









Robot 1 series

Cost Savings through Intelligent Robotization for the 21st Century

GENERAL CATALOG

Advantage of using robots

• FANUC Robots will provide your factories with a wide range of advantages.

Increased Productivity

- Robots are able to handle products that are too heavy and unsafe for humans to lift.
- Robots are able to operate faster than humans.
- Robots can work nights, weekends, holidays, and in "lights out" facilities without a rest.

Higher Product Quality

- Robots are more accurate than manual labor.
- Robots provide higher product quality more consistently than manual labor.

Improved Work Reliability

- Robots are highly durable and can be relied on for a long-term operation.
- Robots are able to perform complex tasks and operations on behalf of humans.
- No sudden surprises such as sick leave or retirement exists.

Reduced Costs

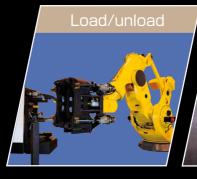
- Replacing manual operations with robots can reduce personnel costs.
- Easier system or process changeover can be realized.





Various application of robots

- FANUC has a wide range of robot types and models available for various applications.
- Various features are available for FANUC robots to make a maximum use of robot flexibilities.









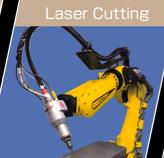
















FANUC Robot i series



Collaborative Robot

FANUC Robot CRX	(series	CRX-5iA	CRX-10iA	CRX-10iAL	CRX-20iAL	CRX-25iA		
	Controlled axes			6				
	Max.payload at wrist	5kg	10	kg	20kg	25kg(Max.30kg)		
>	Motion range(X,Y)	994mm, 1988mm (To end of flange) (J4=+90deg.)	1249mm, 2498mm (To end of flange) (J4=+90deg.) 1418mm, 2836mm (To end of flange) (J4=+90deg.)		of flange)	1889mm, 3778mm (To end of flange) (J4=+90deg.)		
IN T	Repeatability	±0.03mm		±0.04mm		±0.05mm		
X	Mass	25kg	40	kg	41kg	135kg		
	Installation		Floo	or, Upside-down, Ar	igle			
	Matching controller			R-30iB Mini Plus				
Application			Handling, Assembling, Arc welding					
•			Handiin	g, Assembling, Arc	weiding			
FANUC Robot CR-	•		Handiin	CR-35 <i>i</i> B	weiding			
FANUC Robot CR-	•		Handiin		welding			
FANUC Robot CR-	35ів			CR-35 <i>i</i> B	welding			
FANUC Robot CR-	35iB Controlled axes		1831mm (3	CR-35 <i>i</i> B	e), 3266mm			
FANUC Robot CR-	35 <i>i</i> B Controlled axes Max.payload at wrist		1831mm (3	CR-35 <i>i</i> B 6 35kg (Max.50kg) 35kg payload mode	e), 3266mm			
FANUC Robot CR-	35/B Controlled axes Max.payload at wrist Motion range(X,Y)		1831mm (3	CR-35;B 6 35kg (Max.50kg) 85kg payload mode 50kg payload mode	e), 3266mm			
FANUC Robot CR-	35/B Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability		1831mm (3	CR-35iB 6 35kg (Max.50kg) 35kg payload mode 50kg payload mode ±0.03mm	e), 3266mm			
FANUC Robot CR-	35iB Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass		1831mm (t 1643mm (t	CR-35 <i>i</i> B 6 35kg (Max.50kg) 35kg payload mode 50kg payload mode ±0.03mm 386kg), 3266mm), 3266mm			

SCARA Robot

FANUC Robot SR	series	SR-3iA	SR-3iA/H	SR-6iA	SR-6iA/H	SR-12 <i>i</i> A	SR-20 <i>i</i> A	
	Controlled axes	4	3	4	3	4	4	
	Max.payload at wrist	3	kg	6	kg	12kg	20kg	
	Motion range(X,Y)	400mm	, 800mm	650mm,	1300mm	900mm, 1800mm	900mm, 1800mm 1100mm, 2200mm	
	Stroke(Z)	200	Omm	210)mm	300mm(opt	ion:450mm)	
1 march	J1+J2 axis			±0.01mm			±0.02mm	
	Repeatability J3 stroke			±0.0	1mm			
	J4 axis	±0.004°		±0.004°		±0.0	005°	
	Mass	19kg	17kg	30kg	28kg	53kg	64kg	
	Installation				, Wall			
X	Matching controller				mpact Plus			
· ·	Application			Han	dling			
_								
FANUC Robot SR series		00.0	3 · A /O	00.0	(0	00.0	A /I I	
FANUC Robot SR		SR-3	BiA/C	SR-6	SiA/C	SR-3	₿iA/U	
FANUC Robot SR	Controlled axes				4			
FANUC Robot SR	Controlled axes Max.payload at wrist	3	lkg	6	4 kg	31	kg	
FANUC Robot SR	Controlled axes Max.payload at wrist Motion range(X,Y)	3 400mm	kg , 800mm	650mm,	4 kg 1300mm	350mm,	kg , 700mm	
FANUC Robot SR	Controlled axes Max.payload at wrist Motion range(X,Y) Stroke(Z)	3 400mm	lkg	650mm, 210	4 kg 1300mm 0mm	350mm,	kg	
FANUC Robot SR	Controlled axes Max.payload at wrist Motion range(X,Y) Stroke(Z) J1+J2 axis	3 400mm	kg , 800mm	650mm, 210 ±0.0	4 kg 1300mm 0mm 11mm	350mm,	kg , 700mm	
FANUC Robot SR	Controlled axes Max.payload at wrist Motion range(X,Y) Stroke(Z) J1+J2 axis Repeatability J3 stroke	3 400mm	kg , 800mm	650mm, 210 ±0.0 ±0.0	4 kg 1300mm 0mm 11mm	350mm,	kg , 700mm	
FANUC Robot SR	Controlled axes Max.payload at wrist Motion range(X,Y) Stroke(Z) Repeatability J1+J2 axis J3 stroke J4 axis	3 400mm 200	ikg , 800mm Omm	650mm, 210 ±0.0 ±0.0 ±0.0	4 kg 1300mm 0mm 11mm 11mm	350mm, 140	kg , 700mm Omm	
FANUC Robot SR	Controlled axes Max.payload at wrist Motion range(X,Y) Stroke(Z) Repeatability J1+J2 axis J3 stroke J4 axis	3 400mm 200	ikg , 800mm Dmm	650mm, 210 ±0.0 ±0.0 ±0.0	4 kg 1300mm 0mm 11mm	350mm, 140	kg 700mm Omm	
FANUC Robot SR	Controlled axes Max.payload at wrist Motion range(X,Y) Stroke(Z) Repeatability J3 stroke J4 axis Installation	3 400mm 200	ikg , 800mm Dmm	650mm, 210 ±0.0 ±0.0 ±0.0 50.0	4 kg 1300mm 1300mm 11mm 11mm 1004°	350mm, 140	kg , 700mm Omm	
FANUC Robot SR	Controlled axes Max.payload at wrist Motion range(X,Y) Stroke(Z) Repeatability J1+J2 axis J3 stroke J4 axis	3 400mm 200	ikg , 800mm Omm 1 kg Floor	650mm, 210 ±0.0 ±0.0 ±0.0 50.0	4 kg 1300mm 0mm 11mm 11mm	33 350mm, 140 27 Cei	kg 700mm Omm	

Delta Robot

FANUC Robot M-11	A	/0.5A	/0.58	/0.5AL	/0.5SL	
	Controlled axes	6	4	6	4	
1 / \	Max.payload at wrist		0.5kg(op	tion: 1 kg)		
المهري ا	Motion range(X,Y)	φ280mm		φ420mm	, 150mm	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Repeatability	±0.02mm				
□ □ \ 	Mass(without stand)	17kg	14kg	20kg	17kg	
\ \8 \\\>	Installation			ing, Angle		
_ X _	Matching controller			Standard, open air)		
	Application	Handling, Assembling	Handling	Handling, Assembling	Handling	
FANUC Robot M-2	FANIIC Robot M-21A		BS	/3	SL	
	Controlled axes			4		
1 2 4	Max.payload at wrist			kg		
22	Motion range(X,Y)	φ800mm		φ1130mn	n 4∩∩mm	
1 4 //	Repeatability	фоссини		I3mm	11, -100111111	
l \//	Mass			Okg		
	Installation			ling		
	Matching controller	R-30 <i>i</i> E	Plus(A-cabinet)/R-30i	B Mate Plus(standard, op	en air)	
× X	Application	Handling				
	•					
FANIIC Pobot M-31A		/6	30	/14	Э П	
FANUC Robot M-3		/6		/1:		
FANUC Robot M-3	Controlled axes	4	1	3	3	
FANUC Robot M-3	Controlled axes Max.payload at wrist		1 ion:8kg)	3		
FANUC Robot M-3	Controlled axes Max.payload at wrist Motion range(X,Y)	4	4 ion:8kg) φ1350mr	3 12 n, 500mm	3	
FANUC Robot M-3	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability	6kg(opt	1 ion:8kg)	3 12 n, 500mm 3mm	3 kg	
FANUC Robot M-3	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass	6kg(opt	1 ion:8kg) φ1350mr ±0.0 Dkg	3 12 n, 500mm 3mm	3 kg	
FANUC Robot M-3	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass Installation	6kg(opt	4 ion:8kg)	12 n, 500mm 3mm 159	3 Ekg 5kg	
FANUC Robot M-3	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass Installation Matching controller	6kg(opt	4 ion:8kg)	12 n, 500mm 3mm 150 ling 3 Mate Plus(standard, op	3 Ekg 5kg	
FANUC Robot M-3	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass Installation	6kg(opt 160 R-30 <i>i</i> E	4 ion:8kg)	n, 500mm 3mm 158 Iing 8 Mate Plus(standard, op	3 Ikg 5kg en air)	
FANUC Robot M-3 FANUC Robot DR-3	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass Installation Matching controller Application	6kg(opt	4 ion:8kg)	12 n, 500mm 3mm 150 ling 3 Mate Plus(standard, op	3 Ikg 5kg en air)	
×	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass Installation Matching controller Application 3 iB Controlled axes	6kg(opt 160 R-30/E	4 ion:8kg)	n, 500mm 3mm 158 ling 3 Mate Plus(standard, op	3 Skg Skg en air)	
×	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass Installation Matching controller Application 3 i B Controlled axes Max.payload at wrist	6kg(opt 16(R-30/E /6 STA	4 ion:8kg)	n, 500mm 3mm 156 ling 8 Mate Plus(standard, op dling //8	3 kkg 5kg en air) 3L	
×	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass Installation Matching controller Application 3iB Controlled axes Max.payload at wrist Motion range(X,Y)	6kg(opt 160 R-30/E	14 ion:8kg)	n, 500mm 3mm 158 ling 3 Mate Plus(standard, opdling //8 4 88	3 kkg 5kg en air) 3L	
×	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass Installation Matching controller Application 3 iB Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Repeatability	6kg(opt 16α R-30;E /6 STA 6kg/1200mn	14 ion:8kg)	12 n, 500mm 3mm 159 B Mate Plus(standard, op dling /8 4 8 \$\phi\$1600mn	3 kkg 5kg en air) BL Kg n, 500mm	
×	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass Installation Matching controller Application 31B Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass	6kg(opt 16(R-30/E /6 STA	4 ion:8kg)	12 n, 500mm 3mm 15t ling 8 Mate Plus(standard, op dling /8 4 8 91600mn 3mm	3 kkg 5kg en air) BL Kg n, 500mm	
×	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass Installation Matching controller Application 3iB Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass Installation	6kg(opt 160 R-30 <i>i</i> E /6 STA 61 \$\phi\$1200mm	4 ion:8kg)	12 n, 500mm 3mm 158 ling 8 Mate Plus(standard, op dling / 8 4 88	Sikg Sikg Sikg Sien air) BL Kg n, 500mm	
×	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass Installation Matching controller Application 31B Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass	6kg(opt 16α R-30;E /6 STA 6kg/1200mn	4 ion:8kg)	12 n, 500mm 3mm 15t ling 8 Mate Plus(standard, op dling /8 4 8 91600mn 3mm	Sikg Sikg Sikg Sien air) BL Kg n, 500mm	

Mini Robot

FANUC Robot LR	Mate 200 i D	200 <i>i</i> D	/7L	/48	/14L			
FANUC Robot AR	C Mate 50 <i>i</i> D		//L					
FANUC Robot ER	-4 <i>i</i> A						ER-4iA	
		,		6		,		
	Max.payload at wrist	7	kg	4kg	14kg		4kg	
	Motion range(X,Y)	717mm, 1274mm	911mm, 1643mm	550mm, 970mm	911mm (load capacity<12kg), 820mm (load capacity≥12kg),		550mm, 970mm	
(())) ^Y	Repeatability			±0.0)1mm			
	Mass	25kg	27kg	20kg	27kg		20kg	
	Installation		Floor, Upside-down, Angle Floor, Upside-down, Angle					
	Matching controller	R-30 <i>i</i> B Ma	R-30iB Mate Plus(standard, open air) R-30iB Mate Plus(s					
' X '	Application	Handling, As	ssembling, Arc w	elding, Sealing, N	Mold release spray, Debu	rring	Handling, Assembling	
FANUC Robot LR	Mate 200 <i>i</i> D	/7WP		/7C	/7LC		/7H	
	Controlled axes			6			5	
	Max.payload at wrist			7	kg			
	Motion range(X,Y)	-	717mm, 1274mi	n	911mm, 1643mm	717	mm, 1274mm	
	Repeatability			±0.0)1mm			
	Mass		25kg		27kg		24kg	
	Installation			Floor, Upside	e-down, Angle			
	Matching controller		R-	30iB Mate Plus	(standard, open air)			
 - X - 	Application	Handling, Wa	shing	Handling, Assem	bling, Clean room		Handling	

Small/Medium Size Robot

FANUC Robot LR-	-10 <i>i</i> A	/10
Controlled axes		6
	Max.payload at wrist	10kg
	Motion range(X,Y)	1101mm, 1988mm
	Repeatability	±0.02mm
	Mass	46kg
	Installation	Floor, Upside-down, Angle
	Matching controller	R-30iB Mate Plus(standard, open air)
- X -	Application	Handling, Assembling, Sealing, Mold release spray, Deburring

Arc Welding Robot, Small/Medium Size Robot

FANUC Robot AR	C Mate 100 <i>i</i> D	/16S	ARC Mate 100iD	/10L	/8L		
FANUC Robot M-1	o <i>i</i> D	/105	M-10 <i>i</i> D/12	/ TOL	/oL		
	Controlled axes		(3	·		
	Max.payload at wrist	16kg	12kg	10kg	8kg		
	Motion range(X,Y)	1103mm, 1977mm	1441mm, 2616mm	1636mm, 3006mm	2032mm, 3762mm		
\ \(\frac{1}{2}\)	Repeatability	±0.0	2mm	±C	.03mm		
	Mass	145	5kg	150kg	180kg		
	Installation	Floo	or, Upside-down, Angle *	Floor, Upside-down for	4BK		
	Matching controller	R-30	OiB Plus(A-, B-cabinet),	R-30iB Mate Plus(star	ndard)		
X	Application	Ha	Handling, Assembling, Arc welding, Sealing, Deburring				
FANUC Robot AR	C Mate 120 <i>i</i> D	ARC Mate 120i	D //	DE .	/12L		
FANUC Robot ARC Mate 1201D FANUC Robot M-201D		M-20iD/25	/35		/12L		
FANUC Robot M-2	2010	IVI-LUID/ LU					
FANUC Robot M-2	Controlled axes	W-E01D/E3	(<u> </u> 6			
FANUC Robot M-2		25kg		6 5kg	12kg		
FANUG ROBOT M-2	Controlled axes		35	ikg	12kg 2272mm, 4343mm		
FANUC Robot M-2	Controlled axes Max.payload at wrist	25kg	35	ikg			
FANUG ROBOT M-	Controlled axes Max.payload at wrist Motion range(X,Y)	25kg 1831mm, 3461m	m 1831mm,	5kg , 3461mm			
FANUC ROBOT M-	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability	25kg 1831mm, 3461m	35 m 1831mm 25	5kg , 3461mm ±0.03mm			
FANUC ROBOT M-	Controlled axes Max.payload at wrist Motion range(X,Y) Repeatability Mass	25kg 1831mm, 3461m ±0.02mm	35 m 1831mm 25	okg , 3461mm ±0.03mm Okg e-down, Angle	2272mm, 4343mm		

Small/Medium Size Robot

FANUC Robot M-20 <i>i</i> B		/25	/25C	/358	
	Controlled axes		6		
	Max.payload at wrist	25	kg	35kg	
	Motion range(X,Y)	1853mm,	3345mm	1445mm, 2591mm	
I (()	Repeatability				
1 \ \f(1 \)	Mass	210	Okg	205kg	
	Installation		Floor, Upside-down, Angle		
	Matching controller		s(A-, B-cabinet), R-30iB Mate Plu		
X	Application	Handling, Assembling, Arc welding, Sealing, Deburing Handling, Assembling, Clean room Handling, Assembling, Arc welding, Sealing, Deburin			



Small/Medium Size Robot

FANUC Robot M-71	lo <i>i</i> D	/50M	/70					
FANUC Robot M-71	io <i>i</i> c			/12L	/20L	/20M	/508	/50H
	Controlled axes				3			5
	Max.payload at wrist	50kg	70kg	12kg	20kg	20kg	50kg	50kg
	Motion range(X,Y)	2606mm, 4758mm	2104mm, 3788mm	3123mm, 5609mm	3110mm, 5583mm	2582mm, 4609mm	1359mm, 2043mm	2003mm, 3451mm
	Repeatability	±0.06mm	±0.06mm ±0.03mm ±0.06mm			±0.	03mm	
	Mass	600kg	580kg	54	Okg	530kg	545kg	540kg
	Installation			Floor, Upside	e-down, Angle			Floor, Upside-down
	Matching controller		R-30 <i>i</i> B	Plus(A-, B-cal	oinet)/R-30iB I	Mate Plus(sta	andard)*	
X	Application			welding, Seali	ng, Spot weldir	g, Deburing,	Laser cutting	Handling
				* R-30 <i>i</i> B N	/late Plus cont	oller (standa	rd) is not ava	ilable for /50H
FANUC Robot M-80	00iA				/60			
	Controlled axes				6			
	Max.payload at wrist	60kg						
	Motion range(X,Y)	2040mm, 3221mm						
	Repeatability				±0.015mm			
ا ا کیگ ا	Mass				820kg			
	Installation				Floor			
X	Matching controller			R-30i	3 Plus(A-, B-ca	binet)		
*	Application		La	ser machining	, Handling, Ass	embling, Seal	ing	
FANUC Robot R-10	OOIA	/80F	/1	100F	/130F	/120	-7B	/80H
	Controlled axes			6		7		5
	Max.payload at wrist	80kg	10	00kg	130kg	120	kg	80kg
	Motion range(X,Y)		2230mr	n. 3738mm		2230mm. 3	3779mm 223	Omm. 3465mm
	Repeatability			,	±0.03mm	,		, , , , , , , , , , , , , , , , , , , ,
ا ﴿ رَا الْحِيْلِ الْحَالِي الْحَالِي الْحَالِي الْحَالِي الْحَالِي الْحَالِي الْحَالِي الْحَالِي ا	Mass	620kg	6	65kg	675kg	790	kg	610kg
	Installation				oor, Upside-dov	vn		
	Matching controller		Plus(A-, B-cat Mate Plus(sta		F	-30 <i>i</i> B Plus(A	-, B-cabinet)	
X	Application		Handling, A	Assembling, S	ealing, Spot we	lding		Handling

Large Size Robot

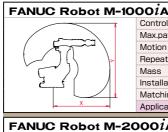
FANUC Robot R-20	000 <i>i</i> D	/100FH	/165FH	/210FH				
FANUC Robot R-20	000 <i>i</i> C				/165F	/210F	/240F	/125L
	Controlled axes				6			
	Max.payload at wrist	100kg	165kg	210kg	165kg	210kg	240kg	125kg
	Motion range(X,Y)	26	05mm, 3315	īmm	26	55mm, 3414r	nm	3100mm, 4304mm
	Repeatability				±0.05mm			
ا (ال	Mass		1150kg			1090kg		1115kg
125	Installation				Floor			
	Matching controller		R-30i	B Plus(A-, B-ca	binet)/R-30iB	Mate Plus(sta	indard)	
- ^ -	Application	Hand	lling, Assemb	ling, Sealing, S	pot welding, F	ress to press l	nandling, Deb	urring
FANUC Robot R-20	000 <i>i</i> C	/270F	/210L	/165R	/210R	/270R	/100P	/100PH
	Controlled axes				6			
	Max.payload at wrist	270kg(option:300kg)	210kg	165kg	210kg	270kg	10)Okg
	Motion range(X,Y)	2655mm, 3414mm 3100mm, 4304mm 3095mm, 4733mm			3540mm	3540mm, 5623mm		
	Repeatability				±0.05mm			
	Mass	1320kg	1350kg	137	'Okg	1590kg	1470kg	1495kg
[\(\sigma_{\sigma}\) \\	Installation	Flo	oor			Rack		
X X	Matching controller	R-30iB Plus(A-, B-cabinet)	R-30iB Plus(R-30iB Mate F		R-30 <i>i</i>	iB Plus(A-,B-cabinet)	
- ^ -	Application	Handling, Asse	mbling, Sealing	, Spot welding, Pre	ess to press han	dling, Deburring	Press to pr	ess handling
FANUC Robot R-20	000 <i>i</i> C	/190)S	/220U		/190U	/2	210WE
	Controlled axes				6			
	Max.payload at wrist	190	g	220kg		190kg	2	210kg
	Motion range(X,Y)	2040mm, 3	3170mm	2518mm, 3414	4mm 310	00mm, 4304mm	2450n	nm, 3415mm
	Repeatability	±0.03	mm		±0.05mm		±0	0.10mm
\ (\(\)	Mass	1120	kg	1020kg		1400kg	1	180kg
	Installation	Floor, Upsi	de-down		Upside-down			Floor
	Matching controller			R-30 <i>i</i> l	3 Plus(A-, B-c	abinet)		
X	Application	Handling, Asse	embling, Sealin	g, Spot welding, I	Press to press	handling, Deburr	ing W	ashing



Large Size Robot

FANUC Robot M-9	/360	/360E	/280L	/280	/330L	/700	/700E	/400L	
	Controlled axes	6							
	Max.payload at wrist	360	Okg	28	Okg	330kg	70	Okg	400kg
	Motion range(X,Y)	2655mm,	3308mm	3103mm, 4200mm	2655mm, 3308mm	3203mm, 3539mm	2832mm	, 3288mm	3704mm(*), 4621mm
	Repeatability	±0.1mm							
	Mass	154	-Okg	1600kg	1700kg	1780kg	2800kg	3030kg	3150kg
	Installation	F	loor, Upside	e-down, Angle	Э		Flo	oor	
	Matching controller	R-30iB Plus(A-,B-cabinet) R-30iB Plus(B-cab					ibinet)		
X	Application	Handling, Assembling, Sealing, Spot welding, Press to press handling, Deburring						ring	

*: Wrist motion is restricted when the wrist payload is over 300kg.



001A	IVI- TOOU:A
Controlled axes	6
Max.payload at wrist	1000kg
Motion range(X,Y)	3253mm, 4297mm
Repeatability	±0.10mm
Mass	5300kg
Installation	Floor
Matching controller	R-30iB Plus(A-,B-cabinet)
Application	Handling

FANUC Robot M

000 <i>i</i> A	/1200 /900L /2300		/1700L			
Controlled axes	6					
Max.payload at wrist	1200kg(option:1350kg)	900kg	2300kg	1700kg		
Motion range(X,Y)	3734mm, 4683mm	4683mm, 6209mm	3734mm, 4683mm	4683mm, 6209mm		
Repeatability		±0.18mm		±0.27mm		
Mass	8600kg	9600kg	11000kg	12500kg		
Installation		Flo	oor			
Matching controller		R-30iB Plus	A-, B-cabinet)			
Application		Hand	dling			

Palletizing Robot

FANUC Robot M-410 iC		/110		/185	/315	/500	
FANUC Robot M-410 iB			/140H				/700
A STATE OF THE STA	Controlled axes	4	5	4			
	Max.payload at wrist	110kg	140kg	185kg	315kg	500kg	700kg
	Motion range(X,Y)	2403mm, 2238mm	2850mm, 3546mm	3143mm, 2958mm			
	Repeatability	±0.05mm					
	Mass	1030kg	1200kg	Pedestal type 1600kg/*	1) No pedestal 1330kg(#2)	Pedestal type 2410kg(*1) No pedestal 1910kg(*2)	2700kg(*1)
	Installation	Floor					
	Matching controller	R-30iB Plus(A-, B-cabinet)					
-	Application	Handling					

 $^{*1:} Controller\ mass (120 kg)\ is\ included.\quad *2: Controller\ mass (120 kg)\ is\ not\ included.$

Paint Robot

FANUC Robot P-40 <i>i</i> A, 350 <i>i</i> A, 250 <i>i</i> B		P-40 <i>i</i> A	P-350 <i>i</i> A/45	P-250 <i>i</i> B/15		
	Controlled axes	6				
	Max.payload at wrist	5kg	45kg	15kg		
	Motion range(X,Y)	1300mm, 2308mm	2606mm, 4575mm	2800mm, 5272mm		
	Repeatability	±0.03mm	±0.03mm ±0.06mm			
	Mass	110kg	590kg	530kg		
	Installation	Floor, Upside-down, Wall, Rack, Angle	Floor, Upside-down, Wall, Rack, Angle	Floor, Upside-down, Wall, Rack, Angle		
	Matching controller	R-30iB Mate Plus	R-30iB Plus (A-cabinet)			
 	Application	Painting				
FANUC Robot P-10001A		P-1000 <i>i</i> A				
		7				
	Controlled axes		7			
n M	Controlled axes Max.payload at wrist	101	7 kg(1500mm/s), 15kg(1200mm	/s)		
			•	·		
	Max.payload at wrist		kg(1500mm/s), 15kg(1200mm	·		
	Max.payload at wrist Motion range(X,Y)		kg(1500mm/s), 15kg(1200mm mm(Metal arm) 3348mm, 4343	· · · · · · · · · · · · · · · · · · ·		
	Max.payload at wrist Motion range(X,Y) Repeatability		kg(1500mm/s), 15kg(1200mm nm(Metal arm) 3348mm, 4343 ±0.5mm	· · · · · · · · · · · · · · · · · · ·		
	Max.payload at wrist Motion range(X,Y) Repeatability Mass		kg(1500mm/s), 15kg(1200mm nm(Metal arm) 3348mm, 4343 ±0.5mm 700kg	· · · · · · · · · · · · · · · · · · ·		

Features of FANUC Robot

High Efficiency



Support Various Applications

High Reliability

Reliable

FANUC designs and manufacturers all robot components with the highest quality and durability, including mechanical arms, servo motors, controllers, software, and sensors.

Predictable

Diagnostic features can inform you of conditions in which a robot may fail, allowing for preventative maintenance on the robot before a failure.

High Efficiency

Learning Robot

The Learning Robot provides smooth and high-speed motion by suppressing robot vibration. This enhances the robot's productivity and the efficiency of a production line, which contributes to reduced overall system costs. Also the Learning Robot enhances the performance of handling a heavy

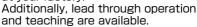


jig or workpiece, which causes robot vibration.

Support Various Applications

Collaborative Robot

The collaborative robot immediately and safely stops when it comes in contact with a human operator, allowing for safe operation in the same workspace without safety fences. This provides production efficiency and cost savings on labor at your factory.

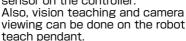




*i*RVision - Integrated Robot Vision

Vision hardware is integrated in the robot controller as standard. 2D compensation, 3D compensation, color sorting, error proofing, bar code reading, etc. can be realized just by connecting Camera or 3D sensor on the controller.

Also vision teaching and camera





Bin Picking

The Bin Picking Robot equipped with a vision sensor automates the picking process of randomly piled parts in a bin. The parts do not need to be arranged in advance, eliminating the need for positioning fixtures. It also allows for easy part changeover. The Bin Picking Robot enables unmanned part handling in your factories.



Zero Down Time

Zero Down Time combines various functions useful for preventive maintenance and helps to improve production efficiency by controlling these functions from a centralized server. This allows failures to be "Predictable".



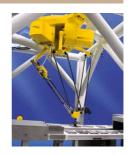


Easy to Repair

- · Robot mechanical units are designed for easy maintenance.
- Diagnostic features can estimate causes of failure, assisting your quick repair.

Visual Tracking

Through Visual Tracking the robot tracks and picks parts moving on a conveyor by utilizing the vision sensor located upstream. Multiple robots connected via a network can automatically divide the workload among the robots, allowing for automation in various picking and packing processes.



Network Function

OPC UA, MTConnect, Modbus communication etc. are supported. PC and PLC etc. can input/output robot data. ROS interface is also supported.



Force Sensor/Deburring-Polishing

The Six-Axis Force Sensor, equipped on the robot's wrist, enables a contouring motion of the robot tool while maintaining a designated pushing force to the part. The force-controlled robot contributes to automating processes such as deburring of machined part edges and polishing of part surfaces.



ROBOGUIDE

ROBOGUIDE is a powerful PC simulation software providing system layout, programming and accurate simulation tools for design and evaluation of various robot systems.



Controller

	R-30 <i>i</i> B Plus Controller		R-30iB Mini Plus	R-30 <i>i</i> B Mate	R-30iB Compact		
	A-Cabinet	B-Cabinet	Controller	Standard Type	Open Air Type	Plus Controller	
	S STATE OF S					00.71	
Rated Supply Voltage	200-575V AC +10% -15% 50/60Hz ±1Hz, 3-phase		NRTL(UL1740) 110-120V AC +10%, -15% 200-240V AC +10%, -15% Except NRTL(IEC60204-1) 100-120V AC +10%, -10% 200-240V AC +10%, -15% 50/60Hz ±1Hz 1-phase		+10% -15% 1-phase/3-phase	200-240V AC +10% -15% 50/60Hz ±1Hz, 1-phase	
Mass of Controller	120-140kg	180-200kg	20kg	40kg	20kg	9kg	
Dimensions (W×D×H)	600x470x500	740x550x1100	410x277x370	470x322x400 470x402x400 *1	370x350x200 370x350x356 *1	440x260x85.5	
Overvoltage Category / Pollution degree	Pollution Degree 3, Pol				Overvoltage Category I, Pollution Degree 2, *2 IEC60664-1, IEC/UL61010-1	Overvoltage Category II,II,*3 Pollution Degree 2, *2 IEC60664-1, IEC/UL61010-1	
Protection Class	IP54				IP20		
Emergency stop	Emergency stop function $PL=e$, Cat4(ISO13849-1) SIL3(IEC61508) Position/Speed check function $PL=d$, Cat3(ISO13849-1) SIL2(IEC61508)						
External Memory	USB, F	CMCIA	USB				
Fieldbus	FL-net, DeviceNet, F CC-Link IE, EtherNe	PROFIBUS, PROFINE t/IP, EtherCAT	T, CC-Link,	FL-net, DeviceNet, PROFIBUS, PROFINET, CC-Link, EtherNet/IP, EtherCAT Open Air Type also supports CC-Link IE. FL-net, DeviceNet, De			

^{*:}For the correspondence between robot models and controller, please check the description of each robot models.

Safety & Reliability

Industrial Standards Conformance for Safety and Environment

The FANUC Robot i series is manufactured at fully automated and robotized factories under strict quality control, and meets ISO:9001 certifications.

The FANUC Robot i series is compliant with the European, American, Korean, etc. safety standards, and has been certified with the CE, NRTL and KCs marking (with options for each specification). TÜV marking and TÜV EMC marking are attached when the European specification for the robot is chosen.



Service & Support

Excellent Maintenance Services



FANUC ACADEMY

FANUC ACADEMY offer a variety of intensive robot training courses, from introductory to advanced knowledge and skills for teaching, operation, engineering and maintenance of FANUC robots and their applications. Hands-on training provides your employees with the skills needed to operate and maintain your factory automation.

FANUC CORPORATION

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^{*1:}Dimension is varied due to robot types

^{*2:}This controller is an open air type, and should be installed in a "Pollution degree 2" environment regulated by IEC 60664-1, IEC/UL61010-1. "Pollution degree 2" means a clean, office-like environment.

^{*3:}Overvoltage Category II per IEC 60664-1. Overvoltage Category III per IEC/UL 61010-1.