

YASKAWA

Robot Overview Roboterübersicht



MOTOMAN Industrial Robots

Suitable robot model for any application

Handling & Assembly | Handling & Montage

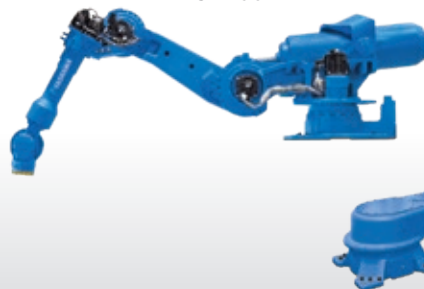
GP-series | MotoMINI | SDA-series | SIA-series | CSDA10F | HD-series | MPK-series

GP4
GP7
GP8
GP8L
GP12
GP25-12
GP20
GP20HL
GP25
GP35H
GP35L
GP50
GP70L
GP88

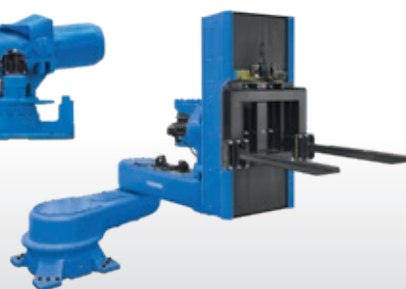
GP110
GP180-120
GP180
GP215-200T
GP215
GP250
GP280
GP400
GP600



GP120RL
GP165R
GP200R
GP300R
GP400R



ME1000



MotoMINI



SDA5F
SDA10F
SDA20F



SIA5F
SIA10F
SIA20F



CSDA10F
HD7
HD8



MPK2F
MPK2F-5



Welding | Schweißen

AR-series | SP-series | GA50 | GG250

Arc Welding |
Lichtbogenschweißen

AR700
AR900
AR1440
AR1730
AR2010
AR3120



Spot Welding |
Punktschweißen

SP80
SP100
SP165-105
SP150R
SP165
SP185R
SP210
SP235



Laser Welding |
Laserschweißen
GA50



Friction Stir Welding |
Rührreibschweißen
GG250



MOTOMAN Industrieroboter

Passendes Robotermodell für jede Anwendung

Pick&Place and Packaging | Pick&Place und Verpacken

GP-series | MotoMINI | SDA-series | SIA-series | CSDA10F | HD-series | MPK-series

MPK2F
MPK2F-5



MPP3H
MPP3S



SG400
SG650



Palletizing | Palettieren

PL-series

PL80
PL190-100
PL190
PL320
PL500
PL800



Painting | Lackieren

MPX-series

MPX1150
MPX1950
MPX2600
MPX3500

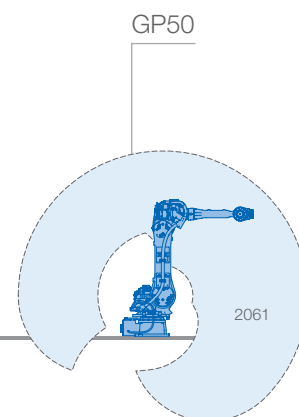
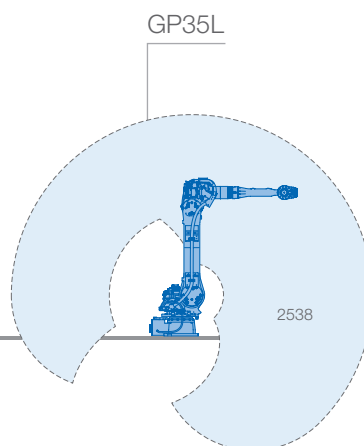
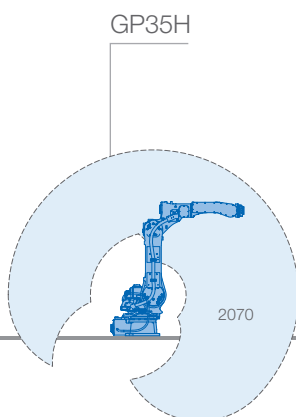
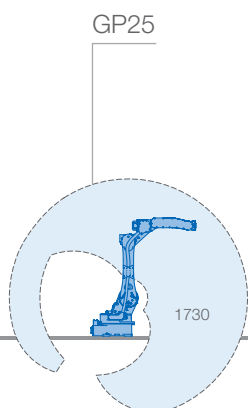
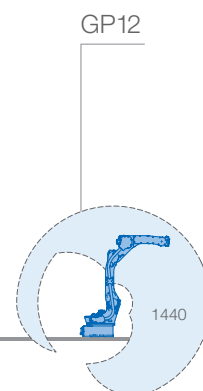
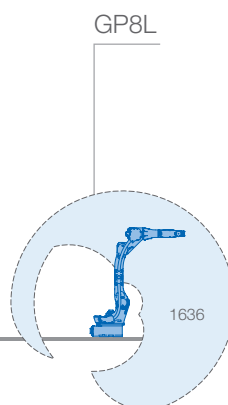
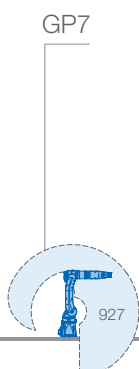


Cobots

HC-series

HC10DTP Classic
HC10DTP
HC10DTFP
HC20DTP
HC20SDTP
HC30PL



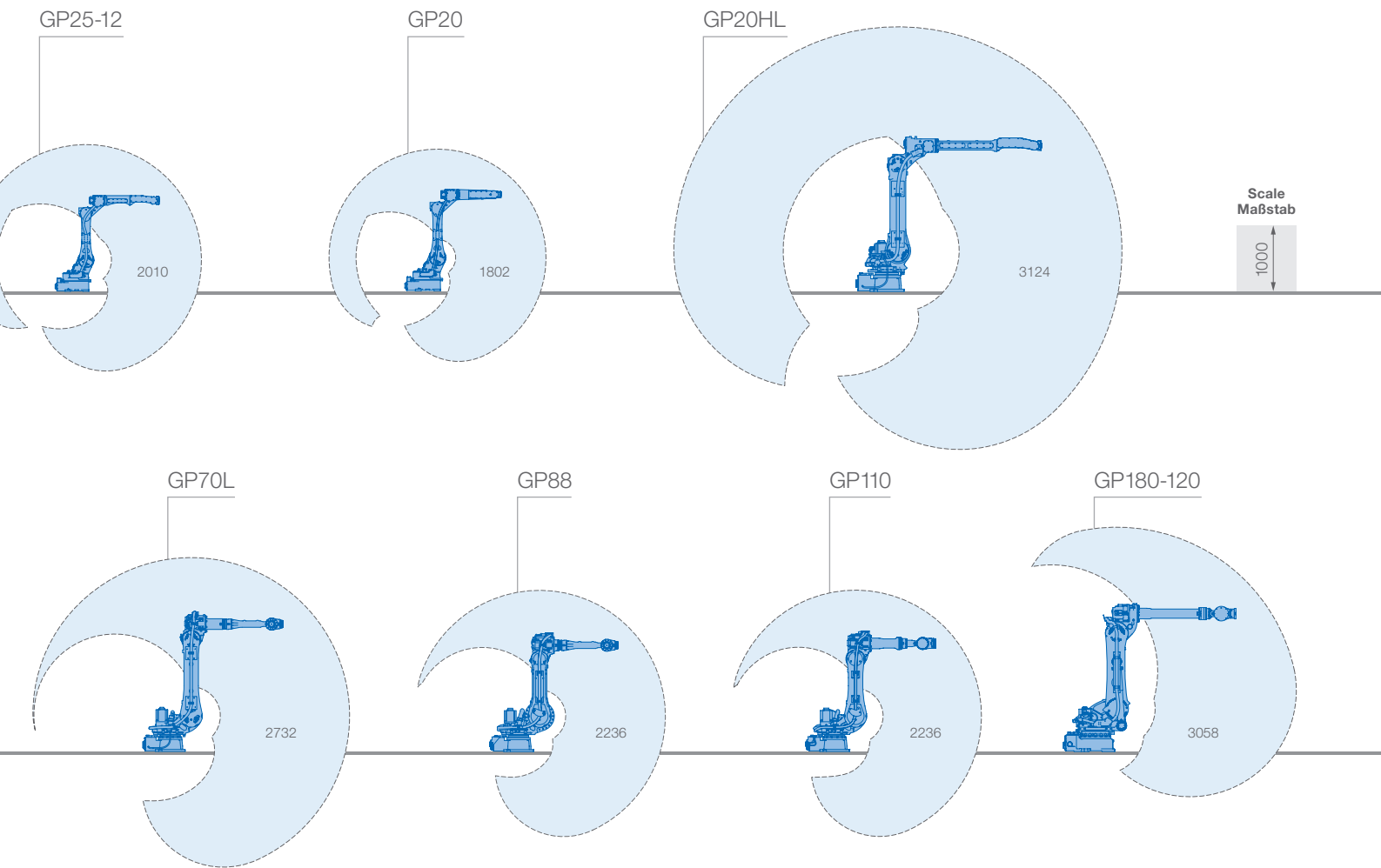


Technical data Technische Daten	Handling & Assembly Handling & Montage						
	GP-series GP-Serie						
	GP4	GP7	GP8	GP8L	GP12	GP25-12	GP20
Industrial robot controller Industrieroboter-Steuerung	YRC1000 / YRC1000micro	YRC1000 / YRC1000micro	YRC1000 / YRC1000micro	YRC1000 / YRC1000micro	YRC1000 / YRC1000micro	YRC1000	YRC1000
Controlled axes Gesteuerte Achsen	6	6	6	6	6	6	6
Max. payload * Max. Traglast * [kg]	4	7	8	8	12	12	20
Repeatability Wiederholgenauigkeit [mm]	± 0.01	± 0.01	± 0.01	± 0.02	± 0.02	± 0.02	± 0.02
Max. working range R Max. Arbeitsbereich R [mm]	550	927	727	1636	1440	2010	1802
Weight Gewicht [kg]	28	34	32	155	150	260	250
Power supply, average Mittlere Anschlußleistung [KVA]	1***	1***	1***	1.5	1.5	2	2
Mounting option ** Montagemöglichkeit **	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt
Protection class / Options Schutzklasse / Optionen	IP67 FGG	IP67 FGG, ACC, CR5	IP67 FGG, ACC, CR5	IP54/67	IP54/67, IP65/67 FGG	IP54/67, IP65/67 FGG	IP54/67
Colour Farbe	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue

* Details: See load diagram in user manual
Details: Siehe Load-Diagram im User-Manual

** F = Floor, W = Wall, C = Ceiling
F = Boden, W = Wand, C = Decke

*** 1-phase and 3-phase power supply possible (YRC1000micro)
1-phasige und 3-phasige Stromversorgung möglich (YRC1000micro)

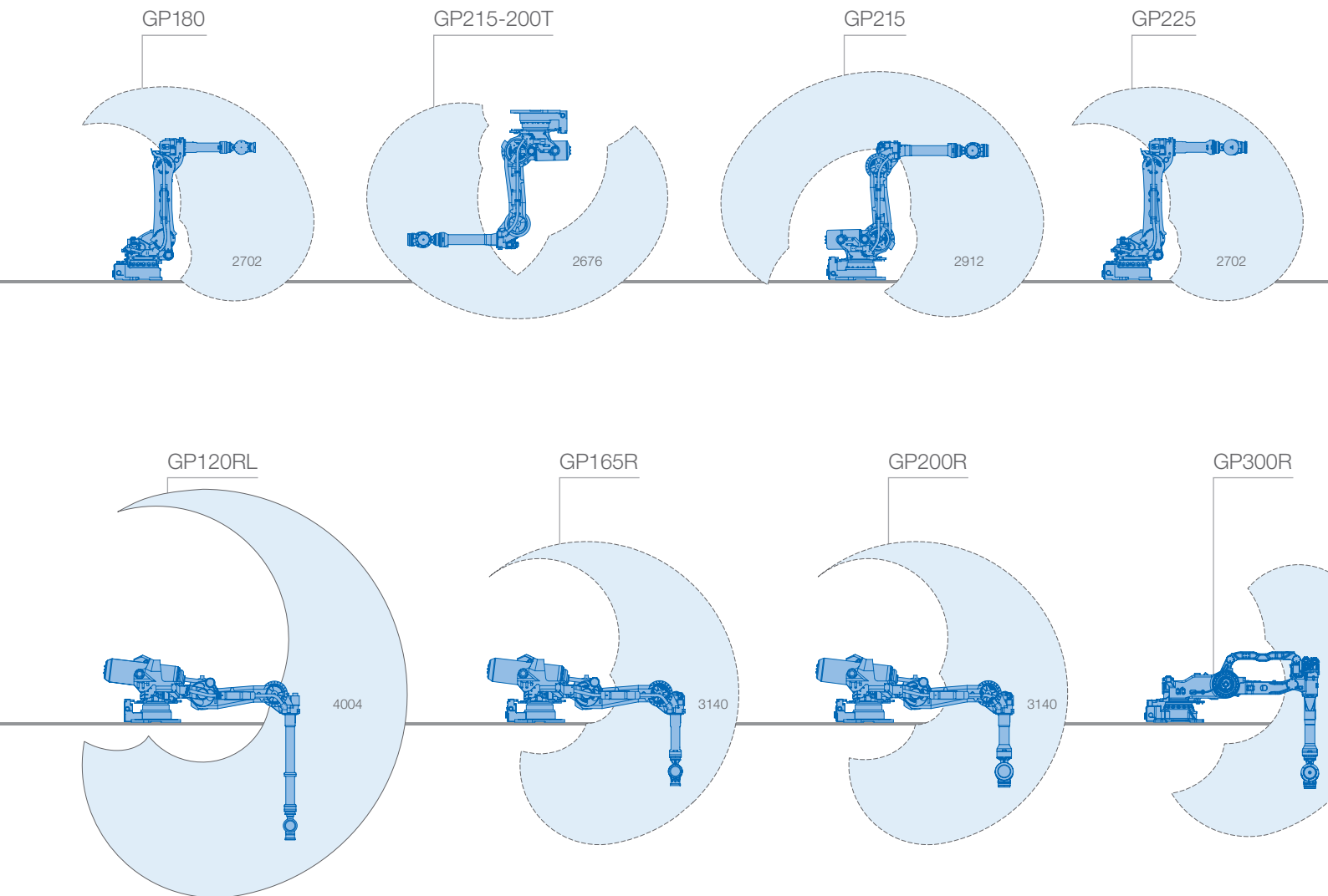


Handling & Assembly Handling & Montage								
GP-series GP-Serie								
GP20HL	GP25	GP35H	GP35L	GP50	GP70L	GP88	GP110	GP180-120
YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000
6	6	6	6	6	6	6	6	6
20	25	35	35	50	70	88	110	120
± 0.07	± 0.02	± 0.07	± 0.03	± 0.03	± 0.05	± 0.03	± 0.03	± 0.05
3124	1730	2070	2538	2061	2732	2236	2236	3058
560	250	545	600	570	650	630	660	1090
4	2	4	4	4	5	4	5	5
F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F	F, W, C, tilt/geneigt	F	F
IP54/67	IP54/67, IP65/67 FGG	IP54/67	IP54/67, IP65/67	IP54/67, IP65/67 FGG	IP54/67	IP54/67, IP65/67	IP54/67, IP65/67	IP54/67
YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue

FGG = Food Grade Grease
(lebensmitteltaugliches Schmierfett)

ACC = Anti-Corrosion Coating
(Anti-Korrosionsbeschichtung)

CR = Cleanroom Class
(Reinraumklasse)

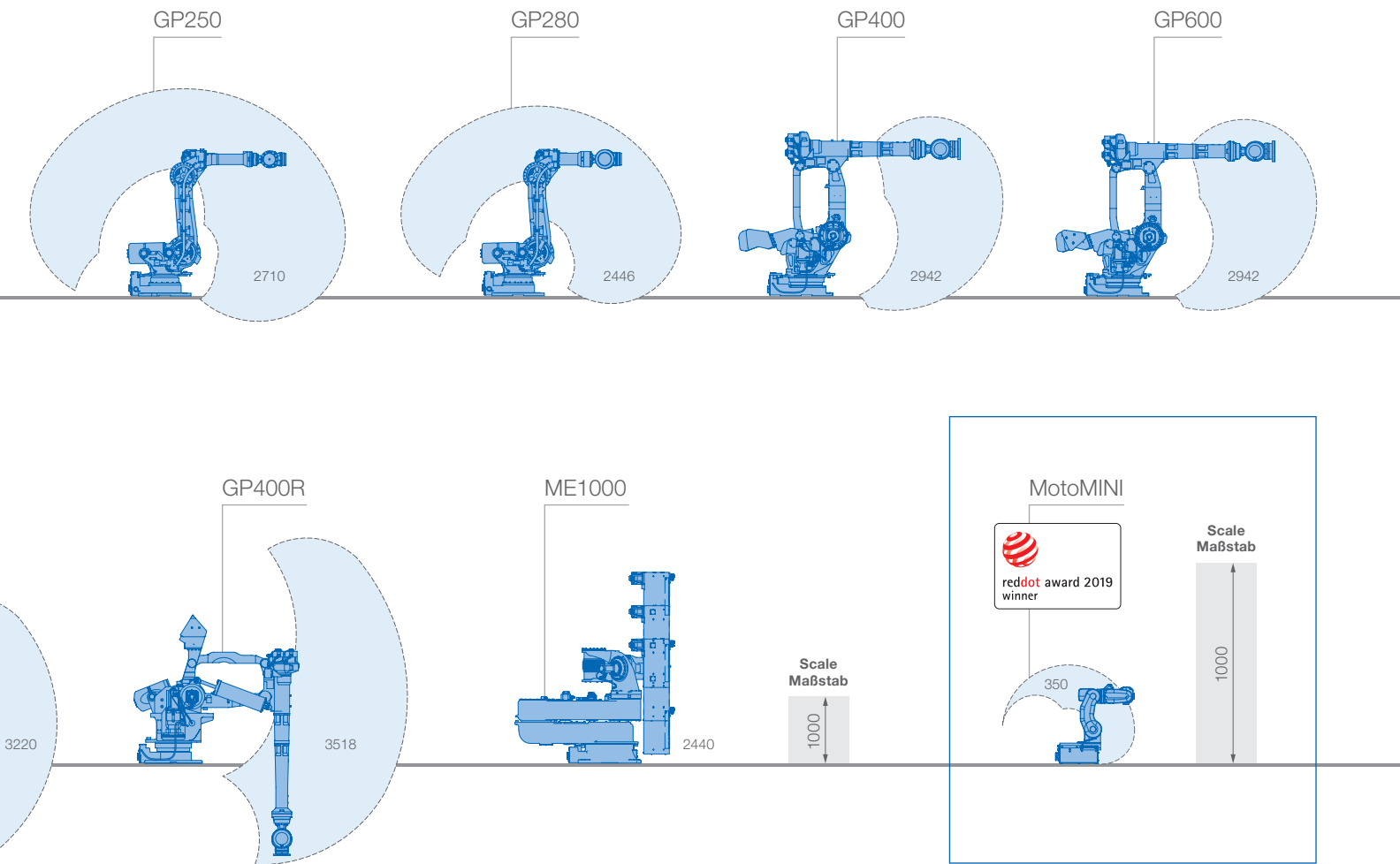


Technical data Technische Daten	Handling & Assembly Handling & Montage						
	GP-series GP-Serie						
	GP180	GP215-200T	GP215	GP225	GP250	GP280	GP400
Industrial robot controller Industrieroboter-Steuerung	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000
Controlled axes Gesteuerte Achsen	6	6	6	6	6	6	6
Max. payload * Max. Traglast * [kg]	180	200	215	225	250	280	400
Repeatability Wiederholgenauigkeit [mm]	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05	± 0.1
Max. working range R Max. Arbeitsbereich R [mm]	2702	2676	2912	2702	2710	2446	2942
Weight Gewicht [kg]	1020	1360	1340	1080	1345	1300	2840
Power supply, average Mittlere Anschlußleistung [KVA]	5	5	5	5	5	5	7
Mounting option ** Montagemöglichkeit **	F	C	F	F	F	F	F
Protection class / Options Schutzklasse / Optionen	IP54/67, IP65/67 FGG	IP54/67	IP54/67	IP54/67, IP65/67	IP54/67	IP54/67	IP30/67
Colour Farbe	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue

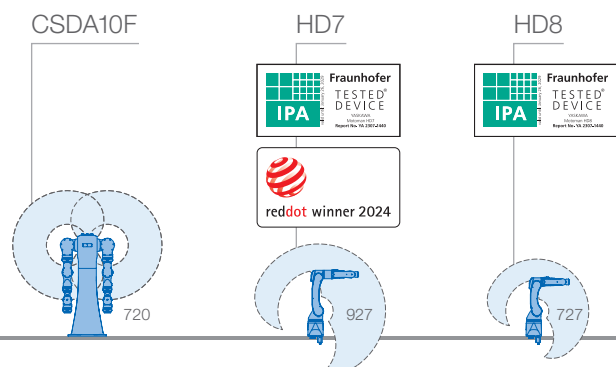
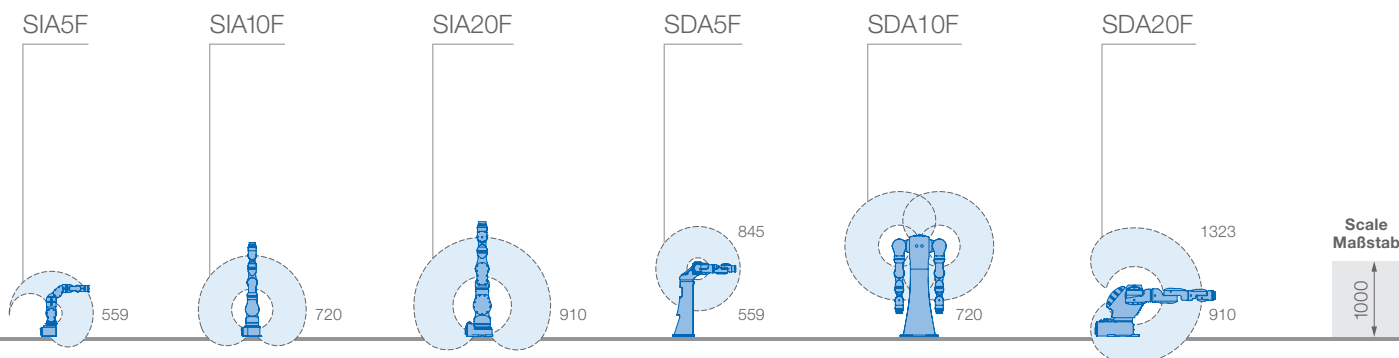
* Details: See load diagram in user manual
Details: Siehe Load-Diagram im User-Manual

** F = Floor, W = Wall, C = Ceiling
F = Boden, W = Wand, C = Decke

*** 1-phase and 3-phase power supply possible (YRC1000micro)
1-phasige und 3-phasige Stromversorgung möglich (YRC1000micro)



Handling & Assembly Handling & Montage							
GP600	GP-Shelftype-series GP-Shelftype-Serie					ME1000	MotoMINI
	GP120RL	GP165R	GP200R	GP300R	GP400R		
YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000micro
6	6	6	6	6	6	6	6
600	120	165	200	300	400	1000	0.5
± 0.1	± 0.2	± 0.05	± 0.05	± 0.05	± 0.1	± 0.1	± 0.02
2942	4004	3143	3140	3220	3518	2440	350
3035	1830	1760	1830	1530	3560	3250	7
7	5	5	5	5	7	5	0.5***
F	Shelf-mounted/ Konsole	Shelf-mounted/ Konsole	Shelf-mounted/ Konsole	Shelf-mounted/ Konsole	Shelf-mounted/ Konsole	F	F, W, C, tilt/geneigt
IP30/67	IP54/67	IP54/67	IP54/67	IP54/67	IP54/67	–	IP30
YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue



Technical data Technische Daten	Handling & Assembly Handling & Montage								
	SIA-/SDA-series SIA-/SDA-Serie						Cleanroom-series Reinraum-Serie		
	SIA5F	SIA10F	SIA20F	SDA5F	SDA10F	SDA20F	CSDA10F	HD7	HD8
Industrial robot controller Industrieroboter-Steuerung	FS100	FS100	FS100	FS100	FS100	FS100	FS100	YRC1000	YRC1000
Controlled axes Gesteuerte Achsen	7	7	7	15	15	15	15	6	6
Max. payload * Max. Traglast * [kg]	5	10	20	5	10	20	10	7	8
Repeatability Wiederholgenauigkeit [mm]	± 0.06	± 0.6	± 0.1	± 0.06	± 0.1	± 0.1	± 0.1	± 0.01*	± 0.01*
Max. working range R Max. Arbeitsbereich R [mm]	559	720	910	845 / 559	845 / 845	1323 / 910	720 / 720	927	727
Weight Gewicht [kg]	30	60	120	110	220	380	220	47	45
Power supply, average Mittlere Anschlußleistung [KVA]	1.0	1.0	2.2	1.4	1.5	4.4	2	1**	1**
Mounting option ** Montagemöglichkeit **	F, W, C	F, W, C	F, W, C	F	F	F	F	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt
Protection class / Options Schutzklasse / Optionen	IP65/67	IP65/67	IP65/67	IP54/65/67	IP54/65/67	IP65/66	IP64/50	IP69	IP69
Colour Farbe	Blue & White	Blue & White	Blue & White	Blue & White	Blue & White	Blue & White	White	White	White

* Details: See load diagram in user manual
Details: Siehe Load-Diagram im User-Manual

** F = Floor, W = Wall, C = Ceiling
F = Boden, W = Wand, C = Decke

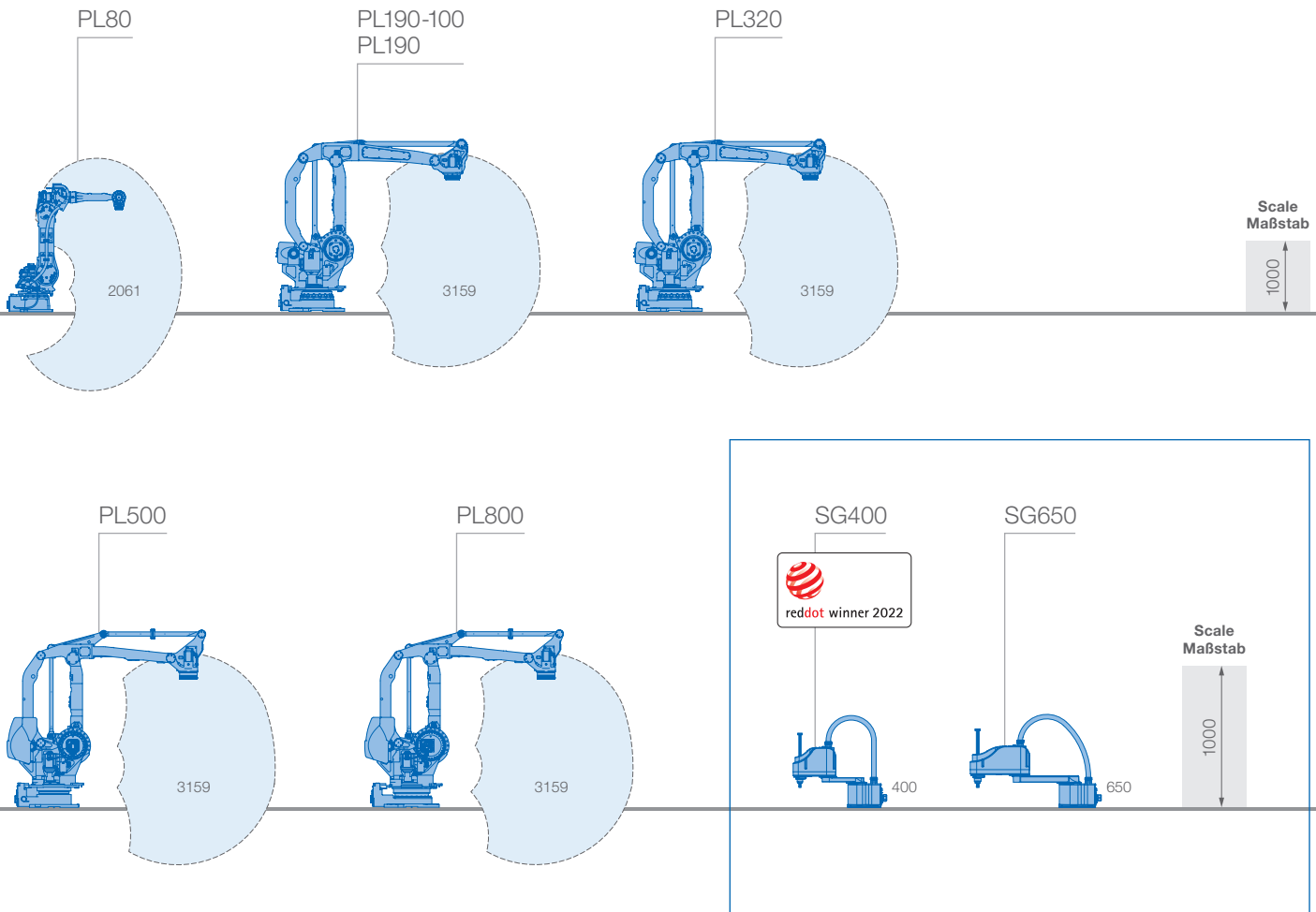
* Conforms to ISO 9283
Entspricht ISO 9283

** Varies in accordance with applications and motion patterns
Variiert je nach Anwendung und Bewegungsmuster

Picking, Packing & Palletizing

Picken, Packen & Palettieren

Robot Overview | Roboterübersicht
YRC1000 / YRC1000micro / DX200 / FS100

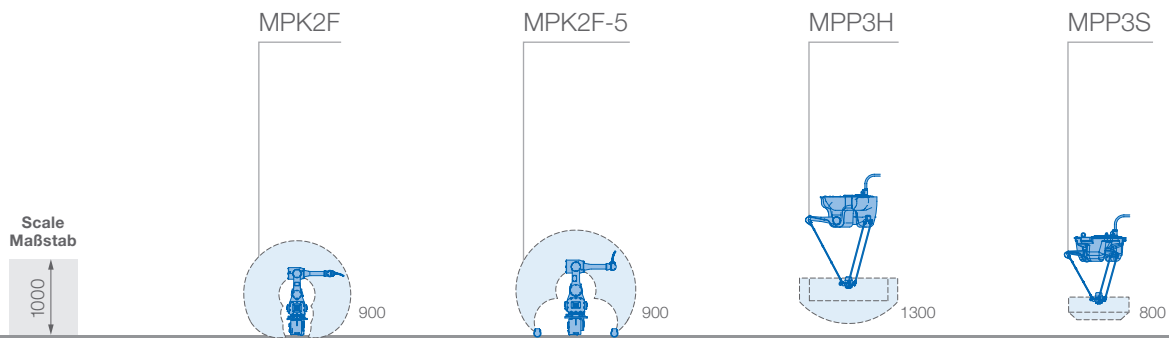


Technical data Technische Daten	Picking, Packing & Palletizing Picken, Packen & Palettieren							
	PL-series PL-Serie						SG-series SG-Serie	
	PL80	PL190-100	PL190	PL320	PL500	PL800	SG400	SG650
Industrial robot controller Industrieroboter-Steuerung	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000 micro	YRC1000 micro
Controlled axes Gesteuerte Achsen	5	4	4	4	4	4	4	4
Max. payload * Max. Traglast * [kg]	80	100	190	320	500	800	3	6
Repeatability Wiederholgenauigkeit [mm]	± 0.03	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05	± 0.01	± 0.01
Max. working range R Max. Arbeitsbereich R [mm]	2061	3159	3159	3159	3159	3159	400	650
Weight Gewicht [kg]	565	1680	1680	1680	2390	2560	14	19
Power supply, average Mittlere Anschlußleistung [KVA]	4.5	9.5	9.5	9.5	8	8	1***	1***
Mounting option ** Montagemöglichkeit **	F	F	F	F	F	F	F	F
Protection class / Options Schutzklasse / Optionen	IP54/67	IP54/67	IP54/67	IP54/67	IP54	IP54	IP20	IP20
Colour Farbe	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue

* Details: See load diagram in user manual
Details: Siehe Load-Diagram im User-Manual

** F = Floor, W = Wall, C = Ceiling
F = Boden, W = Wand, C = Decke

*** 1-phase and 3-phase power supply possible (YRC1000micro)
1-phasige und 3-phasige Stromversorgung möglich (YRC1000micro)

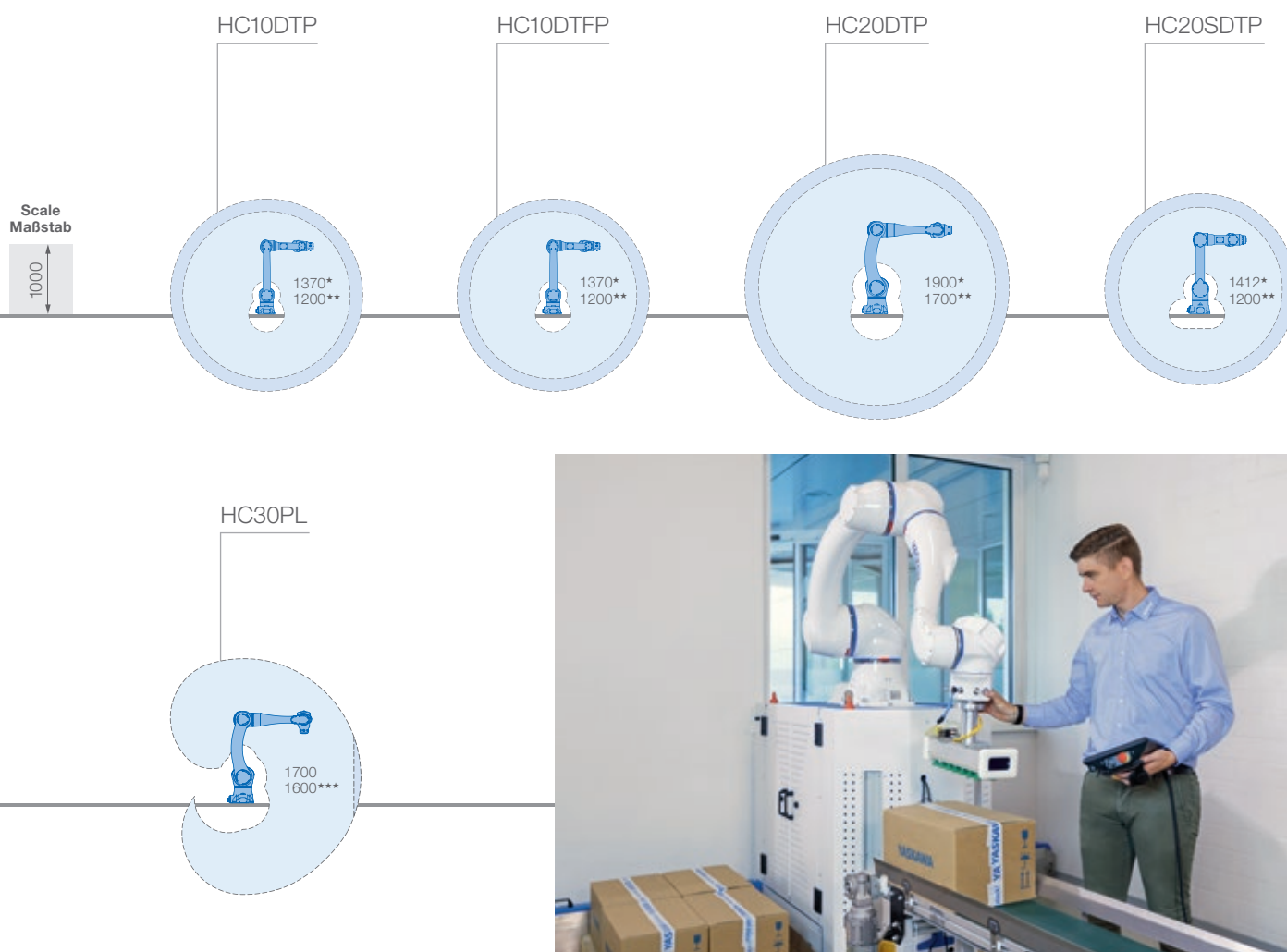


Technical data Technische Daten	Picking & Pick&Place Verpacken & Pick&Place			
	MPK-series MPK-Serie		MPP-series MPP-Serie	
	MPK2F	MPK2F-5	MPP3H	MPP3S
Industrial robot controller Industrieroboter-Steuerung	FS100	FS100	FS100	FS100
Controlled axes Gesteuerte Achsen	5	5	4	4
Max. payload * Max. Traglast * [kg]	2	5	3	3
Repeatability Wiederholgenauigkeit [mm]	± 0.5	± 0.5	± 0.1	± 0.1
Max. working range R Max. Arbeitsbereich R [mm]	900	900	1300	800
Weight Gewicht [kg]	72	72	115	95
Power supply, average Mittlere Anschlußleistung [KVA]	2.0	1.5	1.5	1.5
Mounting option ** Montagemöglichkeit **	F, W, C	F, W, C	C	C
Protection class / Options Schutzklasse / Optionen	IP67	IP67	IP67	IP67
Colour Farbe	White	White	White	White

* Details: See load diagram in user manual
Details: Siehe Load-Diagram im User-Manual

** F = Floor, W = Wall, C = Ceiling
F = Boden, W = Wand, C = Decke

*** 1-phase and 3-phase power supply possible (YRC1000micro)
1-phasige und 3-phasige Stromversorgung möglich (YRC1000micro)

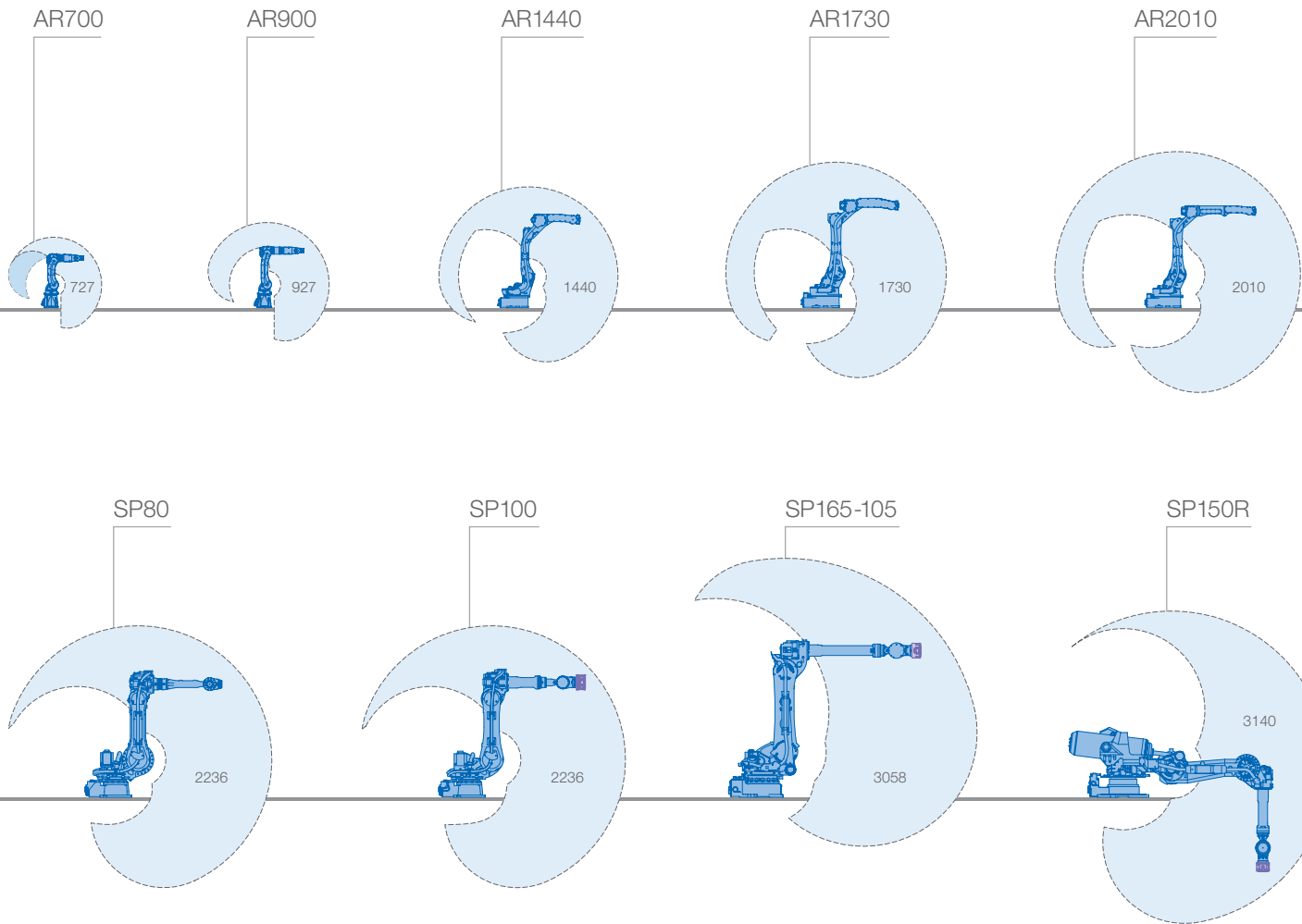


Technical data Technische Daten	Human-Robot Collaboration Mensch-Roboter-Kollaboration				
	HC-series HC-Serie				
	HC10DTP	HC10DTFP	HC20DTP	HC20SDTP	HC30PL
Industrial robot controller Industrieroboter-Steuerung	YRC1000 / YRC1000micro	YRC1000 / YRC1000micro	YRC1000 / YRC1000micro	YRC1000 / YRC1000micro	YRC1000 / YRC1000micro
Controlled axes Gesteuerte Achsen	6	6	6	6	6
Max. payload * Max. Traglast * [kg]	10	10	20	20	30
Repeatability Wiederholgenauigkeit [mm]	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05
Max. working range R Max. Arbeitsbereich R [mm]	1370 * / 1200 **	1370 * / 1200 **	1900 * / 1700 **	1412 * / 1200 **	1700 / 1600 ***
Weight Gewicht [kg]	58	58	140	97	140
Power supply, average Mittlere Anschlußleistung [KVA]	1***	1***	1.5***	1.5***	1.5***
Mounting option ** Montagemöglichkeit **	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F
Protection class / Options Schutzklasse / Optionen	IP67	IP67	IP67	IP67	IP67
Colour Farbe	White	White	White	White	White

* Absolute reach: S/L-Axis center of rotation to R/T-Axis center of rotation
Absolute Reichweite: Drehmittelpunkt S/L-Achse bis Drehmittelpunkt R/T-Achse

** Effective reach: S/L-Axis center of rotation to Point P
Effektive Reichweite: Drehmittelpunkt S/L-Achse bis Arbeitspunkt P

*** for over 27 kg payload
bei mehr als 27 kg Traglast

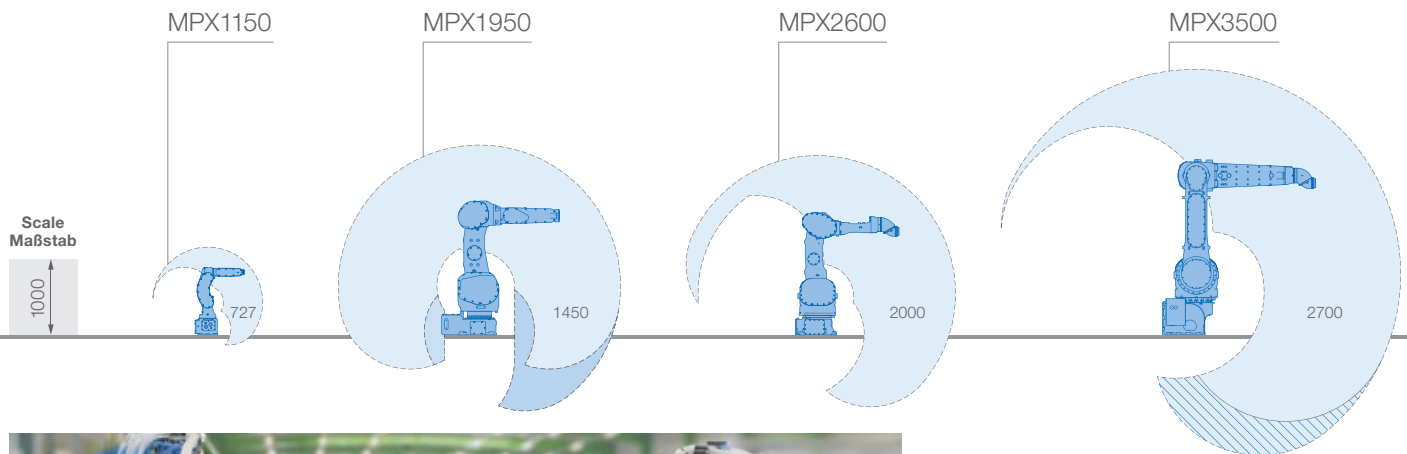


Technical data Technische Daten	Arc Welding Lichtbogenschweißen						Laser Welding & Cutting Laserschweißen- & Schneiden
	AR-series AR-Serie						
	AR700	AR900	AR1440	AR1730	AR2010	AR3120	
Industrial robot controller Industrieroboter-Steuerung	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	GA50
Controlled axes Gesteuerte Achsen	6	6	6	6	6	6	6
Max. payload * Max. Traglast * [kg]	8	7	12	25	12	20	50
Repeatability Wiederholgenauigkeit [mm]	± 0.01	± 0.01	± 0.02	± 0.02	± 0.03	± 0.07	± 0.015
Max. working range R Max. Arbeitsbereich R [mm]	727	927	1440	1730	2010	3124	2038
Weight Gewicht [kg]	35	37	150	250	260	560	855
Power supply, average Mittlere Anschlußleistung [KVA]	1	1	1.5	2	2	2	4.5
Mounting option ** Montagemöglichkeit **	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F, W, C, tilt/geneigt	F
Protection class / Options Schutzklasse / Optionen	IP67	IP67	IP54/67	IP54/67 IP65/67	IP67	IP67	IP54/67
Colour Farbe	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue

* Details: See load diagram in user manual
Details: Siehe Load-Diagram im User-Manual

** F = Floor, W = Wall, C = Ceiling
F = Boden, W = Wand, C = Decke

[illegible]

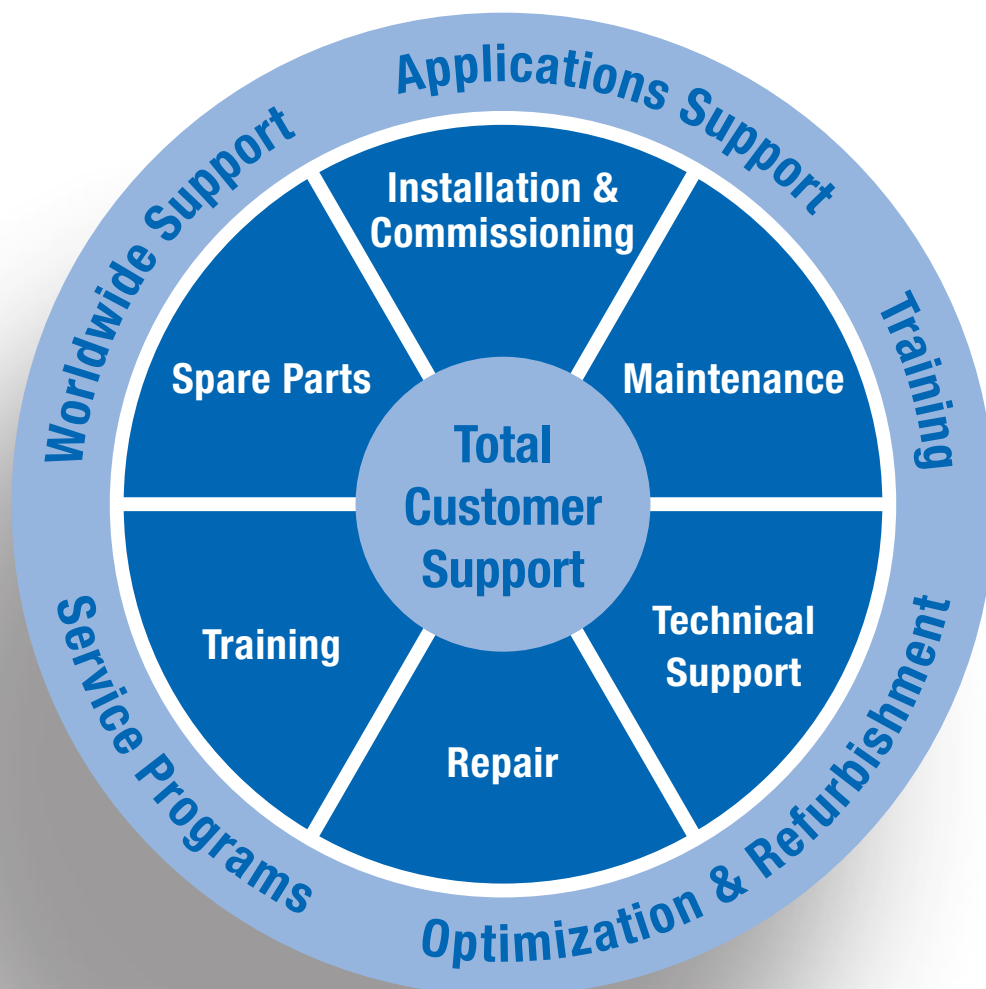


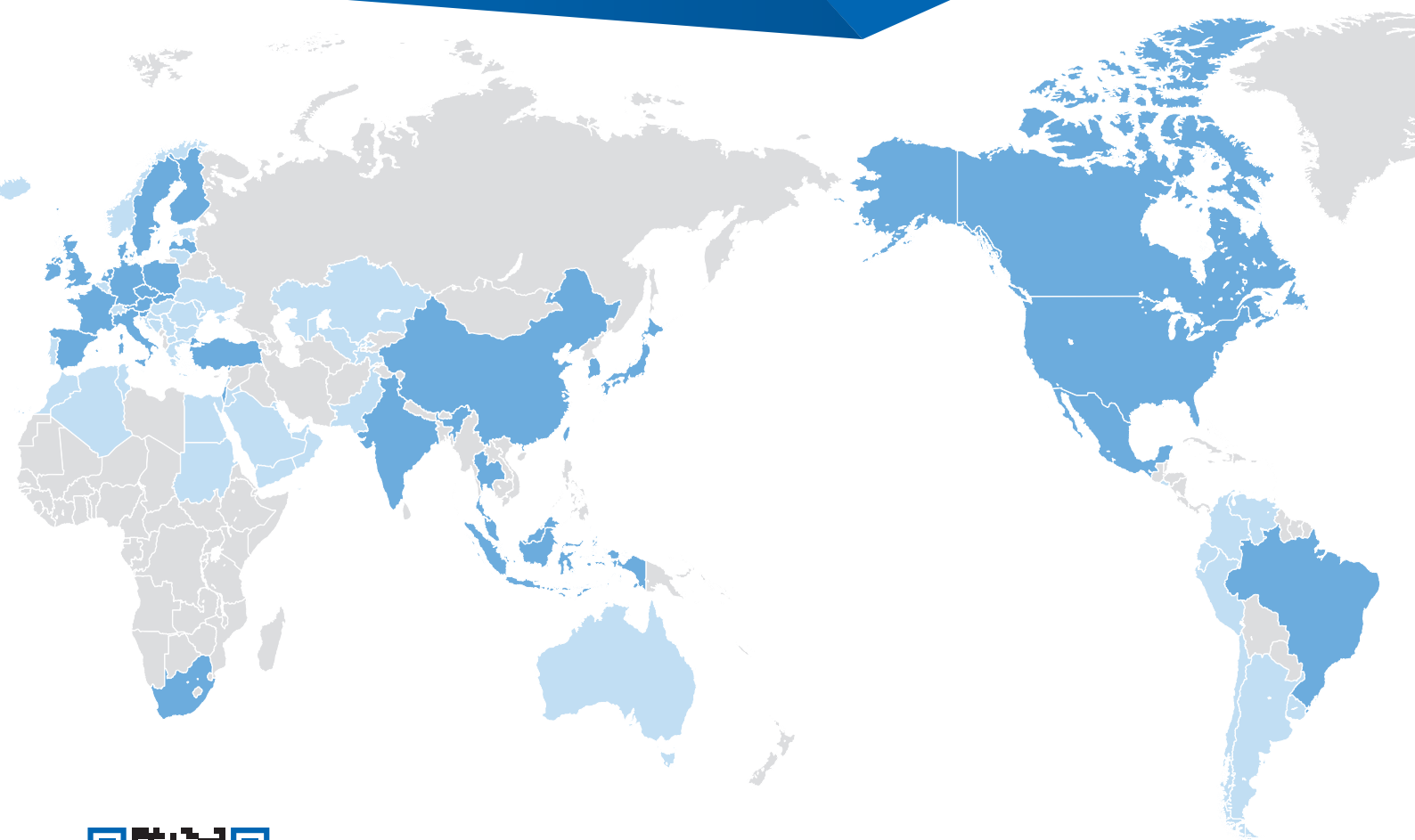
Technical data Technische Daten	Painting Lackieren			
	MPX-series MPX-Serie			
	MPX1150	MPX1950	MPX2600	MPX3500
Industrial robot controller Industrieroboter-Steuerung	DX200	DX200	DX200	DX200
Controlled axes Gesteuerte Achsen	6	6	6	6
Max. payload * Max. Traglast * [kg]	5	7	15	15
Repeatability Wiederholgenauigkeit [mm]	± 0.02	± 0.15	± 0.2	± 0.15
Max. working range R Max. Arbeitsbereich R [mm]	727	1450	2000	2700
Allowable moment of inertia Max. Trägheitsmoment [kg · m²]	0.3 (R) 0.3 (B) 0.1 (T)	0.6 (R) 0.6 (B) 0.16 (T)	3.75 (R) 2.225 (B) 0.20 (T)	3.75 (R) 2.23 (B) 0.20 (T)
Weight Gewicht [kg]	57	265	485	560
Power supply, average Mittlere Anschlußleistung [KVA]	1	2.5	3	3
Mounting option ** Montagemöglichkeit **	F, W, C	F, W, C	F, W, C	F, W, C
Protection class / Options Schutzklasse / Optionen	Base part: IP4X Wrist part: IP65	Base part: IP4X Wrist part: IP65	Base part: IP4X Wrist part: IP67	Base part: IP4X Wrist part: IP67
ATEX	II 2 G Ex ib pxb IIB T4 Gb / Ex ib IIB T4 Gb Ta = 0 to +40 °C	II 2 G Ex ib pxb IIB T4 Gb Ta = 0 to +40 °C	II 2 G Ex ib pxb IIB T4 Gb / Ex ib IIB T4 Gb Ta = 0 to +40 °C	II 2 G Ex ib pxb IIB T4 Gb / Ex ib IIB T4 Gb Ta = 0 to +40 °C
Colour Farbe	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue	YASKAWA Blue

* Details: See load diagram in user manual
Details: Siehe Load-Diagram im User-Manual

** F = Floor, W = Wall, C = Ceiling
F = Boden, W = Wand, C = Decke

TCS. Total Customer Support.





Robotics Division

YASKAWA Europe GmbH
Yaskawastraße 1
85391 Allershausen, Germany
Tel. +49 (0) 8166/90-0
Fax +49 (0) 8166/90-103

YASKAWA Headquarters Academy and Sales Office

YASKAWA Europe GmbH
Philipp-Reis-Straße 6
65795 Hattersheim am Main, Germany
Tel. +49 (0) 6196/77725-0
Fax +49 (0) 6196/77725-39

robotics@yaskawa.eu
www.yaskawa.eu

All drawing dimensions in mm.
Technical data may be subject to change without previous notice.
Please request detailed drawings at robotics@yaskawa.eu.

Robot Overview | Roboterübersicht
YRC1000 / YRC1000micro / DX200 / FS100
A-05-2025, A-Nr.231068

YASKAWA