



S8D Series Belt Sanders Instruction Manual

***Covers S8- Sander Head, S8D and S8HD – 8" x 60" Belt
Sanders***

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GENERAL POWER TOOL SAFETY WARNINGS



WARNING: TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN, LIQUID, OR MOISTURE.

READ AND SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

PRECAUTIONS

- Always wear safety glasses when operating power tools.
- Keep work area clean and well lit.
- Do not operate power tools in explosive atmospheres, such as the presence of flammable liquids, gases or dust.
- Keep children and bystanders away while operating a power tool.
- Keep long hair tied back or covered and never wear loose fitting clothing near a running machine.
- Additional precautions may be necessary when grinding materials that are flammable or have other hazardous properties. Consult manufacturer of materials for safe grinding and handling.

OPERATING INSTRUCTIONS

- Disconnect power before making any adjustments
- Abrasive belt rotation is counterclockwise. If the abrasive belt is lap spliced, be sure of correct rotation. Butt spliced belts are bi-directional.

Belt Tensioning

- Belt tension is pre-set with air regulator (45, 53). No belt tension adjustment is needed. Set air pressure to **40 PSI** for proper belt tension. **Do not exceed 50 PSI.**
 - Use the air valve (45, 53) to apply or release belt tension.
 - Always release air pressure after daily use to reduce unnecessary belt stretching.



OPERATING INSTRUCTIONS – Continued

Belt Changing

- Turn the machine OFF.
- Release air pressure with the control valve—the upper pulley will retract to release tension.
- Open the guard door and remove the sanding belt.
- Install the new belt.
 - Check for directional arrows inside the belt and align correctly.
- Close the guard door securely.
- Reapply tension using the control valve.

Belt Tracking

- After applying belt tension, use the JOG switch and tracking knob to align the belt.
 - Multiple jogs may be needed to center the belt.
- While holding the JOG switch, adjust the tracking knob:
 - Turn clockwise → tilts pulley upward, moving the belt away from the machine frame.
 - Turn counter - clockwise → tilts pulley downward, moving the belt toward the machine frame.
- Once the belt is properly tracked in JOG mode, switch to RUN mode.
 - Warning: Keep hands clear of the belt when powering on.

Note

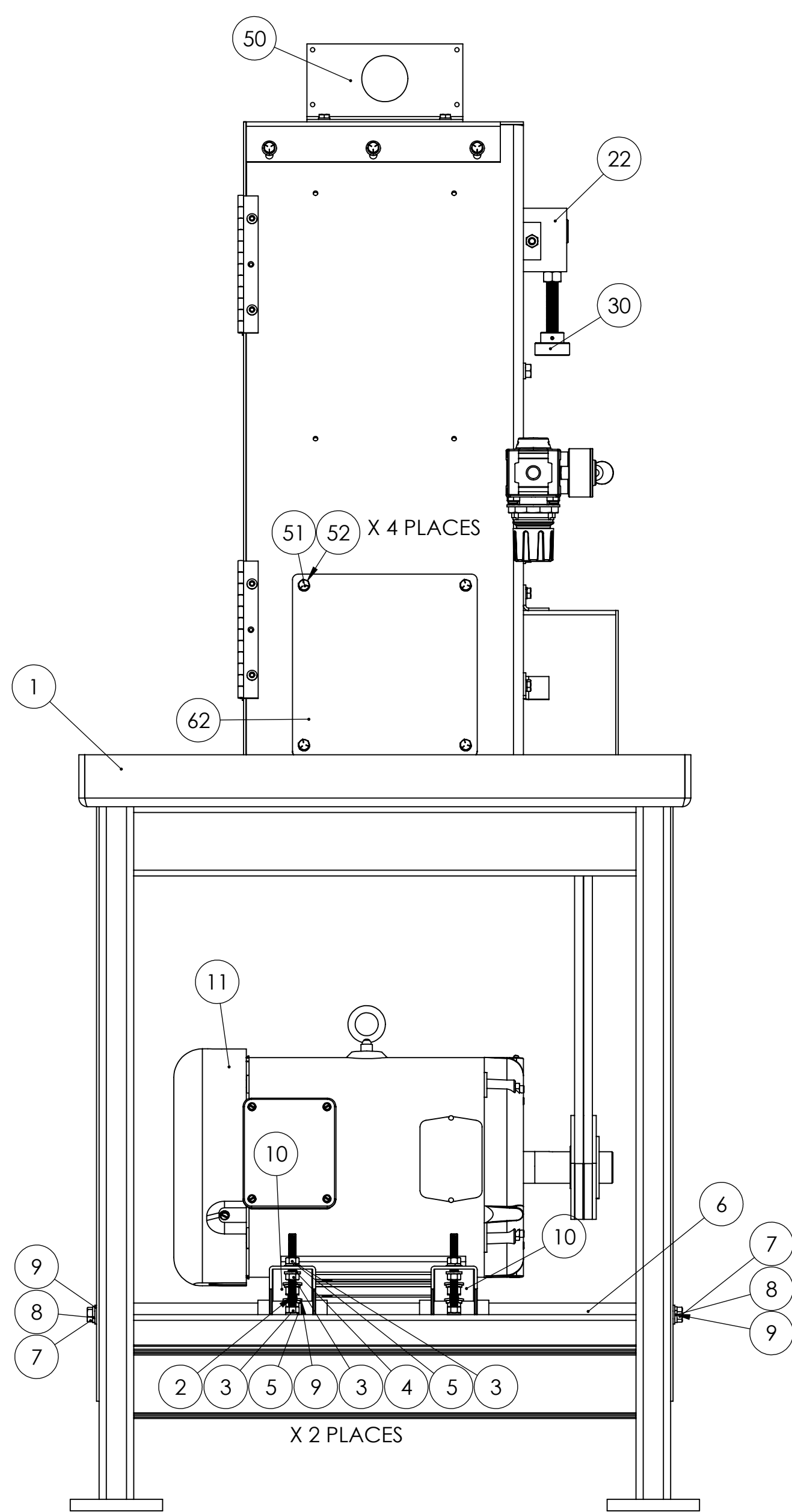
- Examine the abrasive belt carefully before use. Never use an abrasive belt with a nicked or cut edge, crease, or handling damage.
 - If using a dust collector, empty the base and check or replace the filter regularly to maintain performance and prevent combustible buildup.
-

WARRANTY: All products are guaranteed for a period of one year to the original purchaser, against defects in material workmanship under normal use. Exclusions may apply.

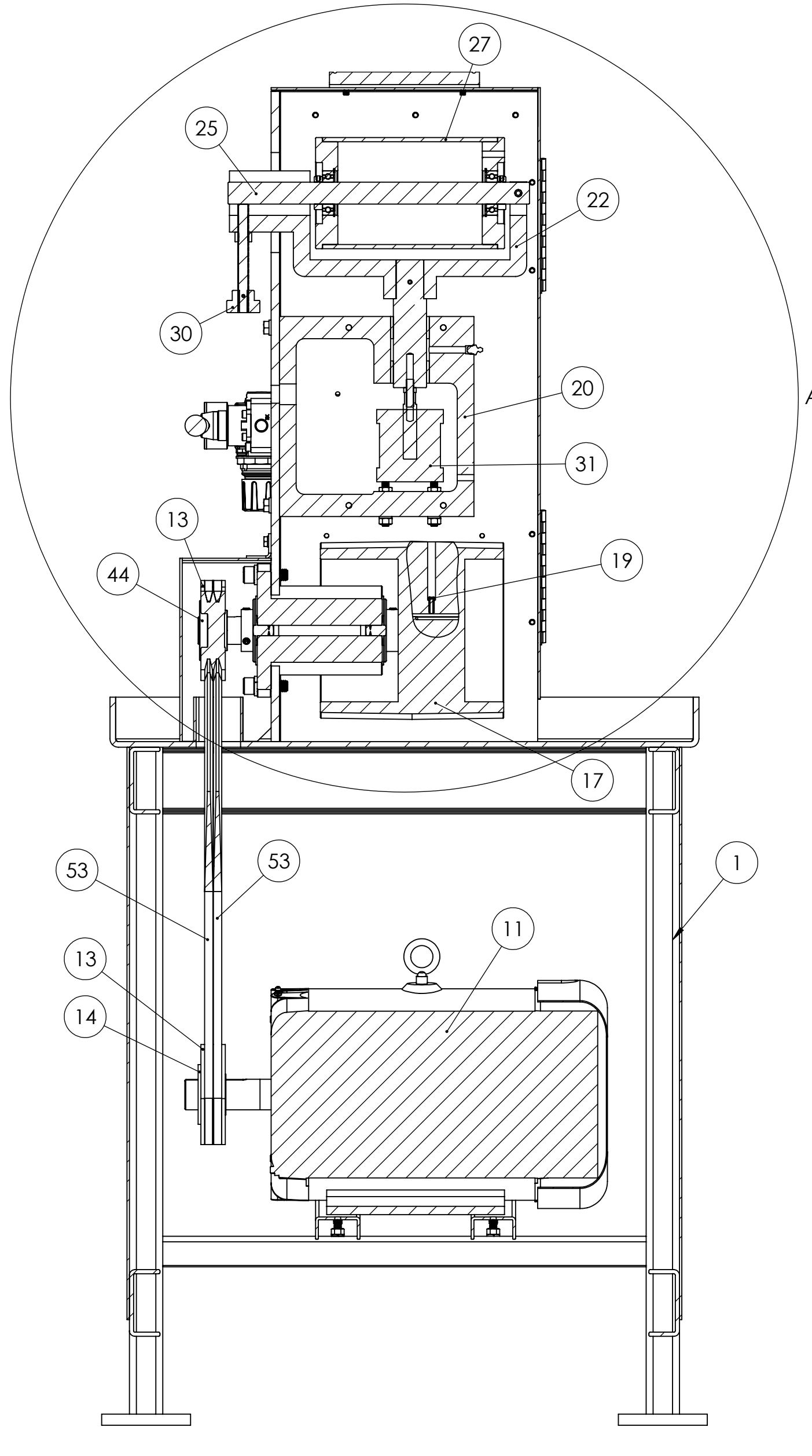
RETURN POLICY: Authorization must be obtained BEFORE returning merchandise. Contact our customer service department at 269-382-2050 for a return authorization number. Include with your return a copy of your invoice or packing slip. Materials must be sent back prepaid unless otherwise indicated. All returns will be subject to a 10% restocking charge. No returns will be accepted after one year of the invoice date.

BELT SANDER SAFETY:

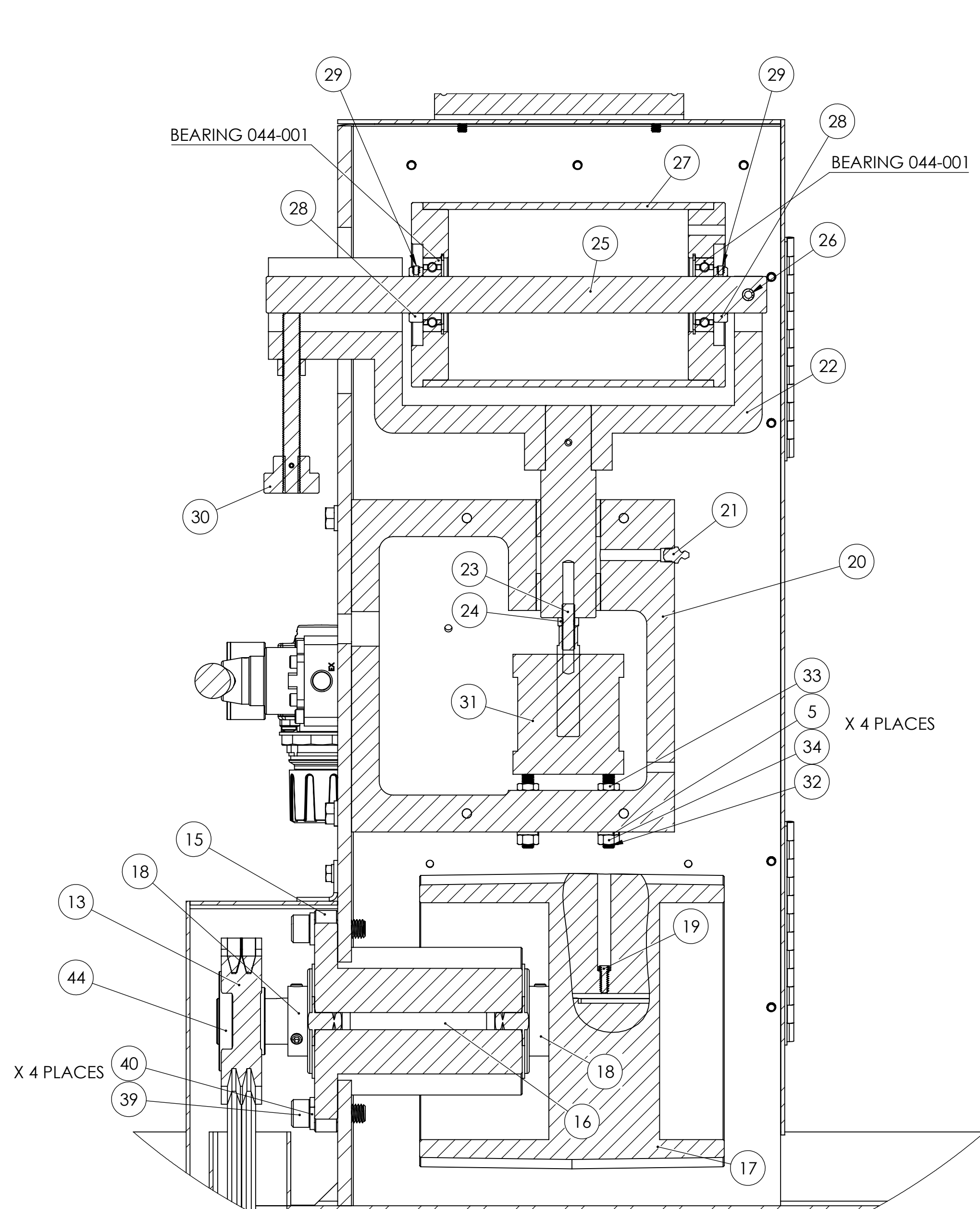
- 1) Read the operating instructions before running machine.
- 2) Always wear safety glasses or a full-face shield for protection.
- 3) Keep hands clear of the sanding area.
- 4) Never wear gloves or loose-fitting clothing when operating this machine.
- 5) Always keep hair tied back or covered.
- 6) Let machine rotation come to a full stop before changing belt.
- 7) Keep Safety guards in place. Do not alter guards or machine in any way. Any alterations to guards or machine could cause serious injury.
- 8) All belt sanders should be operated in a well-ventilated area. The dust created when some materials are sanded can be harmful. Dust masks are recommended as practical means of minimizing dust inhalation. Fumes from other sources can also cause fires when in contact with sanding sparks.
- 9) Sparks created by sanding should be directed downward and away from the face and body. Do not grind near flammable material.
- 10) Electric sanding machines are not intended for use in or near water. This includes an operator standing on a wet floor or working around containers of water or other conductive liquids.



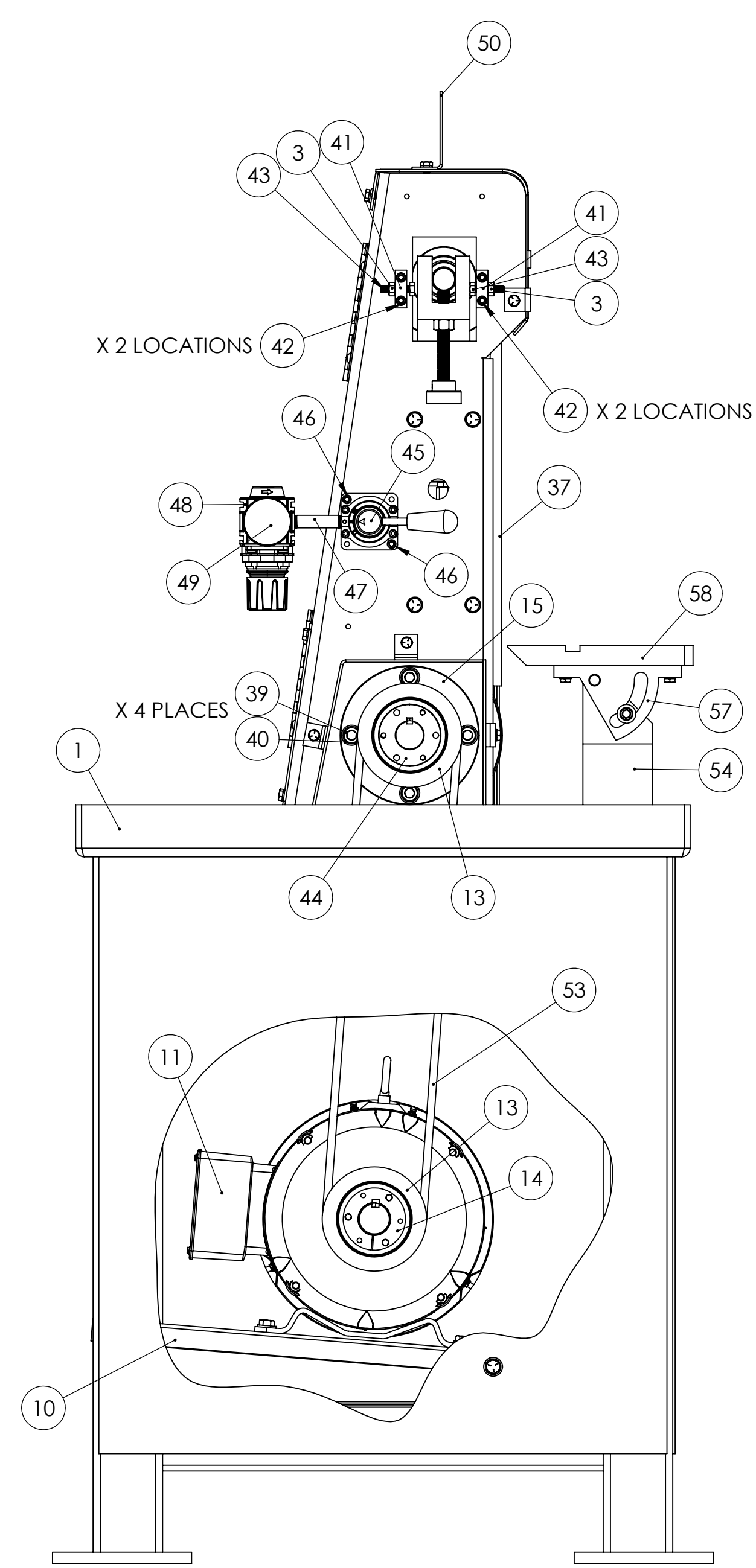
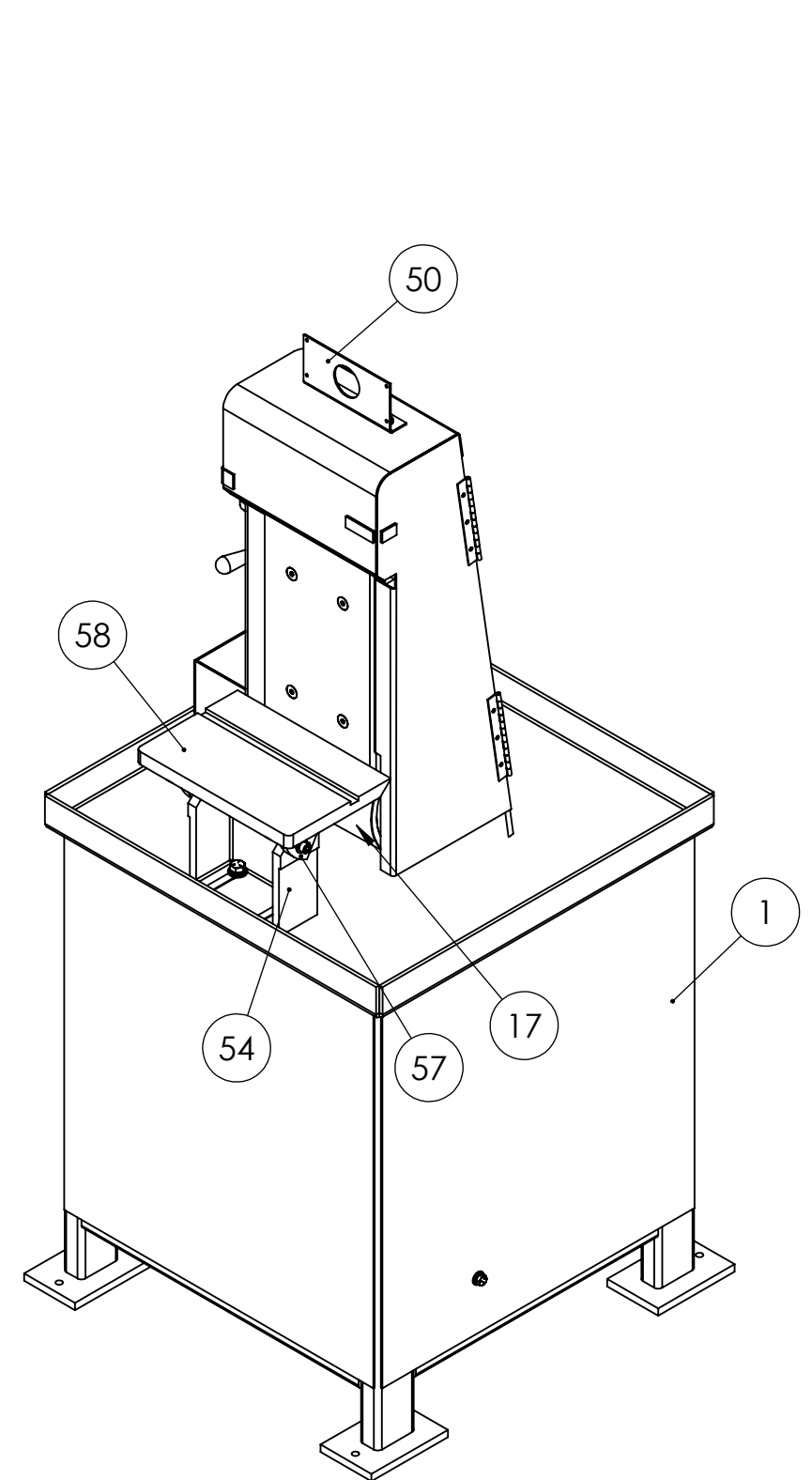
BACK VIEW



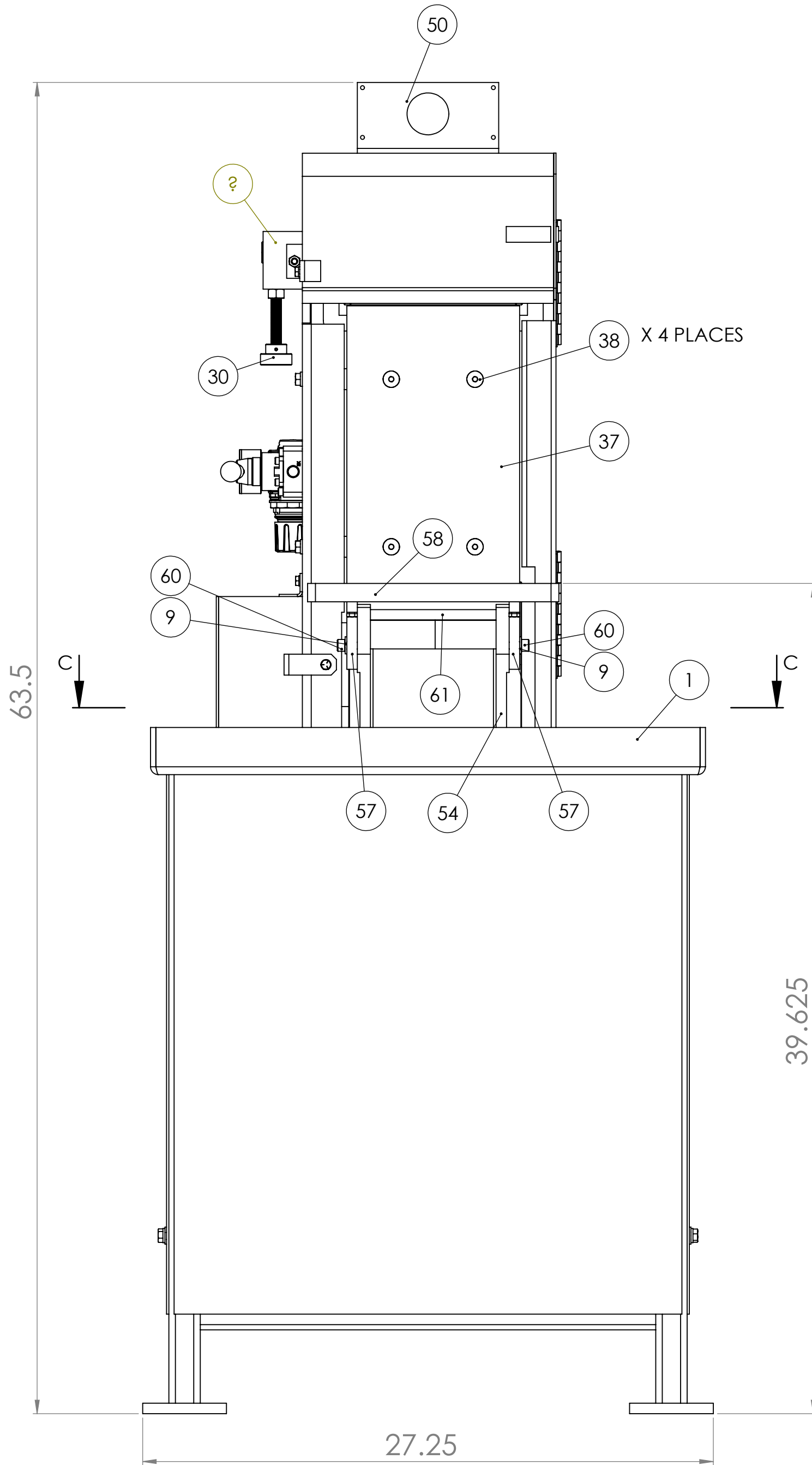
INTERIOR VIEW FROM FRONT SIDE



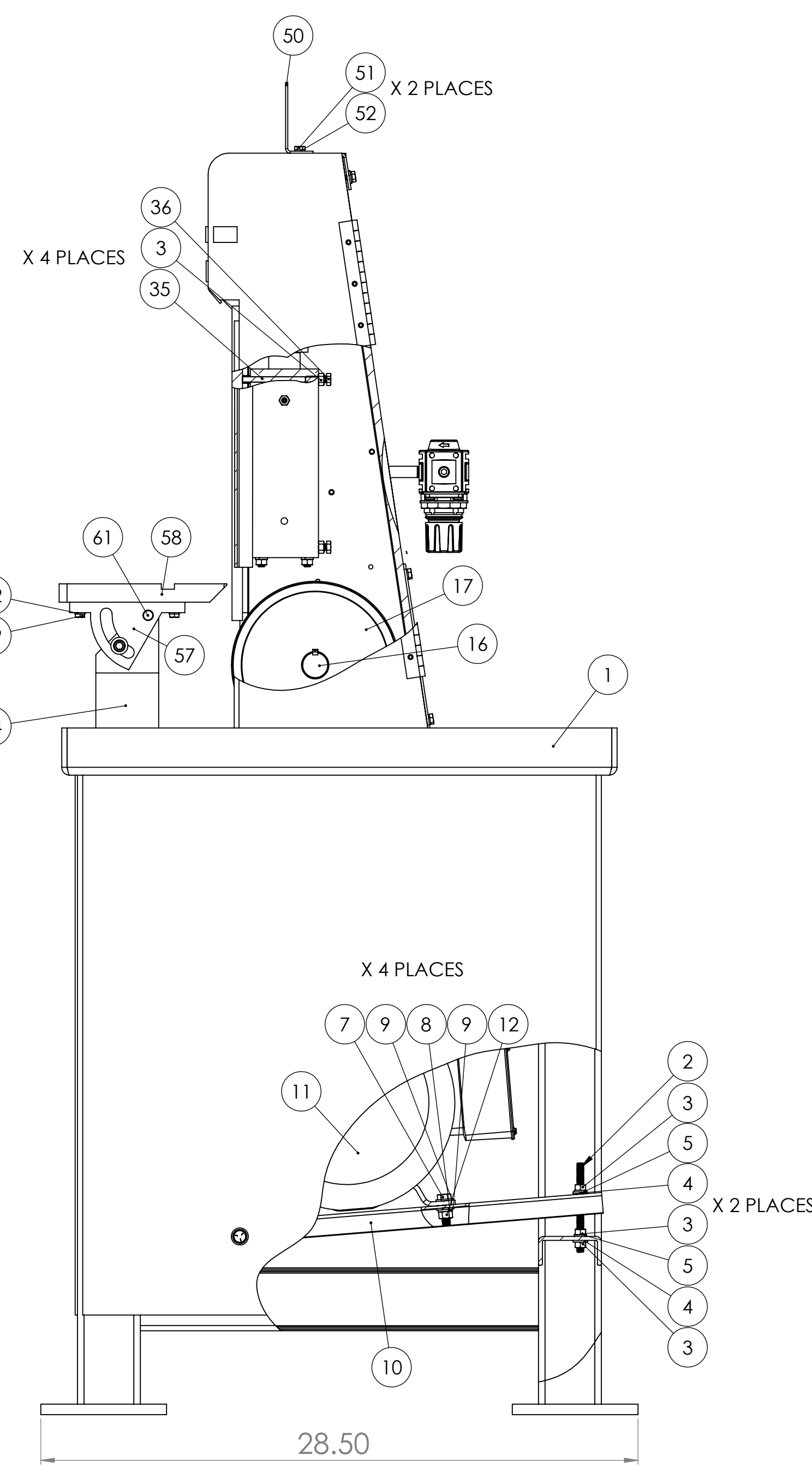
DETAIL A
SCALE 2:1



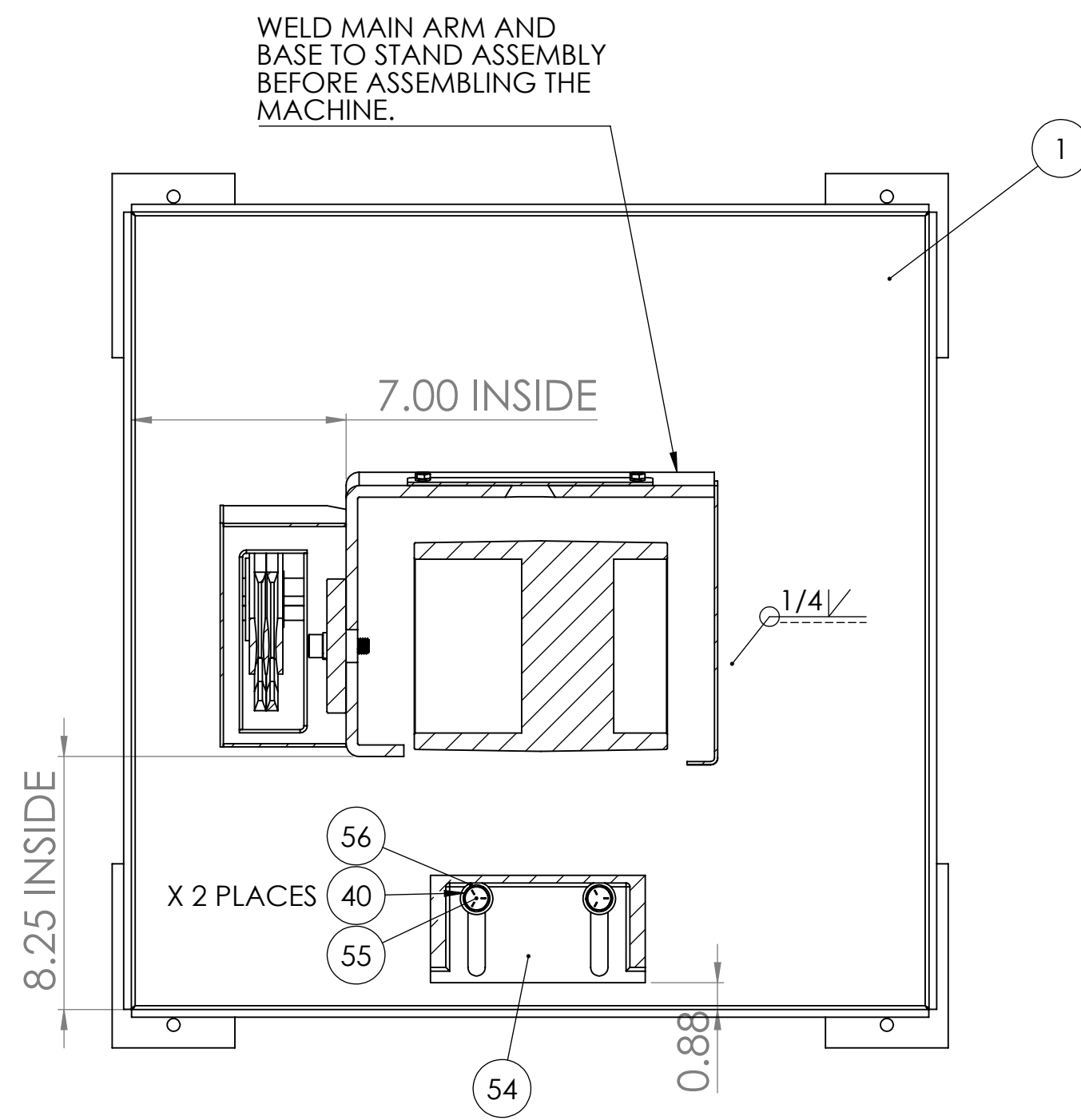
LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW



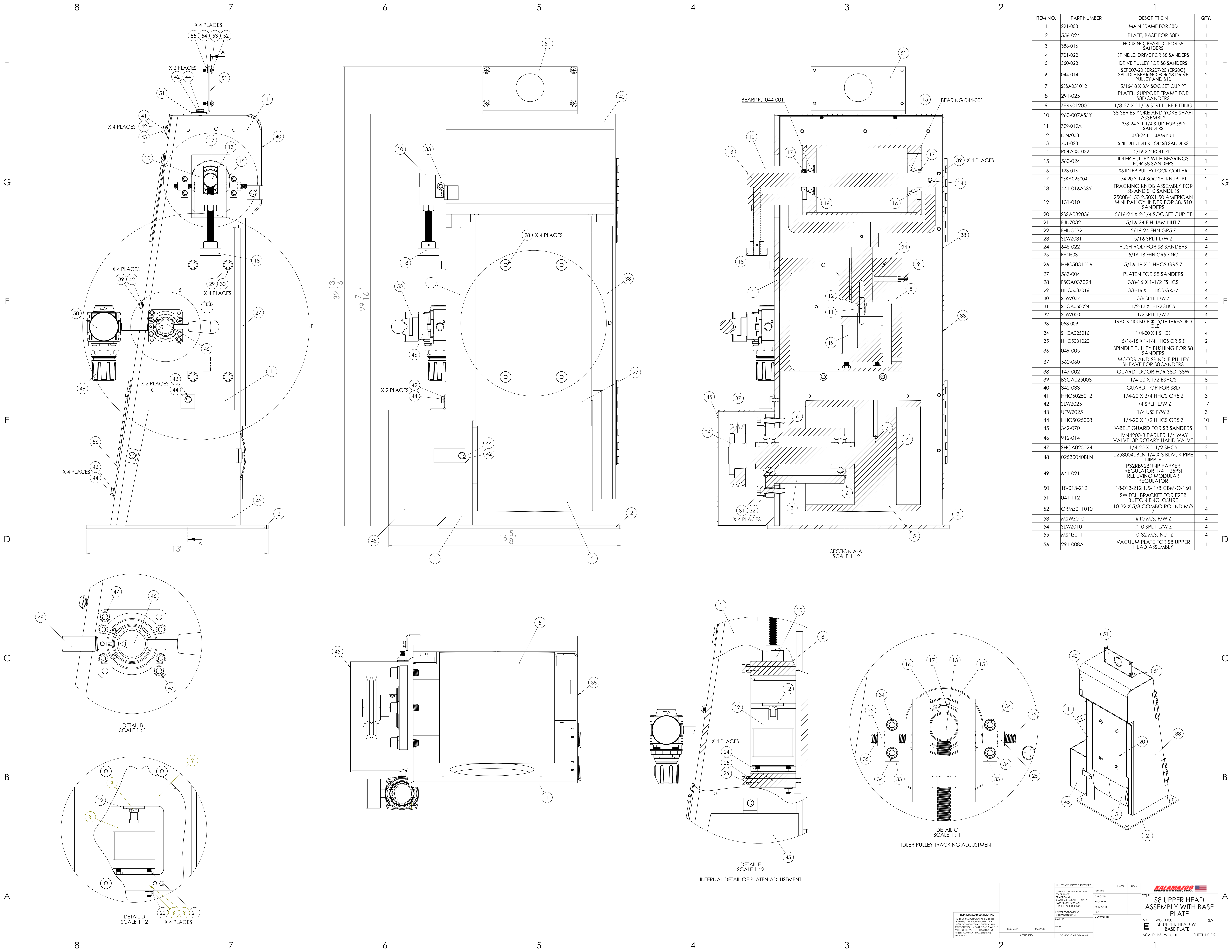
SECTION C-C
TOP VIEW
ATTACHMENT OF MAIN ARM/ BASE TO STAND

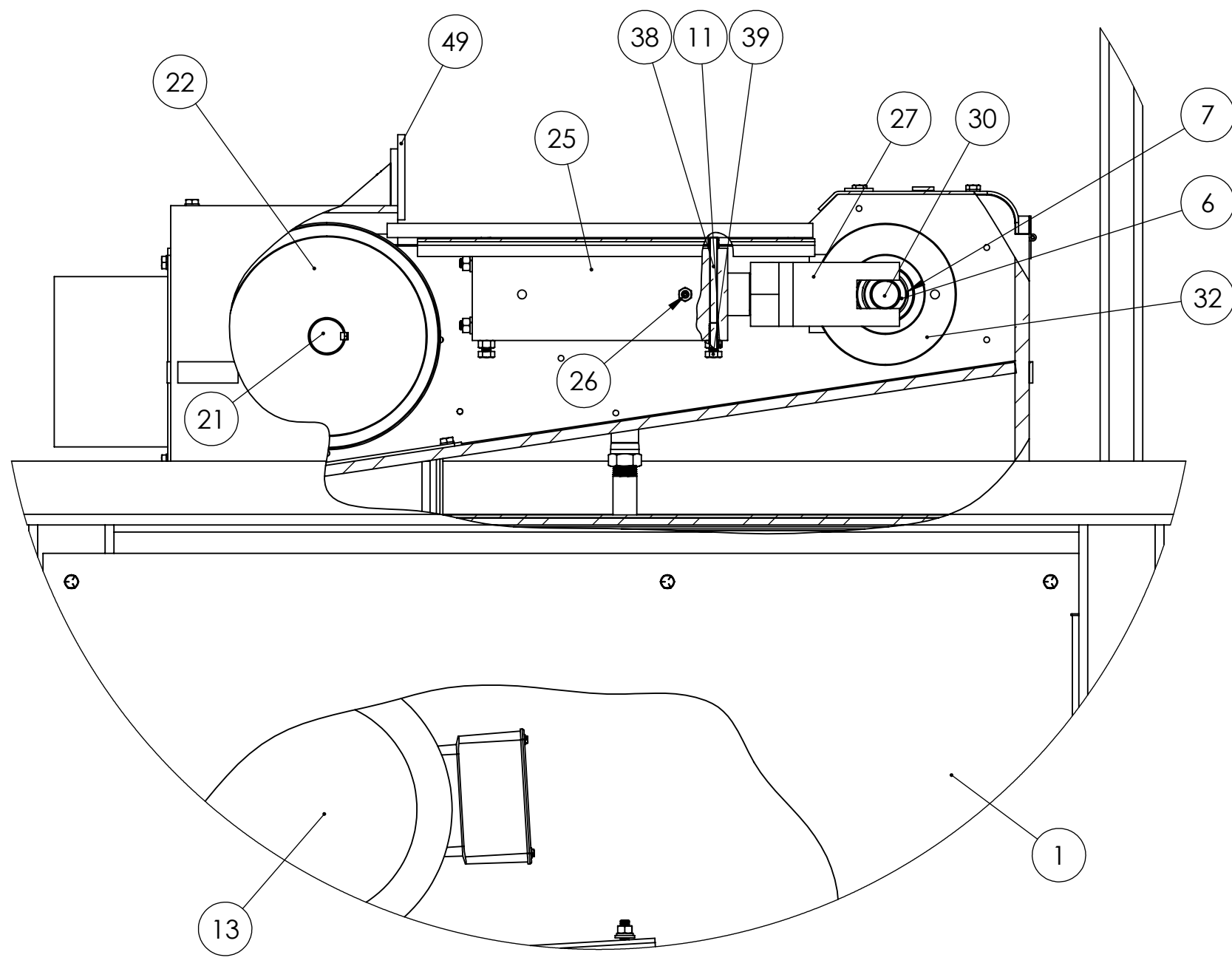
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	716-003	STAND FOR S8D SANDER	1
2	RND-0.3125-18THRD X 4.25	4-1/4 INCHES OF 5/16-18 THREADED ROD	2
3	FHN5031	5/16-18 FHN GR5 ZINC	14
4	UFWZ031	5/16 USS F/W Z	6
5	SLWZ031	5/16 SPLIT L/W Z	8
6	700-043	S8 MOTOR MOUNT PIVOT SHAFT	1
7	HHC5037020	3/8-16 X 1-1/4 HHCS GR5 Z	10
8	SLWZ037	3/8 SPLIT L/W Z	10
9	UFWZ037	3/8 USS F/W Z	12
10	690-014	RAIL, MOTOR MOUNT FOR S 460, S6, S8 SANDERS	2
11	486-032	7-1/2 HP MOTOR FOR S8D	1
12	FHN5037	3/8-16 FHN GR5 Z	4
13	560-060	MOTOR AND SPINDLE PULLEY SHEAVE FOR S8 SANDERS	2
14	049-017	MOTOR PULLEY BUSHING FOR K20SF-20 HP K20SW-20HP, K20E, K4020-22W-20HP	1
15	386-016	HOUSING, BEARING FOR S8 SANDERS	1
16	701-022	SPINDLE, DRIVE FOR S8 SANDERS	1
17	560-023	DRIVE PULLEY FOR S8 SANDERS	1
18	044-014	SER207-20 SER207-20 (ER20C) SPINDLE BEARING FOR S8 DRIVE PULLEY AND S10	2
19	SSSA031012	5/16-18 X 3/4 SOC SET CUP PT	1
20	291-025	PLATEN SUPPORT FRAME FOR S8D SANDERS	1
21	ZERK012000	1/8-27 X 11/16 STRT LUBE FITTING	1
22	960-007ASSY	S8 SERIES YOKE AND YOKE SHAFT ASSEMBLY	1
23	709-010A	3/8-24 X 1-1/4 STUD FOR S8D SANDERS	1
24	FJNZ038	3/8-24 F H JAM NUT	1
25	701-023	SPINDLE, IDLER FOR S8 SANDERS	1
26	ROLA031032	5/16 X 2 ROLL PIN	1
27	560-024	IDLER PULLEY WITH BEARINGS FOR S8 SANDERS	1
28	123-016	S6 IDLER PULLEY LOCK COLLAR	2
29	SSKA025004	1/4-20 X 1/4 SOC SET KNURL PT.	2
30	441-016ASSY	TRACKING KNOB ASSEMBLY FOR S8 AND S10 SANDERS	1
31	131-010	2500B-1, S0 2, S0YL, S0 AMERICAN MINI PAK CYLINDER FOR S8, S10 SANDERS	1
32	SSSA032036	5/16-24 X 2-1/4 SOC SET CUP PT	4
33	FJNZ032	5/16-24 F H JAM NUT Z	4
34	FHN5032	5/16-24 FHN GR5 Z	4
35	645-022	PUSH ROD FOR S8 SANDERS	4
36	HHC5031016	5/16-18 X 1 HHCS GR5 Z	4
37	563-004	PLATEN FOR S8 SANDERS	1
38	FSCA037024	3/8-16 X 1-1/2 FSHCS	4
39	SHCA050024	1/2-13 X 1-1/2 SHCS	4
40	SLWZ050	1/2 SPLIT L/W Z	6
41	053-009	TRACKING BLOCK- 5/16 THREADED HOLE	2
42	SHCA025016	1/4-20 X 1 SHCS	4
43	HHC5031020	5/16-18 X 1-1/4 HHCS GR 5 Z	2
44	049-005	SPINDLE PULLEY BUSHING FOR S8 SANDERS	1
45	912-014	HVN4200-8 PARKER 1/4 WAY VALVE, 3P ROTARY HAND VALVE	1
46	SHCA025024	1/4-20 X 1-1/2 SHCS	2
47	02530040BLN	02530040BLN 1/4 X 3 BLACK PIPE NIPPLE	1
48	641-021	P32RB92BNNP PARKER REGULATOR 1/4" 125PSI RELIEVING MODULAR REGULATOR	1
49	18-013-212	18-013-212 1.5- 1/8 CBM-Q-160	1
50	041-112	SWITCH BRACKET FOR E2PB BUTTON ENCLOSURE	1
51	HHC5025008	1/4-20 X 1/2 HHCS GR5 Z	6
52	SLWZ025	1/4 SPLIT L/W Z	10
53	051-011	3VXS60 V-BELT FOR S8 SERIES	2
54	711-009	SUPPORT, TABLE FOR S8 SANDERS	1
55	HHC5050032	1/2-13 X 2 HHCS GR5 Z	2
56	UFWZ050	1/2 USS F/W Z	2
57	831-017	TRUNNION, TABLE FOR S8 SANDERS	2
58	829-015	TABLE, WORK FOR S8 SANDERS	1
59	HHC5025016	1/4-20 X 1 HHCS GR5 Z	4
60	SHCA037016	3/8-16 X 1 SHCS	2
61	711-009ROD	8-1/4 OF 1/2 ROD RN-1/2 CF C1018	1
62	291-008A	VACUUM PLATE FOR S8 UPPER HEAD ASSEMBLY	1

PLEASE CONSULT S8 UPPER HEAD ASSEMBLY DRAWING FOR MORE DETAILED INFORMATION ON THE UPPER HEAD ASSEMBLY

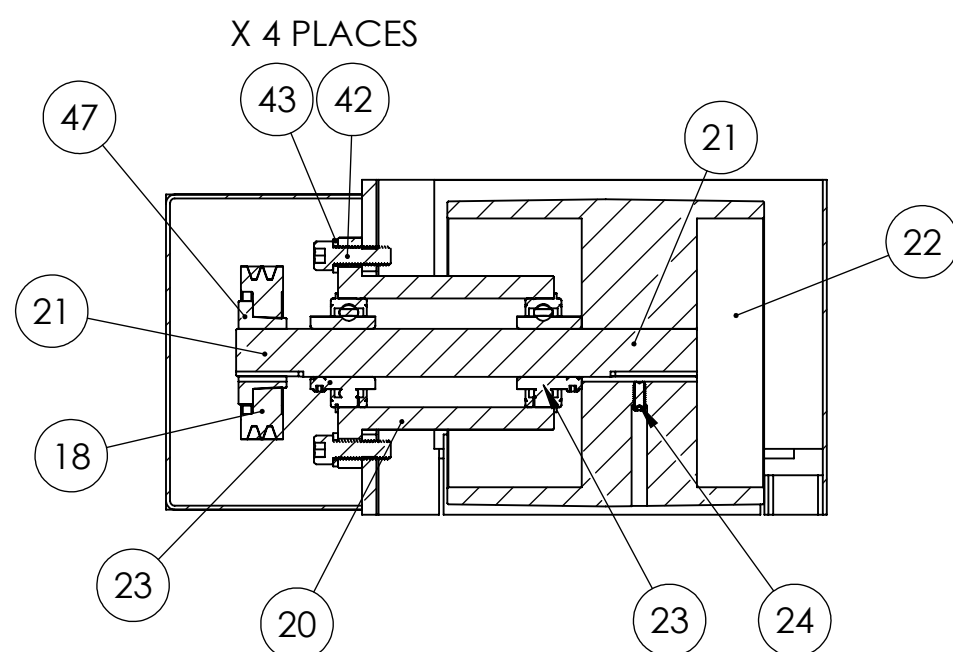
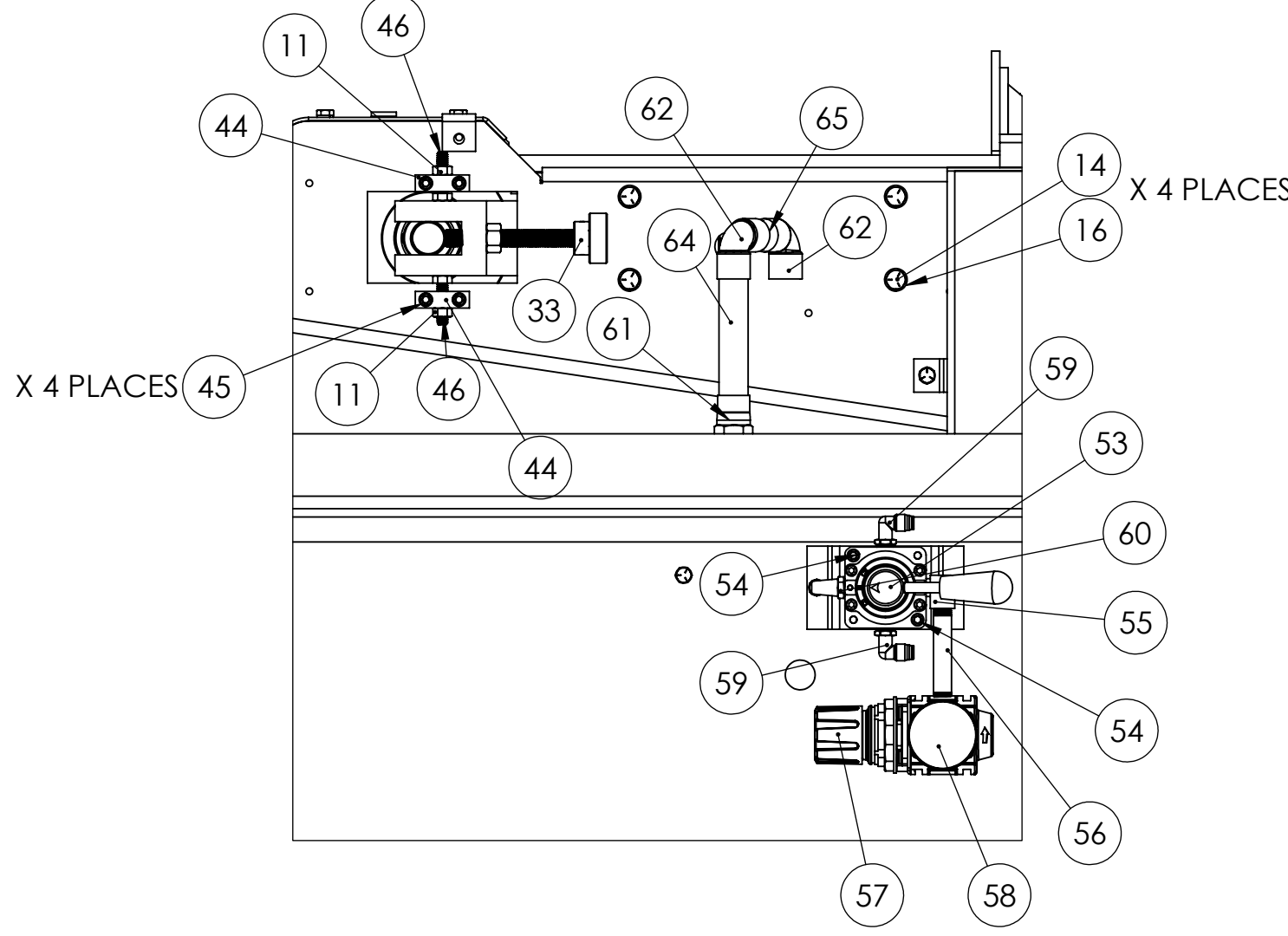
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UNLESS OTHERWISE SPECIFIED:	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ANGULAR HORIZONTAL THREE PLACE DECIMAL	DRAWN CHECKED ENG APPR MFG APPR	
INTERPRET GEOMETRIC TOLERANCES PER (ASME)	G.A. COMMENTS:	
NEXT ASSY	USED ON	FRSH
APPLICATION	DO NOT SCALE DRAWING	
TITLE S8D ASSEMBLY		
SIZE DWG. NO. E S8D ASSEMBLY		
SCALE: 1:1.5 WEIGHT: SHEET 1 OF 1		

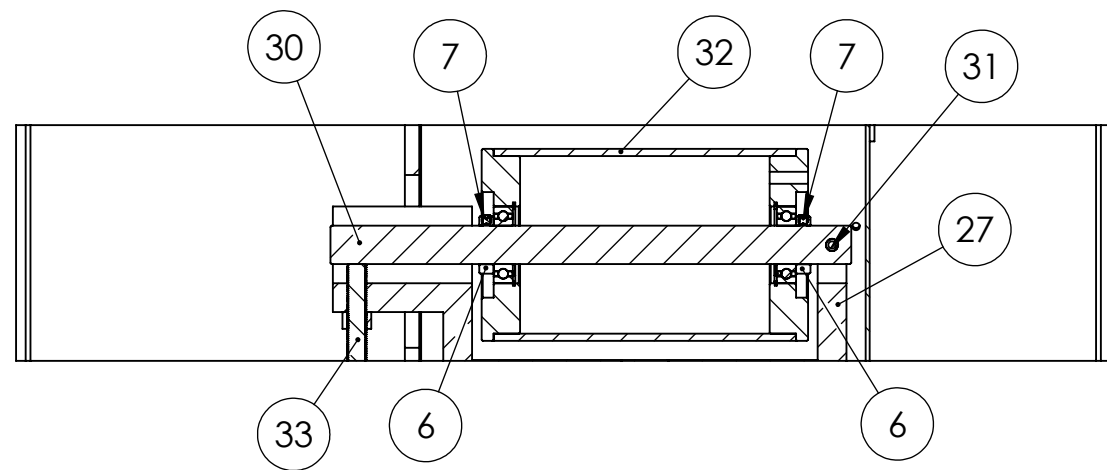




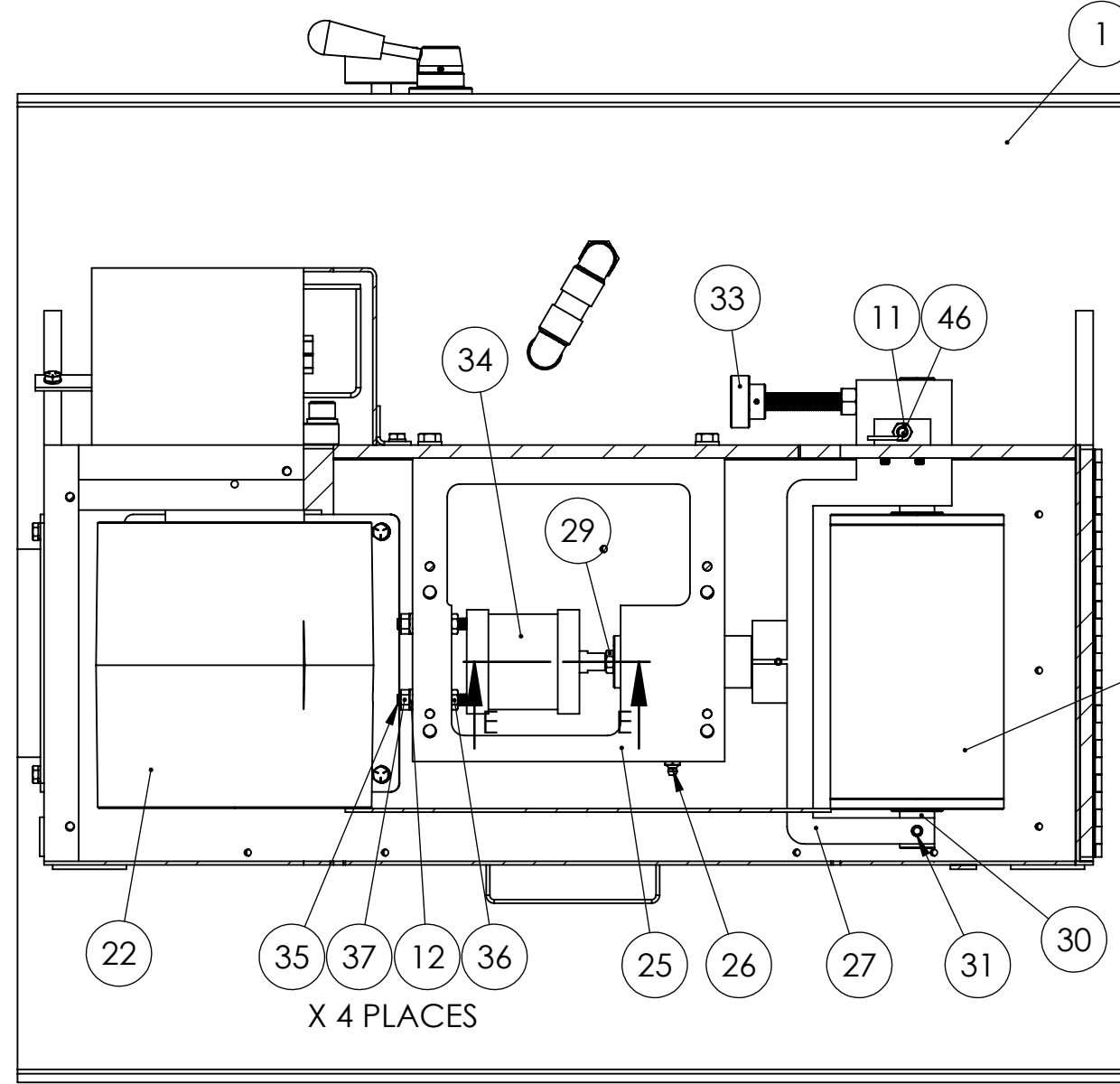
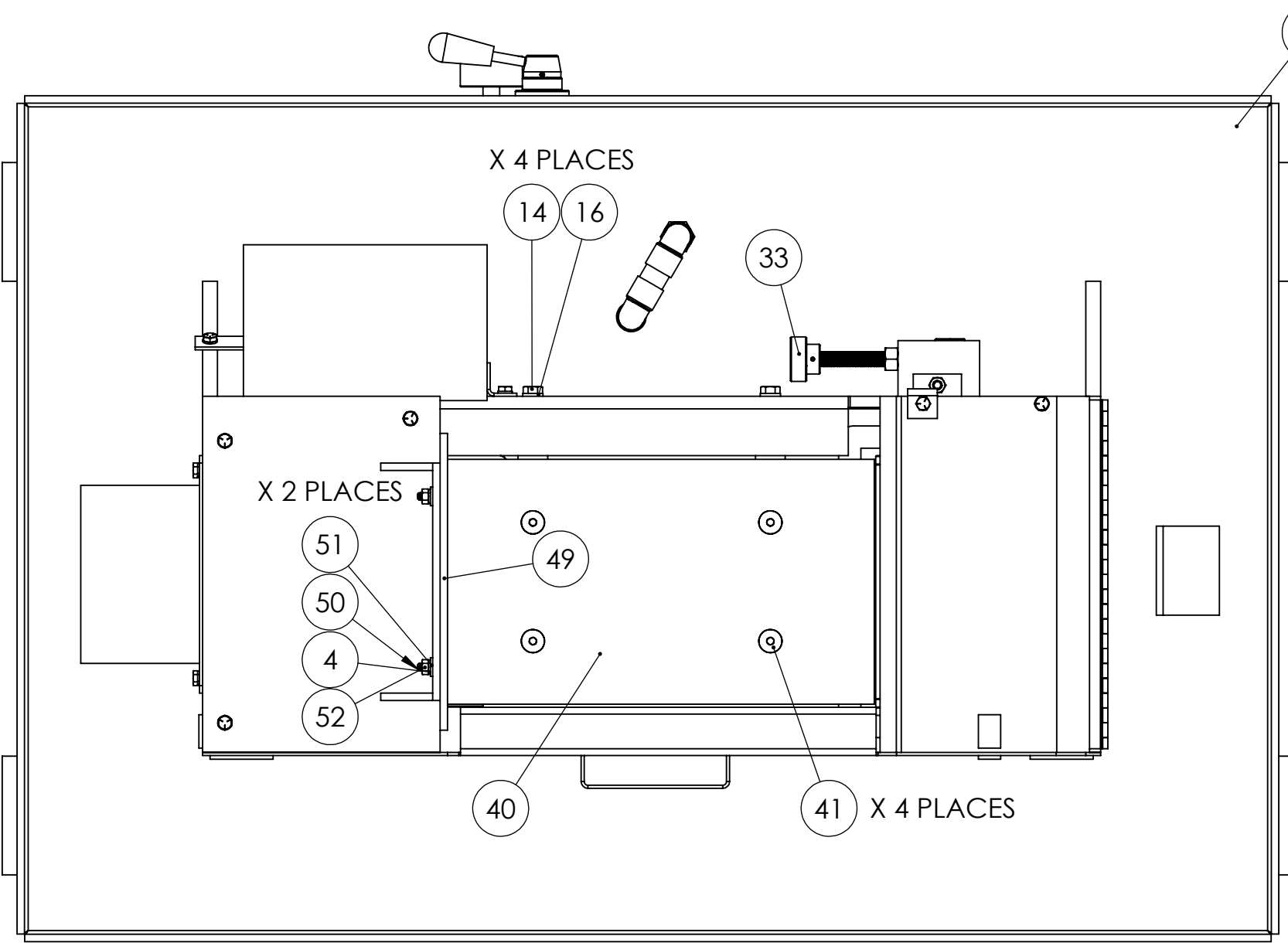
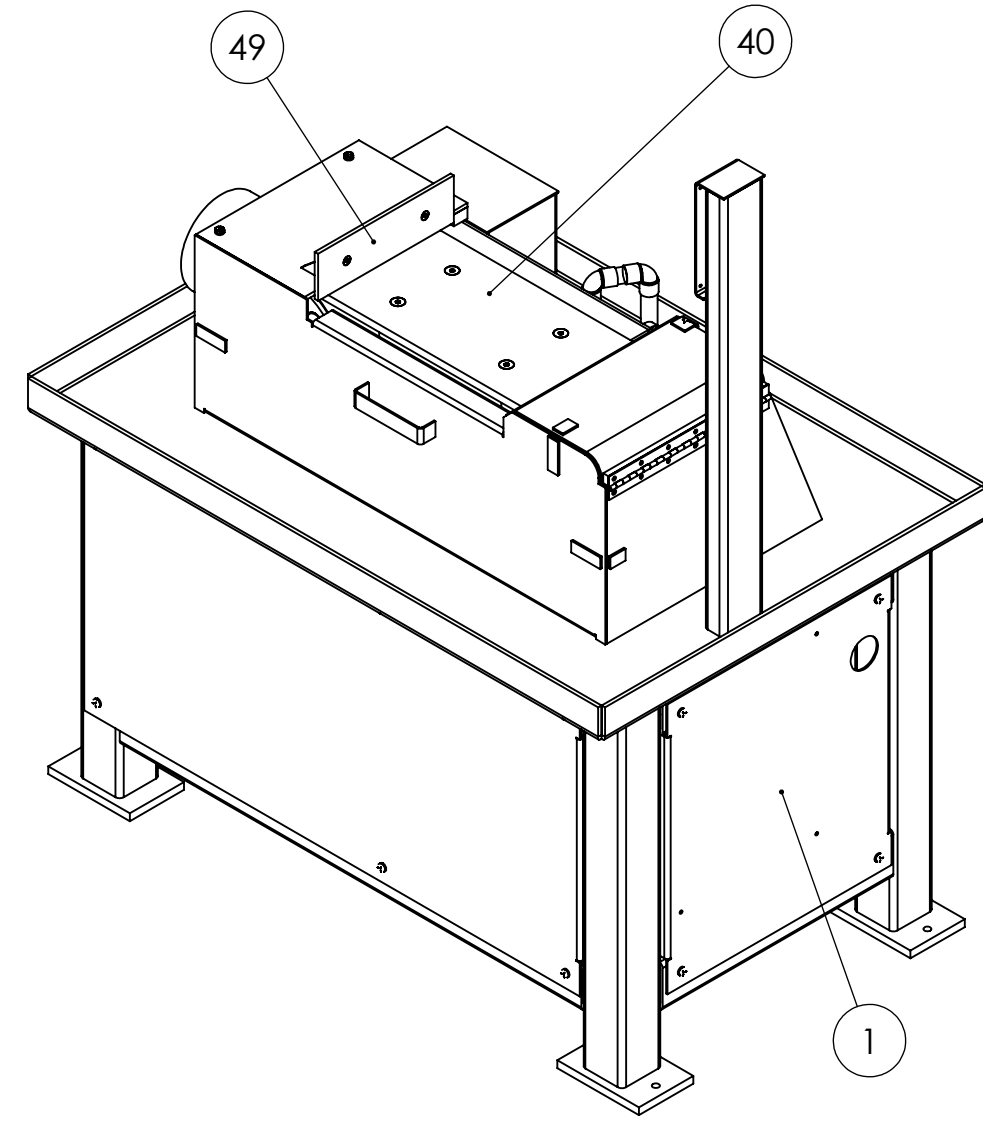
DETAIL B



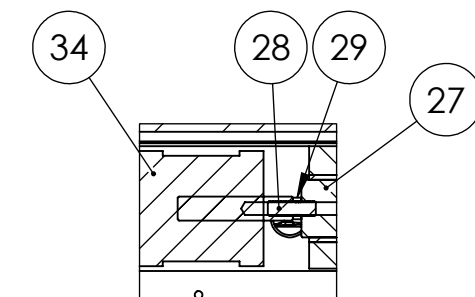
SECTION D-D
DRIVE PULLEY
DETAILS



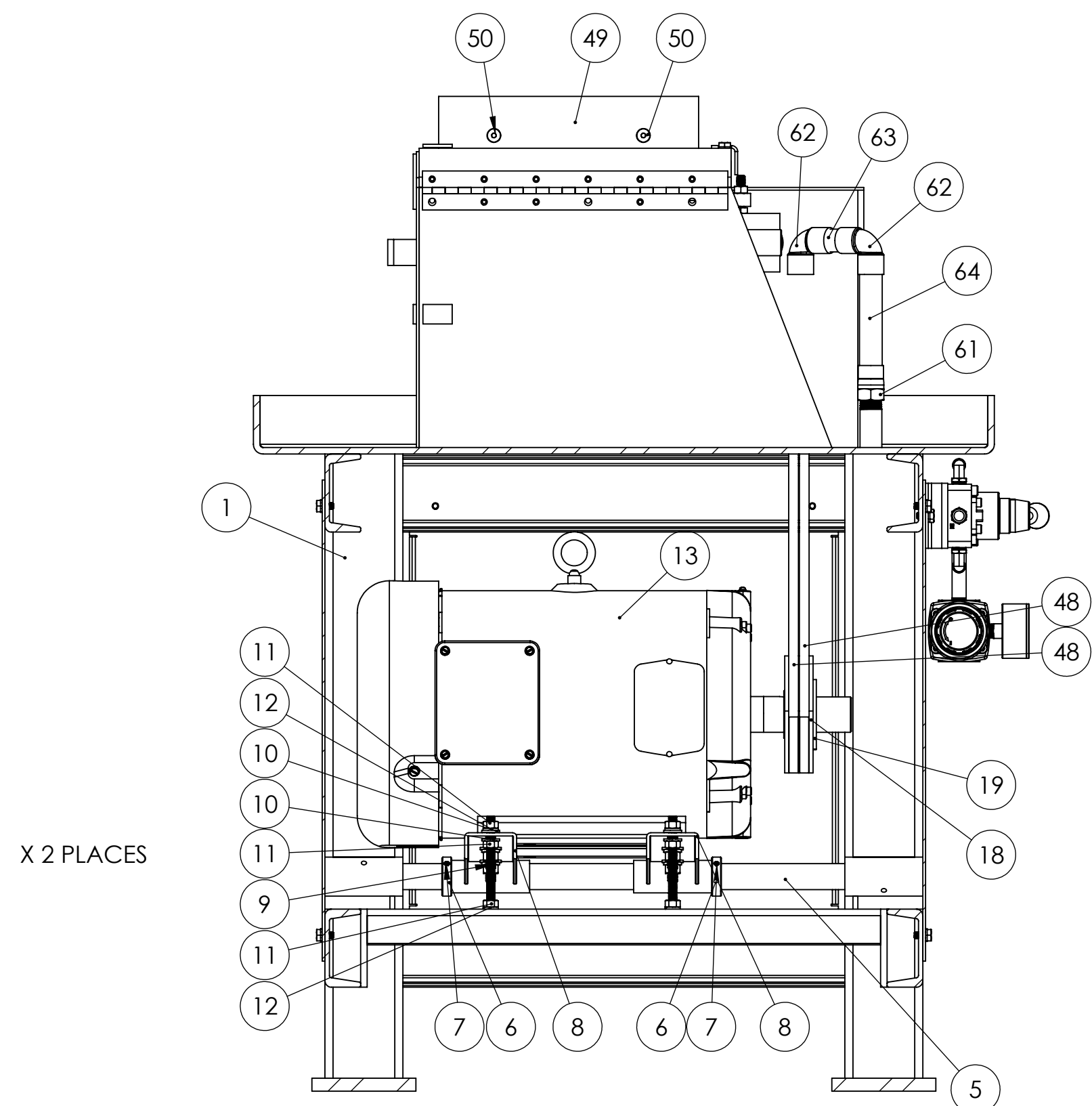
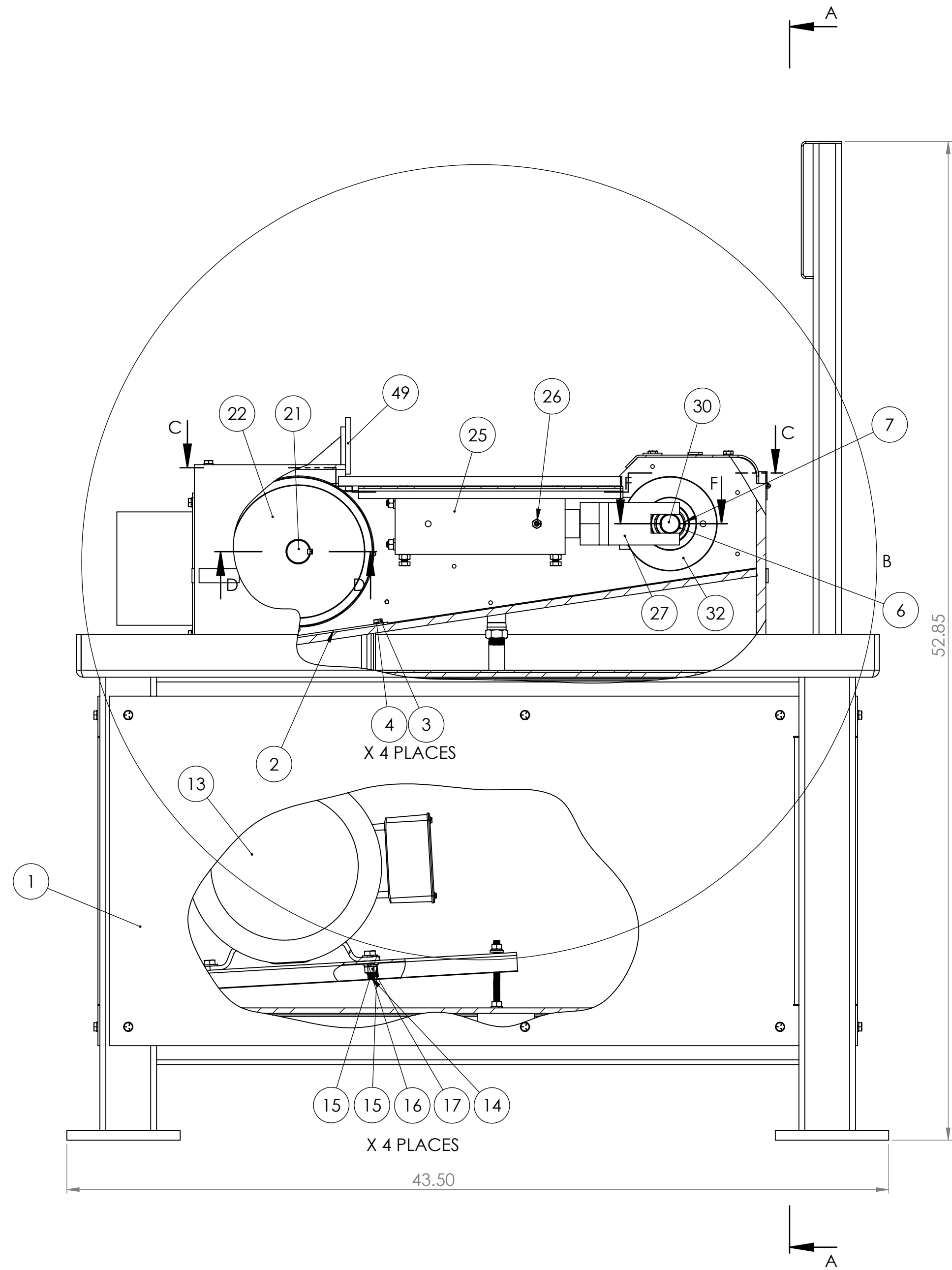
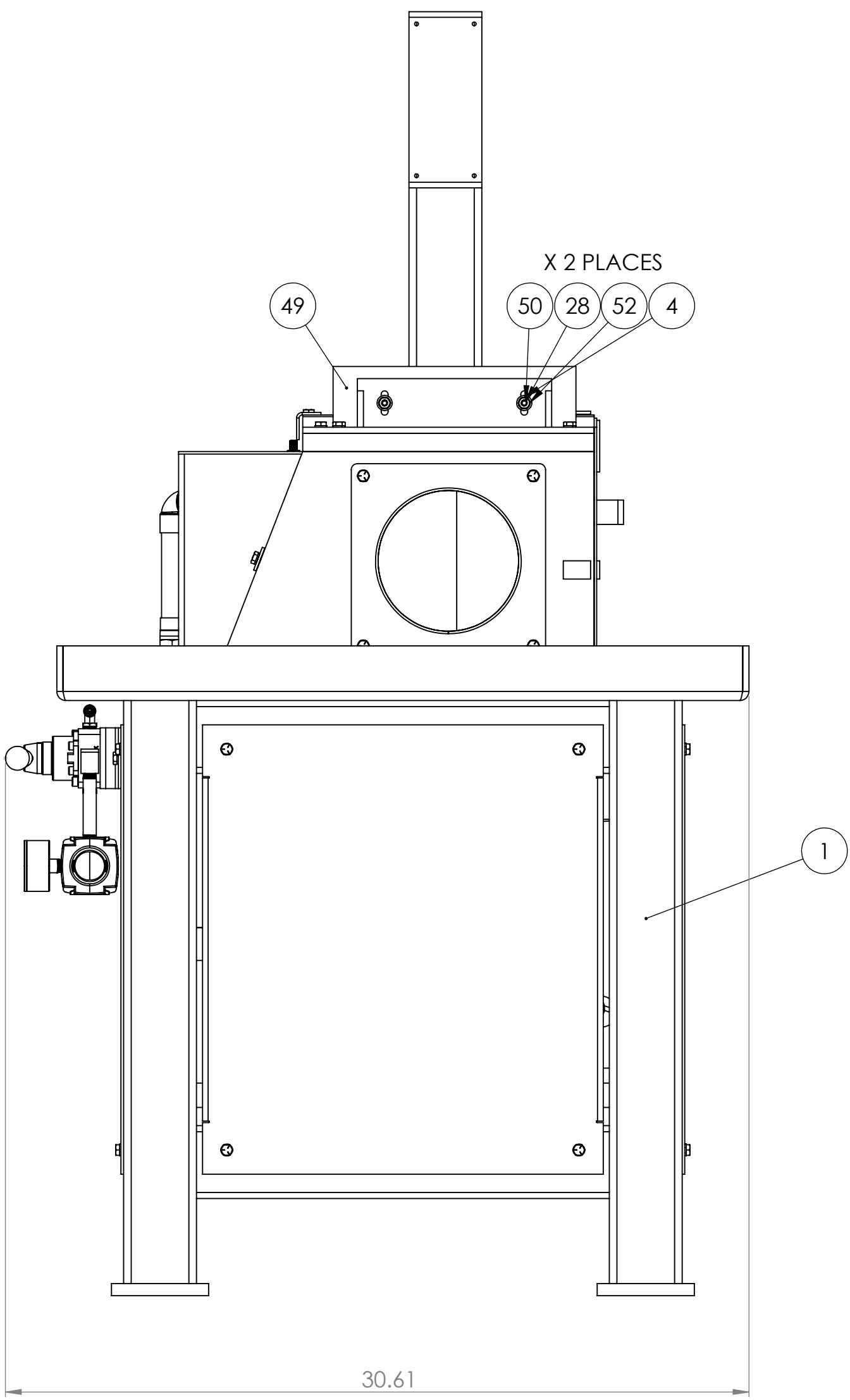
SECTION F-F
IDLER PULLEY
DETAILS



SECTION C-C



SECTION E-E
CYLINDER TO POST
DETAILS



SECTION A-A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	716-006	STAND ASSEMBLY FOR S8HD	1
2	291-008A	VACUUM PLATE FOR S8 UPPER HEAD ASSEMBLY	1
3	HHC5025008	1/4-20 X 1/2 HHCS GR5 Z	4
4	SLW2025	1/4 SPLIT L/W Z	6
5	700-045	S8HD-S8HW MOTOR MOUNT PIVOT SHAFT	1
6	123-016	S6 IDLER PULLEY LOCK COLLAR	4
7	SSKA025004	1/4-20 X 1/4 SOC SET KNURL PT.	4
8	690-014	RAIL, MOTOR MOUNT FOR S 460, S6, S8 SANDERS	2
9	RND-0.3125-18THRD X 4.25	4-1/4 INCHES OF 5/16-18 THREADED ROD	2
10	UFW2031	5/16 USS F/W Z	6
11	FHN5031	5/16-18 FHN GR5 ZINC	14
12	SLW2031	5/16 SPLIT L/W Z	8
13	486-032	7-1/2 HP MOTOR FOR S8D	1
14	HHC5037020	3/8-16 X 1-1/4 HHCS GR5 Z	8
15	UFW2037	3/8 USS F/W Z	8
16	SLW2037	3/8 SPLIT L/W Z	8
17	FHN5037	3/8-16 FHN GR5 Z	4
18	560-060	MOTOR AND SPINDLE PULLEY SHEAVE FOR S8 SANDERS	2
19	049-017	MOTOR PULLEY BUSHING FOR K20SF-20, HP K20SW-20HP, K20E, KWD-22W-20HP	1
20	386-016	HOUSING, BEARING FOR S8 SANDERS	1
21	701-022	SPINDLE, DRIVE FOR S8 SANDERS	1
22	560-023	DRIVE PULLEY FOR S8 SANDERS	1
23	044-014	SER207-20 SER207-20 (ER20C) SPINDLE BEARING FOR S8 DRIVE PULLEY AND S10	2
24	SSSA031012	5/16-18 X 3/4 SOC SET CUP PT	1
25	291-025	PLATEN SUPPORT FRAME FOR S8D SANDERS	1
26	ZERK012000	1/8-27 X 1 1/16 STRT LUBE FITTING	1
27	960-007ASSY	S8 SERIES YOKE AND YOKE SHAFT ASSEMBLY	1
28	709-010A	3/8-24 X 1-1/4 STUD FOR S8D SANDERS	1
29	FJN2038	3/8-24 F H JAM NUT	1
30	701-023	SPINDLE, IDLER FOR S8 SANDERS	1
31	ROLA031032	5/16 X 2 ROLL PIN	1
32	560-024	IDLER PULLEY WITH BEARINGS FOR S8 SANDERS	1
33	441-016ASSY	TRACKING KNOB ASSEMBLY FOR S8 AND S10 SANDERS	1
34	131-010	2500B-1.50 2.50X1.50 AMERICAN MINI PAK CYLINDER FOR S8, S10 SANDERS	1
35	SSSA032036	5/16-24 X 2-1/4 SOC SET CUP PT	4
36	FJN2032	5/16-24 F H JAM NUT Z	4
37	FHN5032	5/16-24 FHN GR5 Z	4
38	645-022	PUSH ROD FOR S8 SANDERS	4
39	HHC5031016	5/16-18 X 1 HHCS GR5 Z	4
40	563-004	PLATEN FOR S8 SANDERS	1
41	FSCA037024	3/8-16 X 1-1/2 FSHCS	4
42	SHCA050024	1/2-13 X 1-1/2 SHCS	4
43	SLW2050	1/2 SPLIT L/W Z	4
44	053-009	TRACKING BLOCK- 5/16 THREADED HOLE	2
45	SHCA025016	1/4-20 X 1 SHCS	4
46	HHC5031020	5/16-18 X 1-1/4 HHCS GR 5 Z	2
47	049-005	SPINDLE PULLEY BUSHING FOR S8 SANDERS	1
48	051-033	3VX475 V-BELT	2
49	829-061	S8HD-S8HW WORK TABLE	1
50	FSCA025016	1/4-20 X 1 FSHCS	2
51	UFW2025	1/4 USS F/W Z	2
52	FHN5025	1/4-20 FHN GR5 Z	2
53	912-014	HVN4200-8 PARKER 1/4 WAY VALVE, 3P ROTARY HAND VALVE	1
54	SHCA025024	1/4-20 X 1-1/2 SHCS	2
55	3400X4	3400X4 BRASS STEEL ELBOW	1
56	02535080BLN	02535080BLN 1/4 X 3-1/2 BLACK PIPE NIPPLE	1
57	641-021	P32RBY2BNPP PARKER REGULATOR 1/4" 125PSI RELIEVING MODULAR REGULATOR	1
58	18-013-212	18-013-212 1.5- 1/8 CBM-O-160	1
59	W169PLP-4-4	W169PLP-4-4 BULK PRESTOLOK 1/4 OD X 1/4 MALE NPT ELBOW	2
60	BM-28	BM-28 1/4 AIR SILENCER	1
61	100075CUFA	1 INCH SWEAT X 3/4 COPPER W 1/2 FNPT	1
62	90 DEGREE ELBOW	COPPER 3/4 ELBOW	2
63	75COPPERPIPEX2L ONG	2 INCHES OF 3/4 COPPER PIPE	1
64	75COPPERPIPEX5L ONG	5 INCHES OF 3/4 COPPER PIPE	1

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UNLESS OTHERWISE SPECIFIED:	THICKNESS	NAME	DATE
DIMENSIONS ARE IN INCHES FRACTIONS ARE ANGULAR DIMENSIONS THREE PLACE DECIMAL	DRAWN CHECKED ENG APPR MFG APPR		
INTERPRET GEOMETRIC TOLERANCES PER ASME Y14.5	G.A. COMMENTS:		
NEST ASBY	USED ON	FRIST	
APPLICATION	DO NOT SCALE DRAWING		

TITLE
S8 HORIZONTAL DRY MACHINE

SIZE DWG. NO.
E S8HD

SCALE: 1:15 WEIGHT: SHEET 1 OF 1