## TELEMARK 224 Multi Pocket E-Beam Source Drawings

The current version of this drawing pdf can be found at

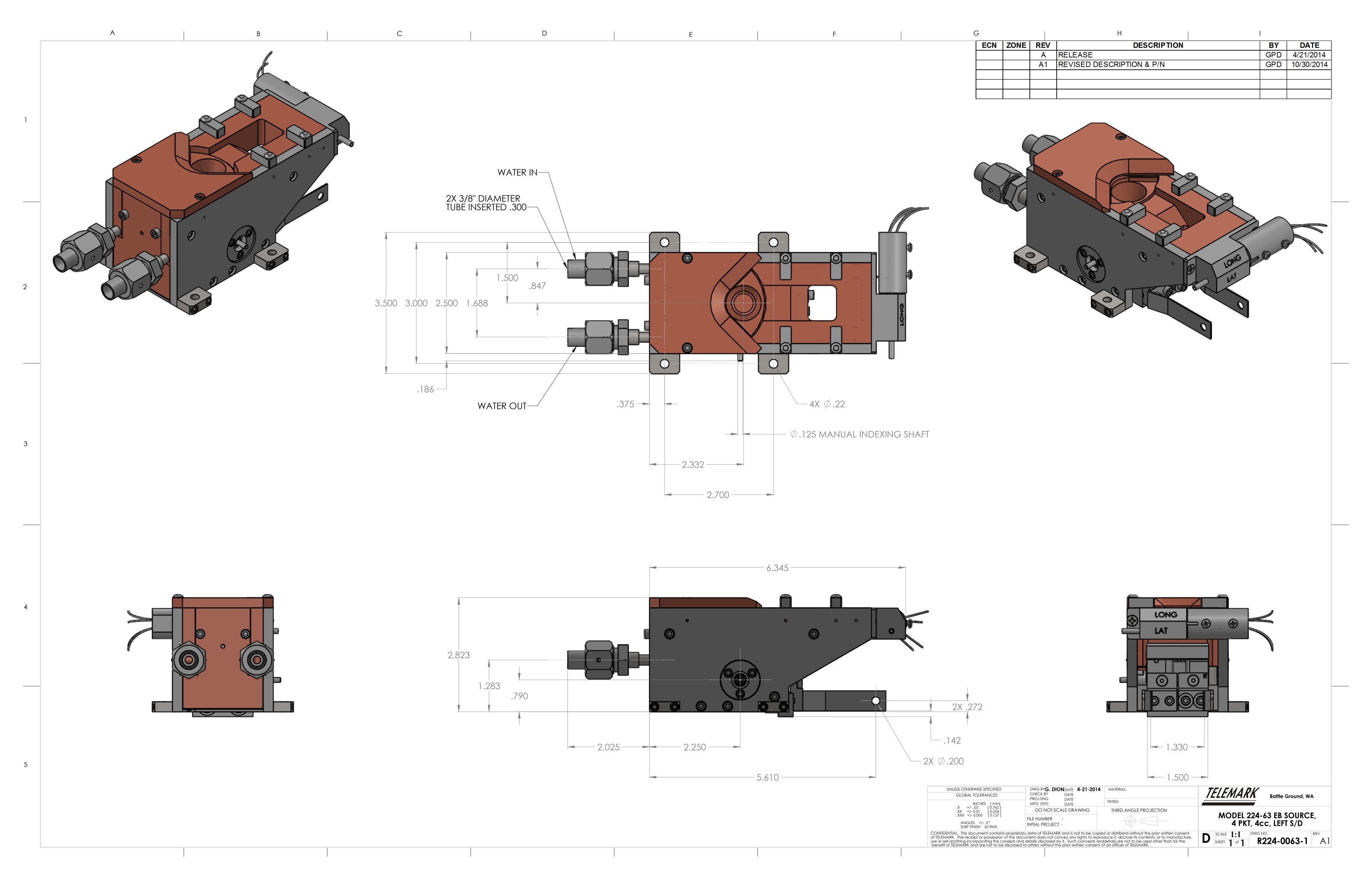
https://telemark.com/electron-beam-sources/r-and-d-multi-pocket-sources/

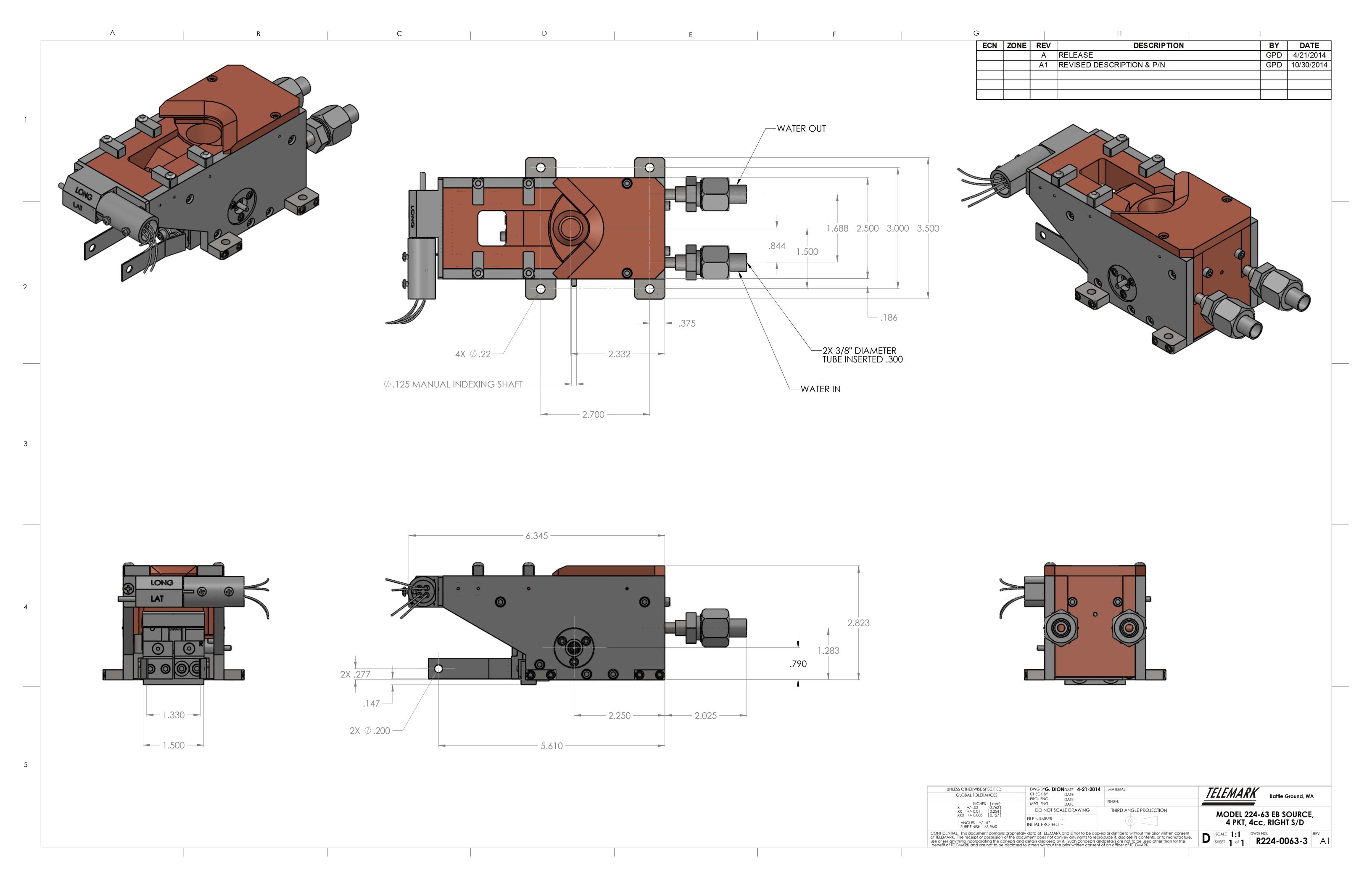
Drawing	Rev.	Description	Page
Reference Dimensions			2
R224-0063-1	A1	Model 224-63 EB Source, 4 pkt, 4cc, Left S/D	3
R224-0063-3	A1	Model 224-63 EB Source, 4 pkt, 4cc, Right S/D	4
R224-0063-5	A1	Model 224-63 EB Source, 4 pkt, 4cc, Left S/D, Side Mount on 6" CFF	5
R224-0064-1	A1	Model 224-64 EB Source, 4 pkt, 4cc, B/D	6
Model Assemblies			7
224-9963-1	A1	Model 224-63 EB Source, 4 pkt, 4cc, Left S/D	8
224-9963-3	A1	Model 224-63 EB Source, 4 pkt, 4cc, Right S/D	9
224-9963-5	A1	Model 224-63 EB Source, 4 pkt, 4cc, Left S/D, Side Mount on 6" CFF	10
224-9964-1	A1	Model 224-64 EB Source, 4 pkt, 4cc, B/D	12
Common Assemblies			13
221-0125-2	А	Assembly, Side Drive, 3/16" Shaft	14
221-0127-1	А	Assembly, Bottom Drive, 3/16" Shaft	16
223-0150-1	В	Emitter Assembly	18

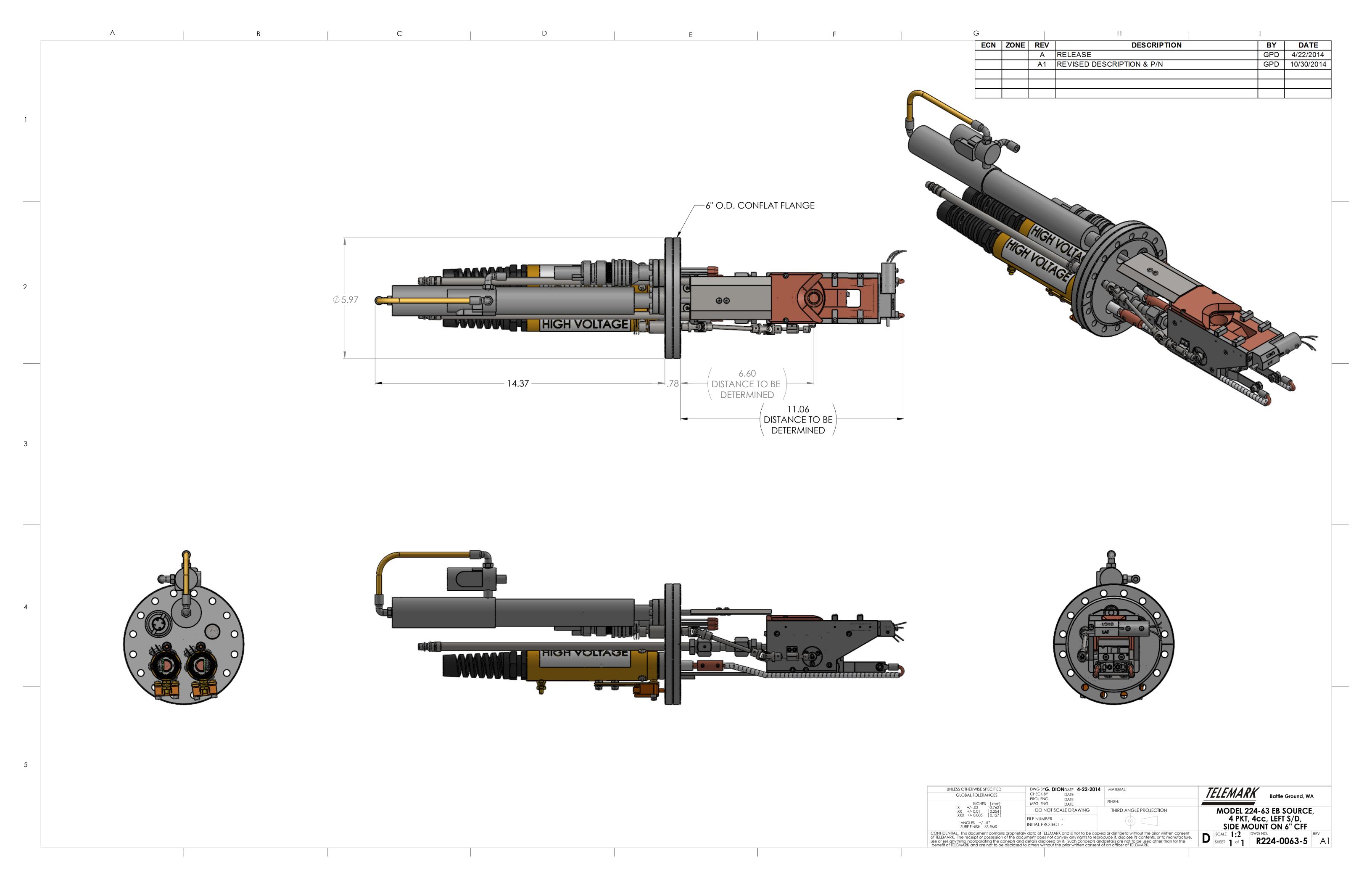


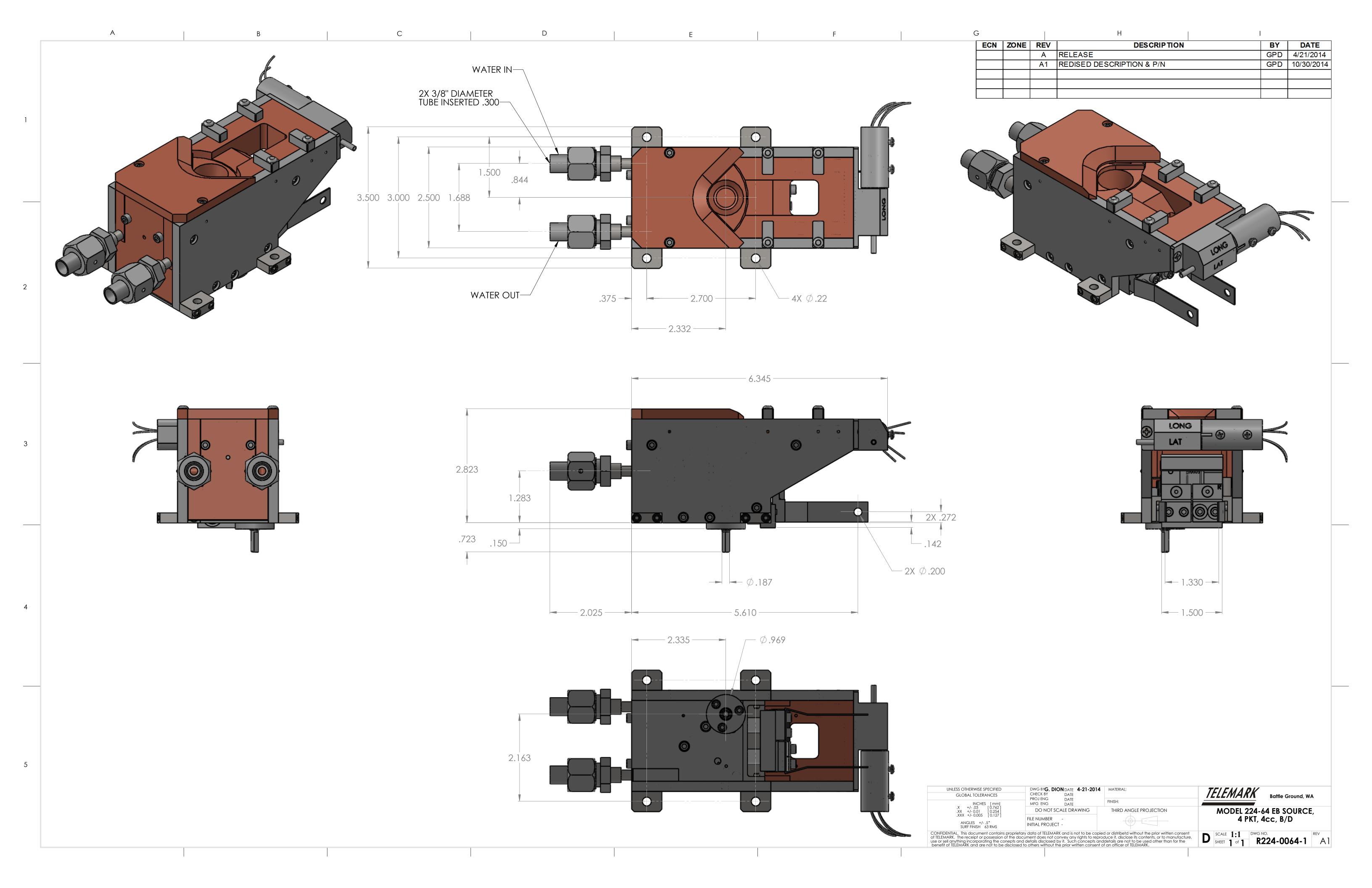
## Reference Dimensions

**E-Beam Source** 





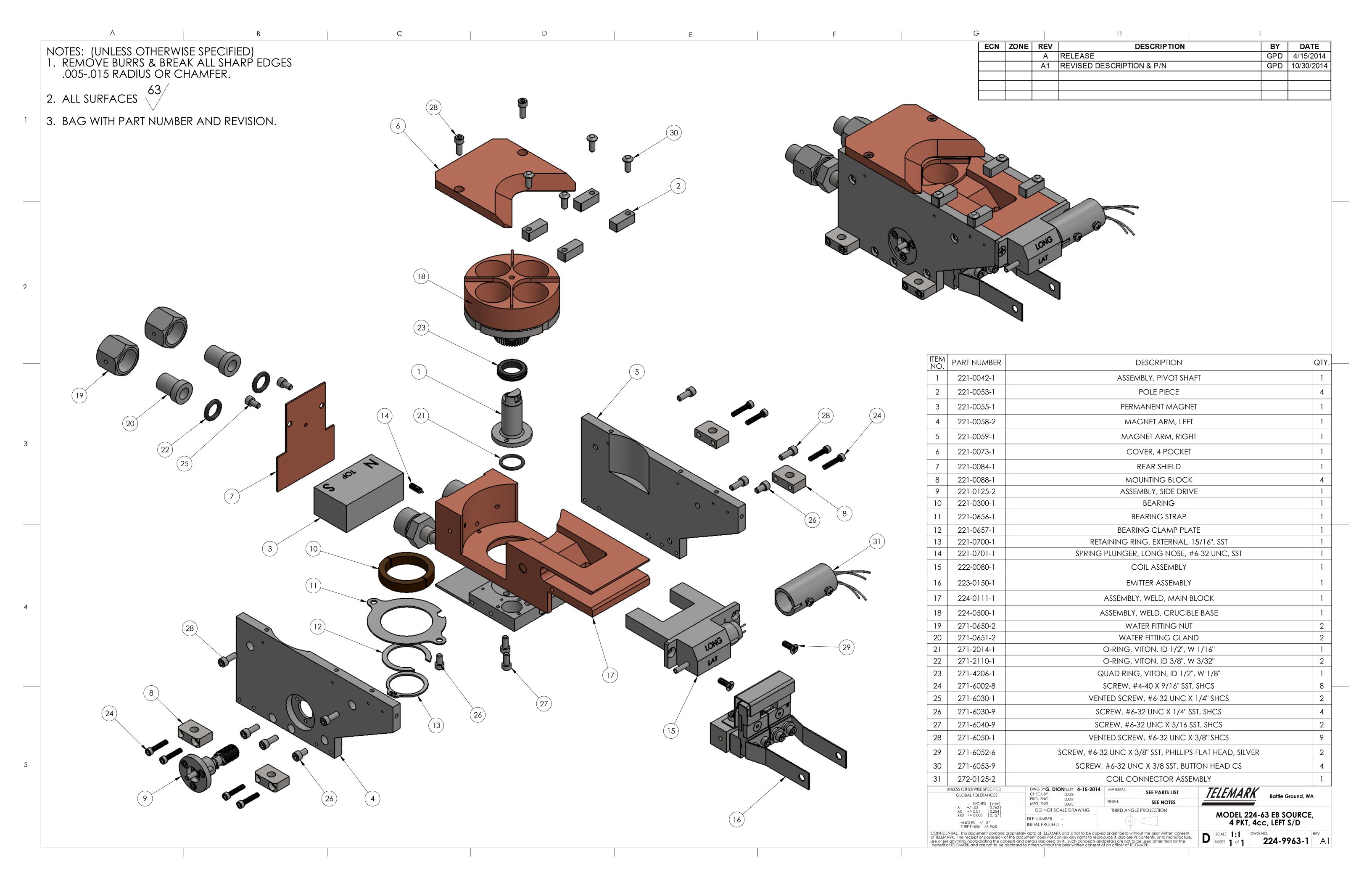


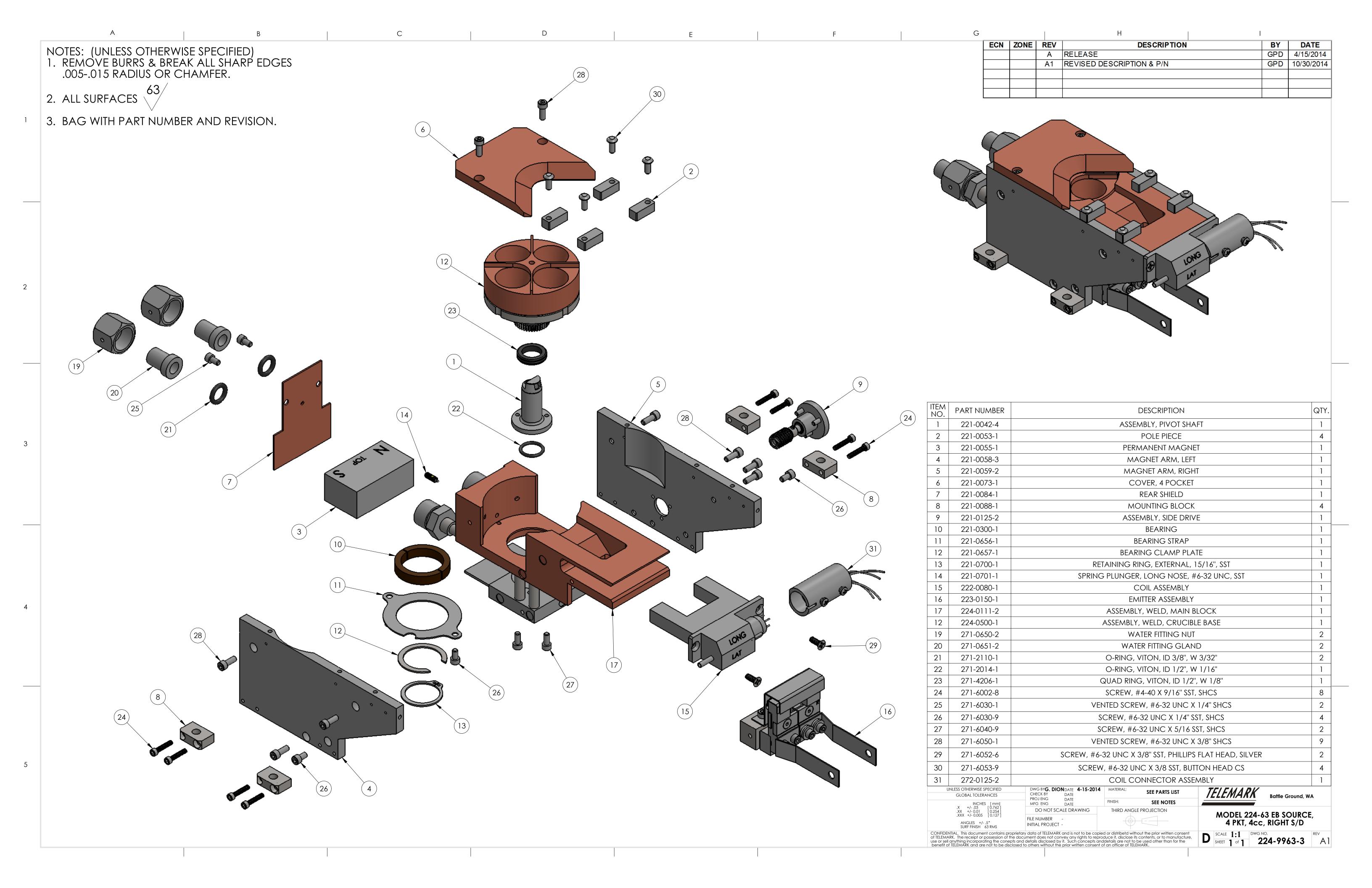


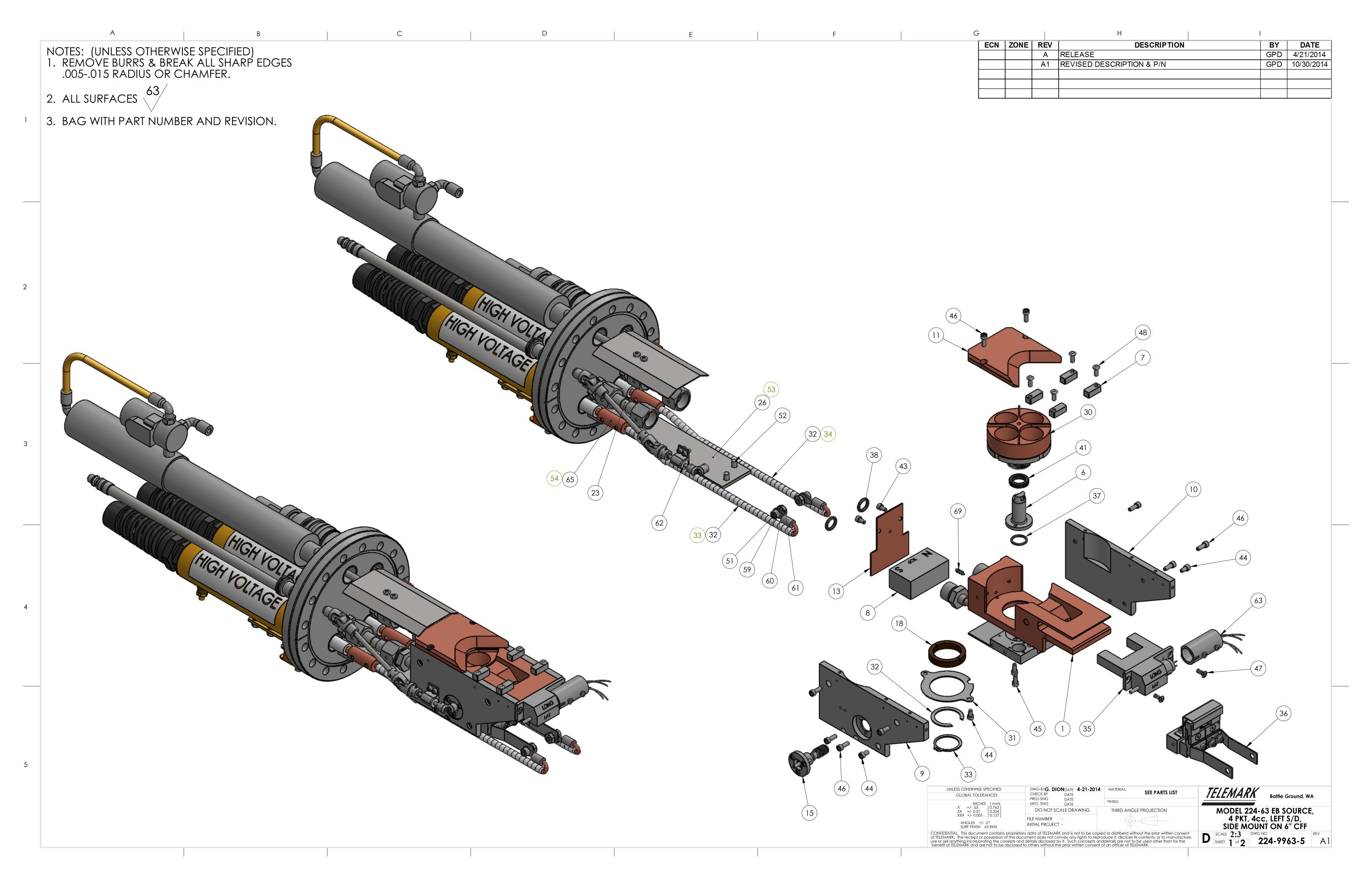


## Model Assemblies

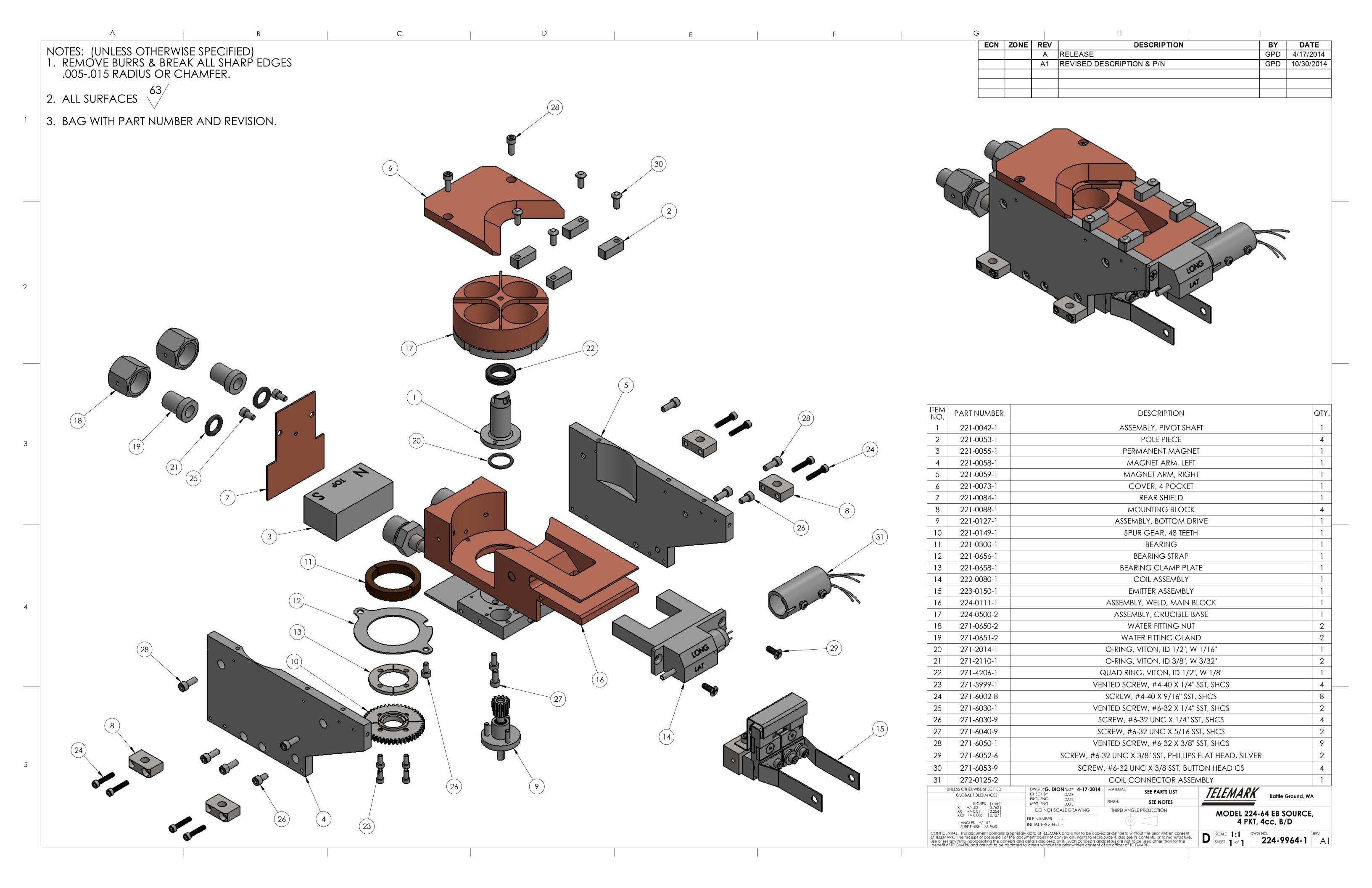
**E-Beam Sources** 







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:M DADT \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	BECODIFICAL	C		<u> </u>	G H
PART NUMBER		QTY.			
110-5203-2	SCREW, 1/4-20 UNC X 1/2, BRASS, PHILLIPS PAN HD	2			
2 110-7404-1	WASHER, 1/4, BRASS, LOCK, SPLIT	2			
110-7406-1	WASHER, 1/4, BRASS, FLAT	2			
221-0002-1	FEEDTHRU, ROTARY, INSTRUMENT, FERRO TYPE, 3/16" SHAFT	1			
221-0019-1	FEEDTHRU, HIGH VOLTAGE, 12kV AT 180 AMPS, 1.33 CFF	2			
221-0042-1	ASSEMBLY, PIVOT SHAFT	1			
221-0053-1	POLE PIECE	4			
221-0055-1	PERMANENT MAGNET	1			
221-0058-4	MAGNET ARM, LEFT	1			
221-0059-3	MAGNET ARM, RIGHT	1			
221-0073-2	COVER, 4 POCKET	1			
221-0084-1	REAR SHIELD	1			
221-0125-2	ASSEMBLY, SIDE DRIVE	1			
221-0211-1	ASSEMBLY, HIGH VOLTAGE COVER, 1.33 CFF	2			
221-0300-1	BEARING	1			
221-0300-1	BEARING, SIDE DRIVE	1			
	BEARING HOUSING, SIDE DRIVE	+ 1			
221-0302-1		1	(50)	(64) (22)	
221-0303-2	SHAFT, SIDE DRIVE INDEXING	1		(50)	
221-0304-1	MITER GEAR SET, 72 PITCH, 1:1 RATIO, 24 TEETH, SST	1	(40)		
221-0305-2	ASSEMBLY, WELD, WATER ADAPTER	2	24	40)	
221-0307-1	SHAFT, MANUAL INDEXING	1	20)	(66)	
221-0310-1	ASSEMBLY, WELD, MODEL 221 SIDE MOUNT, 6" CFF	1		(65)	
221-0312-2	SUPPORT PLATE	1			
221-0313-1	KNOB, 3/16" BORE, SST	1			
221-0314-1	COUPLING, UNIVERSAL JOINT, 3/16" SHAFT, SST	2			
221-0388-2	SHUTTER ASSEMBLY	1		Contraction of the second of t	
221-0656-1	BEARING STRAP	1			
221-0657-1	BEARING CLAMP PLATE	1			
221-0700-1	RETAINING RING, EXTERNAL, 15/16", SST	1			
221-0701-1	SPRING PLUNGER, LONG NOSE, #6-32 UNC, SST	1			(19)
221-2801-1	INSULATOR BEAD	82			$\frac{42}{17}$
221-2001-1	ASSEMBLY, HIGH VOLTAGE LEAD	1			
		+ 1			
221-3039-4	ASSEMBLY, HIGH VOLTAGE LEAD	1			(25)
222-0080-1	COIL ASSEMBLY	1		Calc	
223-0150-1	EMITTER ASSEMBLY	<u>                                     </u>			(21)
224-0111-1	ASSEMBLY, WELD, MAIN BLOCK	1		HIGHYOLINGE	
224-0500-1	ASSEMBLY, WELD, CRUCIBLE BASE	1		A LOS	
271-2014-1	O-RING, VITON, ID 1/2", W 1/16"	<u>                                     </u>		CICH TOLING	
271-2110-1	O-RING, VITON, ID 3/8", W 3/32"	4		INIA 171A	
271-3581-1	GASKET, CFF 1.33"	4		HIGH	
271-4206-1	QUAD RING, VITON, ID 1/2", W 1/8"	1		MIN.	
271-5999-1	VENTED SCREW, #4-40 UNC X 1/4" SST SHCS	2			
271-6030-1	VENTED SCREW, #6-32 UNC X 1/4" SHCS	2			$\sqrt{4}$
271-6030-9	SCREW, #6-32 UNC X 1/4" SST, SHCS	4			24)
271-6040-9	SCREW, #6-32 UNC X 5/16 SST, SHCS	2			47
271-6050-1	VENTED SCREW, #6-32 UNC X 3/8" SHCS	9			
271-6052-6	SCREW, #6-32 UNC X 3/8" SST, PHILLIPS FLAT HEAD, SILVER	2			
271-6053-9	SCREW, #6-32 UNC X 3/8 SST, BUTTON HEAD CS	4			
271-6132-9	SCREW, #8-32 UNC X 9/16" SHCS.	24		14 40 50	
271-6145-9	SCREW, #10-32 UNF X 3/8" SST SHCS	+ - ·		14	
271-6146-4	SCREW, #10-32 UNF X 3/8" PHIL PAN HEAD, SST	+ 2			
		1 2			
271-6152-9	SCREW, #10-32 UNF X 5/16" LONG, FLAT HD SOC, SST	<u></u>			
271-6200-2	SET SCREW, #8-32 UNC X 1/4 SST.	6			
271-6245-1	FLAT WASHER, #10 SST.	2			
271-6245-2	LOCK WASHER, #10 SST.	2			
271-6255-1	NUT, #10-32 UNF, SST	2			
271-6280-3	C-CLIP, 1/8", SST	1			
	COIL CONNECTOR ASSEMBLY	1			
2/2-0125-2	PIN CONNECTION	4			
	4 PIN INSTRUMENT FEEDTHRU, CFF	1			
272-0125-2 275-0014-2 275-0014-3	TINANINOMENTI LEDITINO, CIT	1			
275-0014-2 275-0014-3					
275-0014-2 275-0014-3 275-0014-5	4 PIN CIRCULAR CONNECTOR	1 2			
275-0014-2 275-0014-3 275-0014-5 275-0119-1	4 PIN CIRCULAR CONNECTOR HV LUG (8 AWG)	2			
275-0014-2 275-0014-3 275-0014-5	4 PIN CIRCULAR CONNECTOR	2 2			UNLESS OTHERWISE SPECIFIED  GLOBAL TOLERANCES  DWG BY <b>G. DION</b> DATE 4-21-2014 CHECK BY DATE  MATERIAL: SEE PARTS LIST
275-0014-2 275-0014-3 275-0014-5 275-0119-1	4 PIN CIRCULAR CONNECTOR HV LUG (8 AWG)	2			GLOBAL TOLERANCES  CHECK BY DATE PROJ ENG DATE  INCHES [mm] MFG ENG DATE  FINISH:
275-0014-2 275-0014-3 275-0014-5 275-0119-1	4 PIN CIRCULAR CONNECTOR HV LUG (8 AWG)	2			GLOBAL TOLERANCES  INCHES [mm]  .X +/03 [0.762]  .XX +/- 0.01 [0.254]  DO NOT SCALE DRAWING  CHECK BY DATE PROJECTION  FINISH:  DO NOT SCALE DRAWING  THIRD ANGLE PROJECTION  MODEL:
5-0014-2 5-0014-3 5-0014-5 5-0119-1	4 PIN CIRCULAR CONNECTOR HV LUG (8 AWG)	2			GLOBAL TOLERANCES  INCHES [mm]  .X +/03 [0.762]  .XX +/- 0.01 [0.254]  .XXX +/- 0.005 [0.127]  ANGLES +/5° SURF FINISH 63 RMS  CHECK BY DATE PROJECT SEE FARTS LIST  PROJ ENG DATE  FINISH:  THIRD ANGLE PROJECTION  MODEL  FILE NUMBER - INITIAL PROJECT -  SIDE A
014-2 014-3 014-5 119-1	4 PIN CIRCULAR CONNECTOR HV LUG (8 AWG)	2			CHECK BY DATE   PROJENG DATE   FINISH:





## Common Assemblies

**E-Beam Source** 

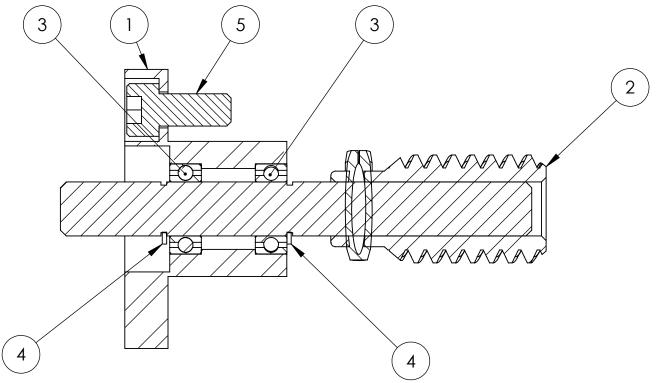
NOTES: (UNLESS OTHERWISE SPECIFIED)

1. REMOVE BURRS & BREAK ALL SHARP EDGES
.005-.015 RADIUS OR CHAMFER.

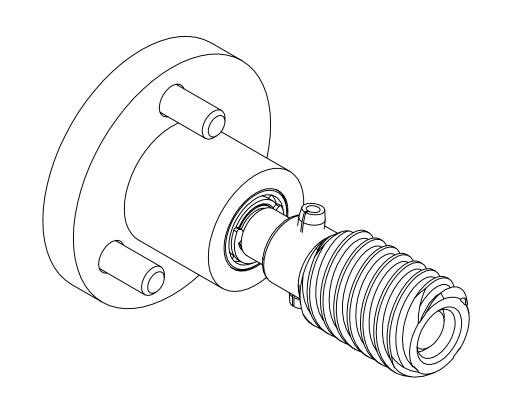
2. ALL SURFACES 63/

3. BAG WITH PART NUMBER AND REVISION.

EC	N	ZONE	REV	DESCRIPTION	BY	DATE
			Α	RELEASE	GPD	10/21/2013



SECTION A-A SCALE 3:1



ITEM NO.	PART NUMBER	DESCRIPTION	
1	221-0010-2	housing, side drive	1
2	221-0011-7	Shaft assembly, side drive	1
3	221-0152-1	BEARING, 3/16" I.D. X 5/16" O.D. X .109 THICK, SST	2
4	271-6280-2	C-CLIP, 3/16", SST	2
5	271-5999-1	VENTED SCREW, #4-40 UNC X 1/4" SST SHCS	3
	TIVILECC OTHERWISE CRECIEIER	DWC DVC DIONOUTE 10.01.2012 MATERIAL CEE DADTO HOT	

UNLESS OTHERWISE SPECIFIED  GLOBAL TOLERANCES	DWG BY <b>G. DION</b> DATE 10-21-2013  CHECK BY DATE	MATERIAL: SEE PARTS LIST		
INCHES [mm]	PROJENG DATE MFG ENG DATE	FINISH:	SEE NOTES	_
.X +/03 [0.762] .XX +/-0.01 [0.254]	DO NOT SCALE DRAWING	THIRD ANGLE PROJECTION		
.XXX +/- 0.005 [ 0.127 ]  ANGLES +/5°  SURF FINISH 63 RMS	FILE NUMBER - 221-0125-2 INITIAL PROJECT -			
CONFIDENTIAL This decument contains proprietor	u data of TELENARY and is not to be conice	d or distribated with a	aut the prior written consent	

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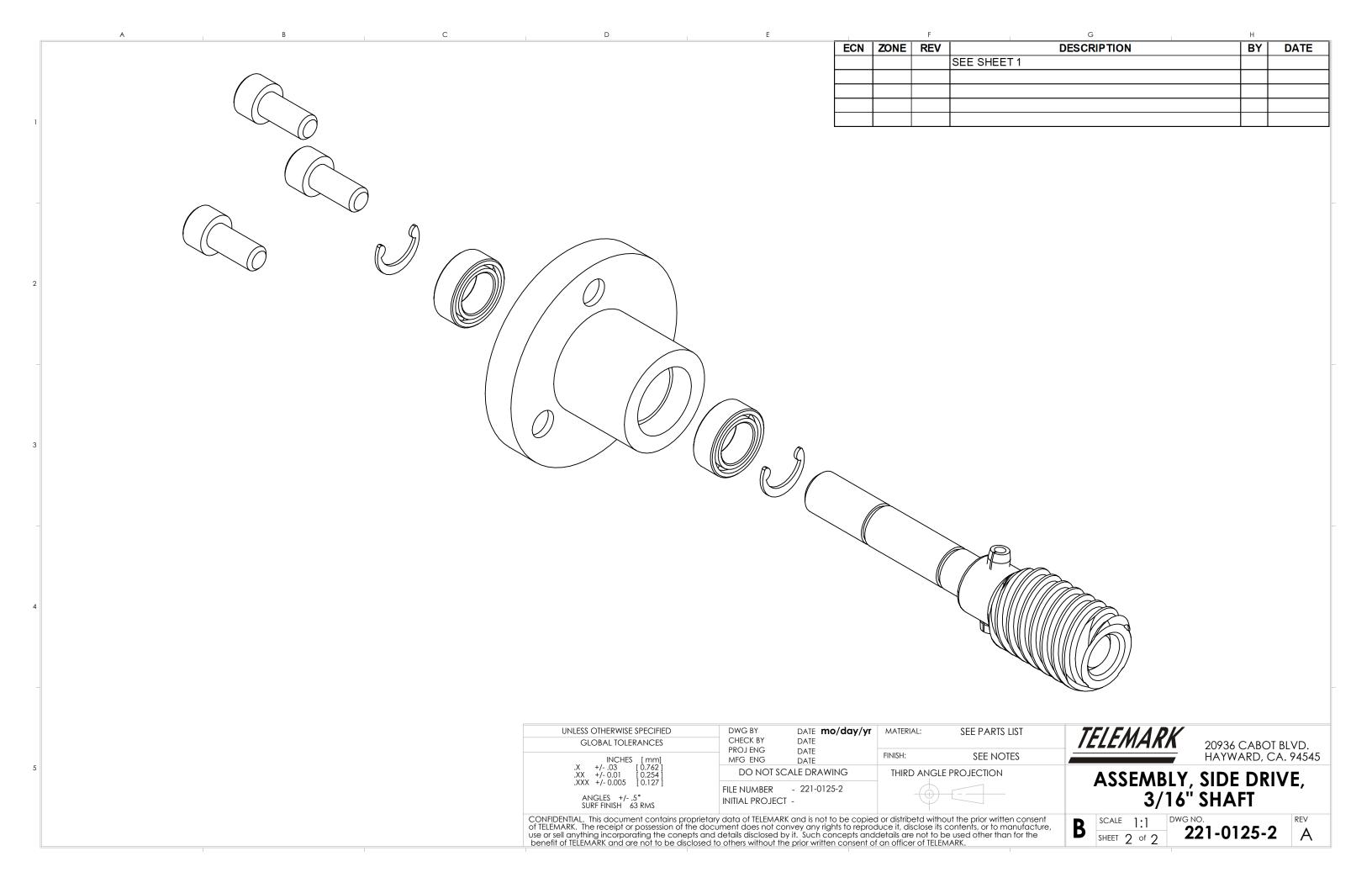
Battle Ground, WA

ASSEMBLY, SIDE DRIVE, 3/16" SHAFT

B SCALE 3:1
SHEET 1 of 2

**221-0125-2** 

REV A



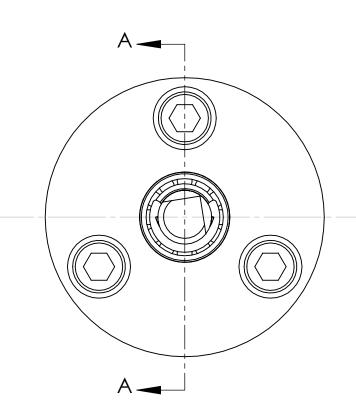
NOTES: (UNLESS OTHERWISE SPECIFIED)

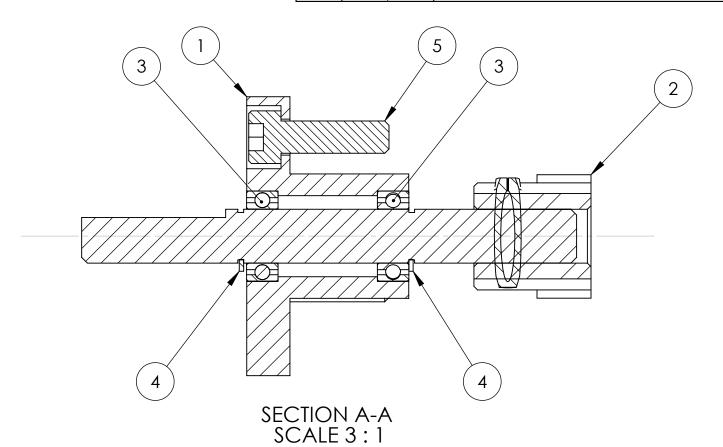
1. REMOVE BURRS & BREAK ALL SHARP EDGES
.005-.015 RADIUS OR CHAMFER.

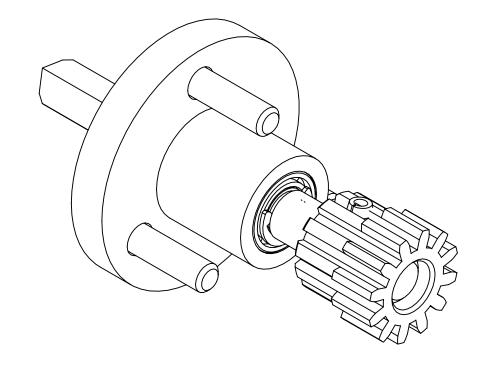
2. ALL SURFACES  $\binom{63}{}$ 

3. BAG WITH PART NUMBER AND REVISION.

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		Α	RELEASE	GPD	8/12/2013







ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	221-0010-1	HOUSING, BOTTOM DRIVE	1
2	221-0011-5	Shaft assembly, bottom drive	1
3	221-0152-1	BEARING, 3/16" I.D. X 5/16" O.D. X .109 THICK, SST	2
4	271-6280-2	C-CLIP, 3/16", SST	2
5	271-6000-9	SCREW, #4-40 X 3/8" SST SHCS	3
	UNLESS OTHERWISE SPECIFIE	D DWG BY G. DION DATE 8-12-2013 MATERIAL: OFF DATE UPT TO THE TAIL A DIV	

GLOBAL TOLERANCES	CHECK BY DATE	WATERIAL.	SEE PARTS LIST	
INCHES [mm]	PROJENG DATE  MFG ENG DATE	FINISH:	SEE NOTES	
.X +/03 [0.762] .XX +/-0.01 [0.254]	DO NOT SCALE DRAWING	THIRD ANGLE PROJECTION		
.XXX +/- 0.005 [ 0.127 ]  ANGLES +/5°  SURF FINISH 63 RMS	FILE NUMBER - 221-0127-1 INITIAL PROJECT -			

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Battle Ground, WA

ASSEMBLY, BOTTOM DRIVE, 3/16" SHAFT

SHEET 1 of 2

221-0127-1

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