

机器人规格

KJ264J*E25

2015年06月23日

川崎重工业有限公司

机器人营业部

规格书编号：90101-2586DCA

[1] KJ264本体部规格

| 1. 机械型号 | KJ264J-B0, -B1 (地面式) KJ264J-D0, -D1 (壁挂式、安装面: 左) KJ264J-F0, -F1 (壁挂式、安装面: 右) KJ264J-H0, -H1 (架台式) | | | | | | | | | | | | | |
|---|--|--|---------|--------|---------|-----|----------|------------------------|-----|----------|------------------------|-----|----------|------------------------|
| 2. 手臂形式 | 多关节型 | | | | | | | | | | | | | |
| 3. 动作自由度 | 6 轴 | | | | | | | | | | | | | |
| 4. 构成轴规格 | 动作轴 | 最大动作范围 | | | | | | | | | | | | |
| | 手臂旋转 (JT1) (根据设置形态不同) | KJ264J-B□ +120 ° ~ -120 ° KJ264J-D□ +120 ° ~ -30 ° KJ264J-F□ +30 ° ~ -120 ° KJ264J-H□ +120 ° ~ -120 ° | | | | | | | | | | | | |
| | 手臂伸缩 (JT2) | +130 ° ~ -80 ° | | | | | | | | | | | | |
| | 手臂上下 (JT3) | +90 ° ~ -65 ° | | | | | | | | | | | | |
| | 手腕旋转 (JT4) | +720 ° ~ -720 ° | | | | | | | | | | | | |
| | 手腕弯曲 (JT5) | +720 ° ~ -720 ° | | | | | | | | | | | | |
| | 手腕弯曲 (JT6) | +410 ° ~ -410 ° | | | | | | | | | | | | |
| 5. 重复定位精度 | ±0.5 mm (手腕法兰面) | | | | | | | | | | | | | |
| 6. 最大有效负荷 | 15 kg (手腕部) 25 kg (第2手臂部 : 包含内压室内涂装机器) | | | | | | | | | | | | | |
| 7. 最大涂装速度 | 1500 mm/s | | | | | | | | | | | | | |
| 8. 手腕负荷能力 | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">最大负荷扭矩</th> <th style="text-align: center;">负荷惯性力矩*</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">JT4</td> <td style="text-align: center;">56.2 N·m</td> <td style="text-align: center;">2.19 kg·m²</td> </tr> <tr> <td style="text-align: center;">JT5</td> <td style="text-align: center;">43.4 N·m</td> <td style="text-align: center;">1.31 kg·m²</td> </tr> <tr> <td style="text-align: center;">JT6</td> <td style="text-align: center;">22.0 N·m</td> <td style="text-align: center;">0.33 kg·m²</td> </tr> </tbody> </table> | | | 最大负荷扭矩 | 负荷惯性力矩* | JT4 | 56.2 N·m | 2.19 kg·m ² | JT5 | 43.4 N·m | 1.31 kg·m ² | JT6 | 22.0 N·m | 0.33 kg·m ² |
| | | 最大负荷扭矩 | 负荷惯性力矩* | | | | | | | | | | | |
| JT4 | 56.2 N·m | 2.19 kg·m ² | | | | | | | | | | | | |
| JT5 | 43.4 N·m | 1.31 kg·m ² | | | | | | | | | | | | |
| JT6 | 22.0 N·m | 0.33 kg·m ² | | | | | | | | | | | | |
| <p>注* 此表中的数值表示在手腕各轴施加最大惯量时的许用惯性力矩。 关于其他的详细内容, 请另外垂询我公司。</p> | | | | | | | | | | | | | | |
| 9. 驱动电机 | 同期型无电刷电机 | | | | | | | | | | | | | |
| 10. 作业范围 | 参照附加图 | | | | | | | | | | | | | |
| 11. 机器重量 | KJ264J-B□ 约540 kg (可选除外) KJ264J-D□, -F□, -H□ 约530 kg (可选除外) | | | | | | | | | | | | | |
| 12. 涂装色 | Munsell 10GY9/1 等效 | | | | | | | | | | | | | |
| 13. 设置方法 | KJ264J-B□(地面式) KJ264J-D□(壁挂式, 安装面: 左) KJ264J-F□(壁挂式, 安装面: 右) KJ264J-H□(架台式) | | | | | | | | | | | | | |
| 14. 设置环境 | 周围温度0 ~ 40 °C, 相对湿度35 ~ 85 %, (无结露) | | | | | | | | | | | | | |
| 15. 防爆构造 | 内压防爆+本质安全防爆构造 | | | | | | | | | | | | | |
| 16. 空气供给 | 清洁, 干燥空气 : 0.5 Nm ³ /min, 0.4~0.7 MPa 大气压露点: -17 °C 以下 固体材料 : 0.01 μm 或以下 油量检测 : 雾分离99.9999%以上 | | | | | | | | | | | | | |
| 17. 选装 | 可调节机械制动器 : JT1/JT2/JT3 | | | | | | | | | | | | | |
| | 喷涂设备 | | | | | | | | | | | | | |
| | FGP马达 (最多可配1个) | | | | | | | | | | | | | |
| | 电磁阀 (最多可配3个) | | | | | | | | | | | | | |
| | 电控转换器 (最多可配3个) | | | | | | | | | | | | | |
| | 第2手臂部上盖 | | | | | | | | | | | | | |
| 18. 其他 | 关于维护部件, 备件, 请另行咨询. | | | | | | | | | | | | | |

| (2) 控制部规格 | | |
|----------------|---|-----------------------------------|
| 1. 控制柜型号 | E25/E27 | |
| 2. 构造 | 独立全封闭间接冷却系统 | |
| 3. 构成及尺寸 | 参照添附图 | |
| 4. 控制的轴数 | 6轴 (选件: 最大9轴 [盘内增设]) | |
| 5. 驱动方式 | 全数字伺服方式 | |
| 6. 控制类型 | 示教模式 | 各轴独立、基本坐标系、工具坐标系、 固定工具坐标系 (选件) |
| | 再现模式 | 各轴/直线、圆弧插补动作 (选件) |
| 7. 示教方法 | 简单操作示教或AS语言编程 | |
| 8. 存储器容量 | 8 MB | |
| 9. 通用信号 | 外部操作信号 | 紧急停止, 外部同期信号等 |
| | 输入信号 | 32通道 (含专用信号) |
| | 输出信号 | 32通道 (含专用信号) |
| 10. 操作面板 | 示教/再现转换开关、紧急停止开关、电源灯 | |
| 11. 线缆 | 分离线缆 (控制盘 ↔ 中继连接器) | 3 m |
| | 分离线缆 (中继连接器 ↔ 机器人本体) | 3 m |
| | 示教器线缆 | 10 m |
| 12. 重量 | 参照添附图 | |
| 13. 电源要求 | AC200 - AC220 V ± 10%, 50/60 Hz, 3相 5.6 kVA (E27)、10 kVA (E25) | |
| | A种接地 (防爆用)、D种接地 (机器人专用接地)、漏电电流 最大100 mA | |
| 14. 环境条件 | 环境温度 0~45 °C、相对湿度 35~85% (无凝露, 无结霜) | |
| 15. 颜色 | Munsell 10GY9/1 等效 | |
| 16. 示教器 | 本质安全防爆、配有5.7英寸TFT彩色液晶触摸屏 非常停止开关、示教锁定开关、误操作自动停机开关 | |
| 17. 选装件 | | |
| 输入输出信号 | 各64、96、128通道 | |
| 通用信号用连接器 | D-SUB 37端口 (公/母) 付保护套 | |
| 操作面板 | 马达ON、循环开始、RUN/HOLD、错误重置、遥控/局部开关、报警指示灯 | |
| 分离线缆 | (控制盘 ↔ 中继连接器) 5, 7, 10, 15, 20, 25, 30m | 全长为40m |
| | (中继连接器 ↔ 机器人本体) 1, 5, 7, 10, 15m | |
| 示教器线缆 | 5 m、15 m、20 m、25m | 全长为30m |
| 示教器中继 连接盒线缆 | (控制盘 ↔ 配件) 1, 3, 5, 7, 10, 15m (配件 ↔ 连接盒) 1, 3, 5, 7, 10, 15m | |
| 辅助存储 | USB存储器 | |
| 马达制动解除装置 | 解除制动开关 | |
| AC插座 | AC100V插座 | |
| 电脑连接线缆 | 1.5 m、3 m | |
| 示教器选装件 | 线缆挂钩、短路连接器 | |
| 盘内照明 | LED照明 | |
| 控制盘冷却设备 | 请另行商谈。 | |
| 现场总线 | 请另行商谈。 | |
| 内置顺控功能 | 请另行商谈。 | |
| 模拟输入输出 | 请另行商谈。 | |
| 传送带同期 | 请另行商谈。 | |
| 喷涂机器控制 | 请另行商谈。 | |
| 18. 其他 | 有关维护, 维修零件请另行商谈。 | |

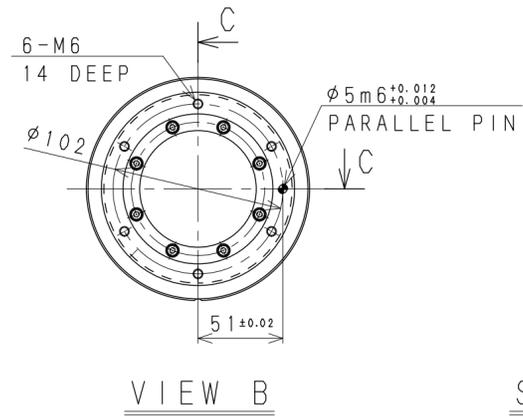
2. 保修期及保修内容

(1) 保修期

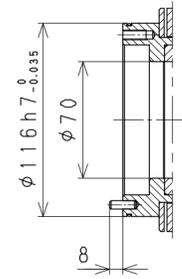
- 1) 本机的交货日开始一年或运转3000小时为止。
- 2) 含周边装置等系统交货的情况下，依照另行提出的制作规格书为准。

(2) 保修内容

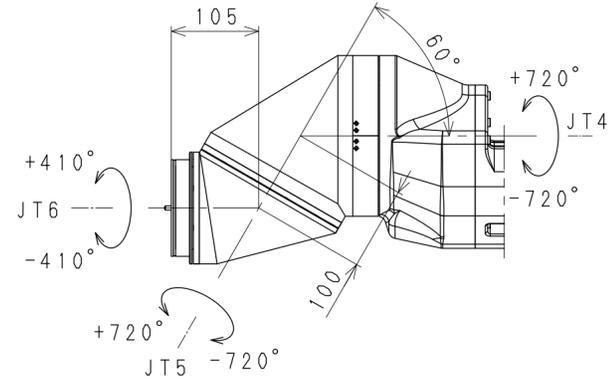
- 1) 在保修期内，如果是我公司的原因造成的构成本机的零件发生问题，在我公司认可的情况下，提供无偿修理服务。
另外，上述保修的适应范围仅限我公司交付的制品，除此之外不负任何责任。
- 2) 即使在保修期内，对下列情况也不适用无偿修理服务。
 - ① 没有按「说明书」记载的注意事项操作而发生的故障。
 - ② 由贵公司进行的修理，改造，移动或使用者的不当操作而引发的故障。
 - ③ 因未满足「说明书」的点检，调整，维修要求而发生的故障。
 - ④ 没有使用纯正零件或我公司指定的零件及润滑油而发生的故障。
 - ⑤ 「说明书」上记载的消耗品的消耗及此消耗引起的故障和更换费用。
 - ⑥ 因火灾，地震，水灾，闪电或不适当的使用，亦或第三者的加害，偷盗等发生的故障
 - ⑦ 我公司施行范围外的运输及施工而导致的故障。
 - ⑧ 声响，振动，渗油，褪色，生锈及外观上的轻微瑕疵等并非性能上问题的。
(根据规格的内容，另行签订合同。)
- 3) 此保修只适用于日本国内使用的机器人。
- 4) 转卖，转让，贷与，转移至其他国家的情况，另行签订合同。



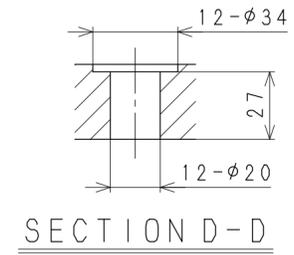
VIEW B



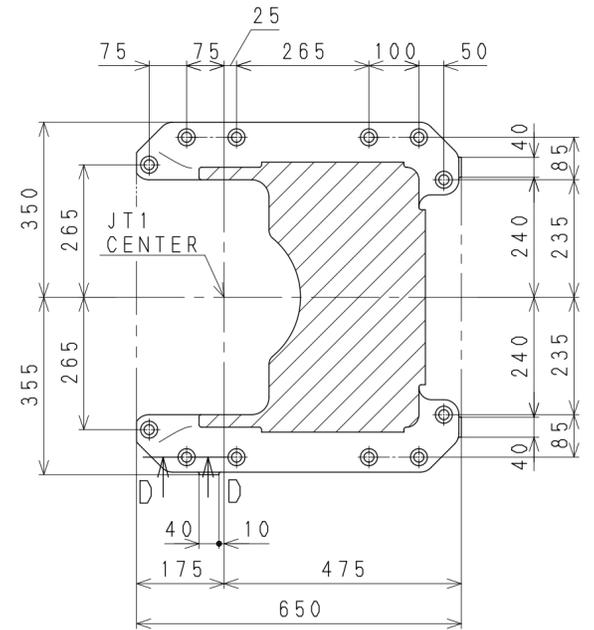
SECTION C-C



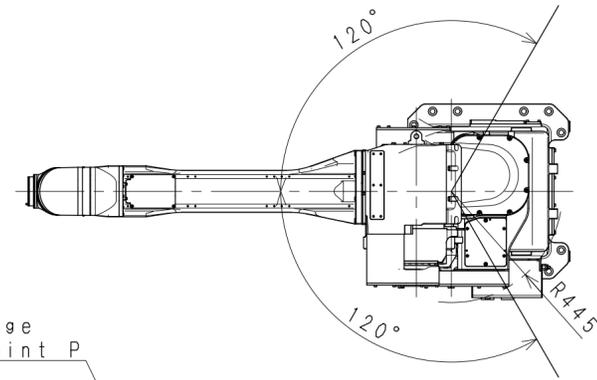
DETAIL A



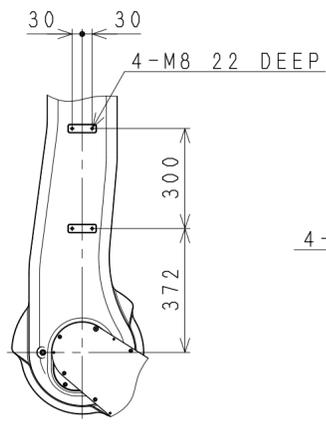
SECTION D-D



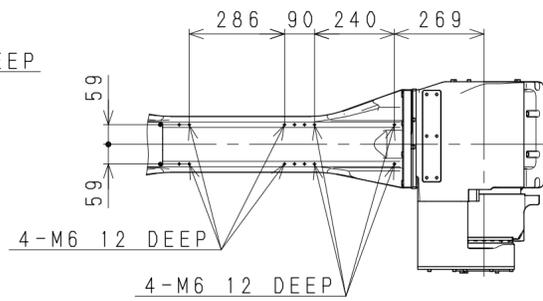
Base Installation Dimensions



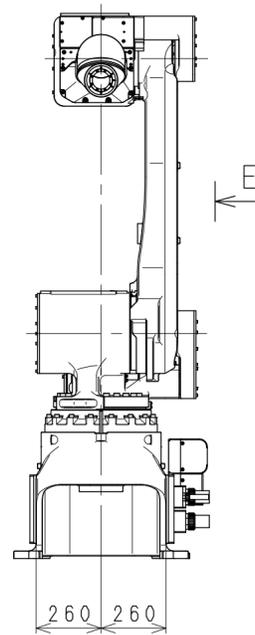
Working range based on point P



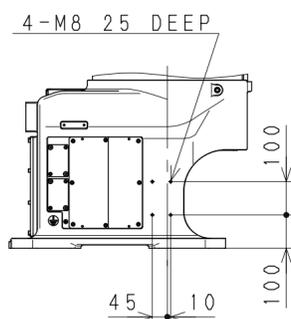
VIEW E



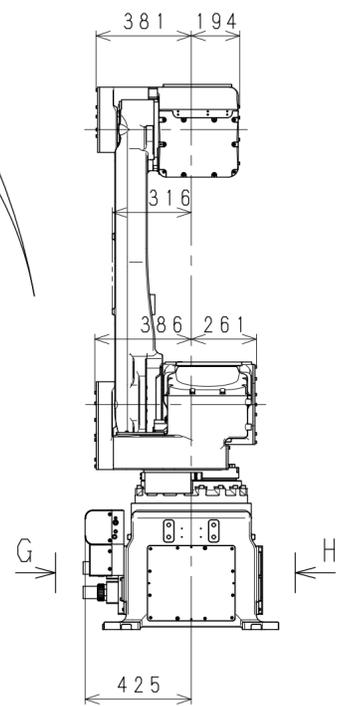
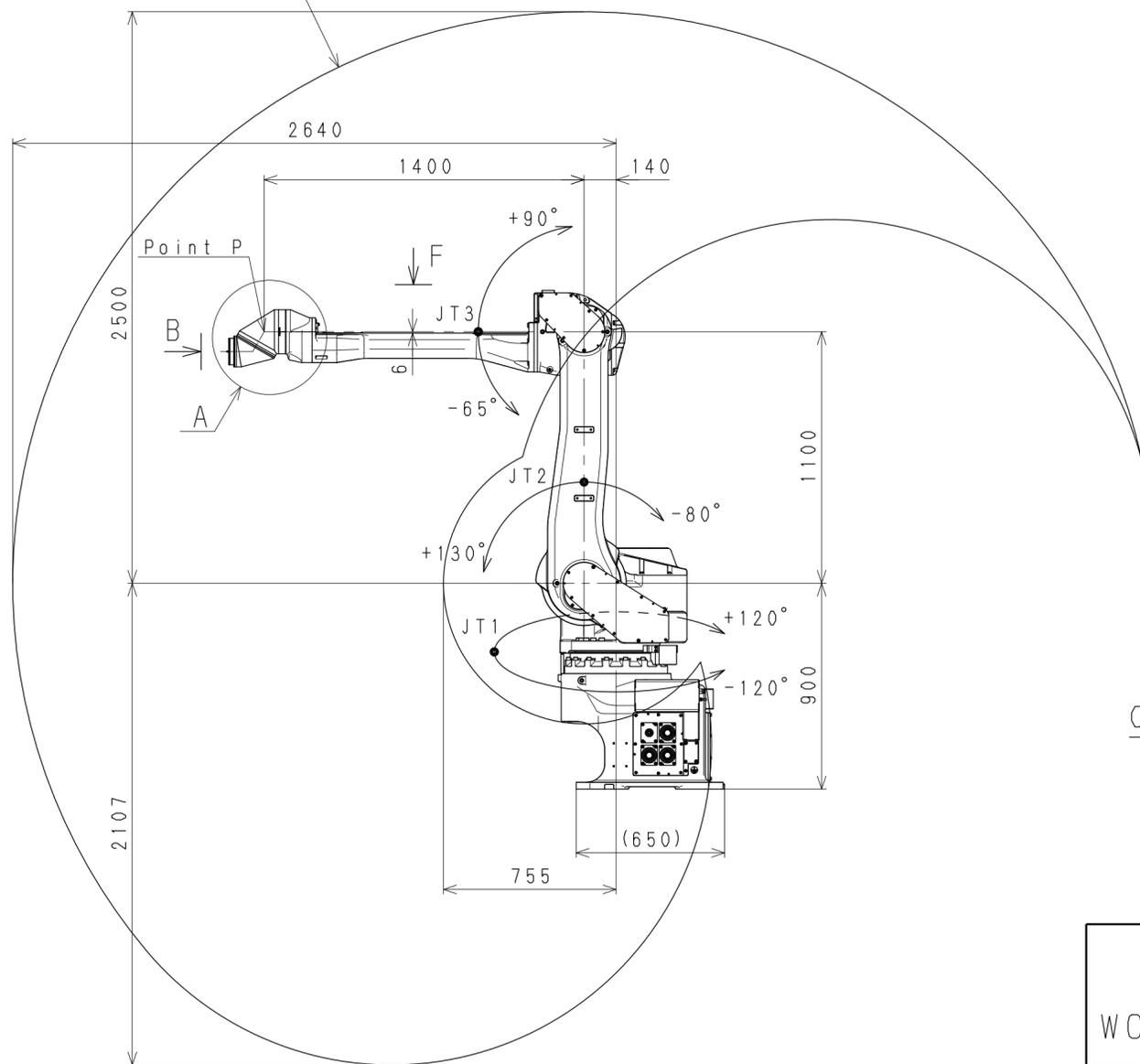
VIEW F



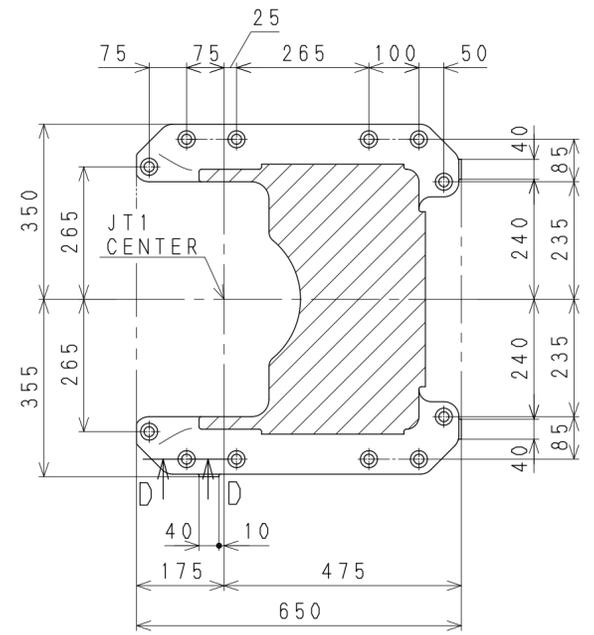
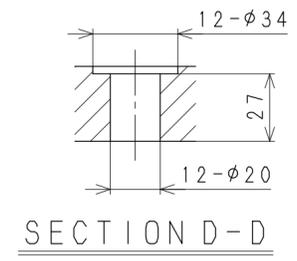
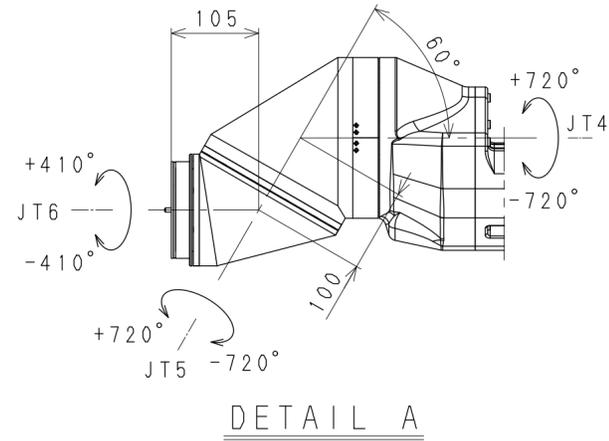
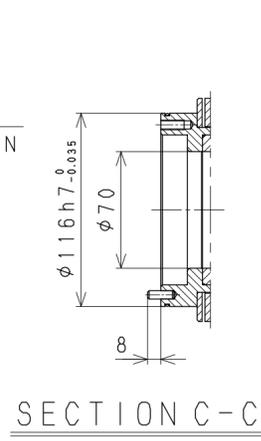
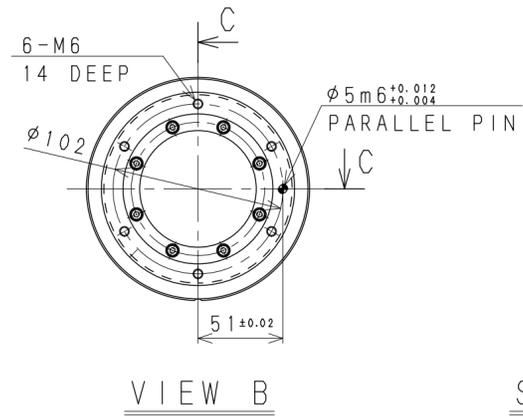
VIEW G



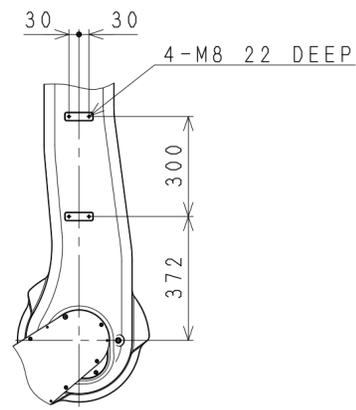
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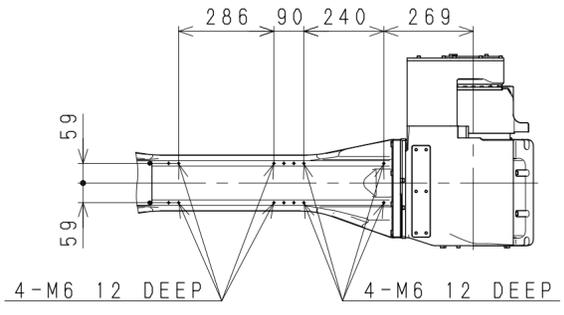
KJ264J-B0 WORKING RANGE



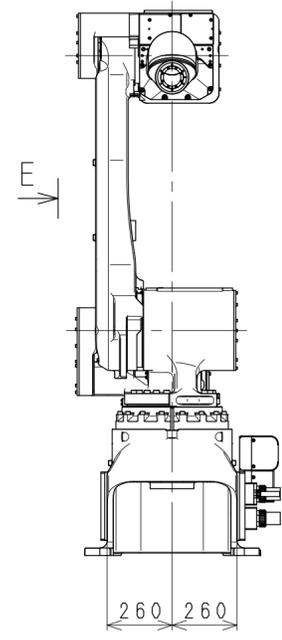
Base Installation Dimensions



VIEW E

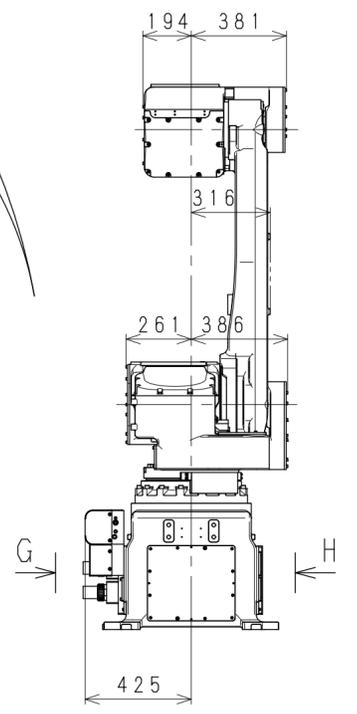
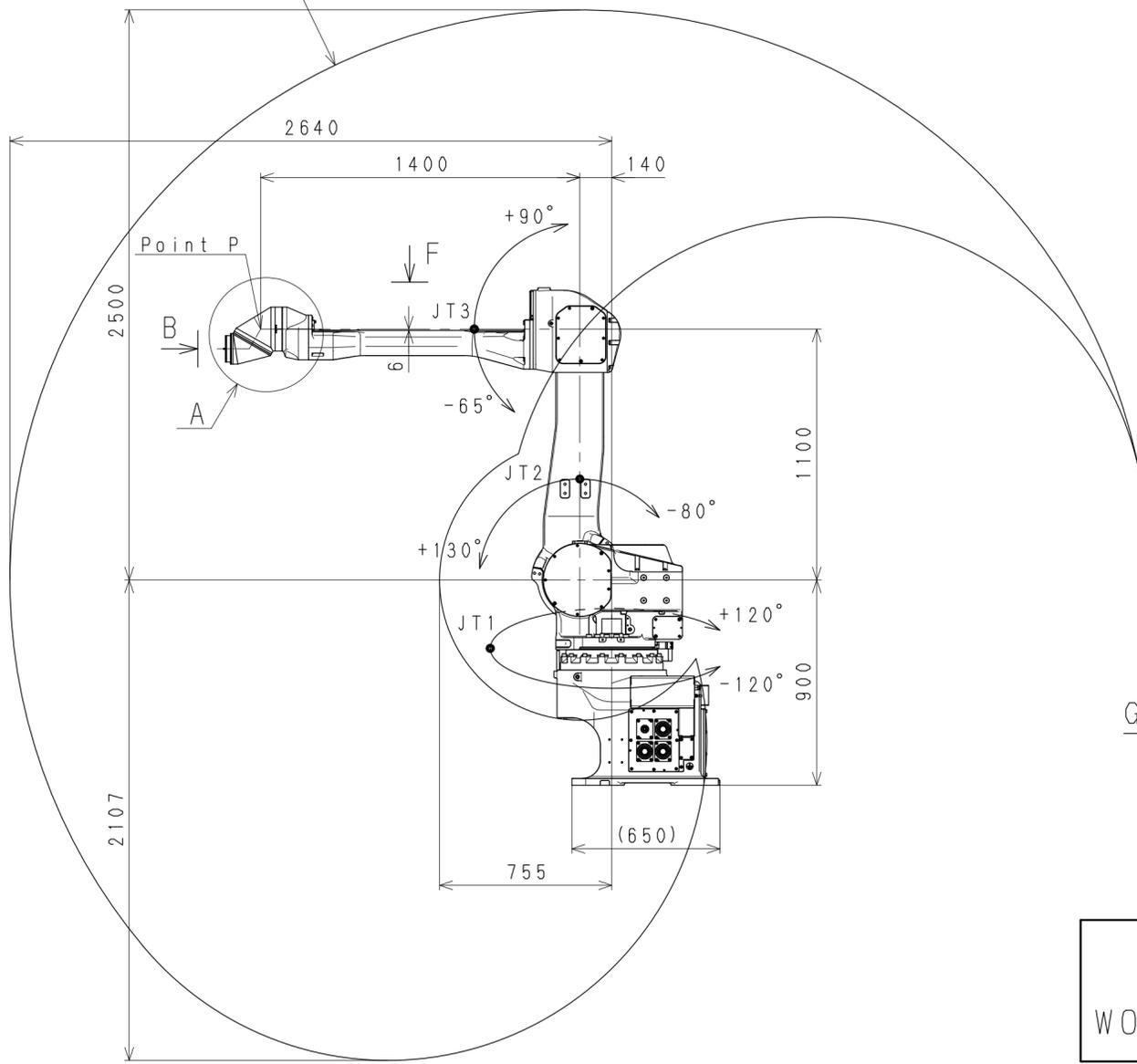
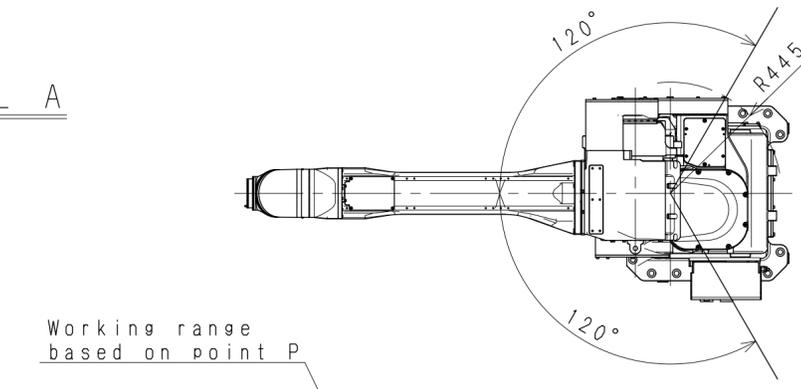


VIEW F

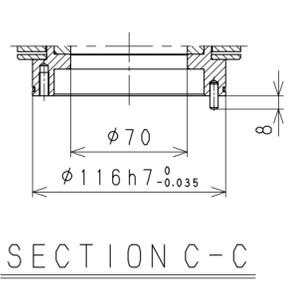


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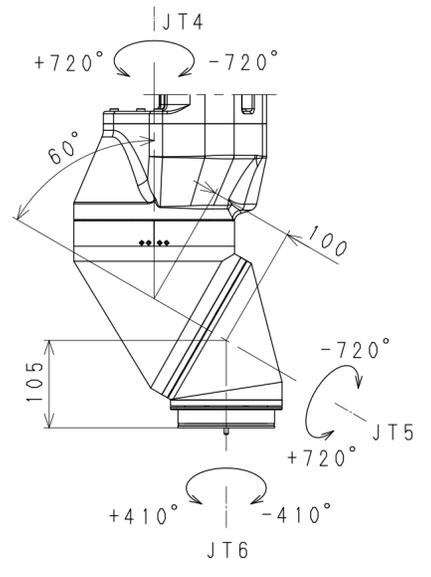
VIEW H



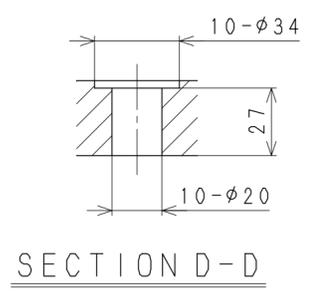
KJ264J-B1 WORKING RANGE



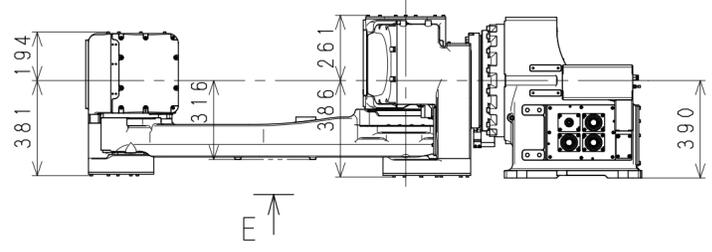
SECTION C-C



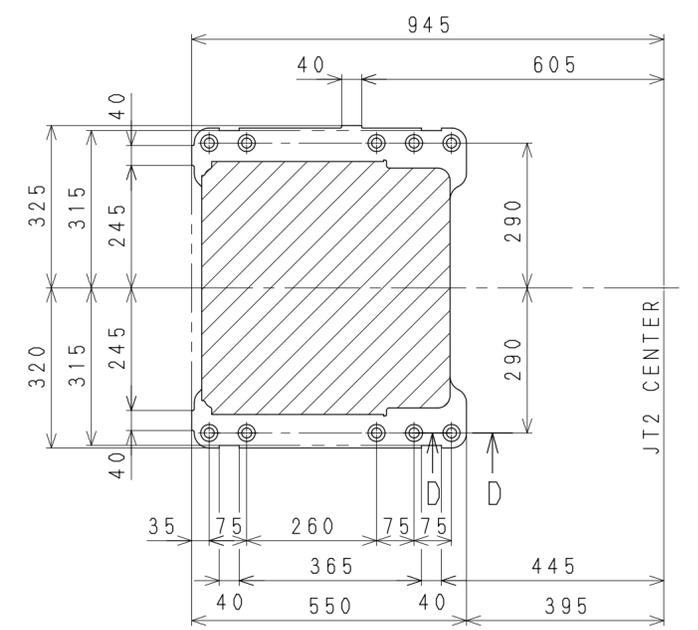
DETAIL A



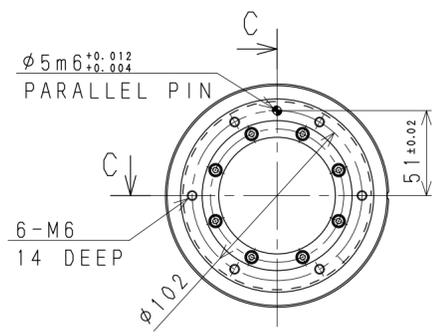
SECTION D-D



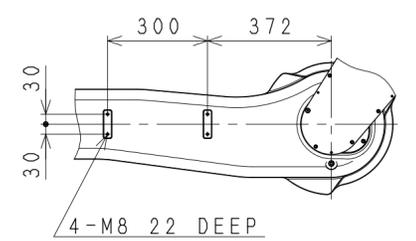
E



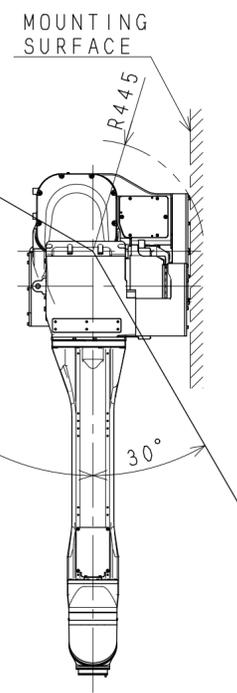
Base Installation Dimensions



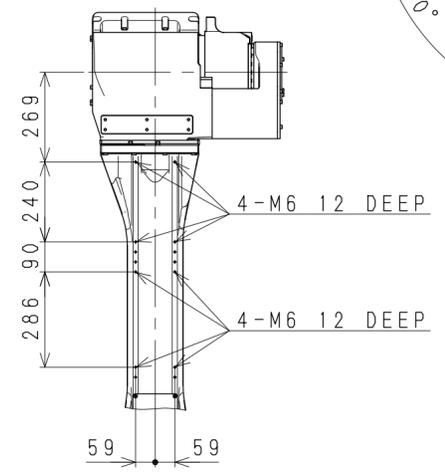
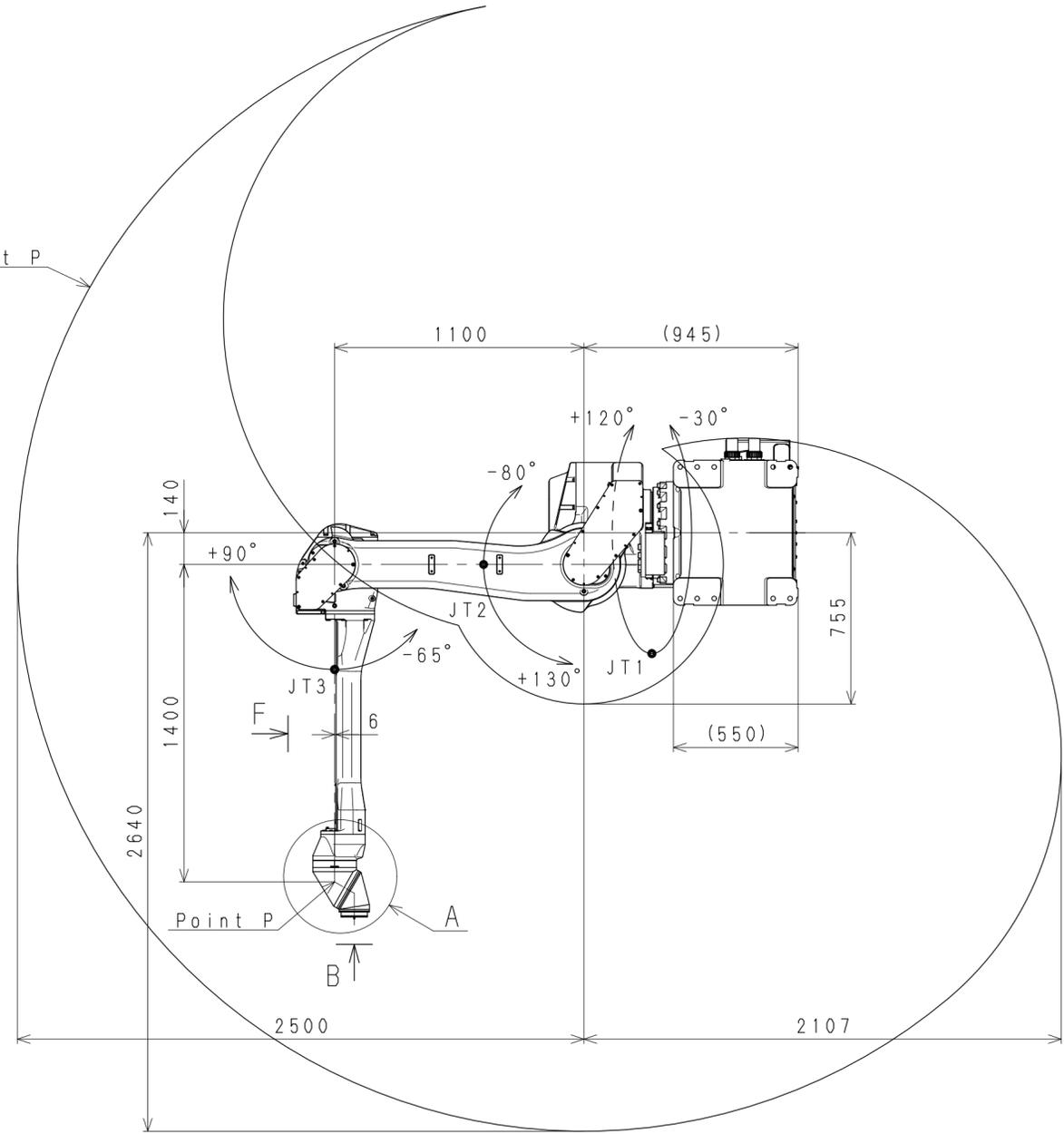
VIEW B



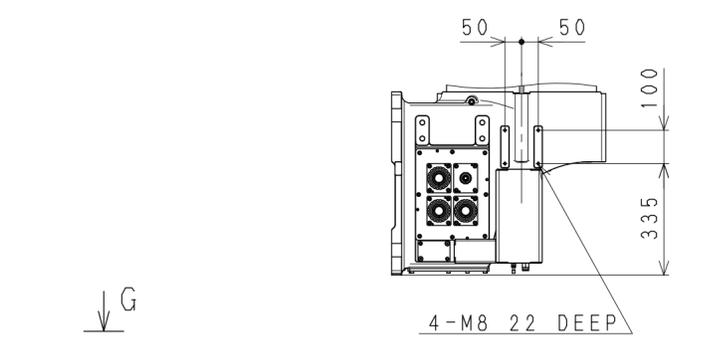
VIEW E



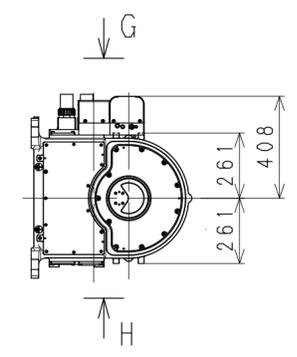
Working range based on point P



VIEW F

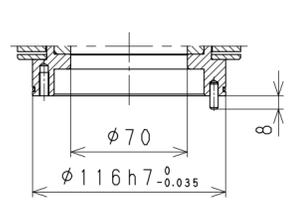


VIEW G

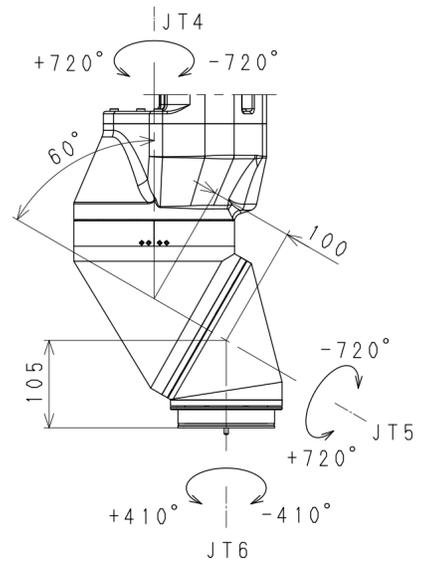


VIEW H

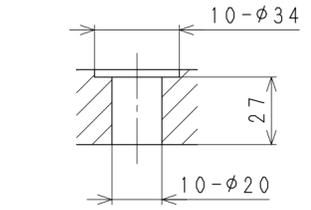
KJ264J-D0
WORKING RANGE



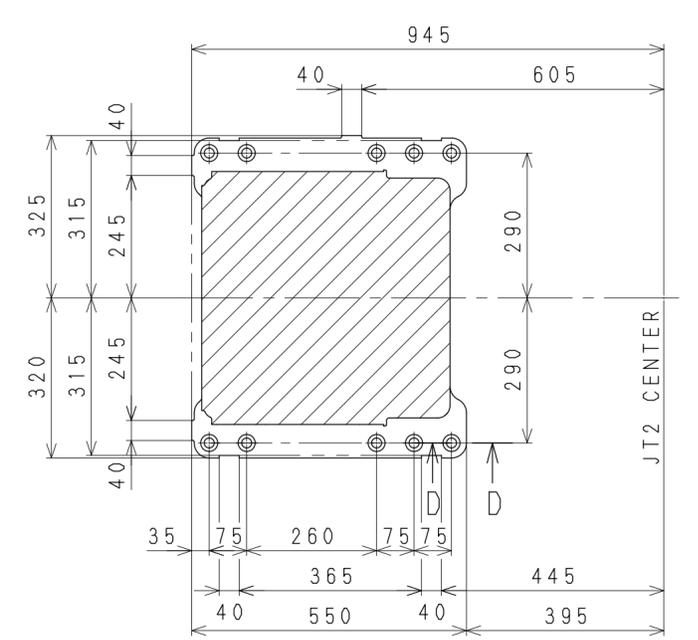
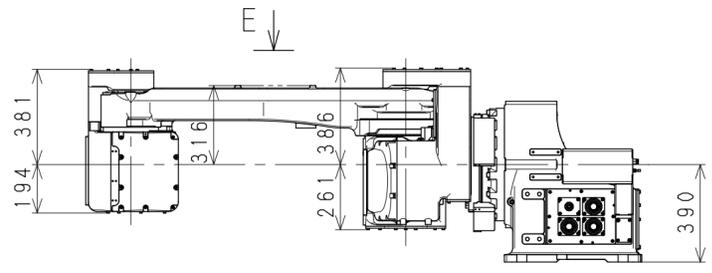
SECTION C-C



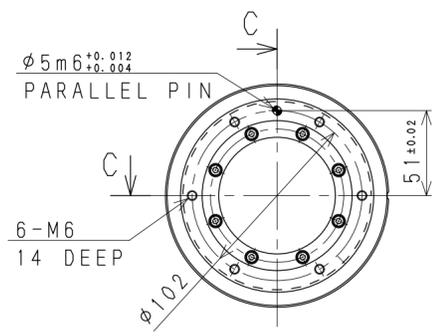
DETAIL A



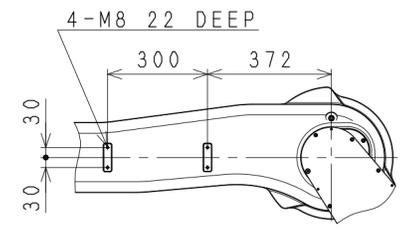
SECTION D-D



Base Installation Dimensions



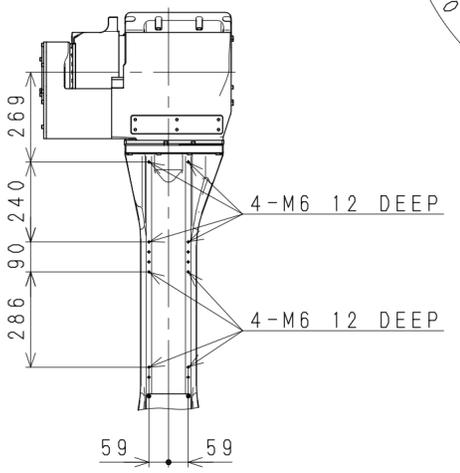
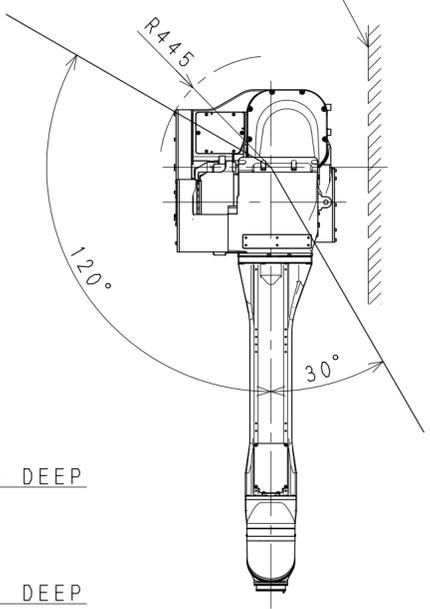
VIEW B



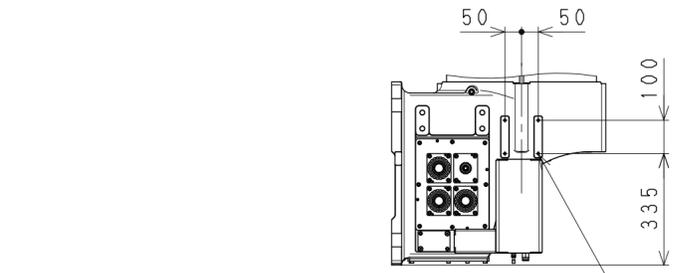
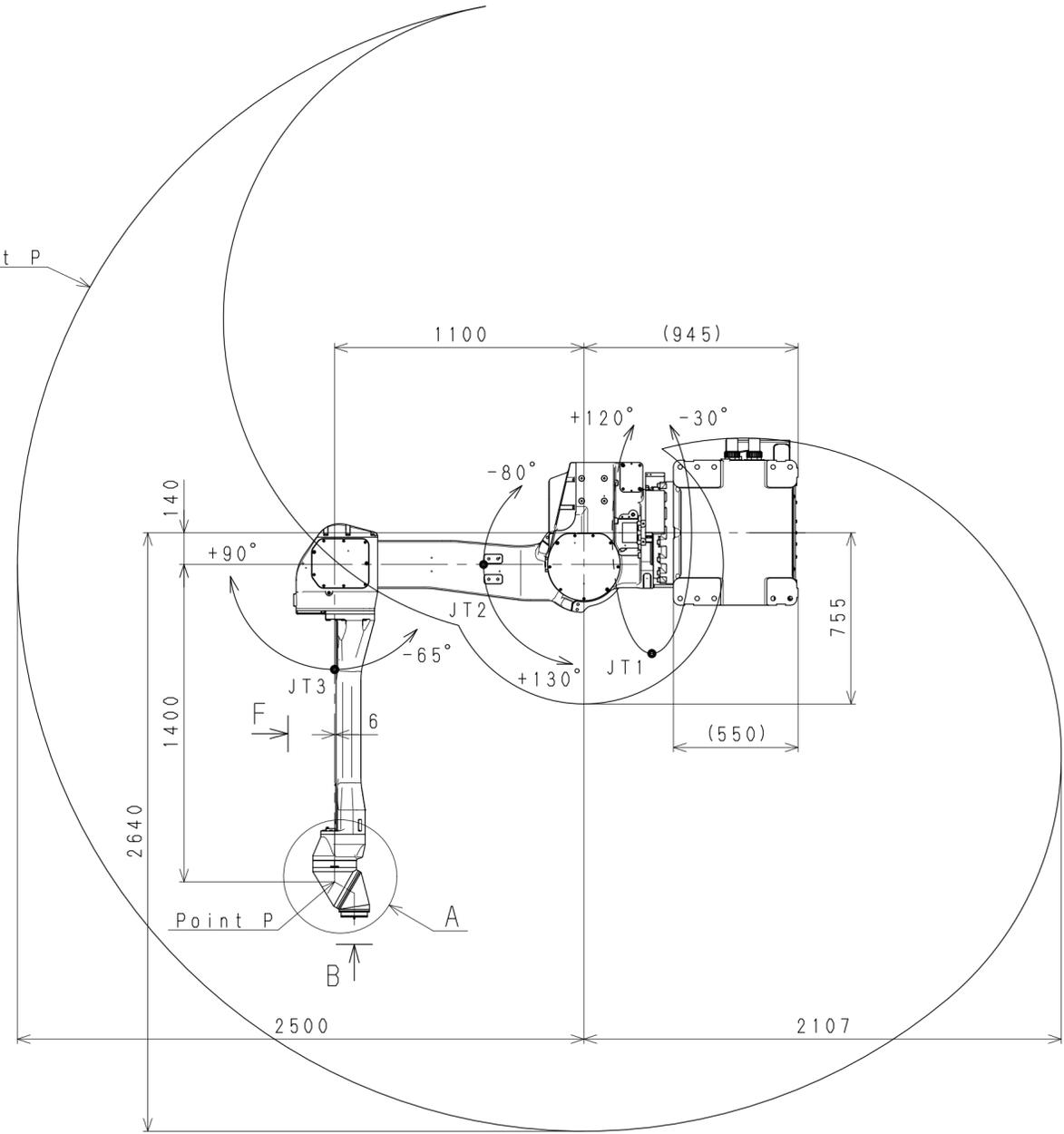
VIEW E

Working range based on point P

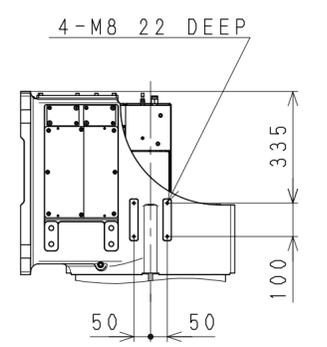
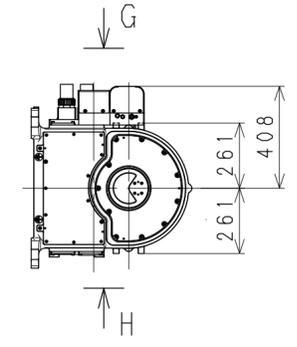
MOUNTING SURFACE



VIEW F

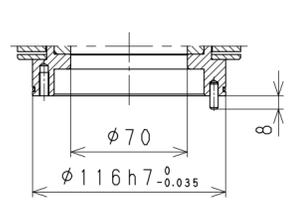


VIEW G

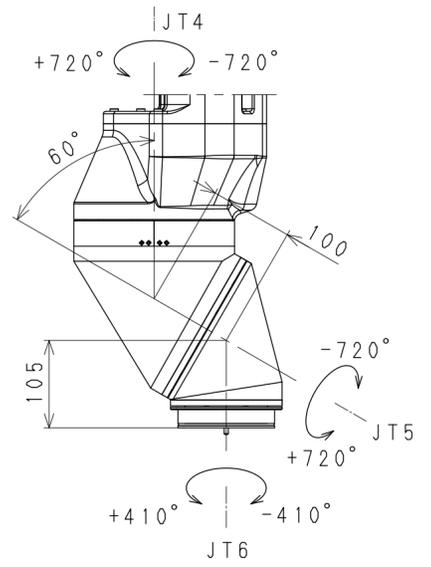


VIEW H

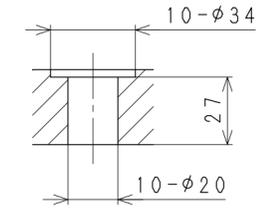
KJ264J-D1
WORKING RANGE



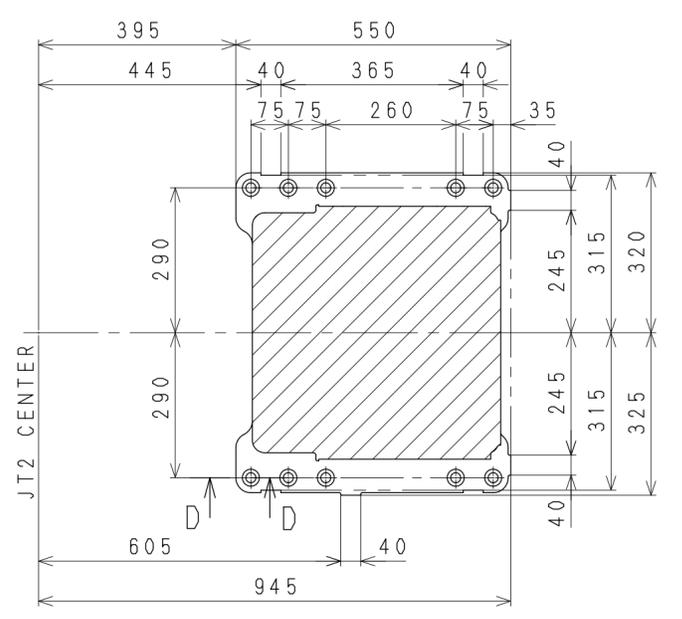
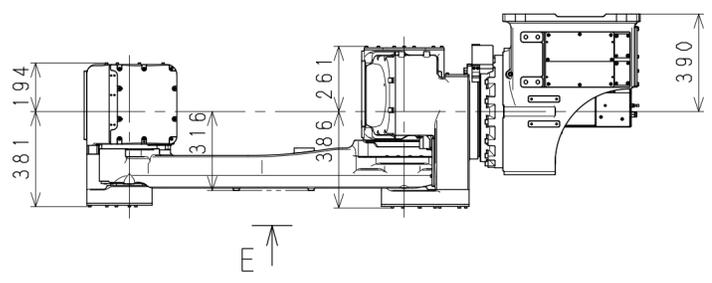
SECTION C-C



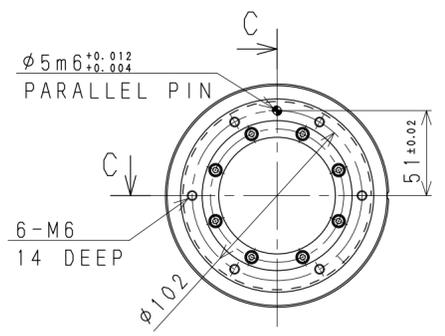
DETAIL A



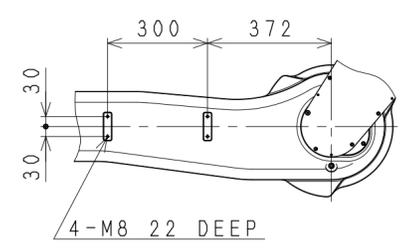
SECTION D-D



Base Installation Dimensions

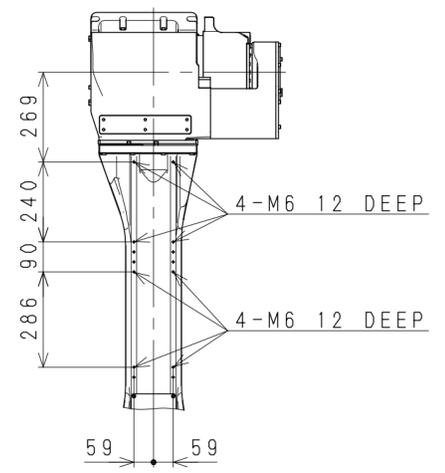
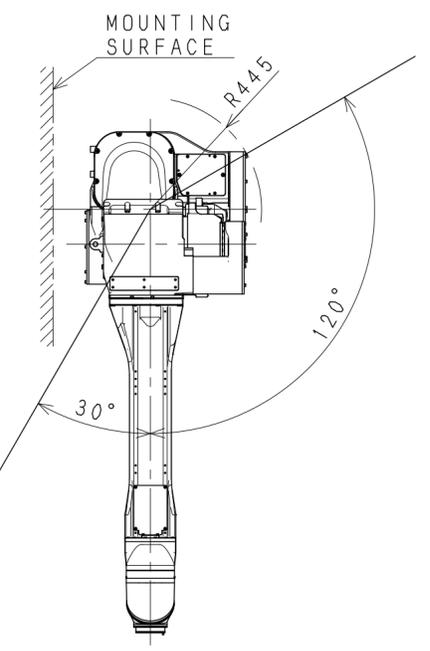


VIEW B

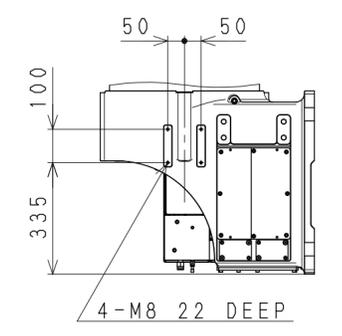
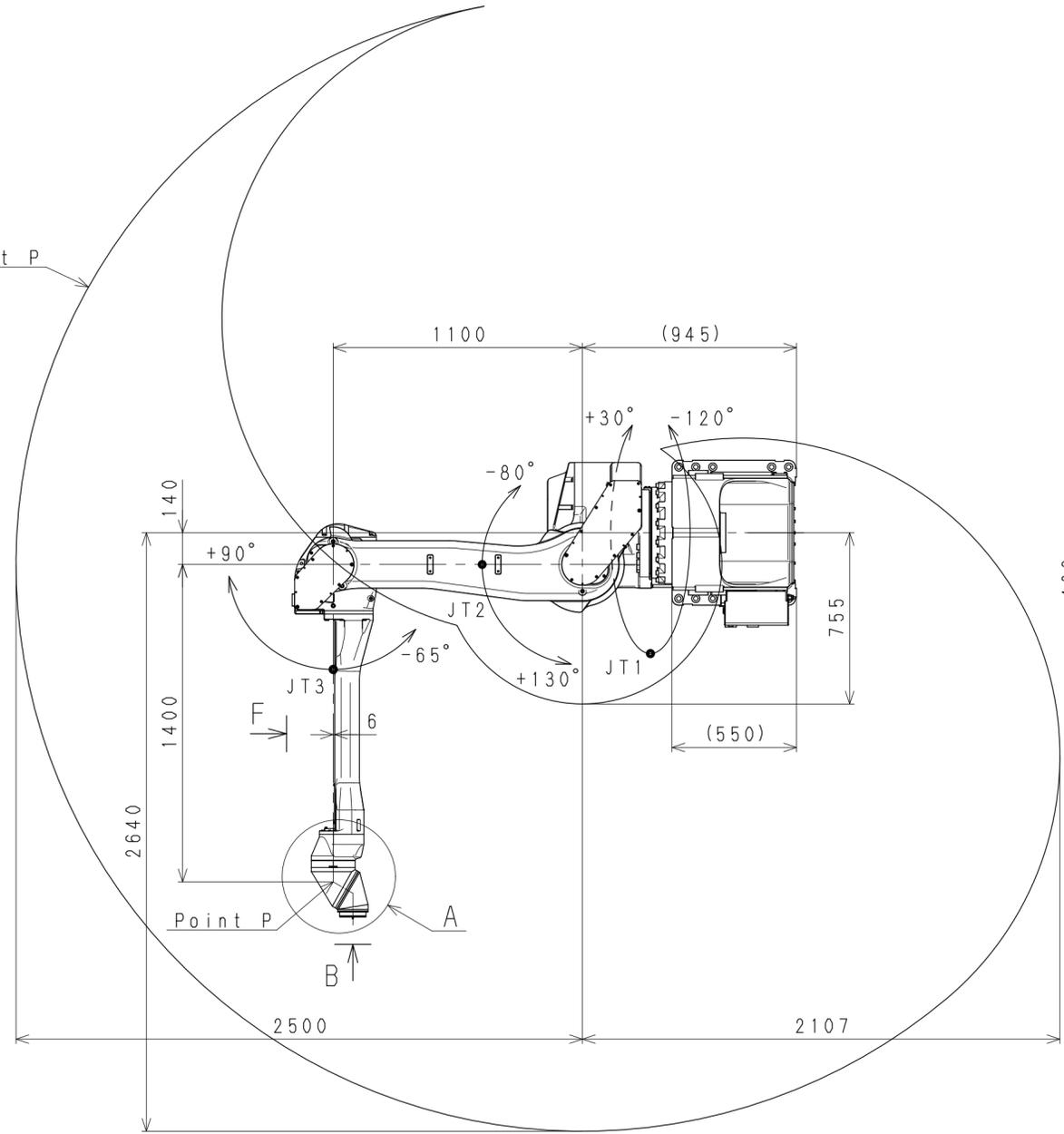


VIEW E

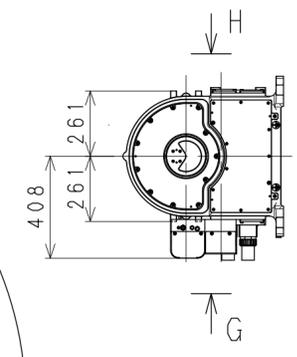
Working range based on point P



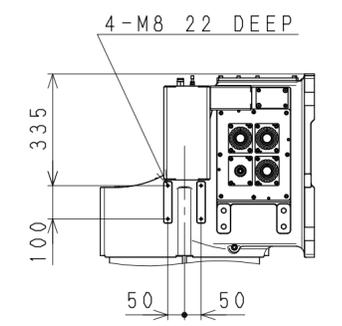
VIEW F



VIEW H

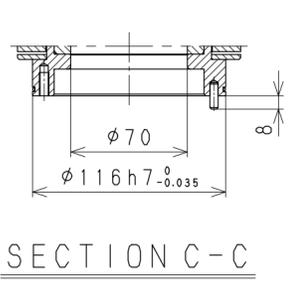


G

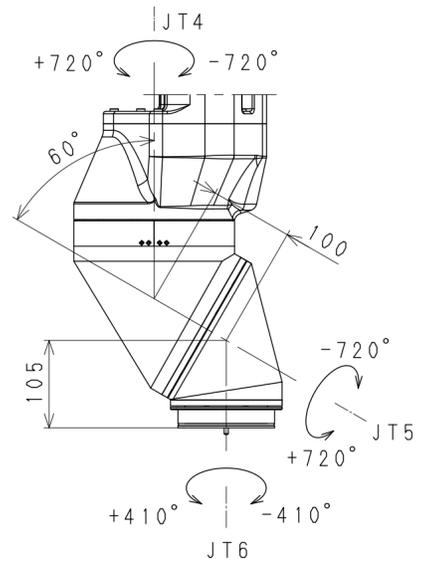


VIEW G

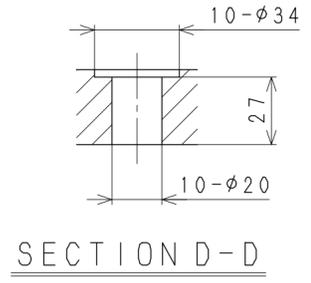
KJ264J-F0
WORKING RANGE



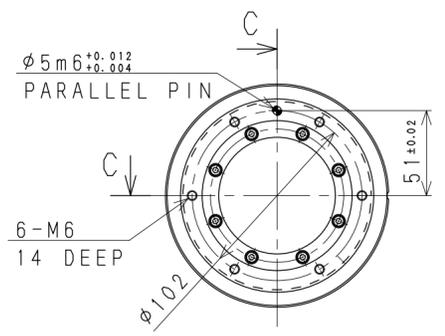
SECTION C-C



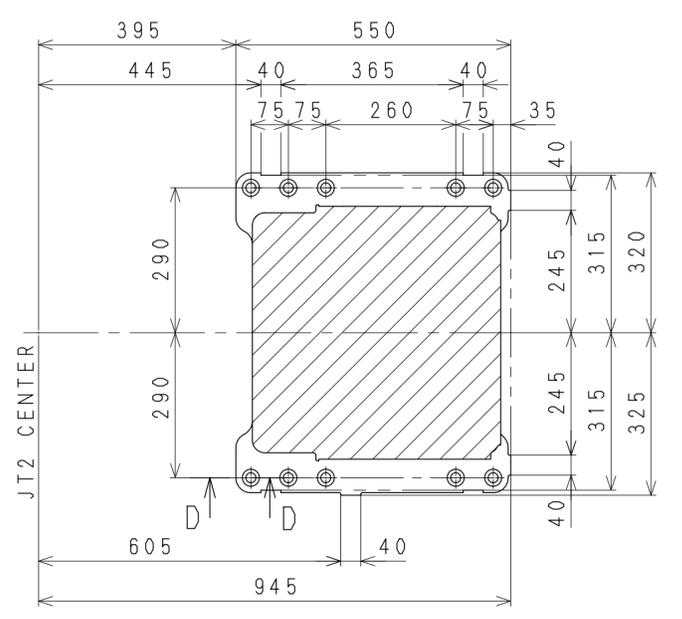
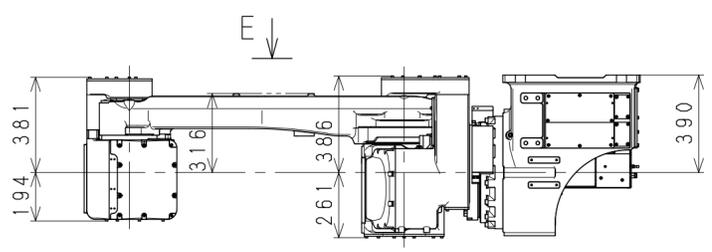
DETAIL A



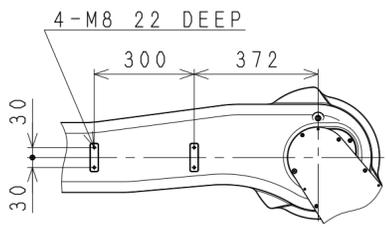
SECTION D-D



VIEW B

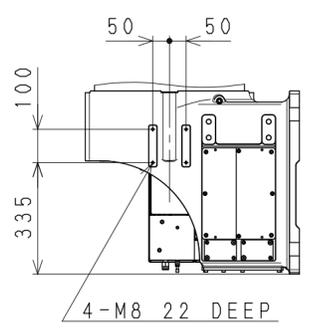
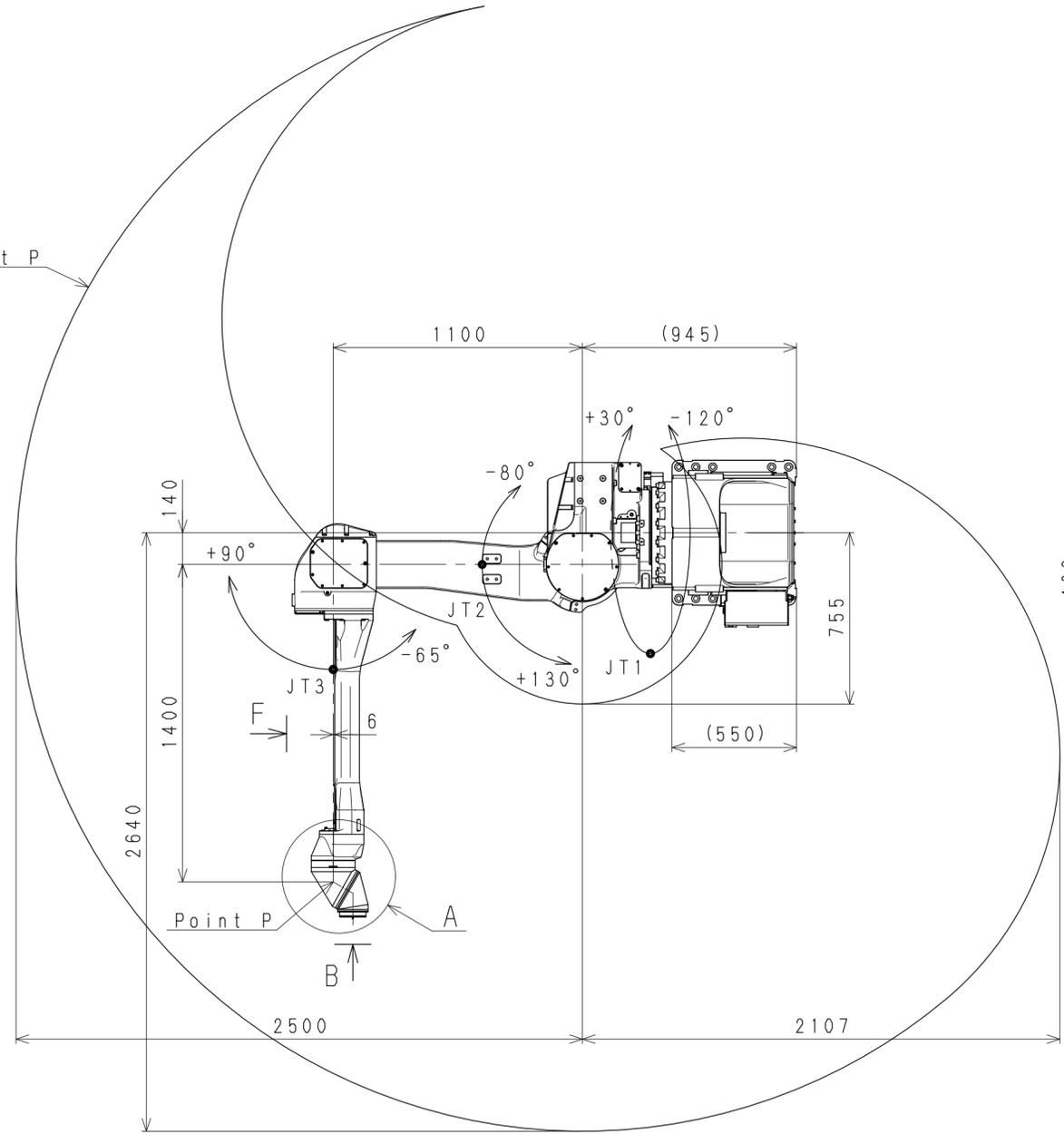
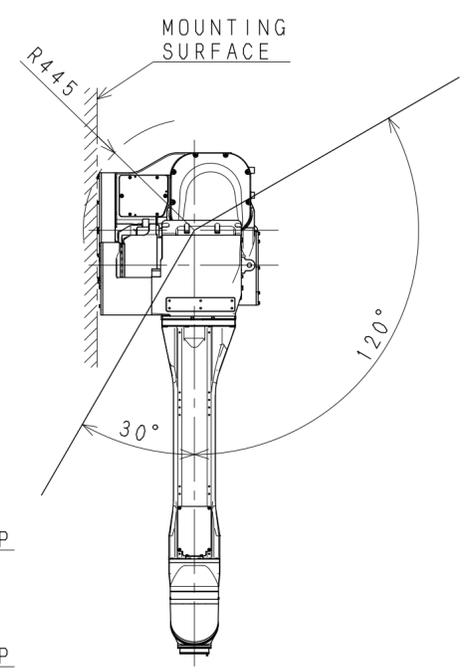


Base Installation Dimensions

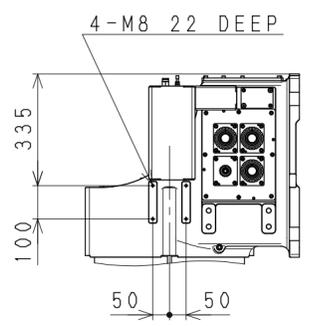
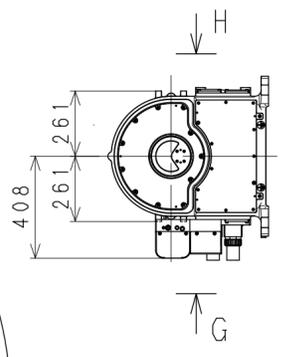


VIEW E

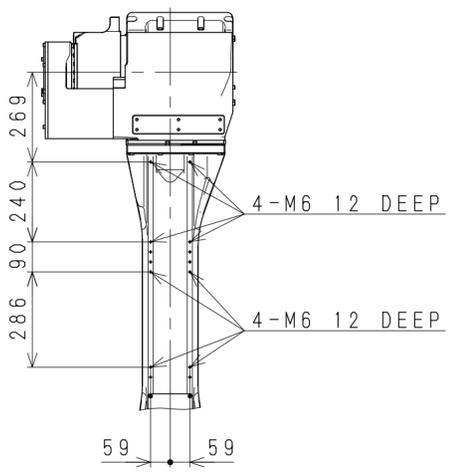
Working range based on point P



VIEW H

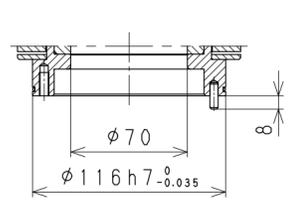


VIEW G

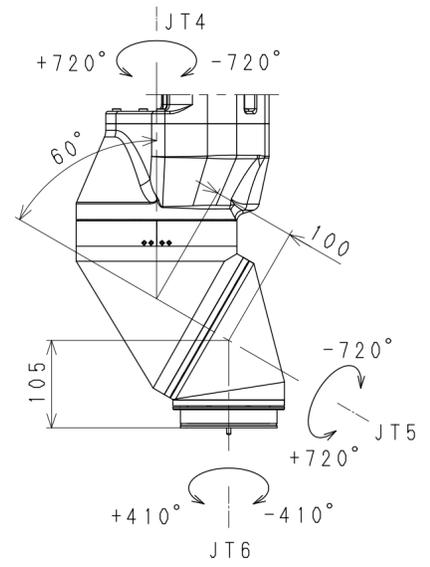


VIEW F

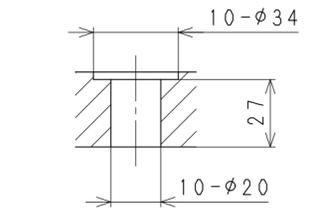
KJ264J-F1
WORKING RANGE



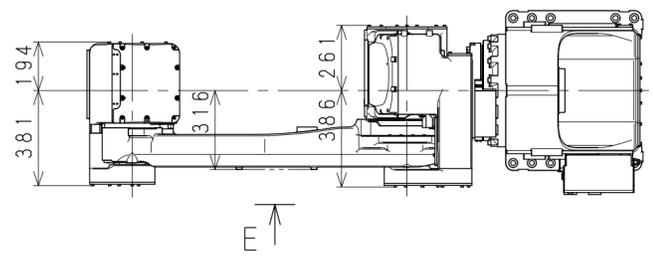
SECTION C-C



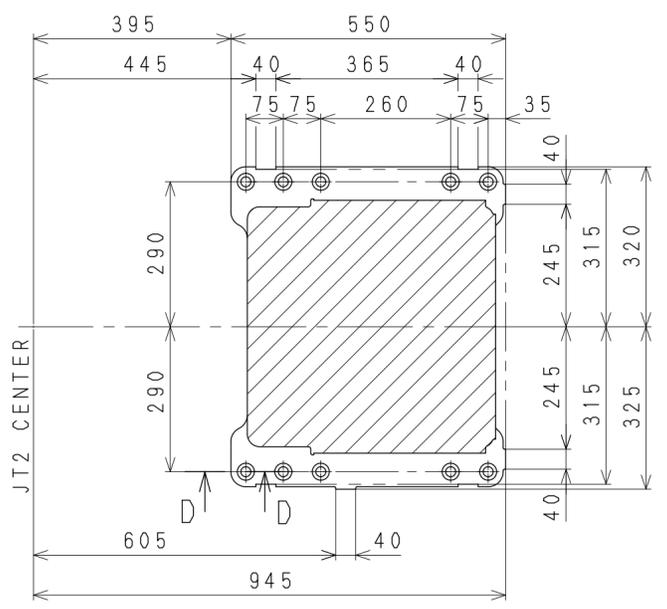
DETAIL A



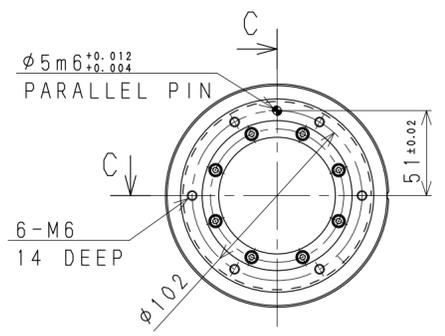
SECTION D-D



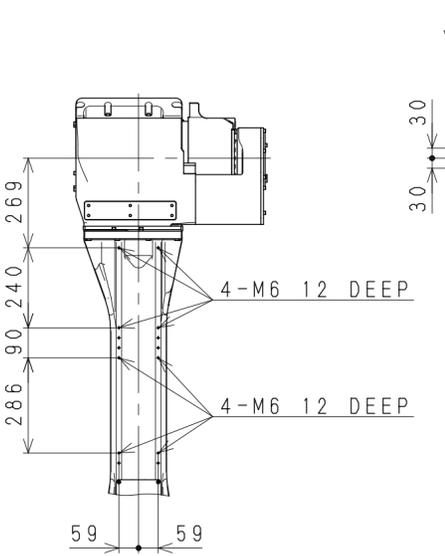
E



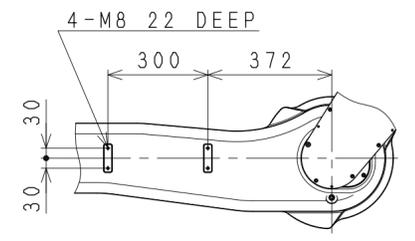
Base Installation Dimensions



VIEW B

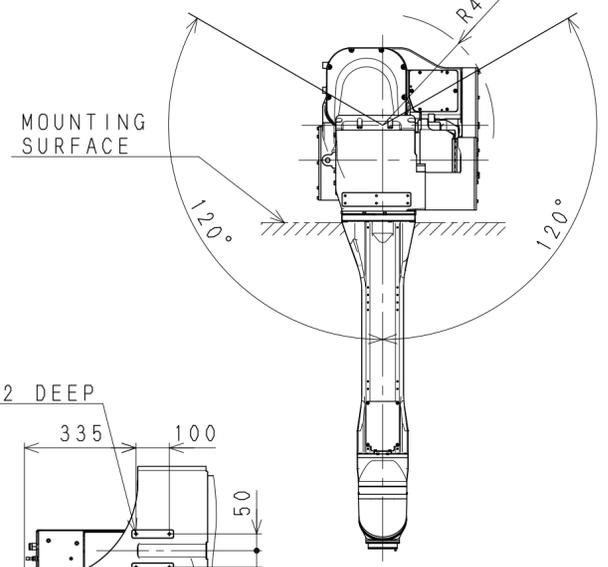


VIEW F

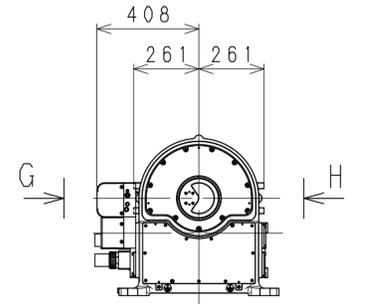
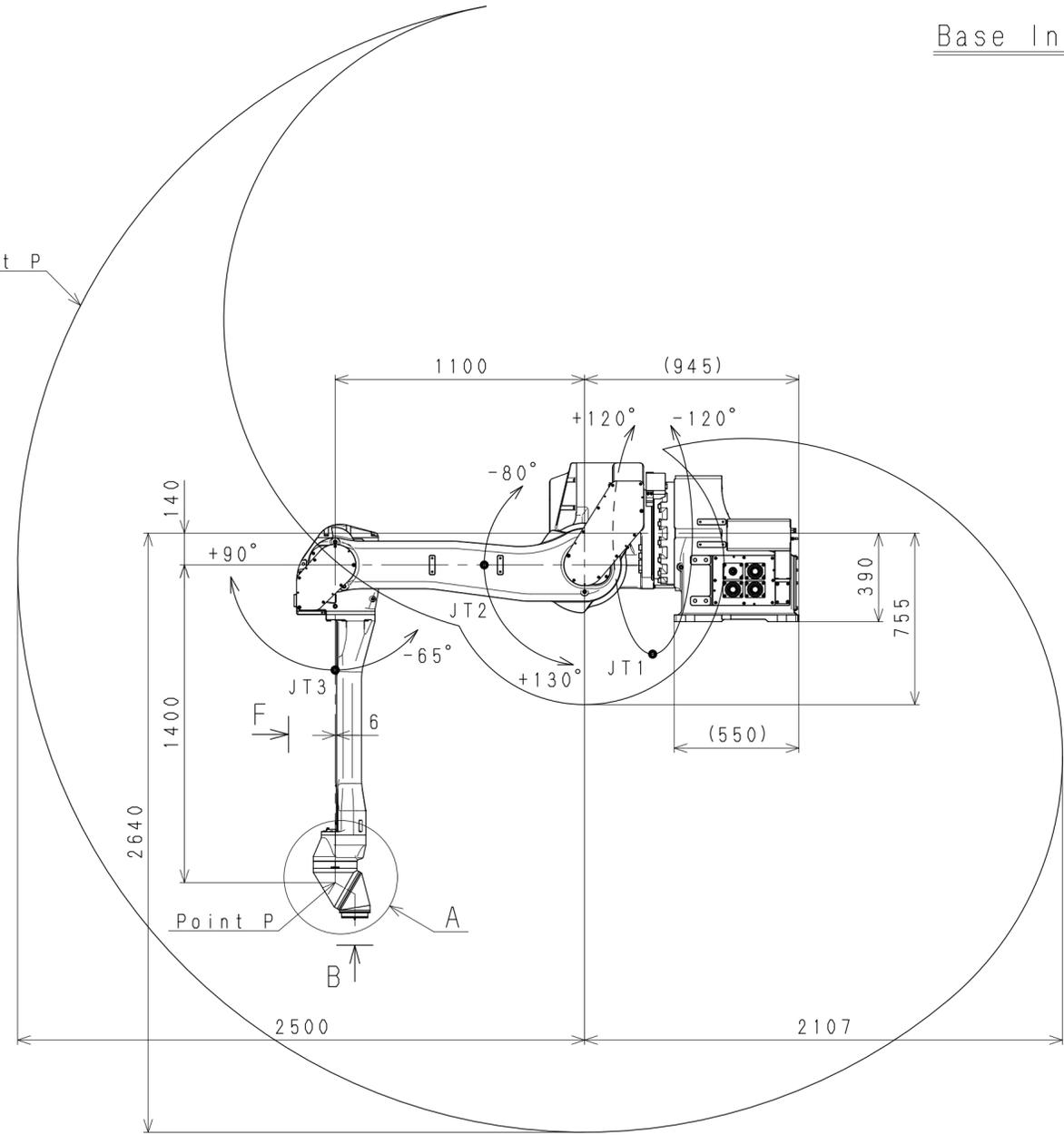


VIEW E

Working range based on point P

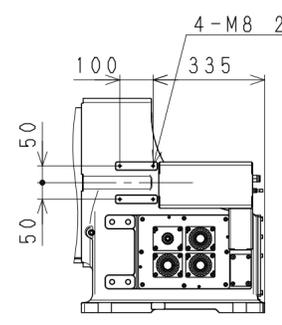


MOUNTING SURFACE

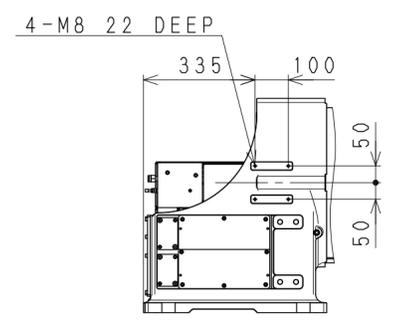


G

H

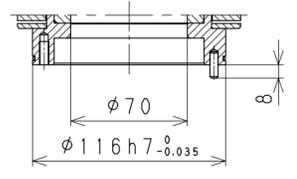


VIEW G

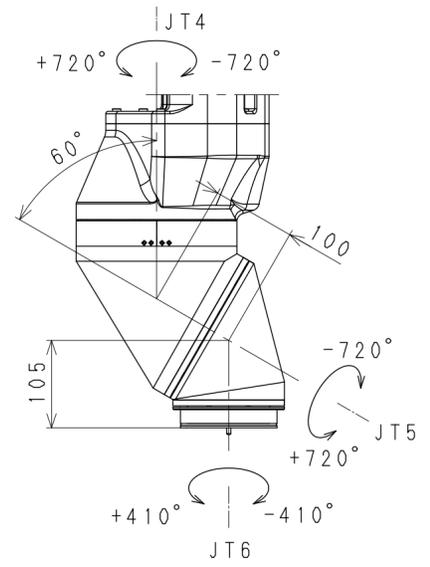


VIEW H

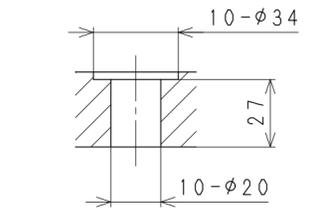
KJ264J-H0
WORKING RANGE



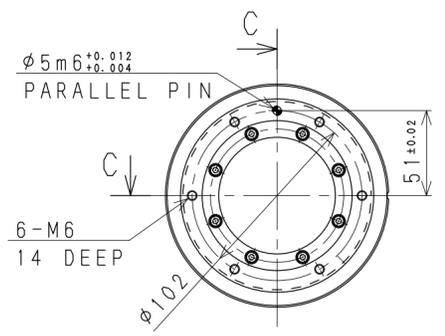
SECTION C-C



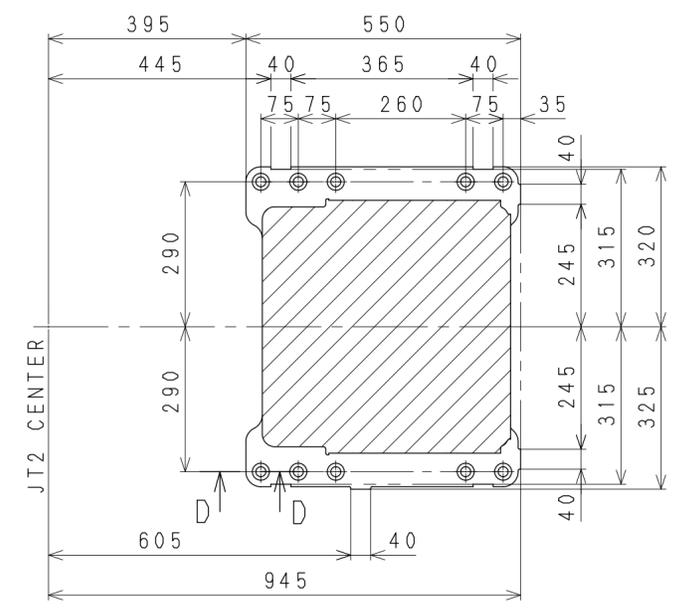
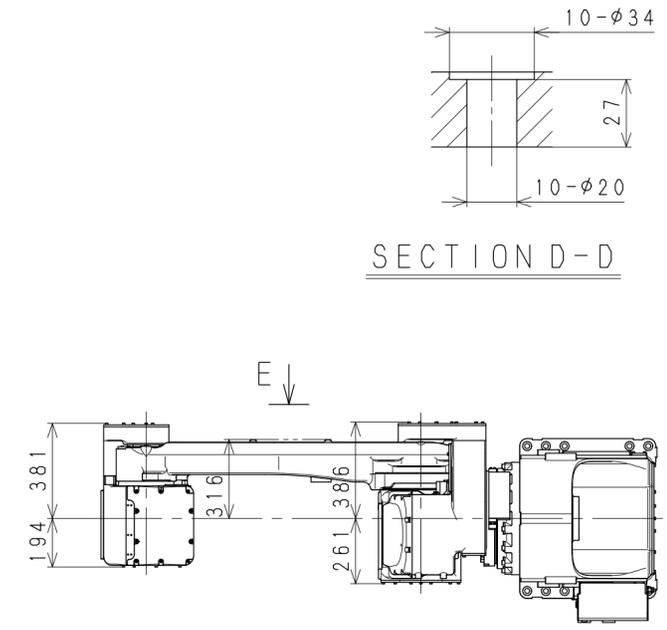
DETAIL A



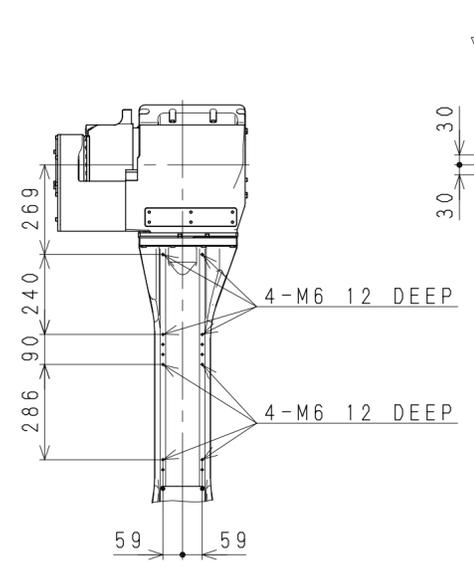
SECTION D-D



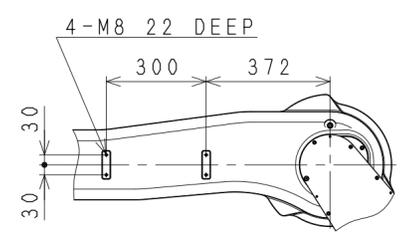
VIEW B



Base Installation Dimensions

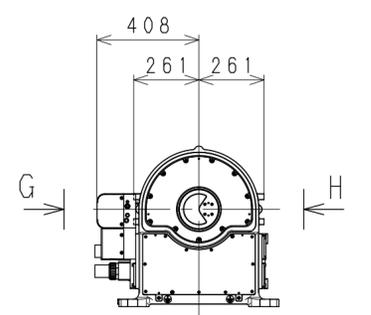
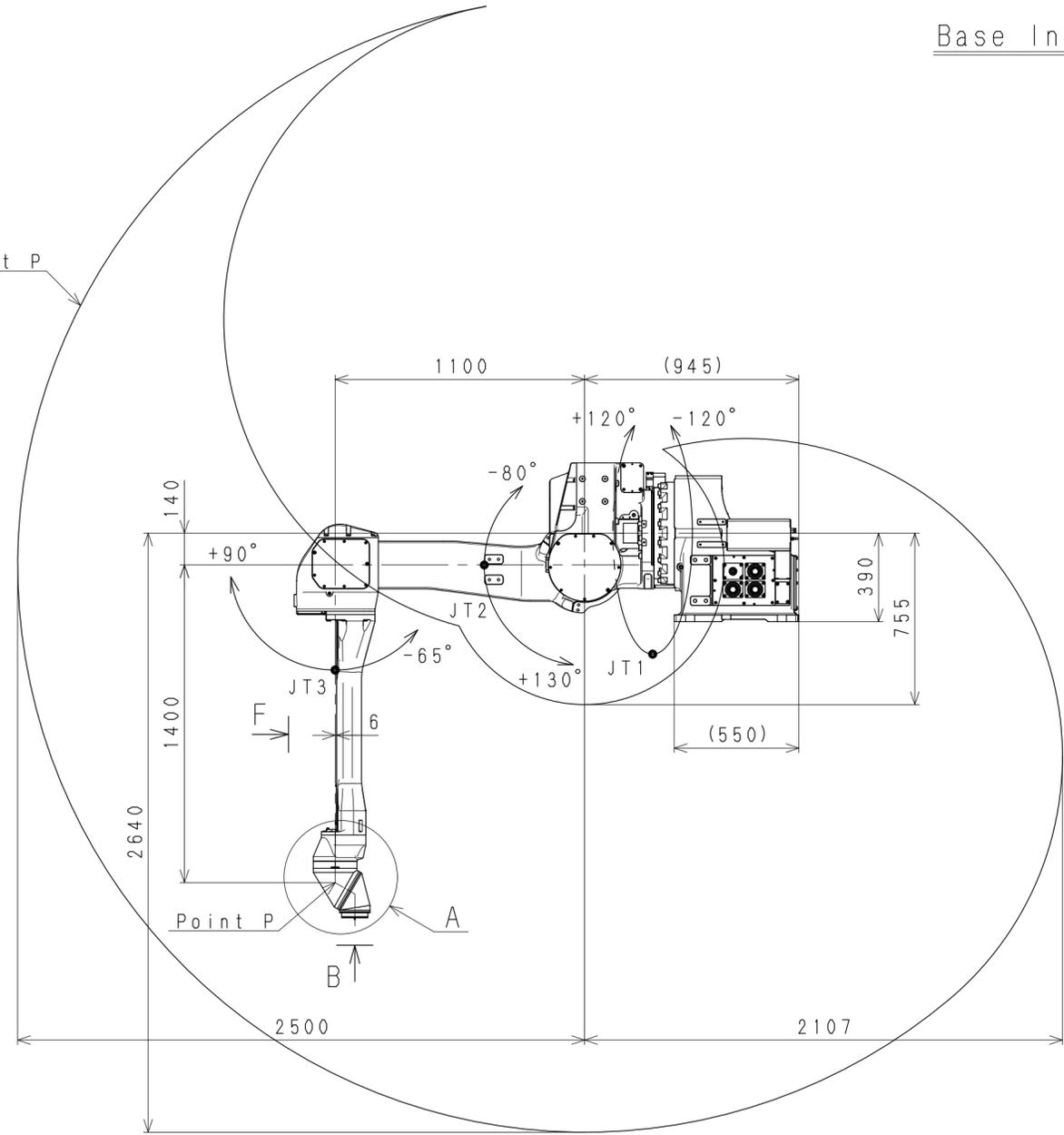
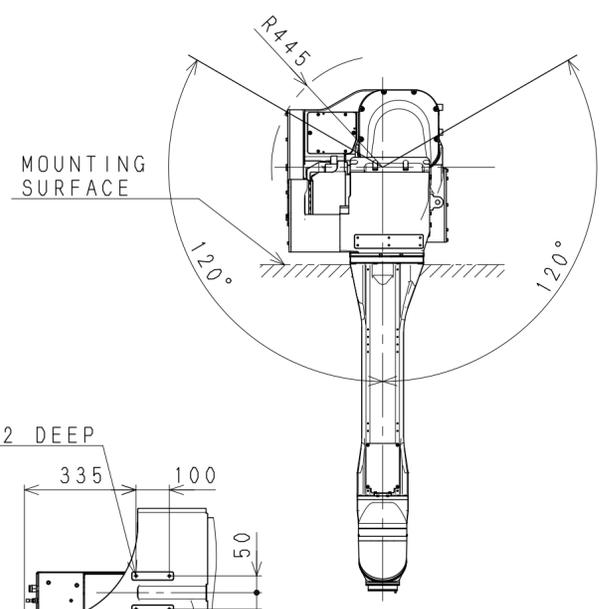


VIEW F

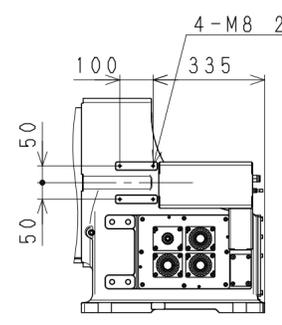


VIEW E

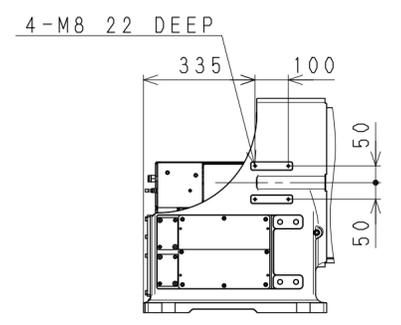
Working range based on point P



VIEW G



VIEW G

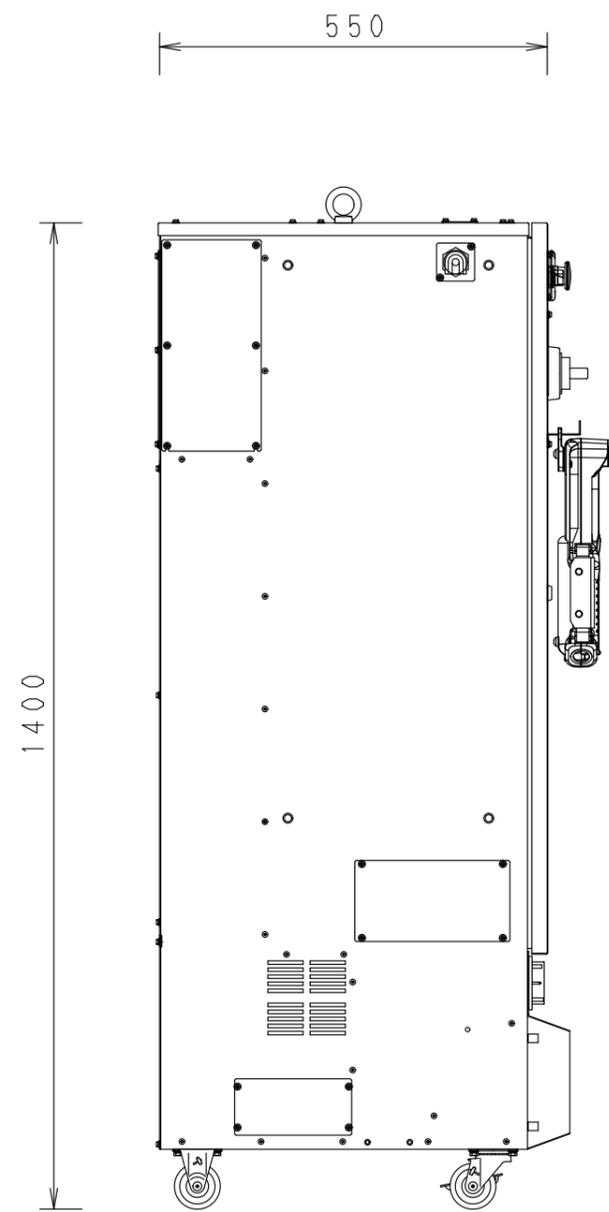


VIEW H

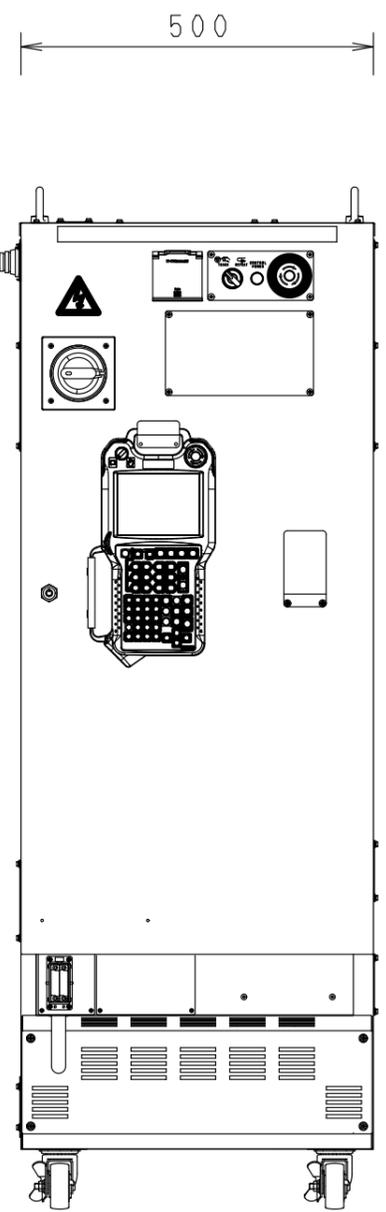
KJ264J-H1
WORKING RANGE

E25/E27 CONTROLLER

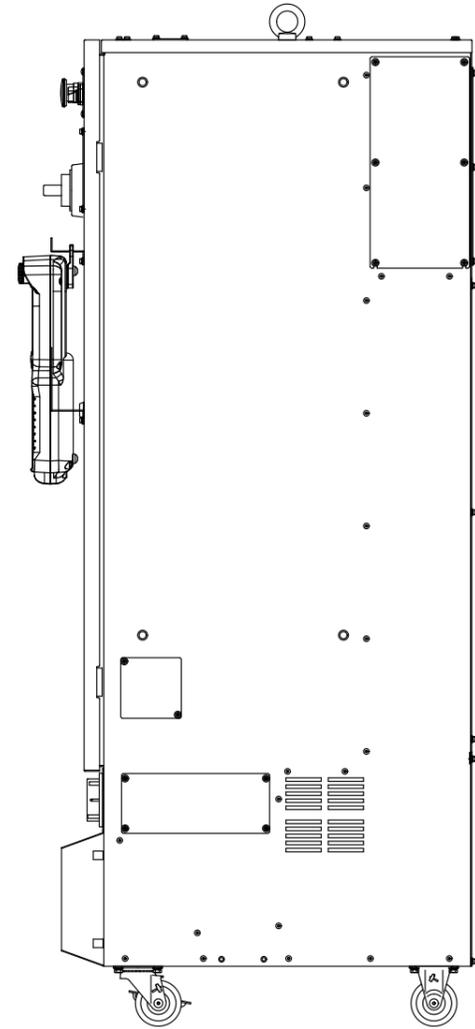
MASS : 120Kg



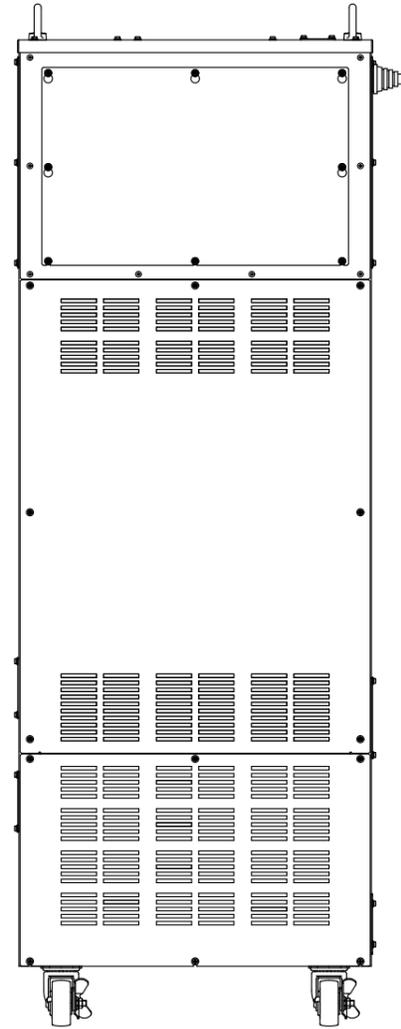
SIDE VIEW



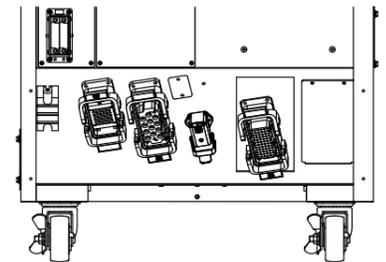
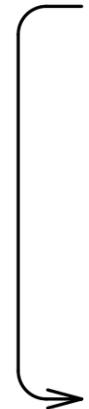
FRONT VIEW



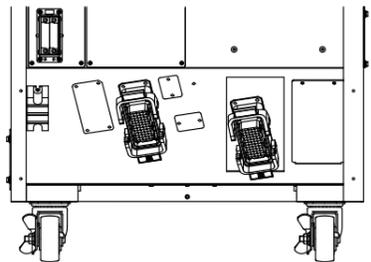
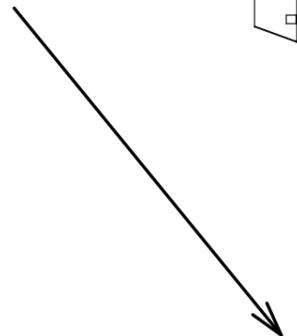
SIDE VIEW



REAR VIEW



WITHOUT CONNECTOR COVER (E25)



WITHOUT CONNECTOR COVER (E27)