

MOTOMAN GP FGG

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

YASKAWA

MOTOMAN GP FGG-series

Handling & General Application
for the Food Industry

**GP7 FGG, GP8 FGG, GP12 FGG, GP25 FGG
and GP50 FGG:**

Increase Productivity

**Highest payloads, speeds and wrist allowable
moment in its class**

- A variety of workpieces can be transferred and different grippers can be mounted of with payloads up to 50 kg
- Acceleration/deceleration control has been improved to achieve maximum reduction of acceleration/deceleration times for all robot postures

Make Equipment compact

Slim and easy-to-use structure

- Slim robot body requires minimum installation space (minimizes L-U axis offset)
- The manipulator cable can be connected at the bottom section, which reduces interference with walls and requires far less installation space when compared with cable connections on the side of the robot
- Increased maximum reach and horizontal reach enables robots to operate in wider work areas
- The slim, straight, and symmetrical arm design minimize interference with peripheral devices even in small spaces

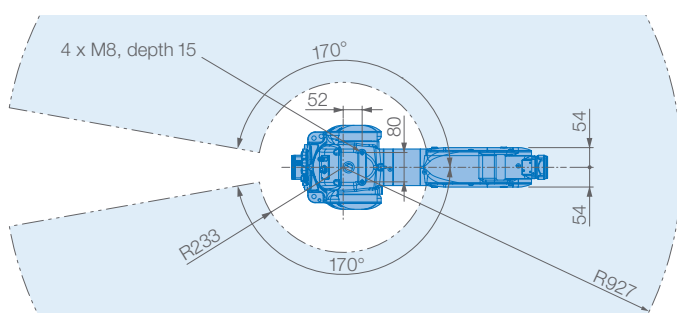
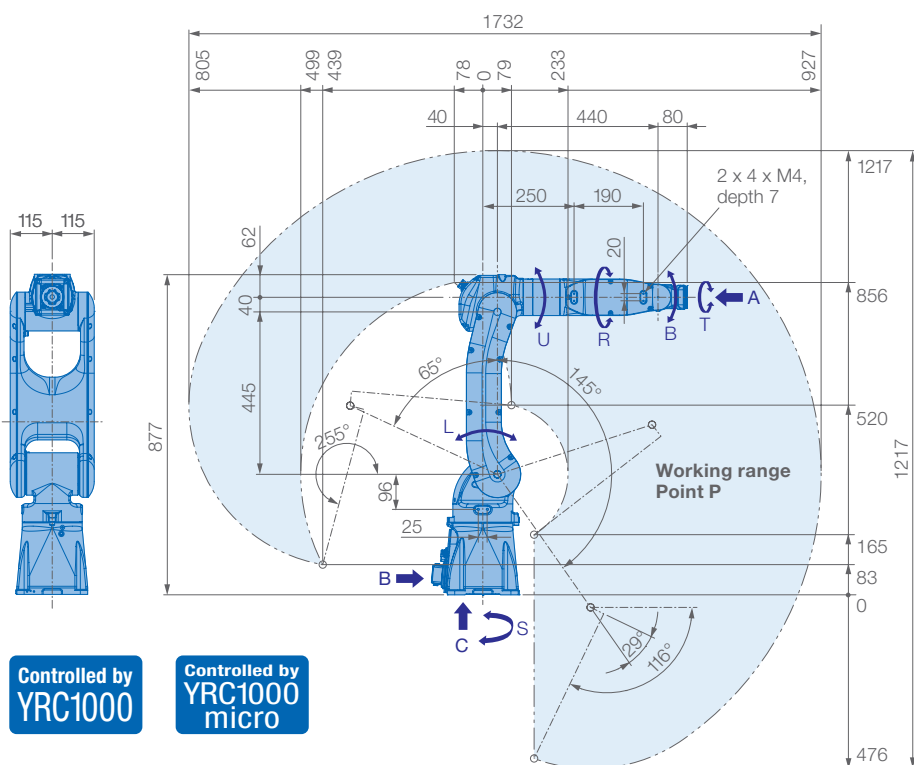
KEY BENEFITS

- Food grade grease allows robot to be used in food related applications in secondary and tertiary packaging
- Drip proof design assures smooth disposal of a liquid on the robot surface



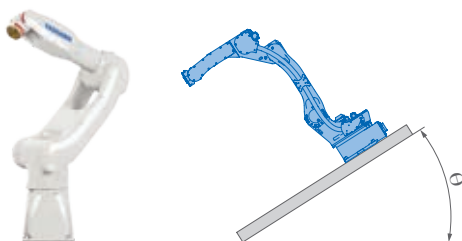
Controlled by
YRC1000

Controlled by
**YRC1000
micro**

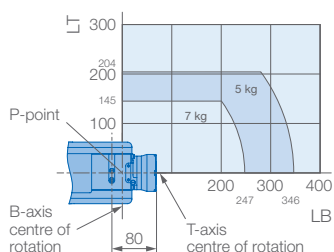


Prevent interaction of the robot with:

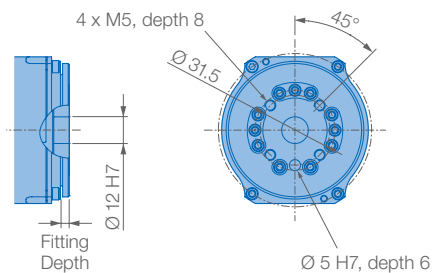
- Corrosive gasses, liquids or explosive gasses
- Exposure to water, oil or dust
- Excessive electrical noise (plasma)



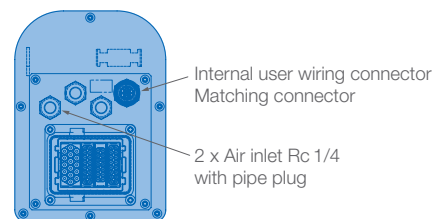
Allowable wrist load



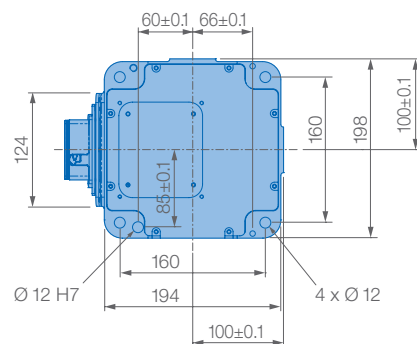
View A



View B



View C



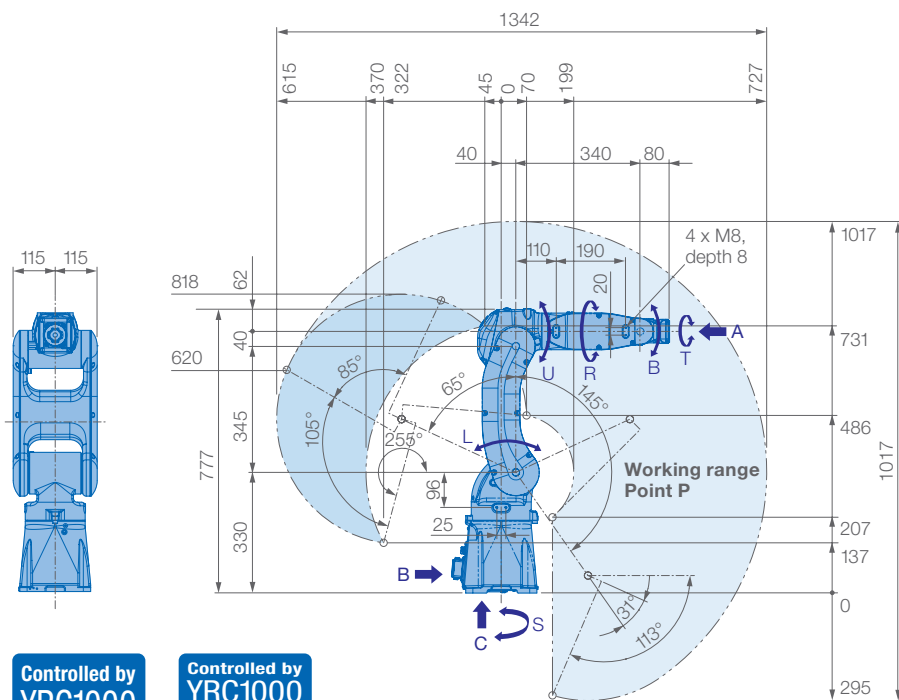
Mounting options: Floor, ceiling, wall, tilt*

Protection class: IP67

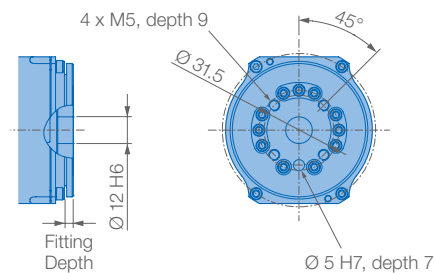
* tilt with condition of angle – see table below

Robot installation angle θ [deg.]	S-axis operating range [deg.]
$0 \leq \theta \leq 30$	± 170 degrees or less (no limit)
$30 < \theta \leq 35$	± 60 degrees or less
$35 < \theta \leq 40$	± 50 degrees or less
$40 < \theta \leq 45$	± 45 degrees or less
$45 < \theta \leq 50$	± 40 degrees or less
$50 < \theta \leq 60$	± 35 degrees or less
$60 < \theta$	± 30 degrees or less

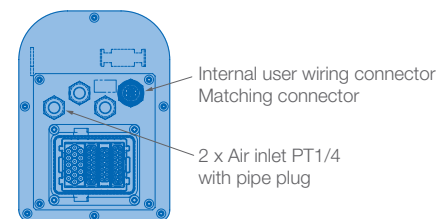
Specifications GP7 FGG						
Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m²]	Controlled axes	6
					Max. payload [kg]	7
S	±170	375	–	–	Repeatability [mm]	±0.01*
L	+145/–65	315	–	–	Max. working range R [mm]	927
U	+190/–70	410	–	–	Temperature [°C]	+15 to +45***
R	±190	550	17	0.5	Humidity [%]	20 – 80
B	±135	550	17	0.5	Weight [kg]	37
T	±360	1000	10	0.2	Power supply, average [kVA]	1**



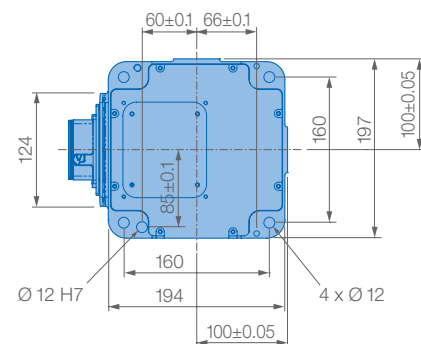
View A



View B



View C



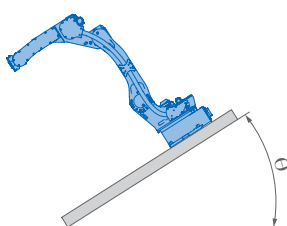
Mounting options: Floor, ceiling, wall, tilt*

Protection class: IP67

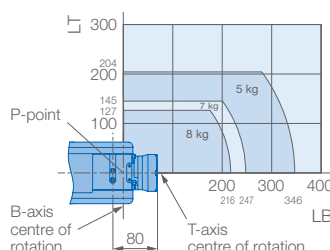
* tilt with condition of angle – see table below

Prevent interaction of the robot with:

- Corrosive gasses, liquids or explosive gasses
- Exposure to water, oil or dust
- Excessive electrical noise (plasma)



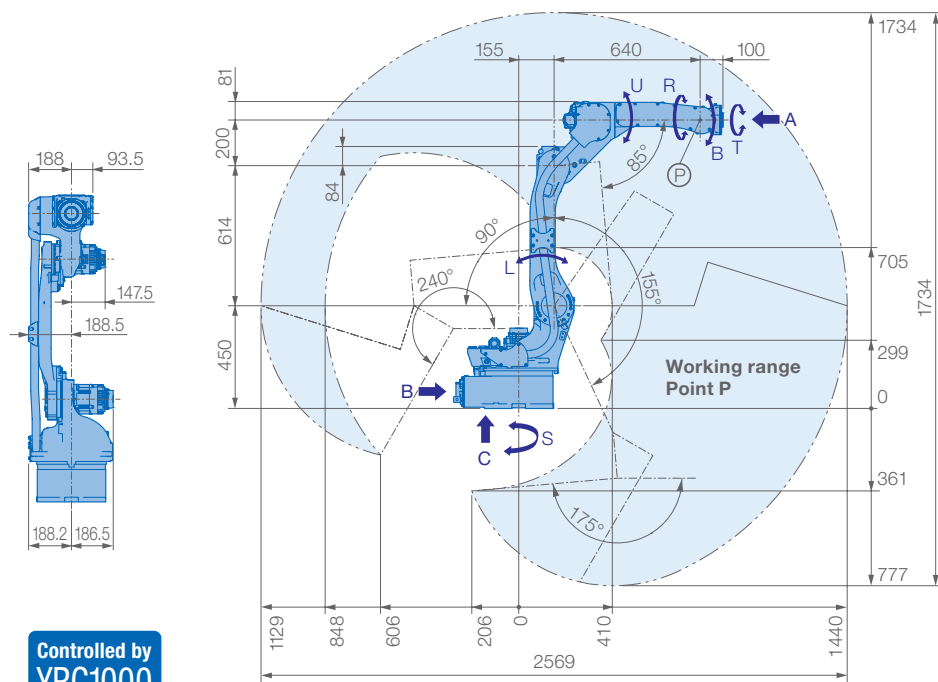
Allowable wrist load



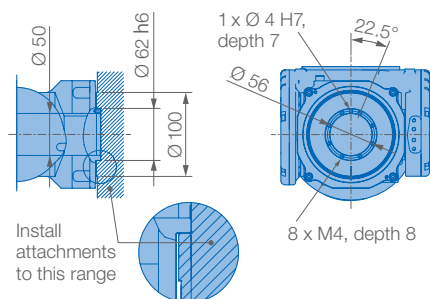
Robot installation angle θ [deg.]	S-axis operating range [deg.]
$0 \leq \theta \leq 30$	± 170 degrees or less (no limit)
$30 < \theta \leq 35$	± 60 degrees or less
$35 < \theta \leq 40$	± 50 degrees or less
$40 < \theta \leq 45$	± 45 degrees or less
$45 < \theta \leq 50$	± 40 degrees or less
$50 < \theta \leq 60$	± 35 degrees or less
$60 < \theta$	± 30 degrees or less

Specifications GP8 FGG

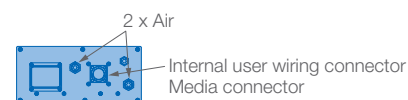
Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	± 170	455	–	–	Max. payload [kg]	6
L	$+145/-65$	385	–	–	Repeatability [mm]	$\pm 0.01^*$
U	$+255/-113$	520	–	–	Max. working range R [mm]	727
R	± 190	550	17	0.5	Temperature [°C]	$+15$ to $+45^{***}$
B	± 135	550	17	0.5	Humidity [%]	20 – 80
T	± 360	1000	10	0.2	Weight [kg]	35
					Power supply, average [kVA]	1**



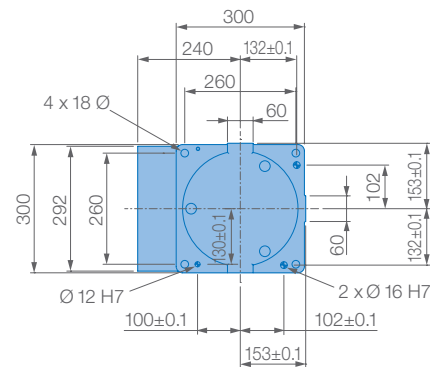
View A



View B



View C



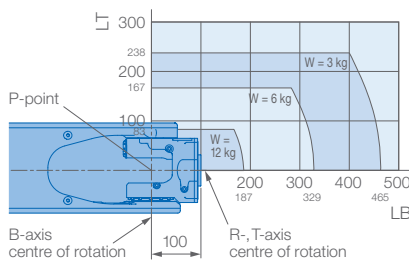
Controlled by
YRC1000
micro

Prevent interaction of the robot with:

- Corrosive gasses, liquids or explosive gasses
- Exposure to water, oil or dust
- Excessive electrical noise (plasma)



Allowable wrist load



Mounting options: Floor, ceiling, wall, tilt*

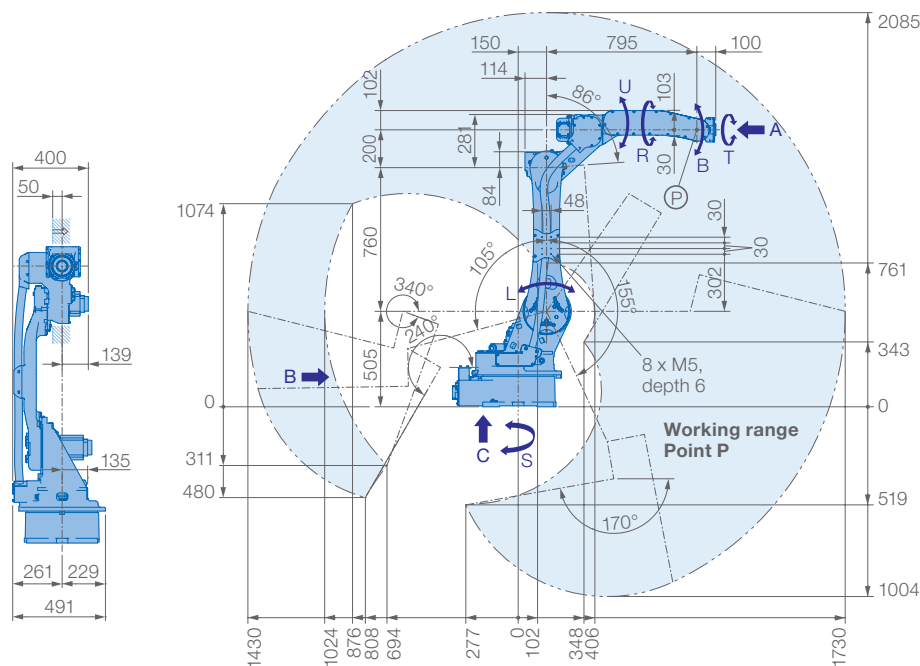
Protection class: IP67

* tilt with condition of angle – see table below

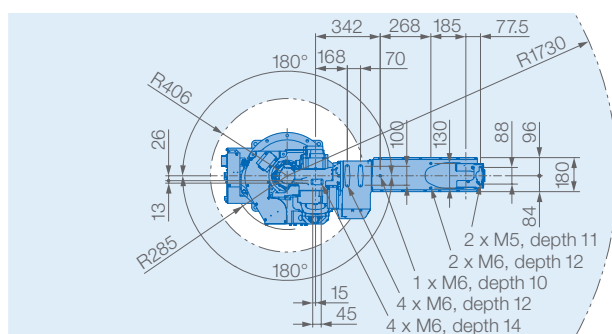
Roboter-Neigungswinkel Θ [Grad]	S-Achsen-Arbeitsbereich [Grad]
$0 \leq \Theta \leq 30$	± 170 max. Neigungswinkel (keine Beschränkung)
$30 < \Theta \leq 35$	± 60 max. Neigungswinkel
$35 < \Theta \leq 45$	± 45 max. Neigungswinkel
$45 < \Theta$	± 30 max. Neigungswinkel

Technische Daten GP12 FGG

Achsen	Maximaler Arbeitsbereich [°]	Maximale Geschwindigkeit [°/s]	Maximales Drehmoment [Nm]	Maximales Trägheitsmoment [kg · m ²]	Anzahl gesteuerter Achsen	6
S	± 170	260	–	–	Max. Traglast [kg]	12
L	$+155/-90$	230	–	–	Wiederholgenauigkeit [mm]	$\pm 0,02^*$
U	$+155/-85$	260	–	–	Max. Arbeitsbereich R [mm]	1440
R	± 200	470	22	0,65	Zulässige Temperatur [°C]	15 bis +45
B	± 150	470	22	0,65	Zulässige Luftfeuchtigkeit [%]	20 – 80
T	± 455	700	9.8	0,17	Gewicht des Roboters [kg]	155
					Mittlere Anschlußleistung [kVA]	1,5**

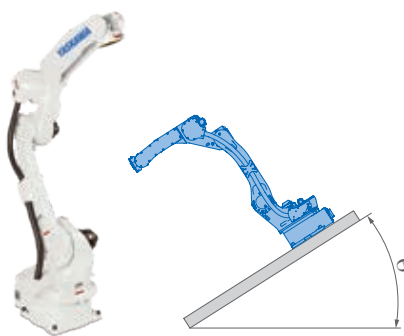


Controlled by
YRC1000

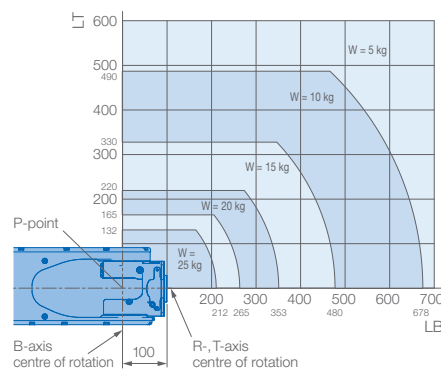


Prevent interaction of the robot with:

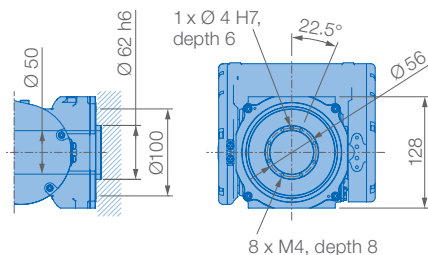
- Corrosive gasses, liquids or explosive gasses
- Exposure to water, oil or dust
- Excessive electrical noise (plasma)



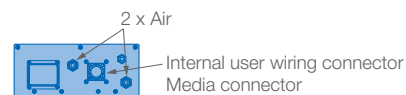
Allowable wrist load



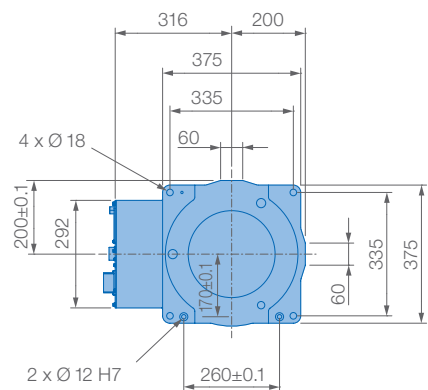
View A



View B



View C



Mounting options: Floor, ceiling, wall, tilt*

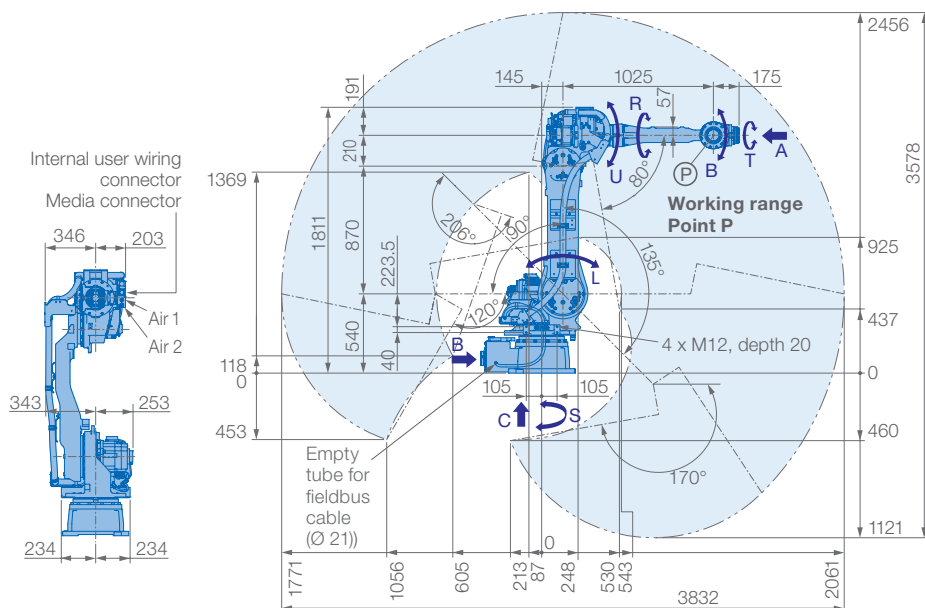
Protection class: IP65/67

* tilt with condition of angle – see table below

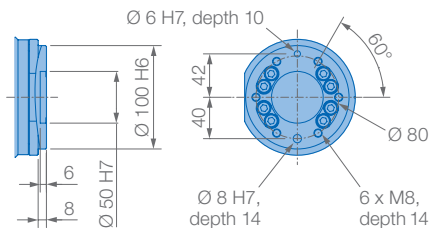
Robot installation angle θ [deg.]	S-axis operating range [deg.]
$0 \leq \theta \leq 30$	± 180 degrees or less (no limit)
$30 < \theta \leq 35$	± 60 degrees or less
$35 < \theta$	± 30 degrees or less

Specifications GP25 FGG

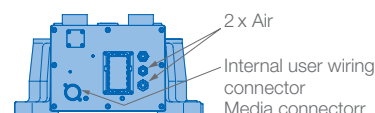
Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	6
S	± 180	210	–	–	Max. payload [kg]	25
L	$+155/-105$	210	–	–	Repeatability [mm]	$\pm 0.02^*$
U	$+160/-86$	265	–	–	Max. working range R [mm]	1730
R	± 200	420	52	2.3	Temperature [°C]	15 to +45
B	± 150	420	52	2.3	Humidity [%]	20 – 80
T	± 455	885	32	1.2	Weight [kg]	265
					Power supply, average [kVA]	2,0**



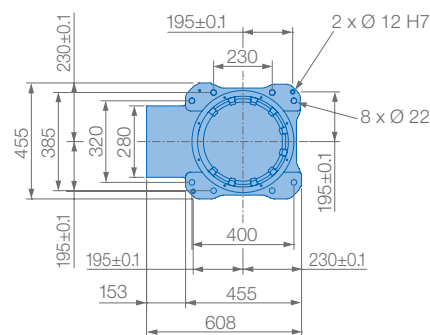
View A



View B



View C

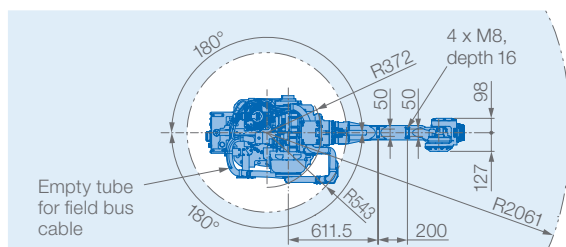


Mounting options: Floor, ceiling, wall, tilt*

Protection class: IP67

* tilt with condition of angle – see table below

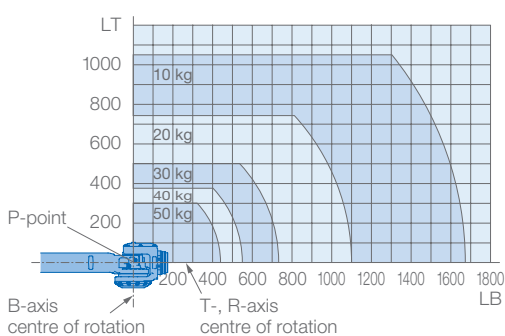
Controlled by
YRC1000



Prevent interaction of the robot with:

- Corrosive gasses, liquids or explosive gasses
- Exposure to water, oil or dust
- Excessive electrical noise (plasma)

Allowable wrist load



Robot installation angle θ [deg.]	S-axis operating range [deg.]
$0 \leq \theta \leq 30$	± 180 (Standard)
$30 < \theta \leq 35$	± 60
$35 < \theta \leq 45$	± 45
$45 < \theta$	± 30

Specifications GP50 FGG

Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	
S	± 180	180	–	–	Max. payload [kg]	6
L	$+135/-90$	178	–	–	Repeatability [mm]	50
U	$+206/-80$	178	–	–	Max. working range R [mm]	± 0.03
R	± 360	150	216	28	Temperature [°C]	2061
B	± 125	150	216	28	Humidity [%]	15 to +45
T	± 360	200	147	11	Weight [kg]	20 – 80
					Power supply, average [kVA]	4.0

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93