

ABAS08

Basic机型 ●单轴机器人

●滑块型



订购型号

| | | | | | | | | | | | | |
|---------------|--------------------------------|-------------------------|---|----------------------|------------------------------|------------------|--------------|------------|--------------------|---|------------------|--|
| ABAS08 | | | | | | | EP-01 | | | | | |
| 主机 | 导程指定 | 形状 | 马达规格 | 行程 | 电缆长度 ^{※1} | 电缆取出方向 | 定位器 | 驱动器: 马达功率 | 再生装置 ^{※2} | 输入输出选择 | 电池 ^{※3} | |
| | 20:20 mm 10:10 mm 5:5 mm | S:直线型 R:右弯折 L:左弯折 | S:标准/无制动器 BK:标准/带制动器 BL:无电池绝对数据备份/ 无制动器 BKBL:无电池绝对数据备份/ 带制动器 | 50~1100 (50 mm间距) | R3:3 m R5:5 m R10:10 m | R:马达后方 F:马达前方 | EP-01 | A10:200W以下 | 空白:无 R:带EP-RU | EP:EtherNet/IP™ PT:PROFINET ES:EtherCAT NS:NPN CC:CC-Link | B:有 N:无 | |

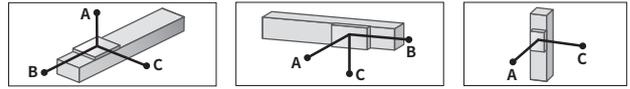
- ※1. 机器人电缆为耐弯曲电缆。
- ※2. 垂直使用的导程为5、20且行程为450mm以上以及导程为10且行程为150mm以上时,需要再生装置。
水平使用的导程为20且行程为250~750mm时,需要再生装置。
- ※3. 马达规格为标准(S、BK)规格时,需要选择有无电池。
- ※ 变更原点复归方向时,可通过参数进行变更。(标准为马达侧原点。变更步骤请参阅EP-01的使用说明书)

基本规格

| | | | |
|----------------------|-------------------------|---------------|------------|
| 马达输出 AC | 200 W | | |
| 重复定位精度 ^{※1} | ±0.01 mm | | |
| 减速机构 | 轧制滚珠丝杆φ16(C7级) | | |
| 行程 | 50 mm~1100 mm(50 mm间距) | | |
| 最高速度 ^{※2} | 1200 mm/sec | 600 mm/sec | 300 mm/sec |
| 滚珠丝杆导程 | 20 mm | 10 mm | 5 mm |
| 最大可搬运重量 | 水平 | 40 kg | 80 kg |
| | 垂直 | 8 kg | 20 kg |
| 额定推力 | 水平 | 174 N | 341 N |
| | 垂直 | 341 N | 683 N |
| 主机最大截面外形 | W 82 mm × H 78 mm | | |
| 全长 | 直线型 | ST + 353 mm | |
| | 弯折 | ST + 264.5 mm | |
| 位置检测器 | 绝对编码器 无电池绝对编码器 | | |
| 分辨率 | 23位 | | |
| 使用环境温度、湿度 | 0~40 °C, 35~80 %RH(无结露) | | |

- ※1. 单方向的重复定位精度
- ※2. 移动距离短时,受动作条件的影响,有可能无法达到最高速度。
有效行程超过650mm时,根据动作区域不同,可能会出现滚珠丝杆共振的情况。(危险速度) 此时请参考表中所示的最高速度,对速度进行下调。
- ※ 加速度/减速度请参阅P.109。

允许突出量[※]



ABAS08-20

| 水平使用时 (单位:mm) | | | | 壁面安装使用时 (单位:mm) | | | | 垂直使用时 (单位:mm) | | | |
|---------------|-----|-----|-----|-----------------|-----|-----|-----|---------------|-----|-----|---|
| | A | B | C | | A | B | C | | A | B | C |
| 15kg | 356 | 131 | 146 | 15kg | 146 | 131 | 356 | 3kg | 634 | 634 | |
| 25kg | 278 | 73 | 86 | 25kg | 86 | 73 | 278 | 6kg | 321 | 321 | |
| 40kg | 517 | 54 | 76 | 40kg | 76 | 54 | 517 | 8kg | 240 | 240 | |

ABAS08-10

| 水平使用时 (单位:mm) | | | | 壁面安装使用时 (单位:mm) | | | | 垂直使用时 (单位:mm) | | | |
|---------------|-----|----|-----|-----------------|-----|----|-----|---------------|-----|-----|---|
| | A | B | C | | A | B | C | | A | B | C |
| 30kg | 465 | 83 | 120 | 30kg | 120 | 83 | 465 | 5kg | 551 | 551 | |
| 50kg | 341 | 44 | 65 | 50kg | 65 | 44 | 341 | 10kg | 270 | 270 | |
| 80kg | 228 | 22 | 34 | 80kg | 34 | 22 | 228 | 20kg | 129 | 129 | |

ABAS08-5

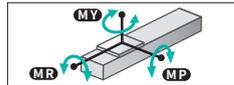
| 水平使用时 (单位:mm) | | | | 壁面安装使用时 (单位:mm) | | | | 垂直使用时 (单位:mm) | | | |
|---------------|------|----|-----|-----------------|-----|----|------|---------------|-----|-----|---|
| | A | B | C | | A | B | C | | A | B | C |
| 30kg | 1604 | 95 | 153 | 30kg | 153 | 95 | 1604 | 10kg | 312 | 312 | |
| 50kg | 1035 | 52 | 83 | 50kg | 83 | 52 | 1035 | 20kg | 149 | 149 | |
| 80kg | 719 | 27 | 44 | 80kg | 44 | 27 | 719 | 30kg | 95 | 95 | |
| 100kg | 608 | 19 | 31 | 100kg | 31 | 19 | 608 | | | | |

- ※ 导轨寿命10,000 km时滑块上面中心至搬运重心的距离。
- ※ 计算寿命时的行程为600 mm。

适用控制器

| 控制器 | 运行方法 |
|-------|-----------|
| EP-01 | 点位跟踪/远程命令 |

容许静态力矩



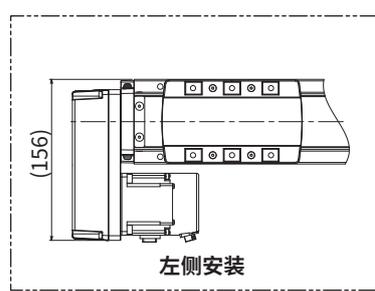
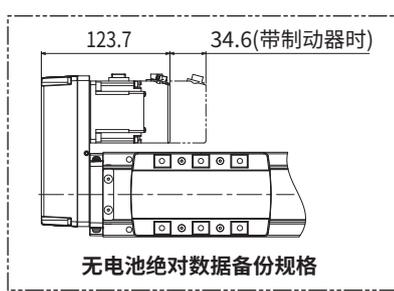
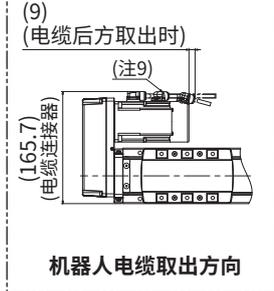
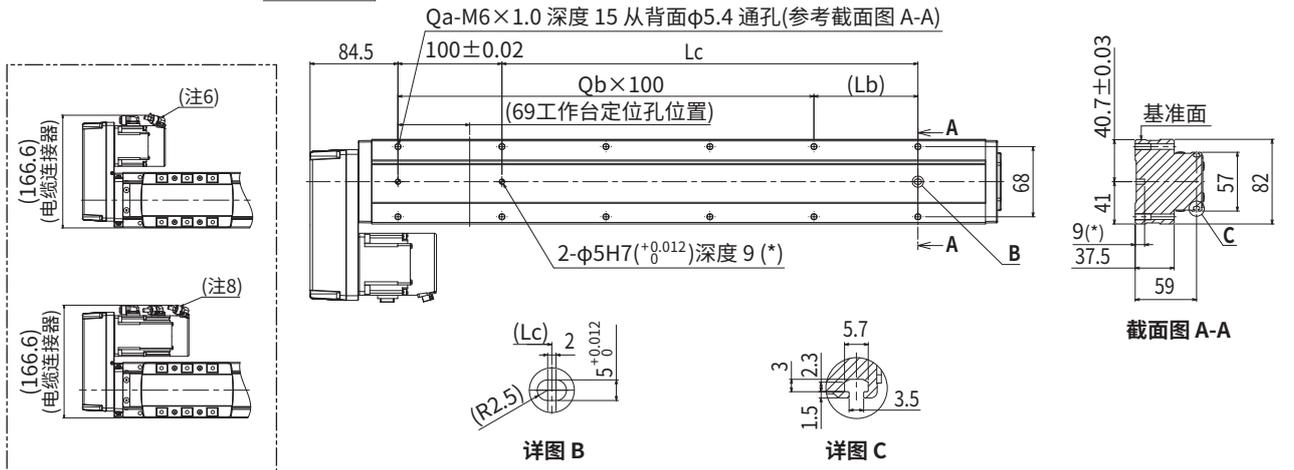
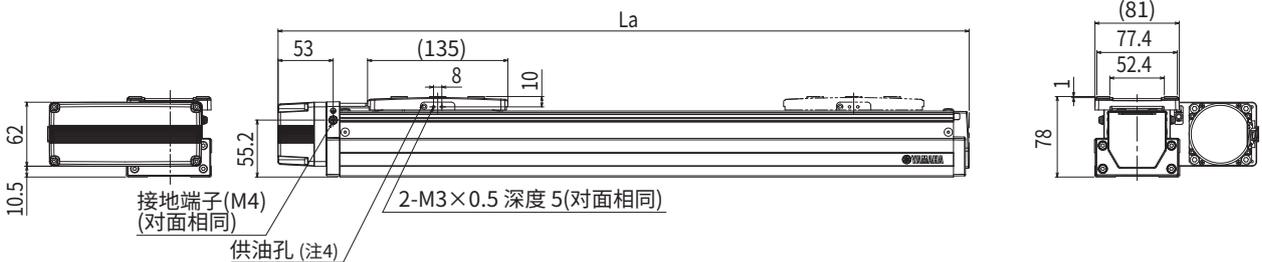
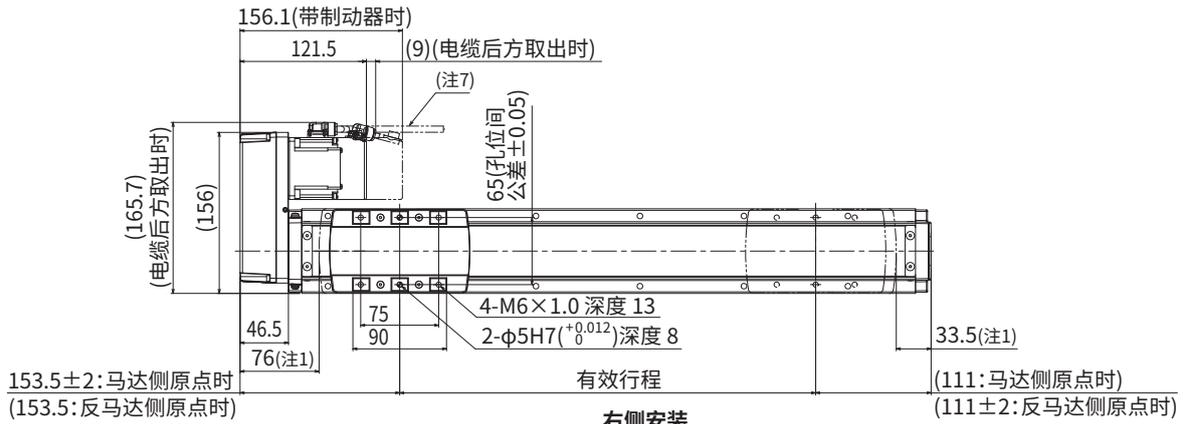
| (单位:N·m) | | |
|----------|-----|-----|
| MY | MP | MR |
| 221 | 309 | 343 |

由此确认



▶ 在本公司会员网站上可轻松进行周期时间模拟、寿命计算。详情请确认P.12。

ABAS08 弯折 (R/L)



- 注1. 从两端到机械限位器限停的位置。
- 注2. 变更原点复归方向时,可通过参数进行变更。(标准为马达侧原点。变更步骤请参阅EP-01的使用说明书)
- 注3. 用安装通孔向主机安装时推荐使用杆长为<<45mm以上>>的内六角螺栓<M5×0.8>。用安装螺孔规格向主机安装时推荐使用杆长为<<台架厚度+15mm以下>>的内六角螺栓<M6×1.0>。
- 注4. 供油用喷嘴(推荐)(详情参阅P.143)
部件编号: KFU-M3861-00
- 注5. 不含制动器的重量。带制动器时的重量比主机重量表中所示值重0.4kg。
- 注6. 机器人电缆前方取出时。
- 注7. 机器人电缆后方取出时。
- 注8. 机器人电缆(带制动器)前方取出时。
- 注9. 机器人电缆(带制动器)后方取出时。
- 注10. 固定机器人电缆的最小弯曲半径为R30。
用作耐弯曲电缆时,最小弯曲半径应在R50以上。
- 注11. 行程为50时,从顶部固定主体的安装通孔(Qa)有一部分会被滑块遮挡,导致只能使用4处位置。因此,建议从底面固定。

| 有效行程 | 50 ^{注11} | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | | |
|------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| La | 314.5 | 364.5 | 414.5 | 464.5 | 514.5 | 564.5 | 614.5 | 664.5 | 714.5 | 764.5 | 814.5 | 864.5 | 914.5 | 964.5 | 1014.5 | 1064.5 | 1114.5 | 1164.5 | 1214.5 | 1264.5 | 1314.5 | 1364.5 | | |
| Lb | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | | |
| Lc | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | | |
| Qa | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | | |
| Qb | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | | |
| 主机重量(kg) ^{注5} | 4.9 | 5.3 | 5.7 | 6 | 6.4 | 6.7 | 7 | 7.4 | 7.7 | 8 | 8.4 | 8.7 | 9.1 | 9.4 | 9.7 | 10 | 10.4 | 10.6 | 11 | 11.3 | 11.7 | 12.1 | | |
| 最高速度 (mm/sec) | 导程20 | | | | | | | | | | | | | | | 1200 | | | | | | | | |
| | 导程10 | | | | | | | | | | | | | | | 600 | | | | | | | | |
| | 导程5 | | | | | | | | | | | | | | | 300 | | | | | | | | |
| | 速度设定 | | | | | | | | | | | | | | | - | | | | | | | | |
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