WELKER ISO 9001 REGISTERED ENGINEERED PRODUCTS
1401 Piedmont, Troy MI 48083 800-229-0890

Extrusion Slide Worksheet

* *Indicates Required Fields*

* Date:	* Standard/Part # to be modified:			* S0 #:
	* Name	* Contact	* Email	* Phone
Requester:				
Design House:				
Customer:				
Plant & Location:				
Station #:				
* **Customer target price**: $		**Est. quantity**:	* **Required delivery date**:	
* **Description of slide application**:				
Is RH/LH (Shown/Opp.) build required for Single Extrusion?	☐ YES	☐ NO		

SLIDE STYLE *Note - Platen model with C. G. required for final sign off*	Double Independent Push/Pull	Load per angle: _____ Kg. Platen width: _____ mm Platen length: mm in direction of travel	
	Single Double	Total Load: _____ Kg. Platen width: _____ mm Platen length: mm in direction of travel	
	***If Welker is to supply the platen and tooling: Customer MUST supply part models with revision level, desired description of product orientation along with EOA tooling if used to load/unload presentation slide*		

BEARINGS STYLE ☐ (2) bearings/per carriage ☐ (3) bearings/per carriage

ANGLE MOUNTING ☐ None *(Customer supplied)* ☐ Inboard ☐ Outboard

ANGLE TIE PLATES - DBL. STYLE ☐ Welker Standard ☐ Custom Plate *(**MUST** submit mounting pattern)*

TRAVEL Overall _____ mm Repeatability: ± _____ mm Req'd. time per one direction: _____ sec.

☐ 2 Position

☐ Multiple Positions *(Customer to supply detailed motion profile w/indexes and time between)*

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MOTOR ☐ NORD (Std.) ☐ Customer Supplied (Customer to provide motor and gearbox info)

MOTOR ORIENTATION ☐ P1 ☐ P2 ☐ P3 (Standard) ☐ P4

Motor / Brake Voltage: ☐ 460 ☐ 575 ☐ Other: Motor Voltage: Brake Voltage:

Gearbox Ratio: ☐ 5:1 ☐ 7.5:1 ☐ 10:1 Other: _____

Notes:

Welker Internal Use Only

Drive type: ☐ 1-7/8 x 4 Lead Screw (Standard) ☐ 1.500 x 1.875 (Ball Screw) ☐ Belt

Motor HP: _____ Gearbox ratio: _____ Sized by: _____

Calculations: ***Attach motor calculations to worksheet***

SWITCHES

☐ Welker Std. IFM Effector 18mm Barrel

☐ Welker Supplied Non-Std. Qty. _____ Brand _____ Model# _____

☐ Customer Supplied

LEGS ☐ None (standard floor plates) ☐ Customer Supplied ☐ Welker Standard

Minimum leg height: motor at standard position 3

- *1HP min 375mm*
- *3HP min 500mm*

Leg quantity (recommended):
400-2000mm stroke = 2 legs
2400-4000mm stroke = 3 legs

Notes:

CONTROLS ☐ By Customer: Customer supplied VFD must have a minimum of four (4) inputs. For proper function, ***ALL*** Decel and In-Position switches **MUST** be wired **directly** to the drive, **NOT** thru a communication block. Switches - Verify your VFD requirement PNP (Open) or PNP (Closed) on the application template

☐ By Welker: Welker offers a choice of six Ethernet panel boxes with A/B VFD drives. Drive programming to achieve "Required time for one direction" specified on this worksheet is included. Box components are defined in Part Presentation Slide catalog, available online at http://www.welkerproducts.com/presentation_slides.php

WELKER VFD PANEL BOXES

Features:
- Fully connectorized = **no field wiring** required.
- Switches (6) wired directly to drive for best repeatability and safety.
- **Sealed Panel** with no fans or filters.
- Basic program installed in drive.

Installed Program Conventions:
- Forward is away from Motor.
- All Proximity cables must be active to run Slide(s).
- Use ***Extreme*** **CAUTION** and slow speed when using laptop-controlled Jog mode. The switches ***WILL*** **Disable** and **Over-Travel Crash** is possible.

ETHERNET SAFETY PLC VFD PANEL BOXES *NOTE: WILL ONLY FUNCTION WITH ETHERNET SAFETY PLC*		
Application	***Welker Part Number***	***Customer Part Number, per Spec***
Single Axis 1HP	**S02102**	FCA PPSL# SO2102-WELKER-PF525-SINGLE-1HP 15062
	S02498	Ford Spec
Double Axis 1HP	**S02103**	FCA PPSL#SO2103-WELKER-PF525-DBL 1HP 150625
	S02499	Ford Spec
Single Axis 3HP	**S02104**	FCA PPSL#SO2104-WELKER-PF525-SINGLE-3HP 150629
	S02498	Ford Spec
Double Axis 3HP	**S02105**	FCA PPSL#SO2105-WELKER-PF525-DBL-3HP 150625
	S02499	Ford Spec
Single Axis 5HP	**S02242**	

ETHERNET STANDARD PLC VFD PANEL BOXES Safety inputs, outputs and other safety hardware are not included. The VFD has built-in Safe-Torque-Off inputs that are ready for connection to external safety relays and other components that can be wired to this panel or added to this panel to achieve a desired Safety Category.	
Application	***Welker Part Number***
Single Axis 1HP	**S02165**
Double Axis 1HP	**S02166**
Single Axis 3HP	**S02167**
Double Axis 3HP	**S02168**
Single Axis 5HP	**S02243**

Machine Mounted Drives - VFD ETHERNET OR PROFINET	
Siemens G120D IP65 Rated, 6 Input, 2 Digital Outputs, 2 Analog Input/Output	
Application	***Welker Part Number***
1HP	**S02636** **E** (Ethernet) *or* **P** (Profinet)
3HP	**S02637** **E** (Ethernet) *or* **P** (Profinet)
Note: Dual Axis will require 2 Drives	

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PROPOSAL DRAWING SUBMIT DATE: _____

PROJECT PROPOSAL

Proposal drawing and price are subject to change. A final drawing and price must be approved before an order can be accepted and the project's engineering drawings are completed.

		QUANTITY	PRICE EACH	PRICE TOTAL
S0# _____	**SLIDE**	_____	**$** _____	**$** _____
S0# _____	**PANEL BOX**	_____	**$** _____	**$** _____

PROPOSAL TOTAL PRICE: $ _____

CUSTOMER CHANGES TO PROPOSAL

CHANGE: _____ DATE: _____ REV. PRICE: _____

CHANGE: _____ DATE: _____ REV. PRICE: _____

DELIVERY ARO/ARA: **FINAL TOTAL PRICE: $**

PROJECT APPROVAL

PURCHASE ORDER DATE: _____ **FINAL SIGN OFFS AND MODEL DUE DATE:** _____

FINAL TEMPLATE SIGNED BY: _____ **DATE:** _____

*Welker will provide motor math and a proposal drawing of the slide in PDF format based on the information submitted with this worksheet. Welker will supply ONLY what is shown on the signed PDF. All engineering drawings, documents and data supplied by Welker are confidential and are the intellectual property of Welker Engineered Products. This agreement includes and incorporates the above Terms and Conditions and is the complete and exclusive statement of the agreement between parties. This Agreement may be modified or amended only in writing signed by both parties. The preprinted terms of a purchase order or any other similar document will not apply to or modify this Agreement.

Please E-mail completed worksheet and any attachments to **worksheet@ewelker.com**