (mm)



TM-1600

Maximum range | 1600 (mm)



TM-1800

Maximum range | 1800 (mm)



TM-2000

Maximum range | 2000 (mm)



TL-1800

Maximum range | 1800 (mm)



TL-2000

Maximum range | 2000 (mm)



YS-080

Maximum range | 2240 (mm)
Maximum load | 80 kg



HS-220

Maximum range | 2666 (mm)
Maximum load | 220 kg



HH-020

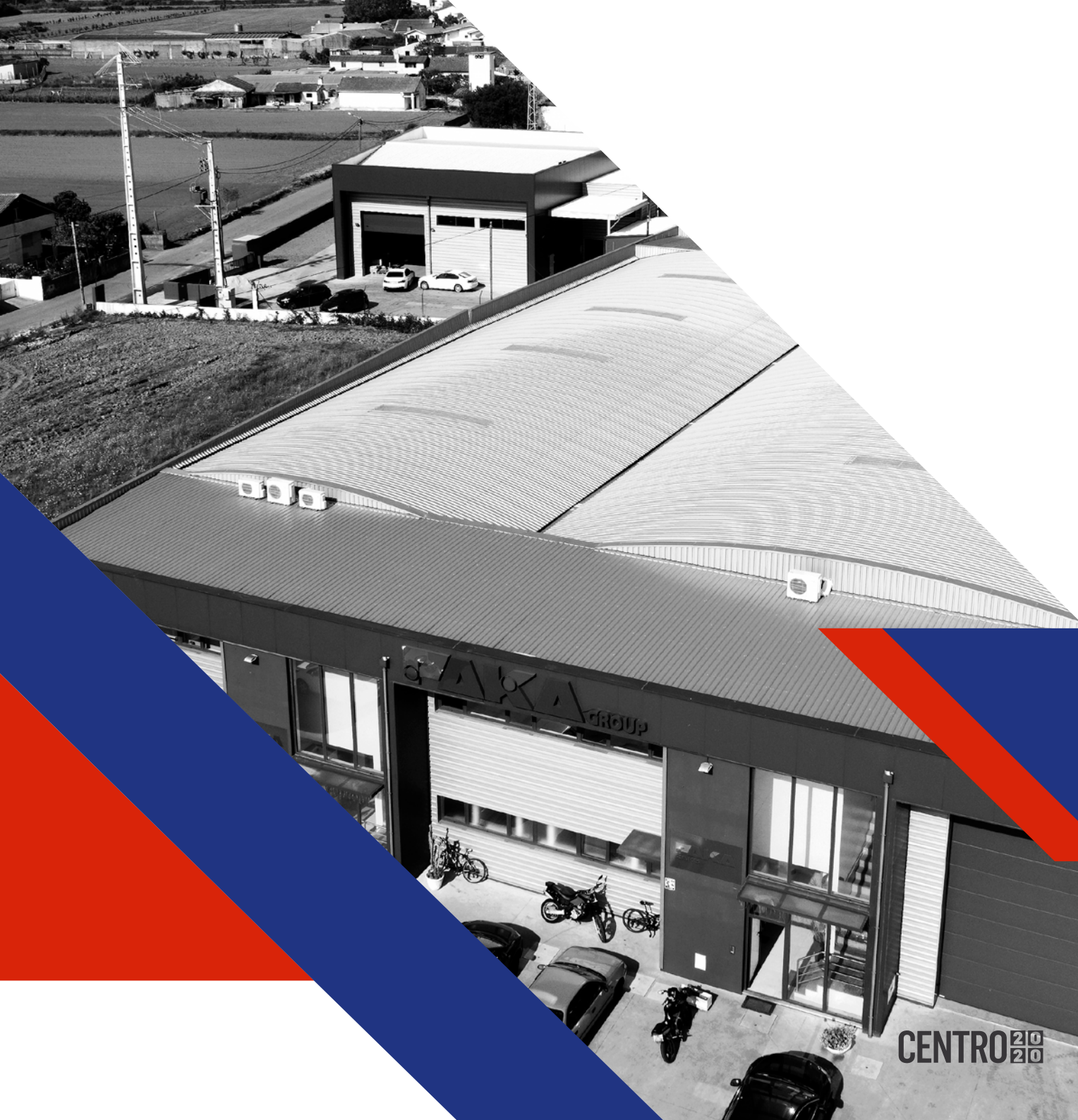
Maximum range | 3281 (mm)
Maximum load | 20 kg

NOTES



Lined area for notes, consisting of 20 horizontal gray lines.

We reserve the right to make changes to products, images and technical
features without prior notice.
The possibility of printing errors is safeguarded.
All rights reserved.



PAKA GROUP



Paka Robotics, Lda.
Rua Carvalho de Baixo, N.º 1024
Armazém Norte
3880-571, Válega
Portugal



+351 256 098 837



geral@paka.pt
www.paka.pt



CENTRO2020

PORTUGAL
2020



UNIÃO EUROPEIA
Fundo Europeu
de Desenvolvimento Regional