

Enmair Precision industrial robot series

Six joint robot/system integration

ENMAIR ROBOT 2024@V2.0















We will help upgrade the manufacturing industry option: Waterproof/explosion-proof/anti-static



ENMAIR Robots Unlimited possibilities

Solve different space scope and appearance selection requirements Provide ultra high precision and high speed operation process

From a screw to the whole machine, strict implementation and testing standards are formulated. Each robot passes 200 hours of uninterrupted testing and inspection before arriving at the use site, ensuring the reliability of each robot delivered to customers







ENMAIR Provide FA improvement plan

Guaranteed Enterprise Labor Force

Reduce labor costs

Reduction of fault phenomena

Simplified production changes

Stabilizing product quality

Further improve production efficiency

Can correspond to different product

varieties

To become a cutting-edge factory for automated production

Enmair's leading industrial roboticists

Can effectively help enterprises to upgrade the production line and solve the production site of all kinds of confusion and diversified needs

Focus on customer delivery value

Industrial roboticists



Robot Introduction



www.enmair-robot.com



Enmair series robots

Sp	Specification		Motion Radius								
Six	Six joint robot		R350mm	R500mm	R600mm	R700mm	R800mm	R900mm	R1000mm	R1400mm	R1700mm
	2KG			ED-500							
	3KG		ED-350		ED-600		ED-800				
load	6KG	model-				ED-700					
loau	8KG	moder-						ED-900	ED-1000		
	10KG									ER-10	
	20kg										ER-20
			R2100mm								
	50kg		ER-50								
	60kg		ER-60								
	70kg		ER-70								

Selection of retrieval



Enmair series robots

Sp	Specification		Motion Radius							
Six	Six joint robot		R3100mm							
	100KG		ER-100							
	120KG		ER-120							
load		model								
loau		moder								
		-								
		-								
		_								





ED**-500**

Maximum load is 2kg

The highest repeat positioning accuracy is $\pm 0.02 \text{mm}$

МО	DEL	ED-500
Repea	tability	±0.02mm
Config	juration	6
Maxim	um load	2kg
Motion	ı radius	502mm
	J1	297°/s
	J2	198°/s
	J3	240°/s
Speed	J4	148.5°/s
	J5	600°/s
	J6	600°/s
	J1	±160°
	J2	-160° ~ +63°
	J3	-52.5°~ +146°
Motion Range	J4	±167.8°
	J5	±135°
	J6	±360°
We	ight	12.8kg
Motor	Ratings	650W
Protection	on grade	IP54
Mounting Co	onfigurations	Countertop/wall/ceiling





ED**-350**

Maximum load is 3kg

The highest repeat positioning accuracy is ±0.02mm

МО	DEL	ED-350
Repeat	tability	±0.02mm
Config	uration	6
Maximu	ım load	3kg
Motion	ı radius	355mm
	J1	370°/s
	J2	246.9°/s
Speed	J3	247.5°/s
Speed	J4	294°/s
	J5	600°/s
	J6	600°/s
	J1	±175°
	J2	-121° ~ +90°
Motion Range	J3	-55°~ +164°
Wotton Kange	J4	±166.6°
	J5	-41°~ +221°
	J6	±360°
Wei	ight	14.6kg
Motor	Ratings	900W
Protection	on grade	IP54
Mounting Co	onfigurations	Countertop/wall/ceiling





ED**-600**

Maximum load is 3kg

The highest repeat positioning accuracy is ± 0.02 mm

МО	DEL	ED-600
Repea	tability	±0.02mm
Config	uration	6
Maximu	ım load	3kg
Motion	radius	600mm
	J1	247.5°/s
	J2	231.8°/s
Speed	J3	297°/s
Speed	J4	300°/s
	J5	600°/s
	J6	600°/s
	J1	±160°
	J2	-110° ~ +50°
Motion Range	J3	-36°~ +140°
Wollon Kange	J4	±112°
	J5	±120°
	J6	±360°
Wei	ight	23kg
Motor	Ratings	1450W
Protection	on grade	IP54
Mounting Co	onfigurations	Countertop/wall/ceiling





ED**-800**

Maximum load is 3kg

The highest repeat positioning accuracy is ± 0.02 mm

МО	DEL	ED-800
Repea	tability	±0.02mm
Config	uration	6
Maximu	um load	3kg
Motior	n radius	819mm
	J1	247.5°/s
	J2	231.8°/s
Speed	J3	297°/s
Speed	J4	300°/s
	J5	600°/s
	J6	600°/s
	J1	±160°
	J2	-110° ~ +50°
Motion Pango	J3	-36°~ +140°
Motion Range	J4	±112°
	J5	±120°
	J6	±360°
We	ight	25kg
Motor	Ratings	1450W
Protection	on grade	IP54
Mounting Co	onfigurations	Countertop/wall/ceiling





ED**-800**

Maximum load is 6kg

The highest repeat positioning accuracy is ± 0.02 mm

MOI	DEL	ED-800
Repea	tability	±0.02mm
Config	uration	6
Maximu	ım load	6kg
Motion	n radius	850mm
	J1	297.5°/s
	J2	138.5°/s
Speed	J3	166°/s
Speed	J4	367.5°/s
	J5	187.5°/s
	J6	600°/s
	J1	±170.5°
	J2	-115.5° ~ +69°
Motion Range	J3	-50°~ +203.5°
Wotton Kange	J4	±270°
	J5	-127° ~ +135°
	J6	±360°
Wei	ight	50kg
Motor	Ratings	2450W
Protection	on grade	IP54
Mounting Co	onfigurations	Countertop/wall/ceiling





ED**-900**

Maximum load is 8kg

The highest repeat positioning accuracy is ± 0.02 mm

MOI	DEL	ED-900
Repeat	tability	±0.02mm
Config	uration	6
Maximu	ım load	8kg
Motion	ı radius	904.4mm
	J1	297.5°/s
	J2	138.5°/s
Speed	J3	166°/s
Speed	J4	367.5°/s
	J5	187.5°/s
	J6	600°/s
	J1	±170.5°
	J2	-115.5° ~ +69°
Motion Range	J3	-50°~ +203.5°
Motion Range	J4	±270°
	J5	-127° ~ +135°
	J6	±360°
We	ight	50kg
Motor	Ratings	2800W
Protection	on grade	IP54
Mounting Co	onfigurations	Countertop/wall/ceiling





ED**-1000**

Maximum load is 8kg

The highest repeat positioning accuracy is ± 0.02 mm

MOI	DEL	ED-1000
Repea	tability	±0.02mm
Config	uration	6
Maximi	um load	6kg/8kg
Motion	ı radius	1004mm
	J1	297.5°/s
	J2	138.5°/s
Speed	J3	166°/s
Speed	J4	367.5°/s
	J5	187.5°/s
	J6	600°/s
	J1	±170.5°
	J2	-115.5° ~ +69°
Motion Range	J3	-50°~ +203.5°
Wotton Kange	J4	±270°
	J5	-127° ~ +135°
	J6	±360°
Wei	ight	50kg
Motor	Ratings	2800W
Protection	on grade	IP54
Mounting Co	onfigurations	Countertop/wall/ceiling





ER-10

Maximum load is 10kg

The highest repeat positioning accuracy is ± 0.05 mm

МО	DEL	ER-10
Repea	tability	±0.05mm
Config	uration	6
Maximu	ım load	10kg
Motion	ı radius	1400mm
	J1	173°/s
	J2	171°/s
Speed	J3	173°/s
Speed	J4	370°/s
	J5	297°/s
	J6	375°/s
	J1	±165°
	J2	-165° ~ +71°
Motion Range	J3	-83°~ +147°
Wiotion Range	J4	±157°
	J5	+105°
	J6	±360°
Wei	ight	150kg
Motor	Ratings	5300W
Protection	on grade	IP54
Mounting C	onfigurations	Countertop





ER**-20**

Maximum load is 20kg

The highest repeat positioning accuracy is ± 0.05 mm

MOI	DEL	ER-20
Repeat	tability	±0.05mm
Config	uration	6
Maximu	ım load	20kg
Motion	ı radius	1700mm
	J1	163°/s
	J2	162°/s
Speed	J3	173°/s
Speed	J4	257.2°/s
	J5	297°/s
	J6	375°/s
	J1	±166°
	J2	-157° ~ +75°
Motion Range	J3	-85°~ +150°
Wotton Kange	J4	±162°
	J5	+105°
	J6	±360°
Wei	ight	235kg
Motor	Ratings	6350W
Protection	on grade	IP54
Mounting Co	onfigurations	Countertop





ER-50/60/70

Maximum load is 50/60/70kg

The highest repeat positioning accuracy is ± 0.08 mm

MO	DEL	ER-50/ER-60/ER-70
Repea	tability	±0.08mm
Config	uration	6
Maximu	ım load	50/60/70kg
Motion	ı radius	2100mm
	J1	132°/s
	J2	104°/s
Speed	J3	104°/s
speed	J4	237°/s
	J5	171°/s
	J6	171°/s
	J1	±170°
	J2	-90° ~ +140°
Motion Range	J3	-135°~ +80°
Wollon Kange	J4	±180°
	J5	+120°
	J6	±350°
We	ight	700-750kg
Motor	Ratings	12KW/13KW/14.5KW
Protection	on grade	IP54
Mounting Co	onfigurations	Countertop





ER-100/120

Maximum load is 100/120kg

The highest repeat positioning accuracy is ±0.1mm

MODEL		ER-100/ER-120
Repeatability		±0.1mm
Configuration		6
Maximum load		100/120kg
Motion radius		3100mm
Speed	J1	85.7°/s
	J2	105°/s
	J3	128.5°/s
	J4	180.5°/s
	J5	180°/s
	J6	173°/s
Motion Range	J1	±180°
	J2	-80° ~ +60°
	J3	-77°~ +154°
	J4	±180°
	J5	+125°
	J6	±360°
Weight		1310kg
Motor Ratings		25/28KW
Protection grade		IP54
Mounting Configurations		Countertop/wall/ceiling



ENM-6000



Enmair robot controller is an innovative product, based on the CNC control core, the algorithm includes six joint robot, six joints used in robot control, with series controller adopts the same software interface, reduce the burden of learning, the ways of application of the elastic can be widely used in a variety of purposes, rich communication function, is the best tool for automated integration.

Special point

Built in a variety of six-joint robot algorithms, conversion of various coordinates

Provides instructional programming, 30 minutes to learn the basics

G code and complete program grammar programming, can be real-time calculation of the motion path in the program grammar

CAM roll-out programs can be imported for engraving purposes

Support composite path and welding machine analog control, suitable for welding purposes

Built - in software PLC, can be used for real-time monitoring of the body and surrounding

Open man-machine editing, editing the operating picture according to the scene environment

Provide a communication function library to connect to a cloud system

Communication module can be loaded to connect various visual systems and communication peripherals

Two auxiliary axes can be controlled to merge interpolation with the body path

PC side 3D simulation software, improve development efficiency and security

Bus control

Drag the teach

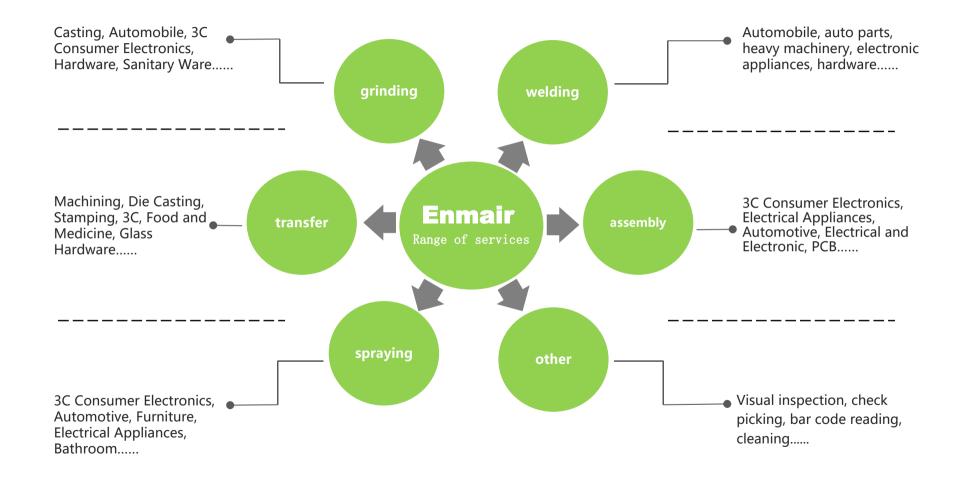
Off-line programming

Visual guide Moment of perception

The simulation software

Additional multi-axis



















Let your production be much simpler!

In Enmair , our engineers have a close cooperationwith global customers, provide and design steady, high-efficiency equipments and system solutions all the time. We pay attention to every subtle link to optimize your production process and improve production efficiency via professional technology service and strict control & monitor of product quality.



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