**CUSTOMER INFORMATION**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Requested By: | |  | | | Date: | | | | |  |
| Customer: |  | | | | End User: | |  | | | |
| Contact: |  | | Phone: |  | | | | Email: |  | |
| Program: |  | | | | Plant: |  | | | | |
| ⬜ Budgetary/Concept Only | | | | | Quantity: | | | | |  |

**APPLICATION INFORMATION**

|  |  |  |
| --- | --- | --- |
| ⬜ Geo model select ⬜ Clinch/weld gun positioning | | |
| ⬜ Other, describe: |  | |
| *For Part Presentation Slides – use Extrusion Slide Worksheet QPE-FM-007* | | |
| Standard Part Number or slide series used as reference: | |  |

**ORIENTATION WORK ENVELOPE** (overall size not to exceed)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Angle A |  |  | Length (in travel direction), mm | |  | |
|  |  | Width, mm |  | |  |
| Angle B |  | Height, mm |  | |  |
|  |  | ⬜ Welker choice | | | |

**PLATEN SIZE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Length (in travel direction), mm | |  | Width, mm |  |  |
| ⬜ Welker choice | ⬜ Drawing attached | | | | |

**LOAD**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Payload |  | | kg | Notes: | |  | |
| Location of c.g. relative the center of carriage (attach drawing if possible) | | | | | | |  |
| X offset, mm | |  | | |  | |
| Y offset, mm | |  | | |  | |
| Z offset, mm | |  | | |  | |
| Externally applied loads and direction of application: | | | | | | |
|  | | | | | | | |
|  | | | | | | | |

**OPERATION**

|  |  |  |  |
| --- | --- | --- | --- |
| Cycle Rate: |  | ⬜ JPH ⬜ cycles/min ⬜ Other: |  |

**OPERATING ENVIRONMENT**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Temperature Range: | | ⬜ Standard [32°F - 104°F(0°C - 40°C)] | | ⬜ Other: |  |
| Contamination: | ⬜ Welding ⬜ Machining ⬜ Other: | |  | | |

**TRAVEL**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Overall travel: | |  | | mm | | Number of working positions | | | | ⬜ Single ⬜ 2-position ⬜ Multiple | | | | |
| If multiple position, indicate stop points: | | | | | | |  | | | | | | | |
| *Note: Pneumatic actuated units will stroke to hard stops. Hard stops on electric actuated units are for homing or overtravel only. Unless otherwise specified, 5mm overtravel will be included in each direction on electric units.* | | | | | | | | | | | | | | |
| Accuracy req’d: | | ⬜ Welker std. (see chart next page) | | | | | | | | | | | |
|  | | ⬜ Other: | | X±: | |  | mm | Y±: |  | mm | Z±: |  | mm |
| Repeatability req’d: | | ⬜ Welker std. (see chart next page) | | | | | | ⬜ Other: | | | X±: |  | mm |
| One-way index time (electric only): | | | | |  | | | | sec | | | | | |

**ACTUATOR**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ⬜ Pneumatic, non-locking | | | | | ⬜ Pneumatic, locking | | |
| ⬜ Electric – VFD/induction | | | | | ⬜ Electric - servo | | |
| Preferred manufacturer: | |  | | | ⬜ Welker choice | | |
| ⬜ Electric – by customer. Provide motor mfr. and series/model number: | | | | | |  | |
| Motor voltage: |  | | Brake voltage: | ⬜ 120VAC ⬜ 480VAC ⬜ 575VAC ⬜ Other | | |  |
| ⬜ Homing pin (servo unit only) Unless otherwise specified, homing pin will be located 5mm from retract (drive end) hard stop. | | | | | | | |
| Lockout (pneumatic/hydraulic only): ⬜ None ⬜ Pneumatic ⬜ Manual, Tru-Lok ⬜ Manual, Welker choice | | | | | | | |

**SWITCHES**

|  |  |
| --- | --- |
| ⬜ Welker choice ⬜ Smart Stops ⬜ Cylinder Switches ⬜ Prox ⬜ Other: |  |

**LUBRICATION**

|  |  |
| --- | --- |
| ⬜ Zerk (standard) | ⬜ Auto lube |

**BEARINGS/GUIDES** (type & manufacturer)

|  |  |  |
| --- | --- | --- |
| ⬜ Welker choice (standard) | ⬜ Other, specify: |  |

**STANDARD TOLERANCES** (see product catalog for details)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Pneumatic Rail Slides** | | | | | |  | **Pneumatic Plain Bearing Slides** | | | | | | |
| Series | Stroke Tolerance\* | | Travel Runout | | |  | Series | | Stop Position Tolerance\* | | Travel Runout | | |
| Y | | Z |  | Y | Z | |
| LPM/LP1/LP2 | ±0.20mm | | 0.15mm | | 0.40mm |  | P5 | | ±0.42mm | | 0.45mm | 0.60mm | |
| R2 |  | P7 | | ±0.30mm | | 0.53mm | 0.74mm | |
| NL3/WL3 |  |  | |  | |  |  | |
| \**Duplex mid-position stops ±0.80mm* | | | | | | | | | | | | | |
| **Electric Slides** | | | | | | | | | | | | |
| Actuator | | Typical Stop Position Accuracy | | | | | | Typical Stop Position Repeatability | | | | |
| Lead Screw | | Ball Screw | | | | Lead Screw | | Ball Screw | | |
| VFD/Induction | | ±1mm | | N/A | | | | ±1mm | | N/A | | |
| Servo | | ±0.08mm/100mm | | ±0.06mm/100mm (standard)  ±0.03mm/100mm (precision) | | | | ±0.4mm | | ±0.10mm (standard)  ±0.05mm (precision) | | |

**SKETCH/NOTES** (attach additional sheets as needed)

|  |
| --- |
|  |