



AIR20-3100

高速度
高精度
超长臂展
腕部 IP67

High speed
High precision
Ultra-long arm
Wrist IP67

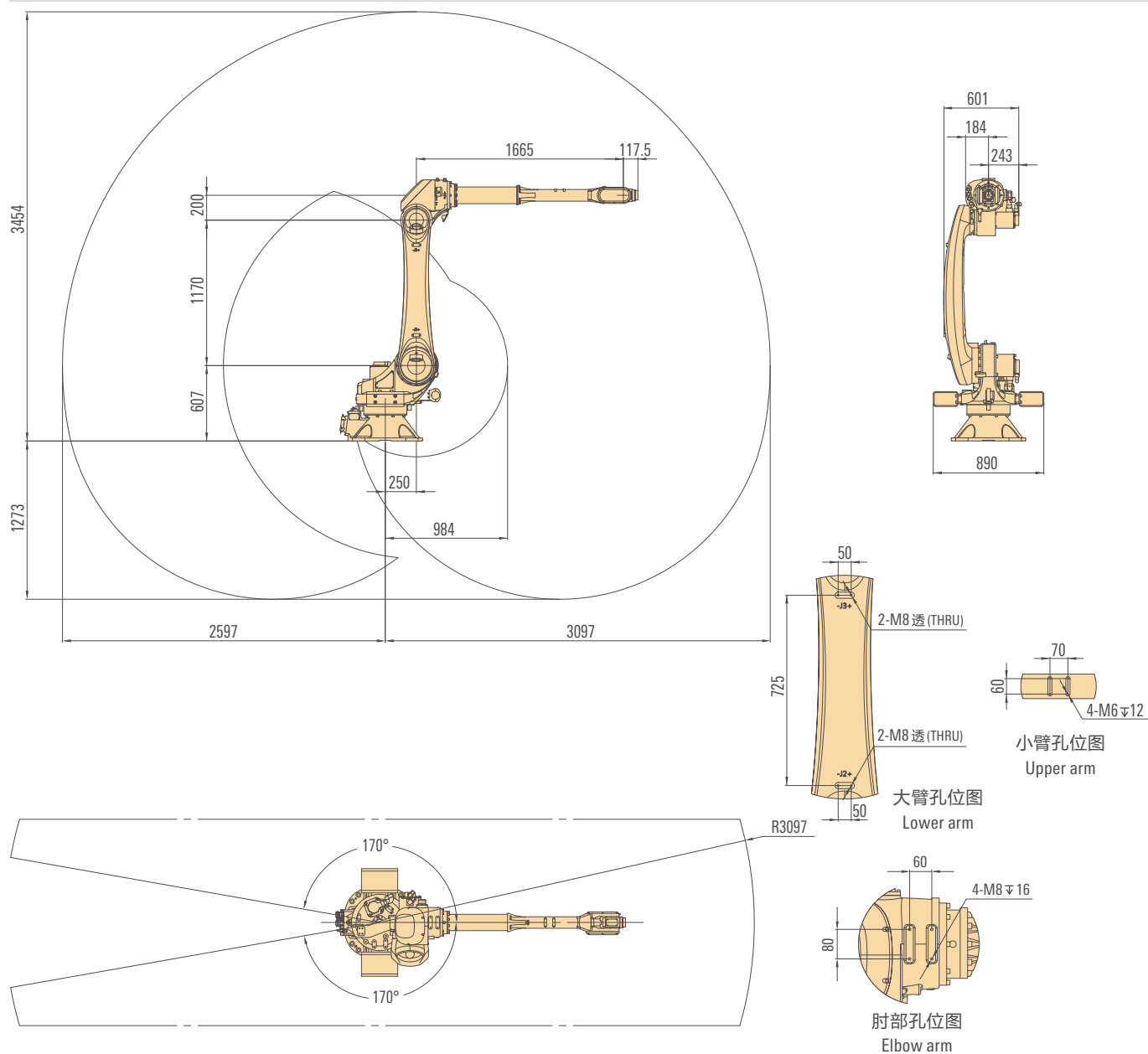
- 采用高速、高过载电机，能量密度高，力矩波动小，运行更平稳。
With higher energy density and smaller torque fluctuations, smoother operation can be achieved by using high-speed and high-overload motors.
- 内置气管和 IO 线束，有效减少外挂线束对周边设备的干扰。
Built-in air tubes and IO harness, effectively reduces the interference of external wiring harness to peripheral equipment.
- 主要应用于钣金、注塑、陶瓷、建材等行业，适用于搬运、码垛、点胶等应用场景。
Mainly used in sheet metal, injection molding, ceramics, building materials and other industries, suitable for handling, palletizing, dispensing and other application scenarios.

型号 Type		AIR20-3100
轴数 Axes		6
负载 Payload		20kg
机器人本体 Manipulator	重量 Weight	550kg
	最大运动范围 Reach	3097mm
定位精度 Positioning accuracy	位置重复定位精度 Position repeatability	±0.03mm
	IP 等级 Ingress Protection	IP54 (腕部 : IP67) IP54 (Wrist : IP67)
安装方式 Mounting		地装 / 吊装 Floor/ ceiling
运动范围 Working range	轴 1* Axis 1 rotation	-170°/+170°
	轴 2 Axis 2 arm	-100°/+100°
	轴 3 Axis 3 arm	-110°/+165°
	轴 4 Axis 4 wrist	-350°/+350°
	轴 5 Axis 5 bend	-125°/+125°
	轴 6 Axis 6 turn	-360°/+360°
运动速度 Rotation rate	轴 1 Axis 1 rotation	185°/s
	轴 2 Axis 2 arm	180°/s
	轴 3 Axis 3 arm	180°/s
	轴 4 Axis 4 wrist	310°/s
	轴 5 Axis 5 bend	375°/s
	轴 6 Axis 6 turn	470°/s
适用控制柜 Controllers		ARC5-280
安装条件 Mounting conditions	环境温度：0~45℃ Ambient temperature: 0~45℃ 湿度：恒温下 95% 以内，无凝露。 Humidity: not more than 95% at constant temperature without condensation. 允许高度：操作机正常工作环境的海拔高度不应超过 1000 米（在 1000 米 -4000 米高度范围内，操作机应降额使用）。 Allowable altitude: not more than 1000m above sea level. 不应有腐蚀性、可燃性、易爆性气体。 No corrosive, flammable or explosive gases.	

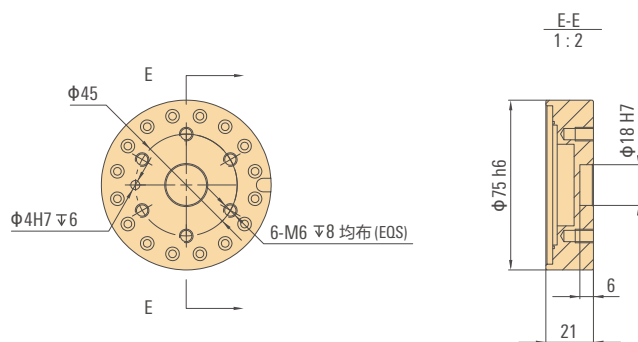
* 若去除机械限位，运动范围可达 -180°/+180°。
If the mechanical limit is removed, the working range can reach -180° /+180°.



外形尺寸及运动范围 Outline dimension and Working range



法兰图 Flange drawing



底座安装图 Base installation drawing

