

# ***Enmair Precision industrial robot series***

*Six joint robot/system integration*

*ENMAIR ROBOT  
2024@V2.0*



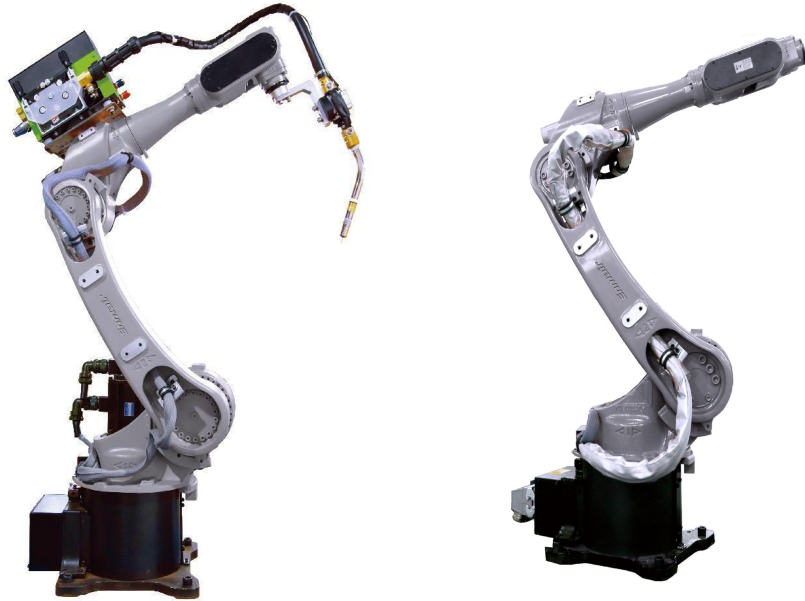
*We will help upgrade the manufacturing industry  
option: Waterproof/explosion-proof/anti-static*



## **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*



## Enmair series robots

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

*Selection of retrieval*

**Enmair series robots**

Specification			Motion Radius								
Six joint robot			R3100mm								
load	100KG	model	ER-100								
	120KG		ER-120								

*Selection of retrieval*

- High precision
- High reliability
- High speed

Maximum load is 2kg

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

### Specifications



**ED-500**

MODEL		ED-500
Repeatability		$\pm 0.02\text{mm}$
Configuration		6
Maximum load		2kg
Motion radius		502mm
Speed	J1	297°/s
	J2	198°/s
	J3	240°/s
	J4	148.5°/s
	J5	600°/s
	J6	600°/s
Motion Range	J1	$\pm 160^\circ$
	J2	$-160^\circ \sim +63^\circ$
	J3	$-52.5^\circ \sim +146^\circ$
	J4	$\pm 167.8^\circ$
	J5	$\pm 135^\circ$
	J6	$\pm 360^\circ$
Weight		12.8kg
Motor Ratings		650W
Protection grade		IP54
Mounting Configurations		Countertop/wall/ceiling

- High precision
- High reliability
- High speed

Maximum load is 3kg

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

### Specifications



**ED-350**

MODEL		ED-350
Repeatability		$\pm 0.02\text{mm}$
Configuration		6
Maximum load		3kg
Motion radius		355mm
Speed	J1	370°/s
	J2	246.9°/s
	J3	247.5°/s
	J4	294°/s
	J5	600°/s
	J6	600°/s
Motion Range	J1	$\pm 175^\circ$
	J2	$-121^\circ \sim +90^\circ$
	J3	$-55^\circ \sim +164^\circ$
	J4	$\pm 166.6^\circ$
	J5	$-41^\circ \sim +221^\circ$
	J6	$\pm 360^\circ$
Weight		14.6kg
Motor Ratings		900W
Protection grade		IP54
Mounting Configurations		Countertop/wall/ceiling



- High precision
- High reliability
- High speed

Maximum load is 3kg

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

### Specifications



**ED-600**

MODEL		ED-600
Repeatability		$\pm 0.02\text{mm}$
Configuration		6
Maximum load		3kg
Motion radius		600mm
Speed	J1	247.5°/s
	J2	231.8°/s
	J3	297°/s
	J4	300°/s
	J5	600°/s
	J6	600°/s
Motion Range	J1	$\pm 160^\circ$
	J2	$-110^\circ \sim +50^\circ$
	J3	$-36^\circ \sim +140^\circ$
	J4	$\pm 112^\circ$
	J5	$\pm 120^\circ$
	J6	$\pm 360^\circ$
Weight		23kg
Motor Ratings		1450W
Protection grade		IP54
Mounting Configurations		Countertop/wall/ceiling

- High precision
- High reliability
- High speed

Maximum load is 3kg

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



**ED-800**

### Specifications

MODEL		ED-800
Repeatability		$\pm 0.02\text{mm}$
Configuration		6
Maximum load		3kg
Motion radius		819mm
Speed	J1	247.5°/s
	J2	231.8°/s
	J3	297°/s
	J4	300°/s
	J5	600°/s
	J6	600°/s
Motion Range	J1	$\pm 160^\circ$
	J2	$-110^\circ \sim +50^\circ$
	J3	$-36^\circ \sim +140^\circ$
	J4	$\pm 112^\circ$
	J5	$\pm 120^\circ$
	J6	$\pm 360^\circ$
Weight		25kg
Motor Ratings		1450W
Protection grade		IP54
Mounting Configurations		Countertop/wall/ceiling

- High precision
- High reliability
- High speed

Maximum load is 6kg

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



**ED-800**

### Specifications

MODEL		ED-800
Repeatability		$\pm 0.02\text{mm}$
Configuration		6
Maximum load		6kg
Motion radius		850mm
Speed	J1	297.5°/s
	J2	138.5°/s
	J3	166°/s
	J4	367.5°/s
	J5	187.5°/s
	J6	600°/s
Motion Range	J1	$\pm 170.5^\circ$
	J2	$-115.5^\circ \sim +69^\circ$
	J3	$-50^\circ \sim +203.5^\circ$
	J4	$\pm 270^\circ$
	J5	$-127^\circ \sim +135^\circ$
	J6	$\pm 360^\circ$
Weight		50kg
Motor Ratings		2450W
Protection grade		IP54
Mounting Configurations		Countertop/wall/ceiling

- High precision
- High reliability
- High speed

Maximum load is 8kg

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



**ED-900**

### Specifications

MODEL		ED-900
Repeatability		$\pm 0.02\text{mm}$
Configuration		6
Maximum load		8kg
Motion radius		904.4mm
Speed	J1	297.5°/s
	J2	138.5°/s
	J3	166°/s
	J4	367.5°/s
	J5	187.5°/s
	J6	600°/s
Motion Range	J1	$\pm 170.5^\circ$
	J2	$-115.5^\circ \sim +69^\circ$
	J3	$-50^\circ \sim +203.5^\circ$
	J4	$\pm 270^\circ$
	J5	$-127^\circ \sim +135^\circ$
	J6	$\pm 360^\circ$
Weight		50kg
Motor Ratings		2800W
Protection grade		IP54
Mounting Configurations		Countertop/wall/ceiling

- High precision
- High reliability
- High speed

Maximum load is 8kg

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



**ED-1000**

### Specifications

MODEL		ED-1000
Repeatability		$\pm 0.02\text{mm}$
Configuration		6
Maximum load		6kg/8kg
Motion radius		1004mm
Speed	J1	297.5°/s
	J2	138.5°/s
	J3	166°/s
	J4	367.5°/s
	J5	187.5°/s
	J6	600°/s
Motion Range	J1	$\pm 170.5^\circ$
	J2	$-115.5^\circ \sim +69^\circ$
	J3	$-50^\circ \sim +203.5^\circ$
	J4	$\pm 270^\circ$
	J5	$-127^\circ \sim +135^\circ$
	J6	$\pm 360^\circ$
Weight		50kg
Motor Ratings		2800W
Protection grade		IP54
Mounting Configurations		Countertop/wall/ceiling

- High precision
- High reliability
- High speed

Maximum load is 10kg

The highest repeat positioning accuracy is  $\pm 0.05\text{mm}$

### Specifications



**ER-10**

MODEL		ER-10
Repeatability		$\pm 0.05\text{mm}$
Configuration		6
Maximum load		10kg
Motion radius		1400mm
Speed	J1	173°/s
	J2	171°/s
	J3	173°/s
	J4	370°/s
	J5	297°/s
	J6	375°/s
Motion Range	J1	$\pm 165^\circ$
	J2	$-165^\circ \sim +71^\circ$
	J3	$-83^\circ \sim +147^\circ$
	J4	$\pm 157^\circ$
	J5	$+105^\circ$
	J6	$\pm 360^\circ$
Weight		150kg
Motor Ratings		5300W
Protection grade		IP54
Mounting Configurations		Countertop

- High precision
- High reliability
- High speed

Maximum load is 20kg

The highest repeat positioning accuracy is  $\pm 0.05\text{mm}$



**ER-20**

### Specifications

MODEL		ER-20
Repeatability		$\pm 0.05\text{mm}$
Configuration		6
Maximum load		20kg
Motion radius		1700mm
Speed	J1	163°/s
	J2	162°/s
	J3	173°/s
	J4	257.2°/s
	J5	297°/s
	J6	375°/s
Motion Range	J1	$\pm 166^\circ$
	J2	$-157^\circ \sim +75^\circ$
	J3	$-85^\circ \sim +150^\circ$
	J4	$\pm 162^\circ$
	J5	$+105^\circ$
	J6	$\pm 360^\circ$
Weight		235kg
Motor Ratings		6350W
Protection grade		IP54
Mounting Configurations		Countertop

- High precision
- High reliability
- High speed

Maximum load is 50/60/70kg

The highest repeat positioning accuracy is  $\pm 0.08\text{mm}$



**ER-50/60/70**

### Specifications

MODEL		ER-50/ER-60/ER-70
Repeatability		$\pm 0.08\text{mm}$
Configuration		6
Maximum load		50/60/70kg
Motion radius		2100mm
Speed	J1	132°/s
	J2	104°/s
	J3	104°/s
	J4	237°/s
	J5	171°/s
	J6	171°/s
Motion Range	J1	$\pm 170^\circ$
	J2	$-90^\circ \sim +140^\circ$
	J3	$-135^\circ \sim +80^\circ$
	J4	$\pm 180^\circ$
	J5	$+120^\circ$
	J6	$\pm 350^\circ$
Weight		700-750kg
Motor Ratings		12KW/13KW/14.5KW
Protection grade		IP54
Mounting Configurations		Countertop



- High precision
- High reliability
- High speed

Maximum load is 100/120kg

The highest repeat positioning accuracy is  $\pm 0.1\text{mm}$

### Specifications



**ER-100/120**

MODEL		ER-100/ER-120
Repeatability		$\pm 0.1\text{mm}$
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	$\pm 180^\circ$
	J2	$-80^\circ \sim +60^\circ$
	J3	$-77^\circ \sim +154^\circ$
	J4	$\pm 180^\circ$
	J5	$+125^\circ$
	J6	$\pm 360^\circ$
Weight		1310kg
Motor Ratings		25/28KW
Protection grade		IP54
Mounting Configurations		Countertop/wall/ceiling



Casting, Automobile, 3C  
Consumer Electronics,  
Hardware, Sanitary Ware.....

grinding

Automobile, auto parts,  
heavy machinery, electronic  
appliances, hardware.....

welding

Machining, Die Casting,  
Stamping, 3C, Food and  
Medicine, Glass  
Hardware.....

transfer

**Enmair**  
Range of services

3C Consumer Electronics,  
Electrical Appliances,  
Automotive, Electrical and  
Electronic, PCB.....

assembly

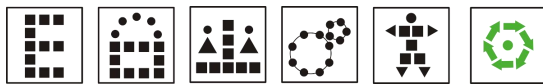
3C Consumer Electronics,  
Automotive, Furniture,  
Electrical Appliances,  
Bathroom.....

spraying

Visual inspection, check  
picking, bar code reading,  
cleaning.....

other





*Let your production be much simpler!*

In Enmair , our engineers have a close cooperation with 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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