

### ORDERING INFORMATION

S 0 2 3 1 4 - [ ] [ ] [ ] [ ] [ ] [ ] G [ ] [ ] [ ] [ ] [ ] [ ] 0

**Stroke**  
025 25,50, & 75mm Stroke (Shown)

**Coupler**  
A Rap (not available with stop options)  
B Rigid

**Actuator**  
01 Pneumatic - Single Rod - NPT  
02 Pneumatic - Single Rod - G Port  
03 Pneumatic - Double Rod - NPT Port (With Extend Stop Option E)  
04 Pneumatic - Double Rod - G Port (With Extend Stop Option E)  
05 Pneumatic - Double Rod - NPT Port (With Extend Stop Option G)  
06 Pneumatic - Double Rod - G Port (With Extend Stop Option G)

**Options**  
U Right Hand Side Forward Lever for Manual Use  
V Right Hand Top Forward Lever for Manual Use  
W Left Hand Side Forward Lever for Manual Use  
X Left Hand Top Forward Lever for Manual Use  
Y Right Hand Side Reverse Lever for Manual Use  
Z Left Hand Side Reverse Lever for Manual Use

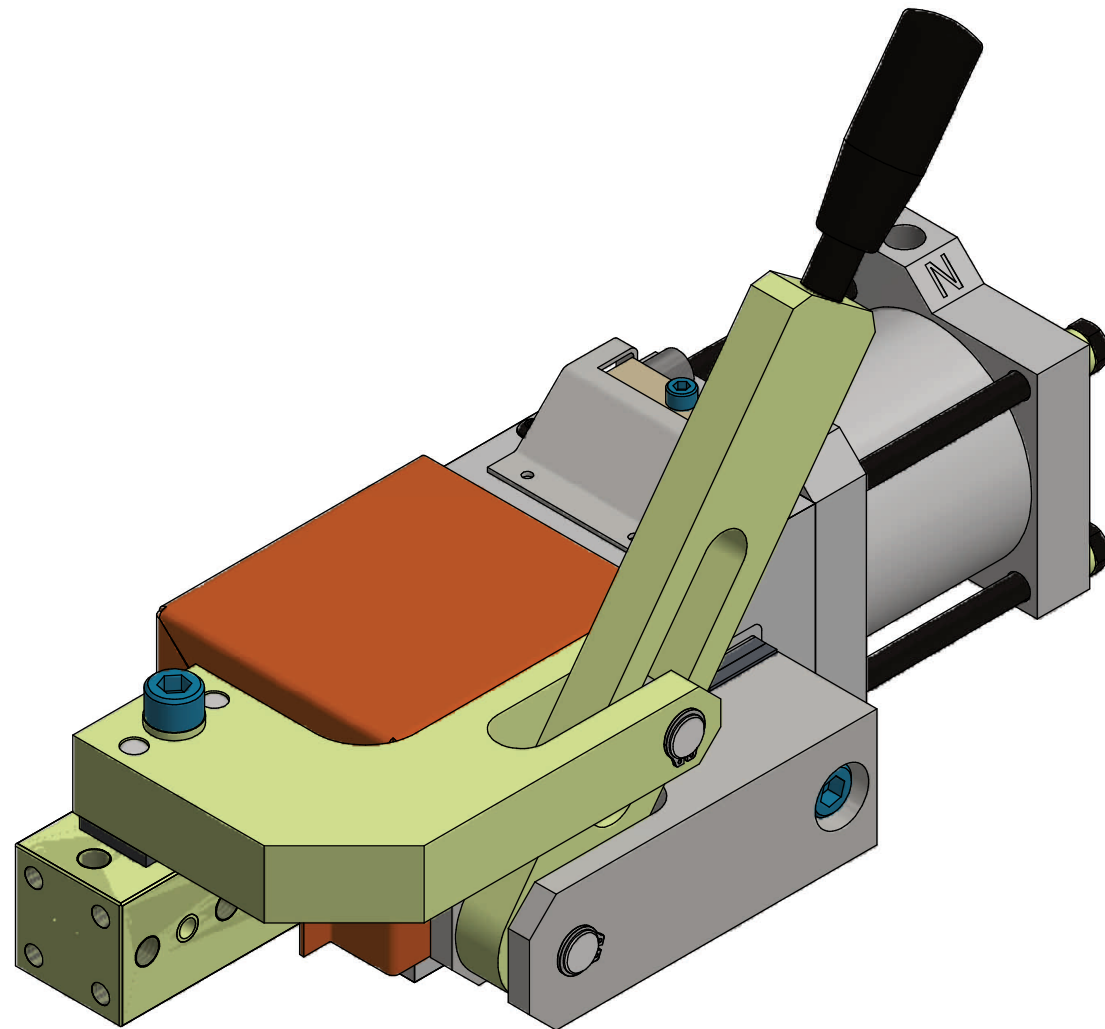
**Detent Option**  
0 None  
D Detent

**Handle Option**  
0 No Handle  
H Handle

**Port Position**  
A P1 Port Position (Shown)  
B P2 Port Position  
C P3 Port Position  
D P4 Port Position

**Shroud**  
0 No Shroud  
1 Shroud

**Switch**  
00 No Switch  
AE See World Switch Chart



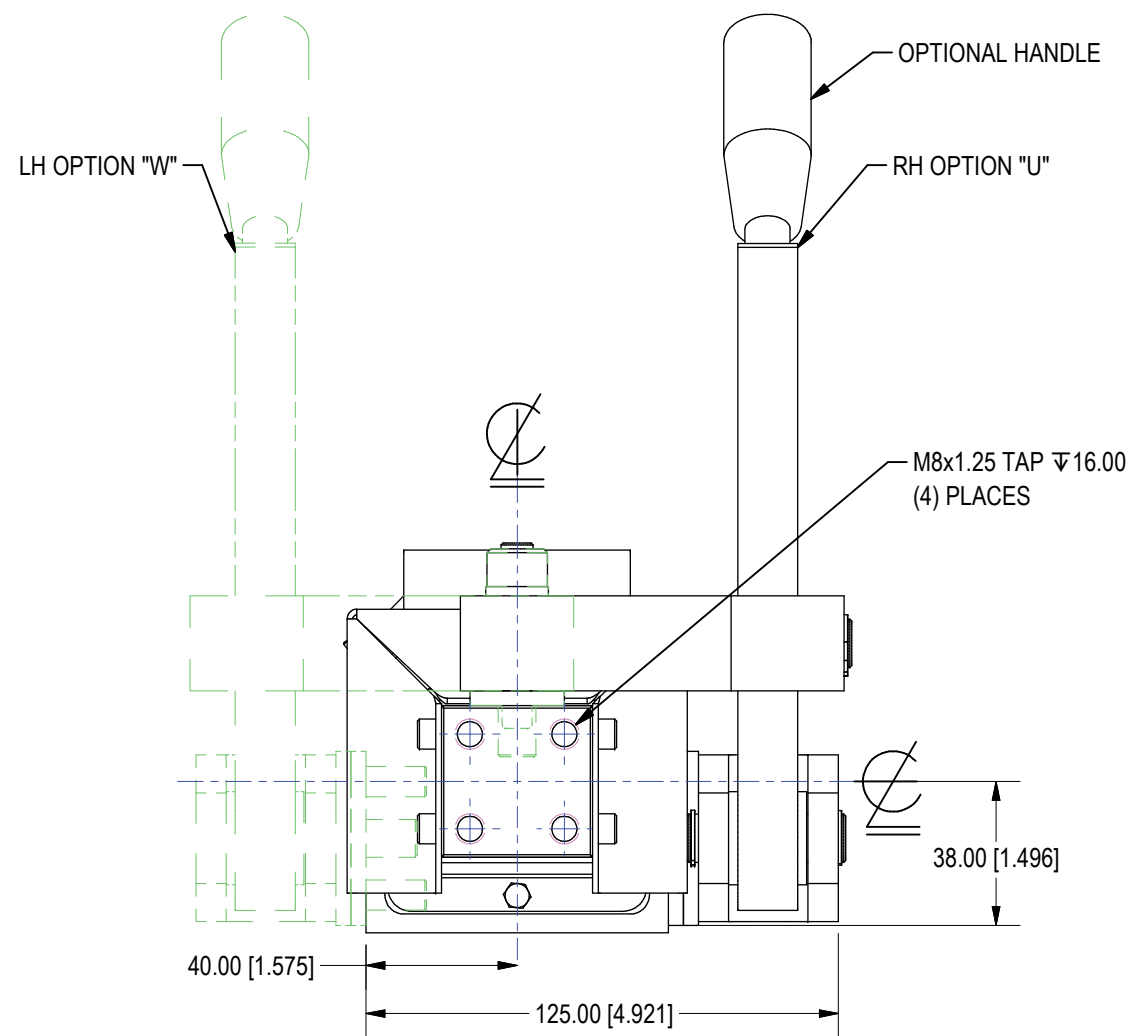
UNITS ARE MILLIMETERS  
(i.e.X.XXmm [x.xxx"])  
DO NOT SCALE DRAWING

EXCEPT AS NOTED  
DECIMAL TOL SHALL BE:  
0 PLACE (FRACTIONS) ± .400 [1/64"]  
1 PLACE ± .200 [0.010"]  
2 PLACE ± .100 [0.005"]  
3 PLACE ± .010 [0.0005"]  
ALL DOWEL LOC± 0.010[0.0005"]  
BETWEEN HOLES

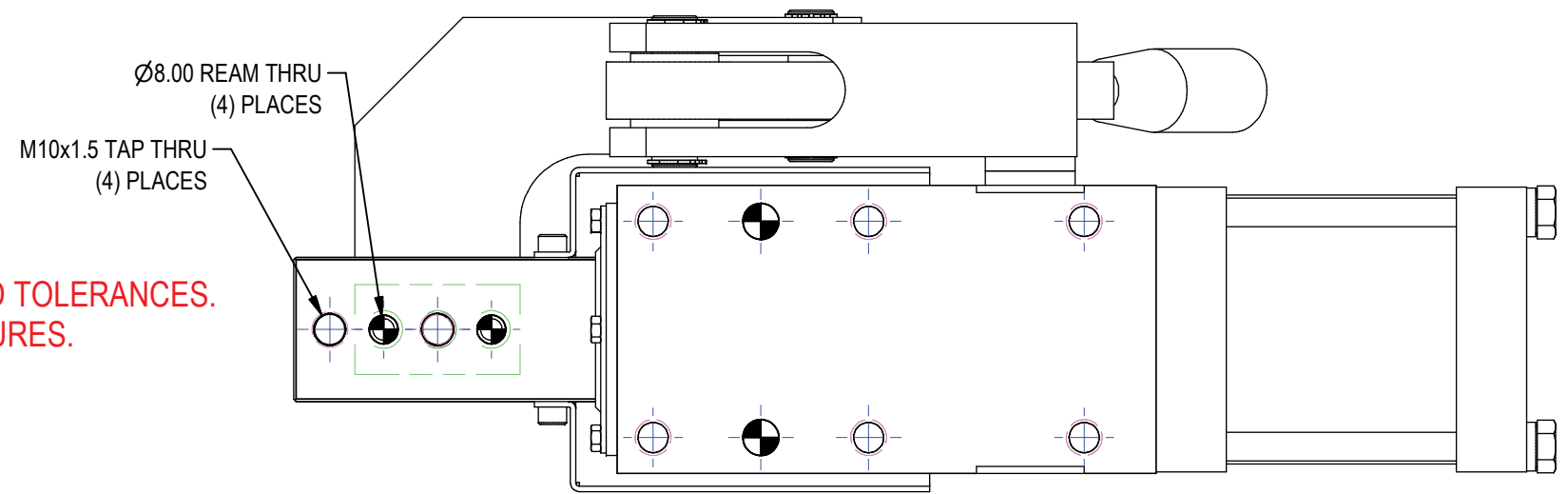
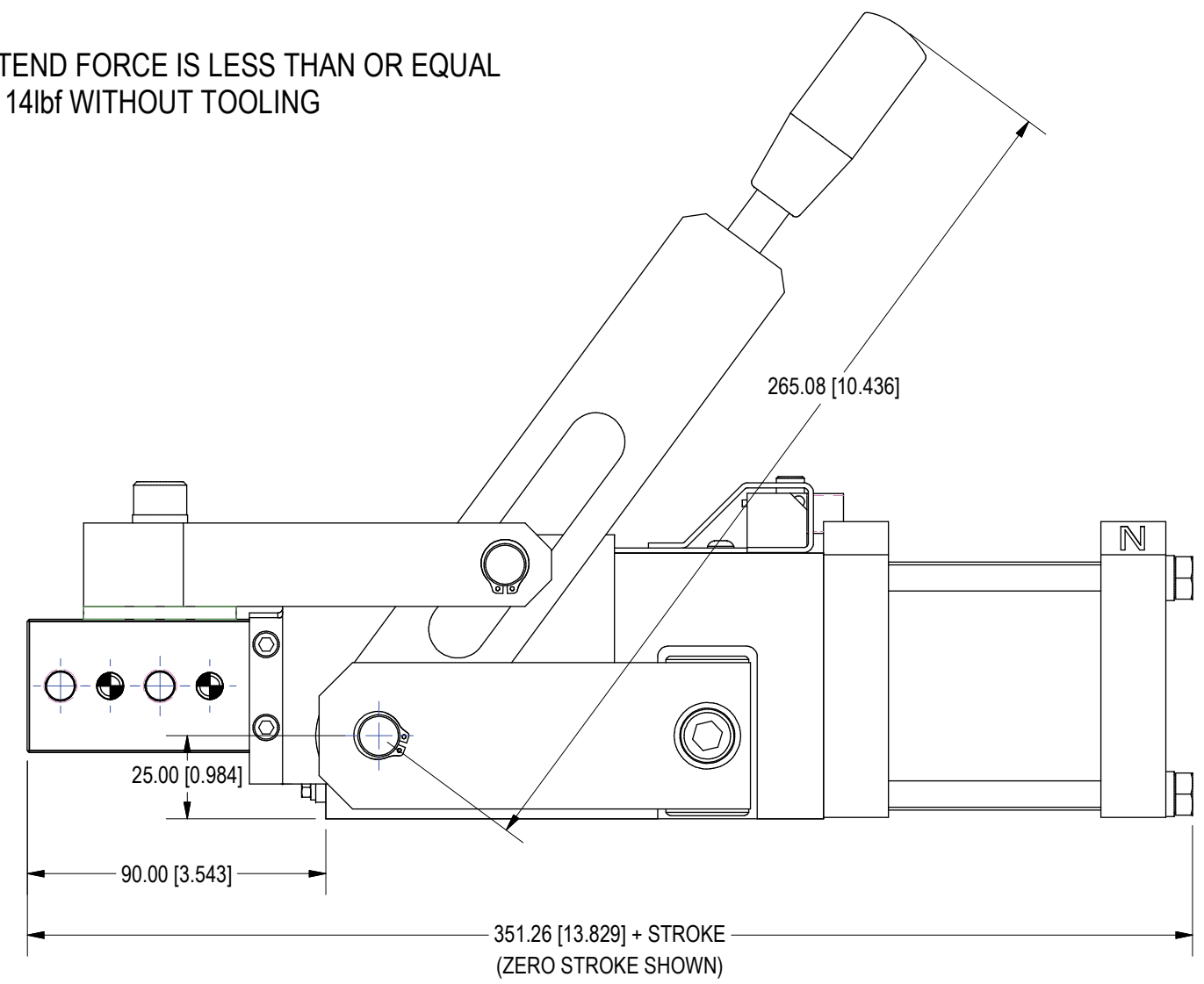
EXCEPT AS NOTED, MAXIMUM  
ALLOWABLE ROUGHNESS SHALL BE:  
1 PLACE FINISH 6 MICRONS (250 MICROINCHES)  
2 PLACE FINISH 3 MICRONS (125 MICROINCHES)  
3 PLACE FINISH 1.6 MICRONS (63 MICROINCHES)

REV	REV BY	REV DATE	CHK BY	DESCRIPTION
2	KPL	10/4/2019	AMD	ADDED DETENT OPTION TO CALLOUT AND DETENT NOTE

<b>WELKER</b> BEARING COMPANY			
TOOL NAME		MANUAL STROKE SHOT PIN	
DRAWN BY	DATE	LAST EDIT BY	ENG APPROVAL
KPL	10/4/2019	KPL	
SHEET	1	OF	10
SCALE	1/3	FILE NAME	S02314L01



EXTEND FORCE IS LESS THAN OR EQUAL TO 14lbf WITHOUT TOOLING



**NOTE:**  
 MANUAL HANDLE OPTION IS NOT HELD TO INDUSTRY STANDARD TOLERANCES.  
 MANUAL UNIT IS NOT INTENDED FOR USE IN GEO SETTING FIXTURES.

**FLOW CONTROLS MUST BE USED**

THIS IS A STANDARD WELKER UB4 SHOT PIN WITH A MANUAL STROKE MODIFICATION ADDED. MAXIMUM STROKE AVAILABLE FOR THIS OPTION IS 75mm. PLEASE REFER TO UB4N CATALOG FOR REMAINING DIMENSIONS

**MOUNTING PATTERN STANDARD FOR ALL ORIENTATIONS**

**SIDE MOUNT OPTIONS U & W**

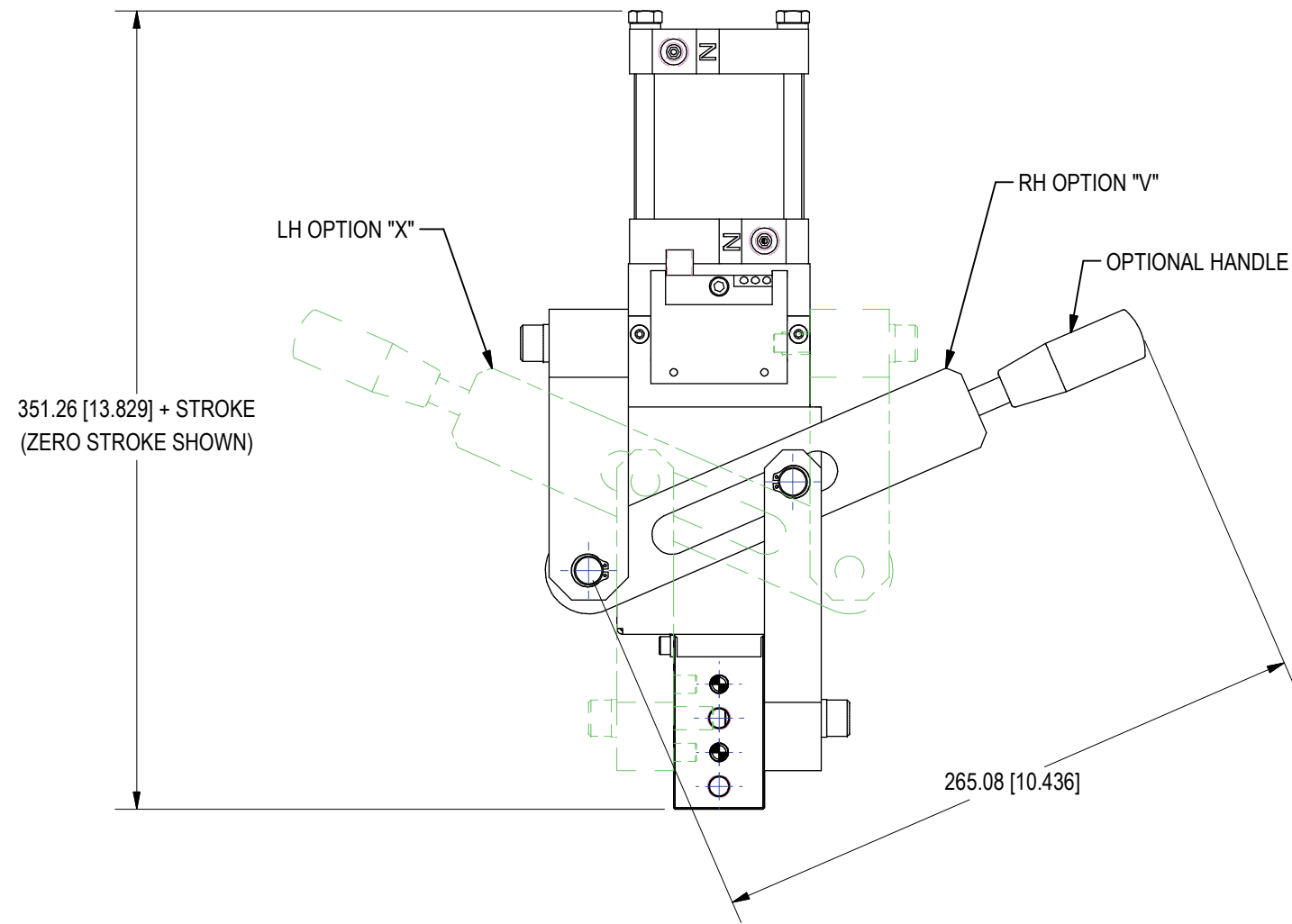
**APPROVAL**  
 APPROVED:   
 AS NOTED:   
 BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**(SHEET 1 of 5)**

UNITS ARE MILLIMETERS  
 (i.e.X.XXmm [x.xxx"])  
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DATE	STATUS
10/4/2019	Released

<b>WELKER BEARING COMPANY</b>					
TOOL NAME: MANUAL STROKE SHOT PIN					
TEMPLATE					
DRAWN BY KPL	DATE 10/19/2005	CHKD BY AMD	ENG APPROVAL		
SCALE	1/3	FILE NAME	S02314L01		

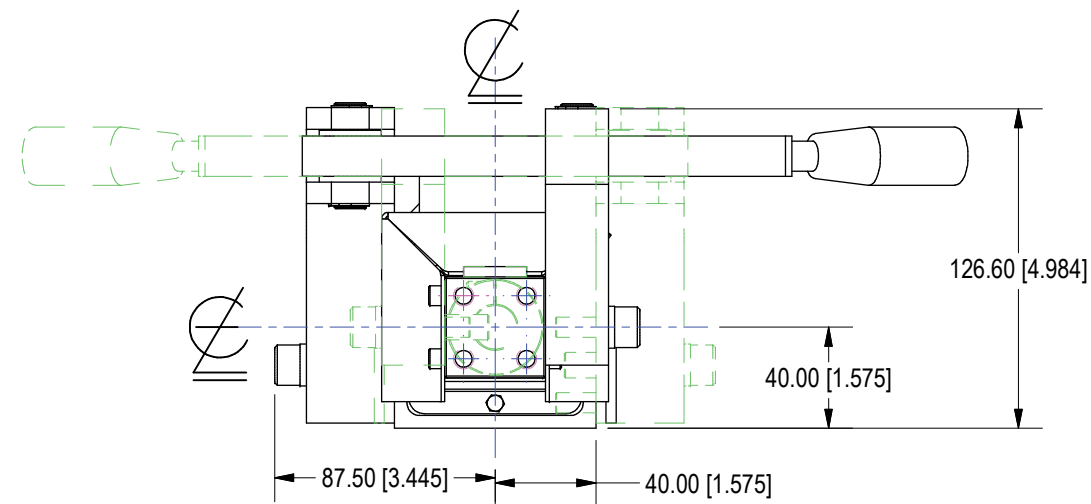


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**FLOW CONTROLS MUST BE USED**

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 SHOT PIN WITH A MANUAL STROKE  
 MODIFICATION ADDED. MAXIMUM  
 STROKE AVAILABLE FOR THIS  
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 DIMENSIONS

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**TOP MOUNT  
 OPTIONS V & X**

**APPROVAL**  
 APPROVED:   
 AS NOTED:   
 BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

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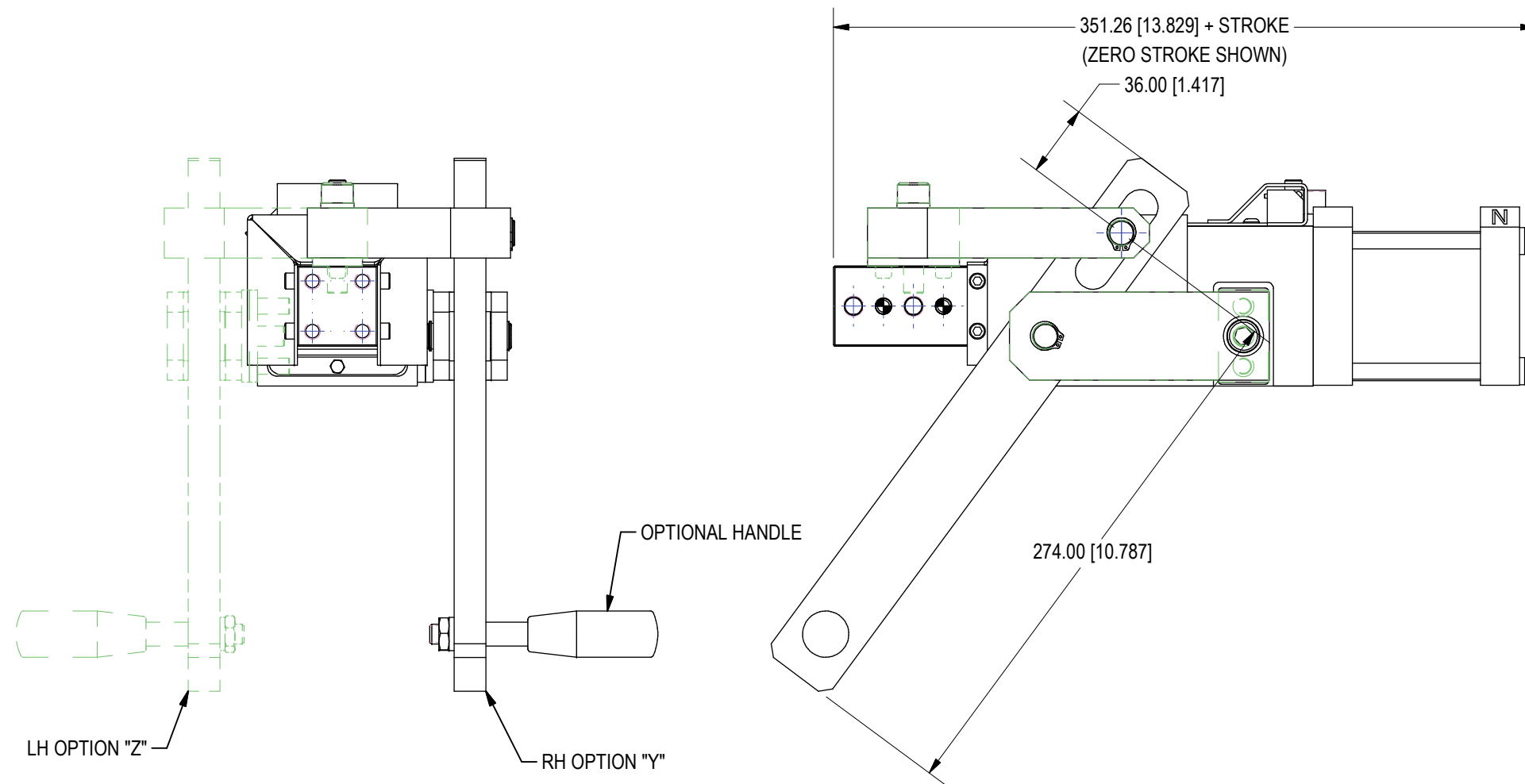
<b>WELKER</b> BEARING COMPANY					
TOOL NAME MANUAL STROKE SHOT PIN					
TEMPLATE					
DRAWN BY KPL	DATE 10/19/2005	CHK'D BY AMD	ENG APPROVAL		
SCALE	1/3	FILE NAME	S02314L01		

**NOTE:**  
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 DIMENSIONS

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**SIDE REVERSE LEVER  
 OPTIONS Y&Z**

**(SHEET 3 of 5)**

**APPROVAL**  
 APPROVED:   
 AS NOTED:   
 BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

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<b>WELKER</b> BEARING COMPANY					
TOOL NAME MANUAL STROKE SHOT PIN					
TEMPLATE					
DRAWN BY KPL	DATE 10/19/2005	CHK'D BY AMD	ENG APPROVAL		
SCALE	1/3	FILE NAME	S02314L01		

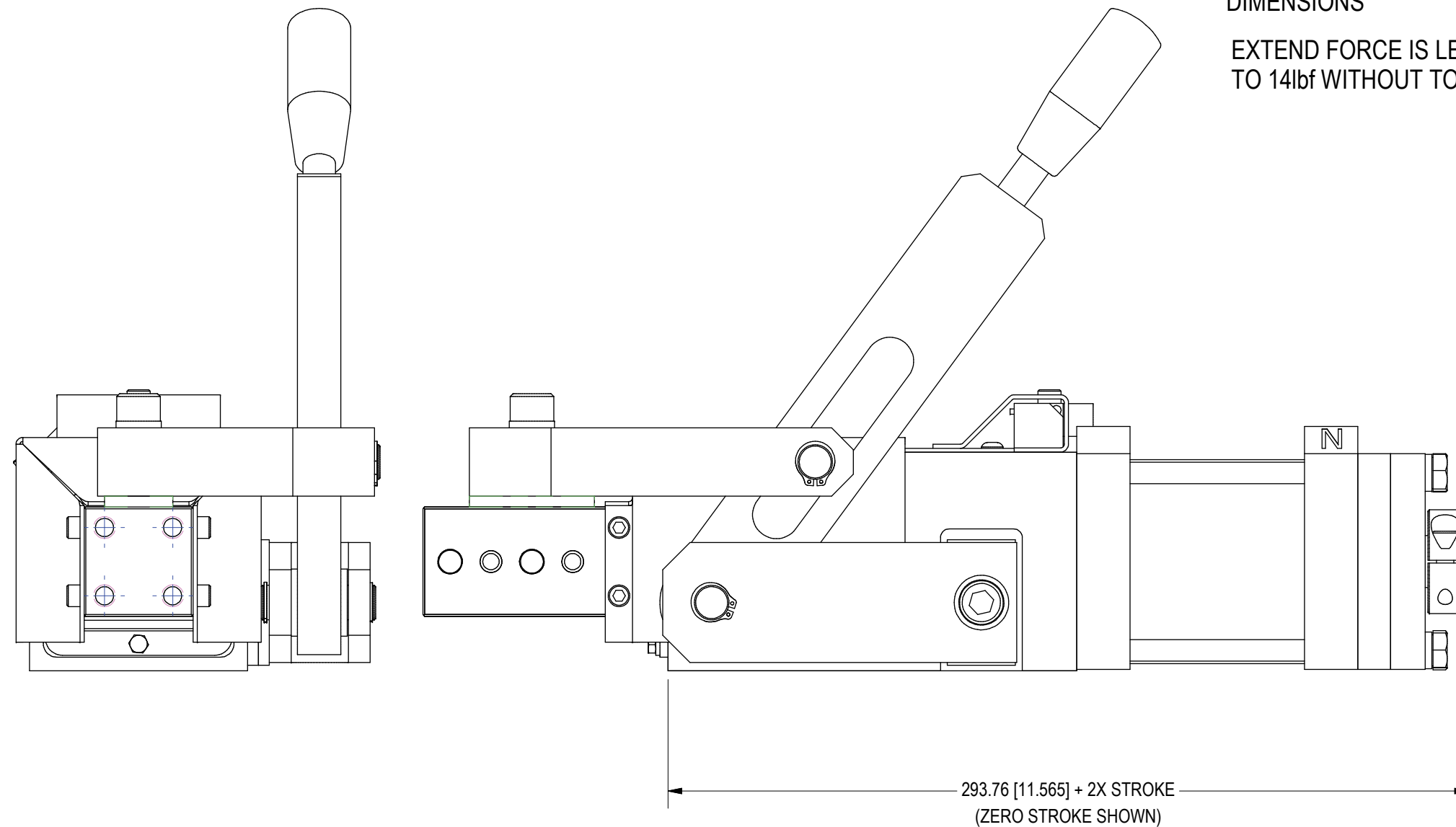
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 MODIFICATION ADDED. MAXIMUM  
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 DIMENSIONS

EXTEND FORCE IS LESS THAN OR EQUAL  
 TO 14lbf WITHOUT TOOLING



**DOUBLE ROD OPTION SHOWN  
 (ACTUATOR 3,4)**

NOTE:  
 PLEASE REFER TO TEMPLATE SHEETS  
 1 THRU 3 FOR REMAINING DIMENSIONS

**APPROVAL**  
 APPROVED:   
 AS NOTED:   
 BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

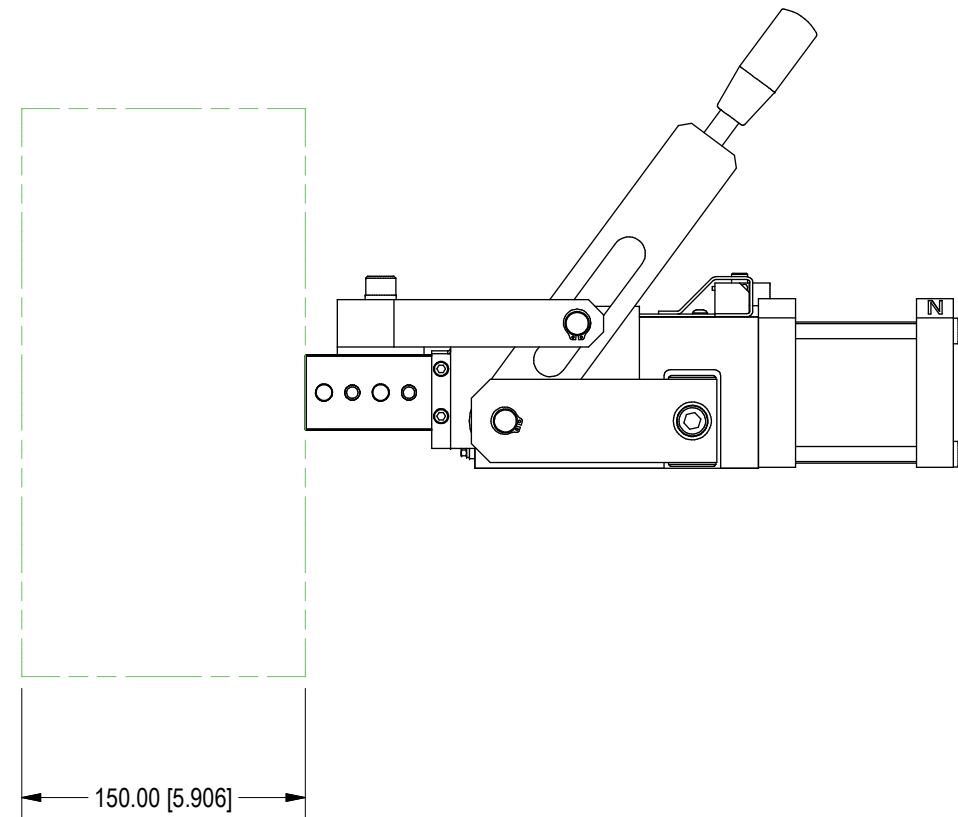
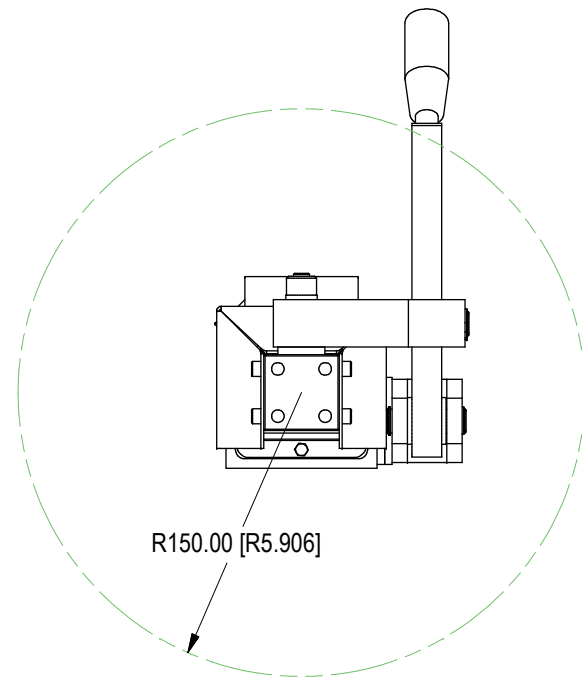
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TEMPLATE					
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DATE	STATUS
10/4/2019	Released

**HORIZONTAL LIMITS:** (SIDE MOUNT AND TOP MOUNT OPTIONS U,V,W & X)  
 MOUNTED TOOLING MUST BE WITHIN APPROVED 150mm APPLICATION WINDOW  
 FROM END OF RAM  
 5kg LOAD (11lbs), RESULTS IN = 65N (14lbf) PULL FORCE.

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**SIDE MOUNT & TOP MOUNT  
 OPTIONS U & W - V & X**

**APPROVAL**  
 APPROVED:   
 AS NOTED:   
 BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

UNITS ARE MILLIMETERS  
 (i.e.X.XXmm [x.xxx"])  
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**(SHEET 5 of 5)**

<b>WEKER</b> BEARING COMPANY					
TOOL NAME MANUAL STROKE SHOT PIN					
TEMPLATE					
DRAWN BY KPL	DATE 10/19/2005	CHK'D BY AMD	ENG APPROVAL		
SCALE 10/4/2019	STATUS Released	SCALE 1/3	FILE NAME	S02314L01	