

THE FACTORY AUTOMATION COMPANY

FANUC

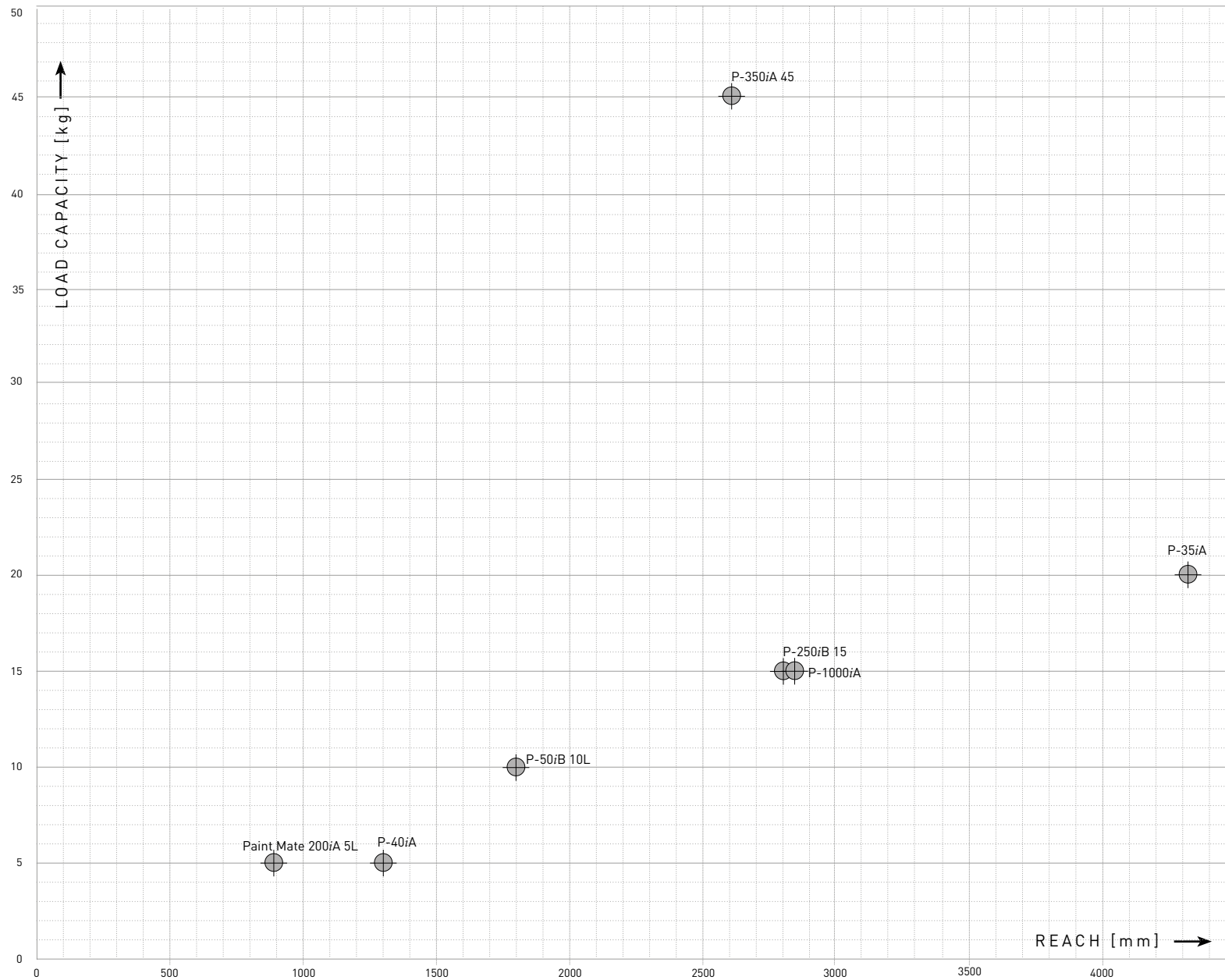
Robots

Product overview



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PAINT ROBOT



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Paint Robots



Paint Mate 200 Series



P-40 Series



P-50 Series



P-250 Series



P-350 Series



P-1000 Series

Available robot versions:

| | |
|---------------------|----------------|
| Paint Mate 200iA/5L | Standard model |
| P-20iB | Opener |
| P-35iA | Opener |
| P-40iA | Standard model |
| P-50iB/10L | Standard model |
| P-250iB/15 | Standard model |
| P-350iA/45 | Standard model |
| P-1000iA | Standard model |



| Robot | | | Controller | | | | | | Max. load capacity at wrist (kg) | Reach (mm) | Controlled axes | Repeatability (mm) | Mechanical weight (kg) | Motion range [°] | | | | | | | Maximum speed [°/s] | | | | | | | J4 Moment/ Inertia (Nm/kgm ²) | J5 Moment/ Inertia (Nm/kgm ²) | J6 Moment/ Inertia (Nm/kgm ²) | J7 Moment/ Inertia (Nm/kgm ²) | Average Power consumption (kW) | Protection | |
|----------------|---------|------|-------------|-----------------|------------------|--------------|-----------|-----------|----------------------------------|------------|-----------------|--------------------|------------------------|------------------|-----|-----|------|------|------|-----|---------------------|-----|-----|-----|-----|-------------|-------------|---|---|---|---|--------------------------------|-------------------------|-----------------------------------|
| Series | Version | Type | Version | | Cabinet type | | | | | | | | | J1 | J2 | J3 | J4 | J5 | J6 | J7 | J1 | J2 | J3 | J4 | J5 | J6 | J7 | | | | | | Body standard/ optional | Wrist & J3 arm standard/ optional |
| | | | R-30iB Plus | Compact cabinet | Open air cabinet | Mate cabinet | A-cabinet | B-cabinet | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paint Mate 200 | iA | 5L | ● | - | - | ● | - | - | 5 | 892 | 6 | ± 0.03 ** | 37 | 340 | 230 | 373 | 380 | 240 | 720 | 270 | 270 | 270 | 450 | 450 | 720 | 11.9/0.3 | 11.9/0.3 | 6.7/0.1 | 0.5 | *15) | | | | |
| P-40 | iA | | ● | - | - | ● | - | - | 5 | 1300 | 6 | ± 0.03 ** | 110 | 360 | 255 | 423 | 380 | 240 | 720 | 220 | 190 | 240 | 450 | 450 | 720 | 11.9/0.3 | 11.9/0.3 | 6.7/0.1 | 0.8 | *15) | | | | |
| P-50 | iB | 10L | ● | - | - | - | - | - | 10 | 1800 | 6 | ± 0.2 ** | 364 | 320 | 240 | 404 | 1080 | 1080 | 1080 | 140 | 140 | 160 | 375 | 430 | 545 | 43.35/1.954 | 36.86/1.413 | 4.90/0.025 | 0.8 | *15) | | | | |
| P-250 | iB | 15 | ● | - | - | - | ● | - | 15 | 2800 | 6 | ± 0.2 ** | 530 | 320 | 280 | 330 | 1080 | 1080 | 1080 | 160 | 160 | 160 | 375 | 430 | 545 | 65/3 | 55/2.1 | 11.5/0.35 | 3.5 | *15) | | | | |
| P-350 | iA | 45 | ● | - | - | - | ● | - | 45 | 2606 | 6 | ± 0.1 ** | 590 | 360 | 225 | 440 | 800 | 250 | 800 | 180 | 180 | 180 | 250 | 250 | 300 | 206/28 | 206/28 | 127/20 | 3.5 | *15) | | | | |
| P-1000 | iA | | ● | - | - | - | ● | - | 15 | 2896 | 7 | ± 0.08 ** | 584 | 220 | 150 | 240 | 145 | 1440 | 1440 | 125 | 125 | 120 | 120 | 200 | 200 | 200 | 65/3.0 | 55/2.1 | 11.5/0.35 | 3.5 | *15) | | | |
| Opener | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P-35 | iA | | ● | - | - | - | ● | - | 20 | 4318 | 5 | ± 0.08 ** | 716 | 220 | 370 | 590 | 270 | 360 | | | 75 | 100 | 100 | 50 | 50 | | | | | 3.5 | *15) | | | |
| P-20 | iB | *22 | ● | - | - | - | ● | - | 27-36 | 1125 | 3 | | 190 | 350 | 280 | *24 | | | | | | | | | | | | | | 3.5 | *15) | | | |
| P-20 | iB | *23 | ● | - | - | - | ● | - | 27-36 | 1475 | 3 | | 200 | 350 | 300 | *24 | | | | | | | | | | | | | | 3.5 | *15) | | | |

● standard ○ on request - not available () with hardware and/or software option *15) ATEX certified Cat. II Group 2G and 2D *22) 550 mm inner link arm *23) 900 mm inner link arm *24) Linear axis 385 mm ** Based on ISO9283



ROBOT SERIES

ARC WELDING

ARC MATE 50

ARC MATE 100

ARC MATE 120

PAINT

PAINT MATE 200

P-40

P-50

P-250

P-350

P-1000

P-20

Opener

P-20

P-35



| Version | | | iD | | | | | | | iA | | iB | iB | iA | iA | iB | iB | iA | | |
|---------------------------------|------------------------------------|-------------|------------|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------|----------|-------------|-----------|-----------|----------|-------|-------|----------|
| Type | | | - | 7L | 8L | 10L | 16S | - | 12L | 35 | - | 5L | | 10L | 15 | 45 | | *22 | *23 | |
| CONTROLLER | Controller Version | R-30iB Plus | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| | Compact | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | Open Air Cabinet | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | Mate Cabinet | | • | • | ○ | ○ | ○ | ○ | ○ | ○ | ○ | • | • | • | - | - | - | - | - | |
| | A-Cabinet | | - | - | • | • | ○ | • | • | ○ | • | - | - | - | • | • | • | • | • | |
| | B-Cabinet | | - | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ | - | - | - | - | - | - | - | - | |
| Max Load Capacity at wrist (kg) | | | 7 | 7 | 8 | 10 | 16 | 12 | 12 | 35 | 3 [25] | 5 | 5 | 10 | 15 | 45 | 15 | 27-36 | 27-36 | 20 |
| Reach (mm) | | | 717 | 911 | 2032 | 1636 | 1103 | 1441 | 2272 | 1831 | 1831 | 892 | 1300 | 1800 | 2800 | 2606 | 2896 | 1125 | 1475 | 4318 |
| Controlled axes | | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 3 | 3 | 3 | 5 |
| Repeatability (mm) | | | ± 0.018** | ± 0.018** | ± 0.03** | ± 0.03** | ± 0.02** | ± 0.02** | ± 0.03** | ± 0.03** | ± 0.02** | ± 0.03 | ± 0.2 | ± 0.2 | ± 0.2 | ± 0.1 | ± 0.08** | | | ± 0.08** |
| Mechanical weight (kg) | | | 25 | 27 | 180 | 150 | 140 | 145 | 250 | 250 | 250 | 37 | 110 | 364 | 530 | 590 | 584 | 190 | 200 | 716 |
| MOTION RANGE (°) | J1 | | 360 | 360 | 340 [370] | 340 [370] | 340 [370] | 340 [370] | 340 [370] | 340 [370] | 340 [370] | 340 | 360 | 320 | 320 | 360 | 220 | 350 | 350 | 220 |
| | J2 | | 245 | 245 | 235 | 235 | 235 | 235 | 260 | 260 | 260 | 230 | 255 | 240 | 280 | 225 | 150 | 280 | 300 | 370 |
| | J3 | | 420 | 430 | 455 | 455 | 455 | 455 | 458 | 458 | 458 | 373 | 423 | 404 | 330 | 440 | 240 | *24 | *24 | 590 |
| | J4 | | 380 | 380 | 380 | 380 | 380 | 380 | 400 | 400 | 400 | 380 | 380 | 1080 | 1080 | 800 | 145 | | | 270 |
| | J5 | | 250 | 250 | 280 [360] *21 | 280 [360] *21 | 280 [360] *21 | 280 [360] *21 | 280 [360] *21 | 280 [360] *21 | 280 [360] *21 | 240 | 240 | 1080 | 1080 | 250 | 1440 | | | 360 |
| | J6 | | 720 | 720 | 540 [900] *21 | 540 [900] *21 | 540 [900] *21 | 540 [900] *21 | 540 [900] *21 | 540 [900] *21 | 540 [900] *21 | 720 | 720 | 1080 | 1080 | 800 | 1440 | | | - |
| | J7 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1440 | | | - |
| MAXIMUM SPEED (°/S) | J1 | | 450 | 370 | 210 | 260 | 290 | 260 | 210 | 180 | 210 | 270 | 220 | 140 | 160 | 180 | 125 | 50 | 50 | 75 |
| | J2 | | 380 | 310 | 210 | 240 | 270 | 240 | 210 | 180 | 210 | 270 | 190 | 140 | 160 | 180 | 125 | 50 | 50 | 100 |
| | J3 | | 520 | 410 | 220 | 260 | 270 | 260 | 265 | 200 | 265 | 270 | 240 | 160 | 160 | 180 | 120 | 300 | 300 | 100 |
| | J4 | | 550 | 550 | 430 | 430 | 430 | 430 | 420 | 350 | 420 | 450 | 450 | 375 | 375 | 250 | 120 | | | 50 |
| | J5 | | 545 | 545 | 450 | 450 | 450 | 450 | 450 | 350 | 420 | 450 | 450 | 430 | 430 | 250 | 200 | | | 50 |
| | J6 | | 1000 | 1000 | 720 | 720 | 730 | 720 | 720 | 720 | 720 | 720 | 720 | 545 | 545 | 300 | 200 | | | - |
| | J7 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 200 | | | - |
| J4 Moment/Inertia (Nm/kgm²) | | | 16.6/0.47 | 16.6/0.47 | 16.1/0.63 | 22.0/0.65 | 26.0/0.90 | 26.0/0.90 | 22.0/0.65 | 110.0/4.0 | 52.0/2.4 | 11.9/0.3 | 11.9/0.3 | 43.35/1.954 | 65/3 | 206/28 | | | | |
| J5 Moment/Inertia (Nm/kgm²) | | | 16.6/0.47 | 16.6/0.47 | 16.1/0.63 | 22.0/0.65 | 26.0/0.90 | 26.0/0.90 | 22.0/0.65 | 110.0/4.0 | 52.0/2.4 | 11.9/0.3 | 11.9/0.3 | 36.86/1.413 | 55/2.1 | 206/28 | 65/3.0 | | | |
| J6 Moment/Inertia (Nm/kgm²) | | | 9.4/0.15 | 9.4/0.15 | 5.9/0.061 | 9.8/0.17 | 11.0/0.30 | 11.0/0.30 | 9.8/0.17 | 60.0/1.5 | 32.0/1.2 | 6.7/0.1 | 6.7/0.1 | 4.90/0.025 | 11.5/0.35 | 127/20 | 55/2.1 | | | |
| J7 Moment/Inertia (Nm/kgm²) | | | | | | | | | | | | | | | | 11.5/0.35 | | | | |
| Average power consumption [Kw] | | | 0.5 | 0.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0.5 | 0.8 | 0.8 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| PROTECTION | Body Standard/optional | | IP67/IP69K | IP67/IP69K | IP54 | IP54 | IP54 | IP54 | IP54 | IP54 | IP54 | *15] | *15] | *15] | *15] | *15] | *15] | *15] | *15] | *15] |
| | Wrist and J3 Arm Standard/optional | | IP67/IP69K | IP67/IP69K | IP67 | IP67 | IP67 | IP67 | IP67 | IP67 | IP67 | *15] | *15] | *15] | *15] | *15] | *15] | *15] | *15] | *15] |

• standard ○ on request - not available [] with hardware and/or software option *15] ATEX certified Cat. II Group 2G and 2D *21] Extended range for external cable type *22] 550 mm inner link arm *23] 900 mm inner link arm *24] Linear axis 385 mm ** Based on ISO9283