

TELEMARK 287 Multi Pocket E-Beam Source Drawings

The current version of this drawing pdf can be found at

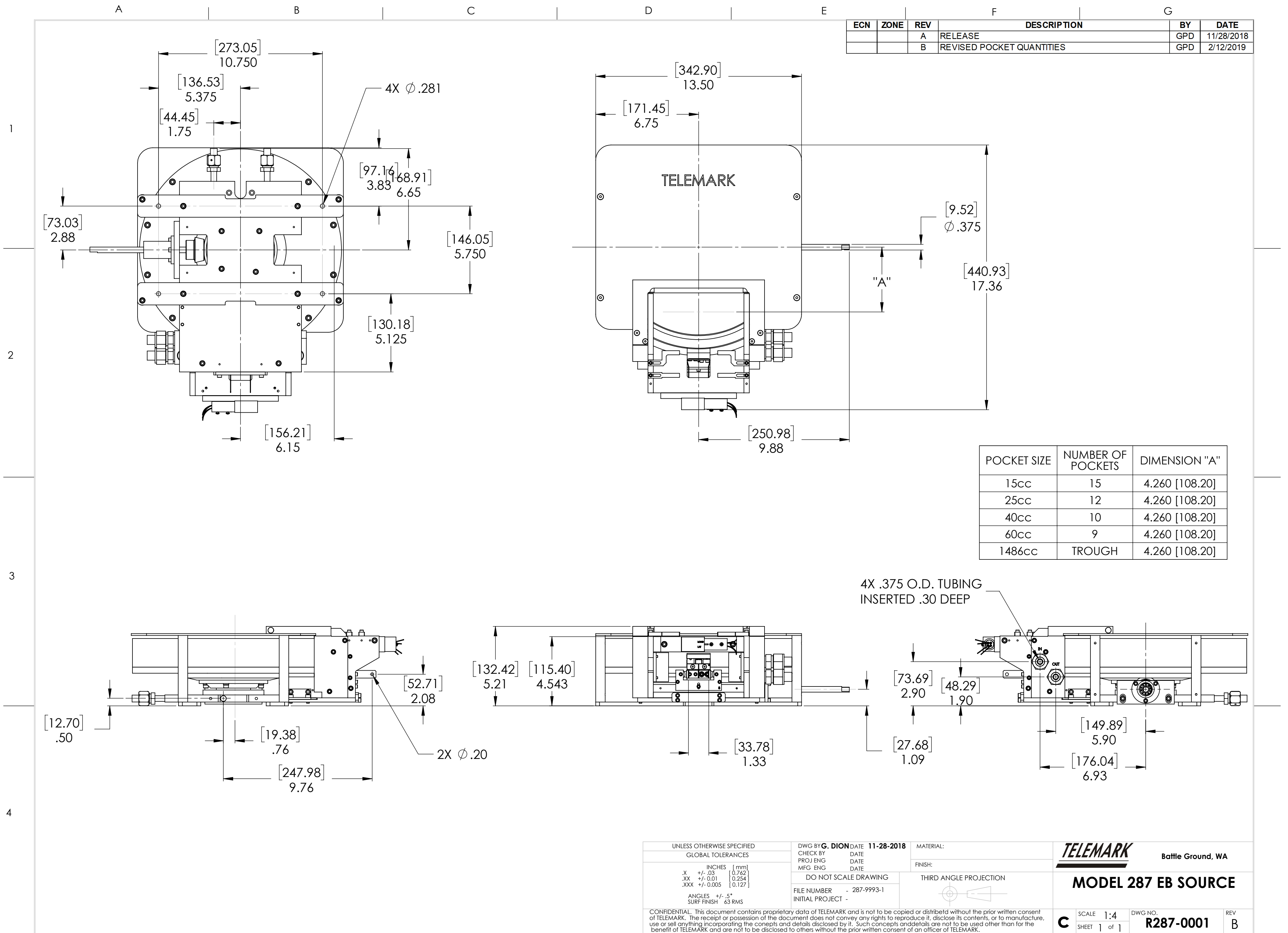
<https://telemark.com/electron-beam-sources/high-capacity-multi-pocket-sources/>

Drawing	Rev.	Description	Page
Reference Dimensions			2
R287-0001	B	Model 287 E-Beam Source Dimensions	3
Model Assemblies			4
287-9921-1	A	Model 287-21 EB Source, 15 pkt, 15cc, S/D	5
287-9973-1	A	Model 287-73 EB Source, 12 pkt, 25cc, S/D	6
287-9979-5	B	Model 287-79 EB Source, 8 pkt, 75cc, R/D	7
287-9987-1	A	Model 287-87 EB Source, 12 pkt, 40cc S/D	8
287-9993-1	B	Model 287-93 EB Source, 1810cc S/D	9
Common Assemblies			10
273-0150-8	A1	Emitter Assembly	11
287-0113-1	A	Rotation Assembly, Side Drive	12
287-0115-1	A	Rotation Assembly, Bottom Drive	13
287-0125-1	A	Side Drive Assembly	14
287-0127-1	A	Bottom Drive Assembly	15
287-0130-3	D	Front Coil/Emitter Assembly	16
287-0130-4	C	Front Coil/Emitter Assembly, Mirror	17
287-0133-3	B	EB Source Sub Assembly, Side Drive, 10kW	18
287-0133-4	B	EB Source Sub Assembly, Rear Drive, 10kW	19
287-0135-5	B	EB Source Sub-Assembly, B/D, 10kW	20
Option - Arc Suppression			21
287-0130-6	D	Front Coil/Emitter Assembly, AS	22
287-0130-7	C	Front Coil/Emitter Assembly, AS, Mirror	23
287-0133-6	B	EB Source Sub Assembly, S/D, 10kW, AS	24
287-0133-7	B	EB Source Sub Assembly, R/D, 10kW, AS	25
287-0135-6	B	EB Source Sub-Assembly, B/D, 10kW, AS	26
287-5175-1	A	287 Arc Supression	27
291-3151-4	A1	Arc Supression Emitter	28




Reference Dimensions

E-Beam Source



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	11/28/2018
		B	REVISED POCKET QUANTITIES	GPD	2/12/2019

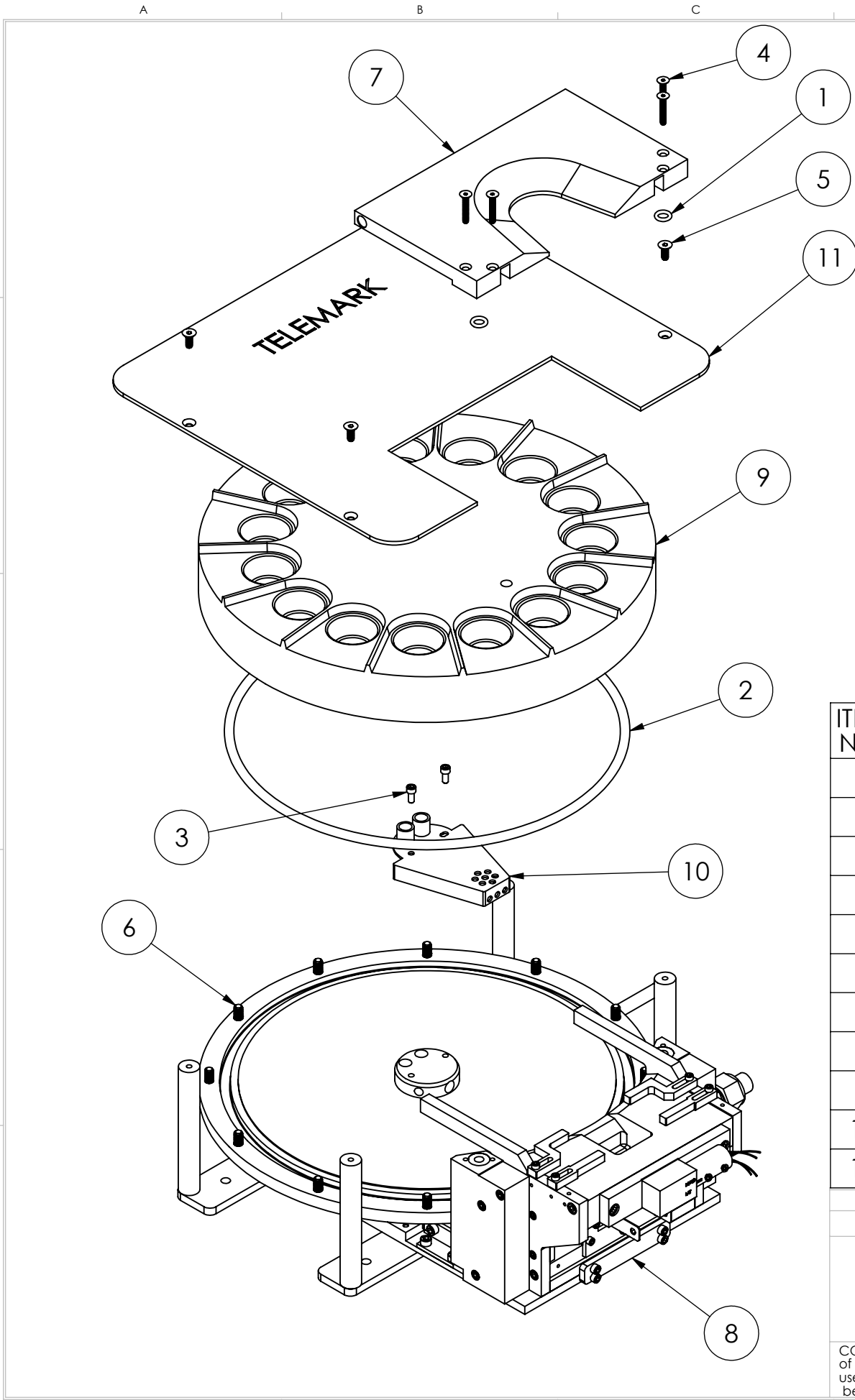
POCKET SIZE	NUMBER OF POCKETS	DIMENSION "A"
15cc	15	4.260 [108.20]
25cc	12	4.260 [108.20]
40cc	10	4.260 [108.20]
60cc	9	4.260 [108.20]
1486cc	TROUGH	4.260 [108.20]

UNLESS OTHERWISE SPECIFIED		DWG BY G. DION DATE 11-28-2018		MATERIAL:		<div>TELEMARK</div> <div>Battle Ground, WA</div>	
GLOBAL TOLERANCES		CHECK BY DATE		FINISH:		<div>MODEL 287 EB SOURCE</div>	
INCHES [mm]		PROJ ENG DATE		THIRD ANGLE PROJECTION			
.X +/- .03 [0.762]		MFG ENG DATE					
.XX +/- 0.01 [0.254]		DO NOT SCALE DRAWING					
.XXX +/- .005 [0.127]		FILE NUMBER - 287-9993-1					
ANGLES +/- .5°		INITIAL PROJECT -					
SURF FINISH .63 RMS							
<div>CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.</div>							
<div>C</div>		SCALE 1:4		DWG NO. R287-0001		REV B	
SHEET 1 of 1							

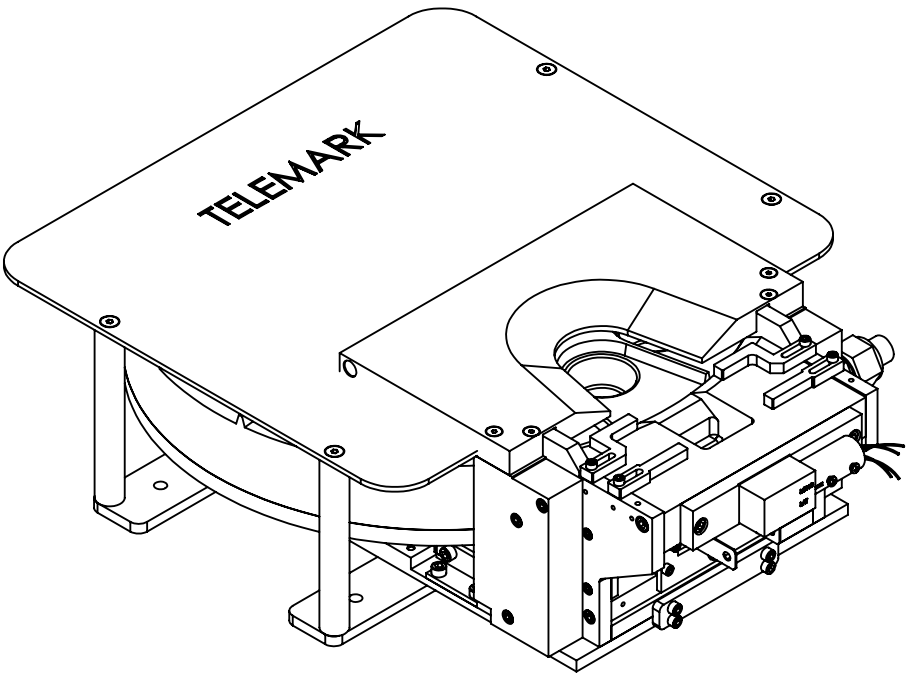


Model Assemblies

E-Beam Sources



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	2/20/2019



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-2109-1	O-RING, VITON, ID 5/16", W 3/32"	2
2	271-2452-1	O-RING, VITON, ID 11-1/2", W 1/4"	1
3	271-6125-9	SCREW, #8-32 X 3/8" SST SHCS	2
4	271-6139-1	VENTED SCREW, #8-32 X 1" SST FHS	4
5	271-6154-9	SCREW, #10-32 X 1/2 SST FHS	4
6	271-6184-1	1/4-20 UNC, SHCS, HEX, 9/16", Vented, SST	12
7	287-0077-1	COVER, 15 POCKETS	1
8	287-0133-3	EB SOURCE SUB ASSEMBLY, S/D, 10KW	1
9	287-0234-1	CRUCIBLE, 15x 15cc	1
10	287-0452-1	WATER DUCT	1
11	295-0070-2	COVER, REAR, 6x100cc	1

UNLESS OTHERWISE SPECIFIED
GLOBAL TOLERANCES

	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]

ANGLES +/- .5°
SURF FINISH 63 RMS

DWG BY G. DION
CHECK BY
PROJ ENG
MFG ENG

DATE 2-20-2019
DATE
DATE

DO NOT SCALE DRAWING

FILE NUMBER - 287-9921-1
INITIAL PROJECT -

MATERIAL:

FINISH:

THIRD ANGLE PROJECTION

TELEMARK
telemark.com

**MODEL 287-21 EB SOURCE,
15x 15cc, S/D (10Kw)**

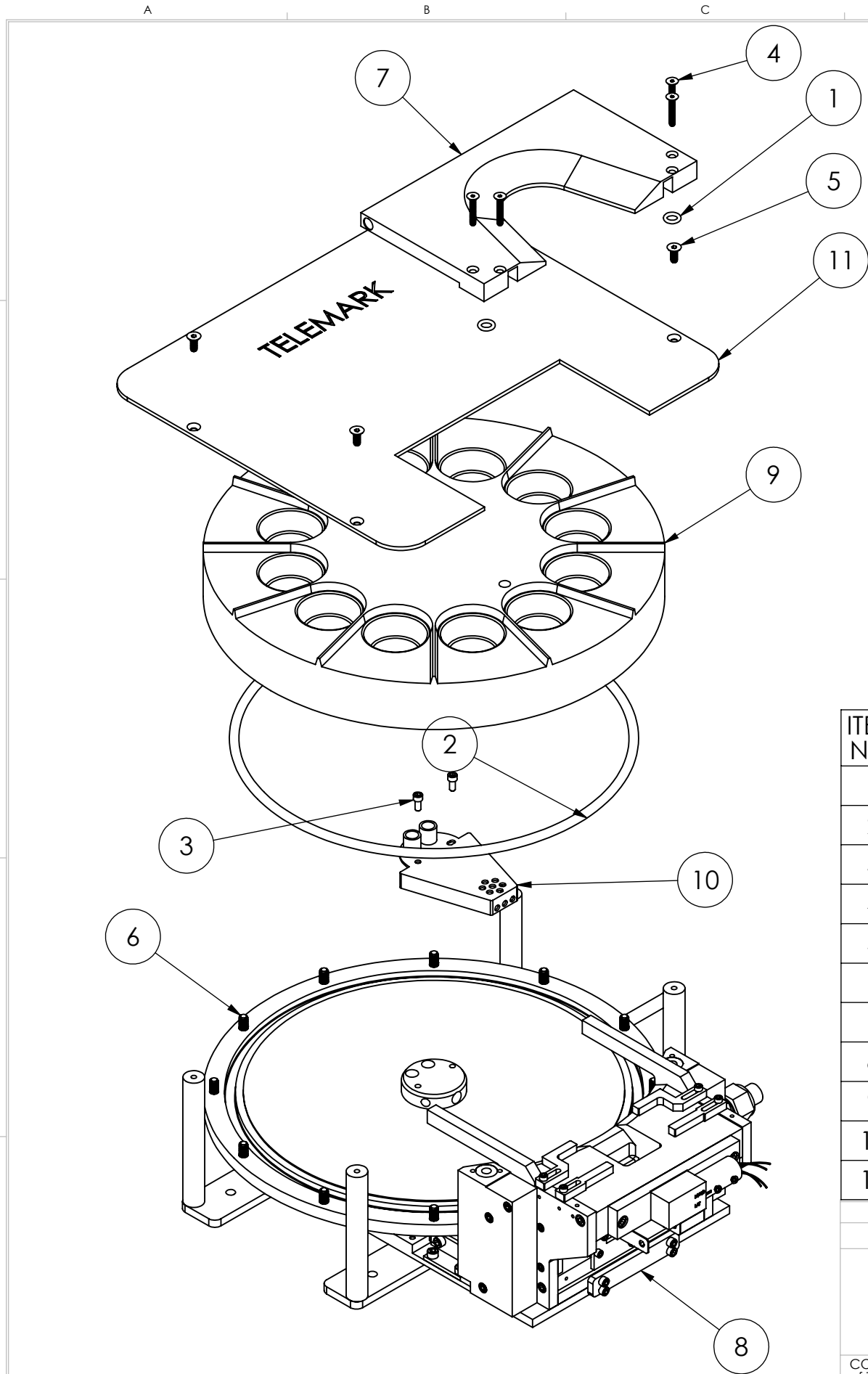
B

SCALE 1:4
SHEET 1 of 1

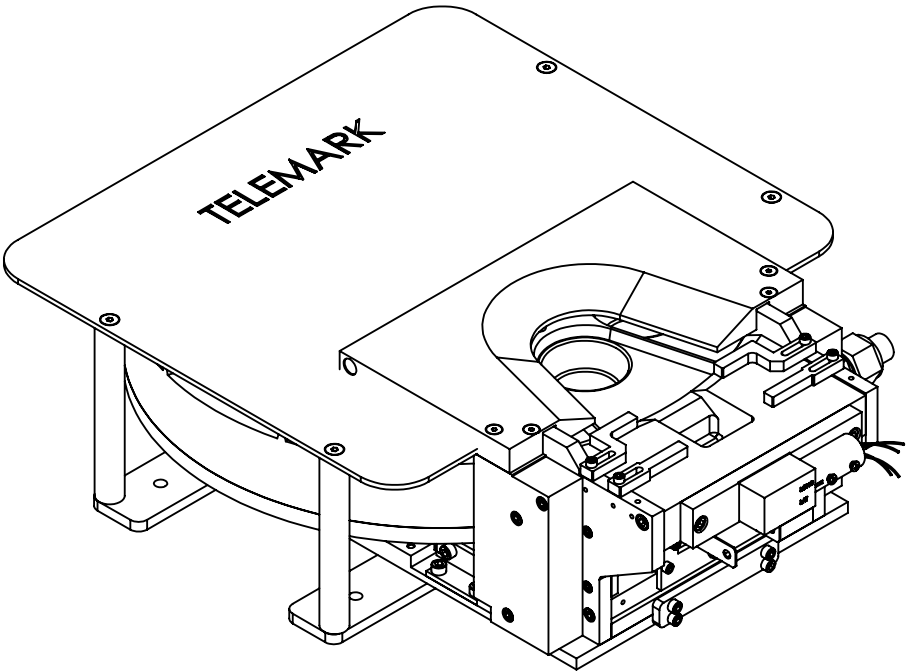
DWG NO.
287-9921-1

REV
A

CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.

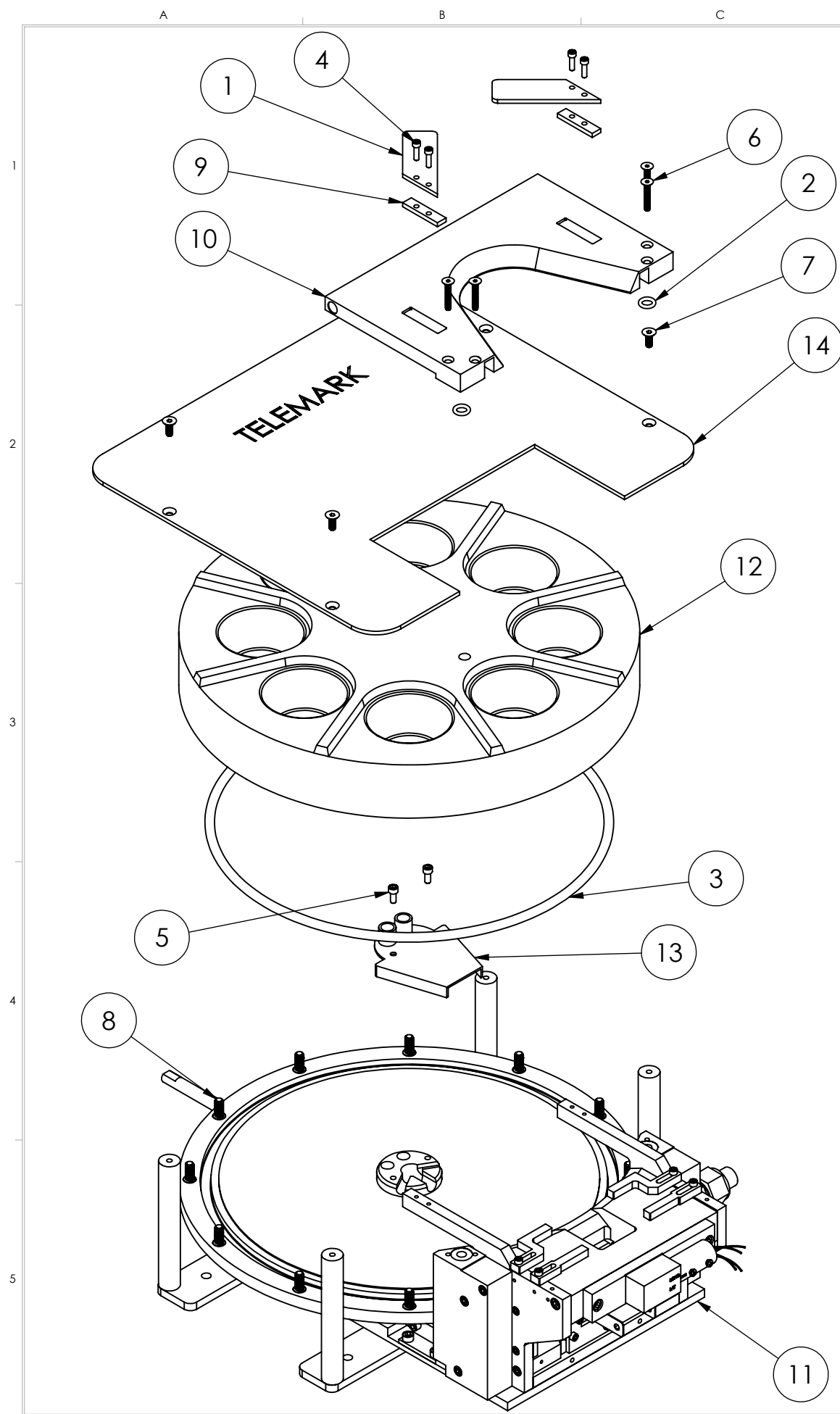


ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	1/11/2019

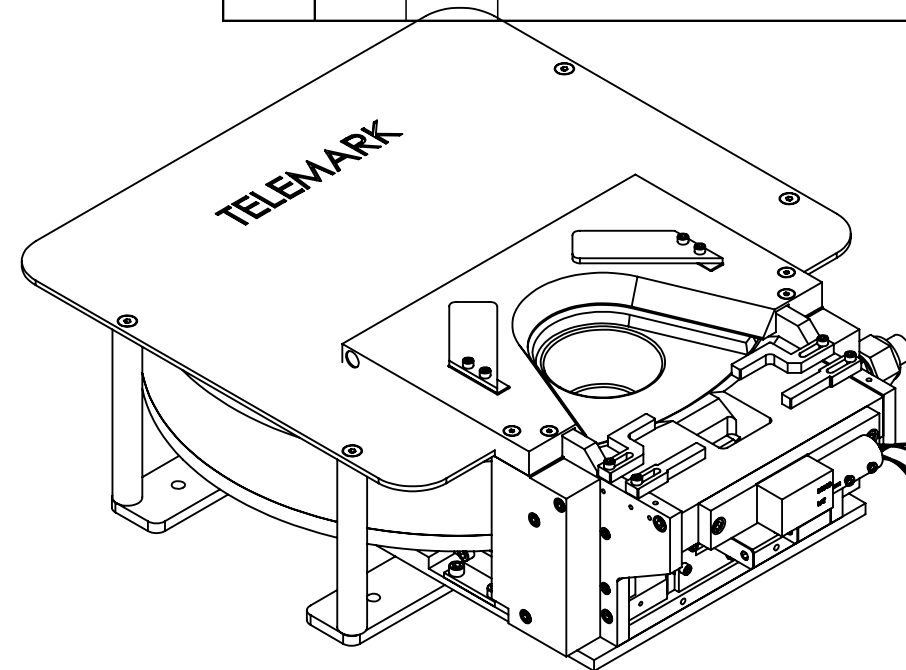


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-2109-1	O-RING, VITON, ID 5/16", W 3/32"	2
2	271-2452-1	O-RING, VITON, ID 1 1/2", W 1/4"	1
3	271-6125-9	SCREW, #8-32 X 3/8" SST SHCS	2
4	271-6139-1	VENTED SCREW, #8-32 X 1" SST FHS	4
5	271-6154-9	SCREW, #10-32 X 1/2 SST FHS	4
6	271-6184-1	1/4-20 UNC, SHCS, HEX, 9/16", Vented, SST	12
7	287-0078-1	COVER, 12 POCKETS	1
8	287-0133-3	EB SOURCE SUB ASSEMBLY, S/D, 10KW	1
9	287-0235-1	CRUCIBLE, 12x 25cc	1
10	287-0452-1	WATER DUCT	1
11	295-0070-2	COVER, REAR, 6x100cc	1

UNLESS OTHERWISE SPECIFIED		DWG BY G. DION		DATE 1-11-2019	MATERIAL:	<div>TELEMARK</div> <div>telemark.com</div>
GLOBAL TOLERANCES		CHECK BY		DATE		
<div>INCHES [mm]</div> <div>.X +/- .03 [0.762]</div> <div>.XX +/- 0.01 [0.254]</div> <div>.XXX +/- 0.005 [0.127]</div> <div>ANGLES +/- .5°</div> <div>SURF FINISH 63 RMS</div>		MFG ENG		DATE	FINISH:	
		DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION		
		FILE NUMBER - 287-9973-1				
		INITIAL PROJECT -				
<p>CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distribetd without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the conepts and details disclosed by it. Such conepts andndetails are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.</p>						<div>B</div>
		SCALE 1:4		DWG NO.	REV	
		SHEET 1 of 1		287-9973-1		A



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	8/27/2019
		B	REVISED POLE PIECES	GPD	12/5/2019



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	263-0053-2	POLE PIECE, TOP	2
2	271-2109-1	O-RING, VITON, ID 5/16", W 3/32"	2
3	271-2452-1	O-RING, VITON, ID 1 1/2", W 1/4"	1
4	271-6060-1	VENTED SCREW, #6-32 X 1/2" SST SHCS	4
5	271-6125-9	SCREW, #8-32 X 3/8" SST SHCS	2
6	271-6139-1	VENTED SCREW, #8-32 X 1" SST FHS	4
7	271-6154-9	SCREW, #10-32 X 1/2 SST FHS	4
8	271-6184-1	1/4-20 UNC, SHCS, HEX, 9/16", Vented, SST	12
9	287-0053-6	POLE PIECE, TOP	2
10	287-0076-1	COVER, 8 POCKETS	1
11	287-0133-4	EB SOURCE SUB ASSEMBLY, R/D, 10KW	1
12	287-0207-1	CRUCIBLE, 8x 75cc (10Kw)	1
13	287-0452-3	WATER DUCT	1
14	295-0070-2	COVER, REAR, 6x100cc	1

UNLESS OTHERWISE SPECIFIED
GLOBAL TOLERANCES

INCHES [mm]
.X +/- .03 [0.762]
.XX +/- 0.01 [0.254]
.XXX +/- 0.005 [0.127]

ANGLES +/- .5°
SURF FINISH 63 RMS

DWG BY G. DION DATE 8-27-2019
CHECK BY DATE
PROJ ENG DATE
MFG ENG DATE

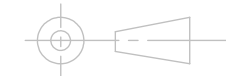
DO NOT SCALE DRAWING

FILE NUMBER - 287-9979-5
INITIAL PROJECT -

MATERIAL:

FINISH:

THIRD ANGLE PROJECTION

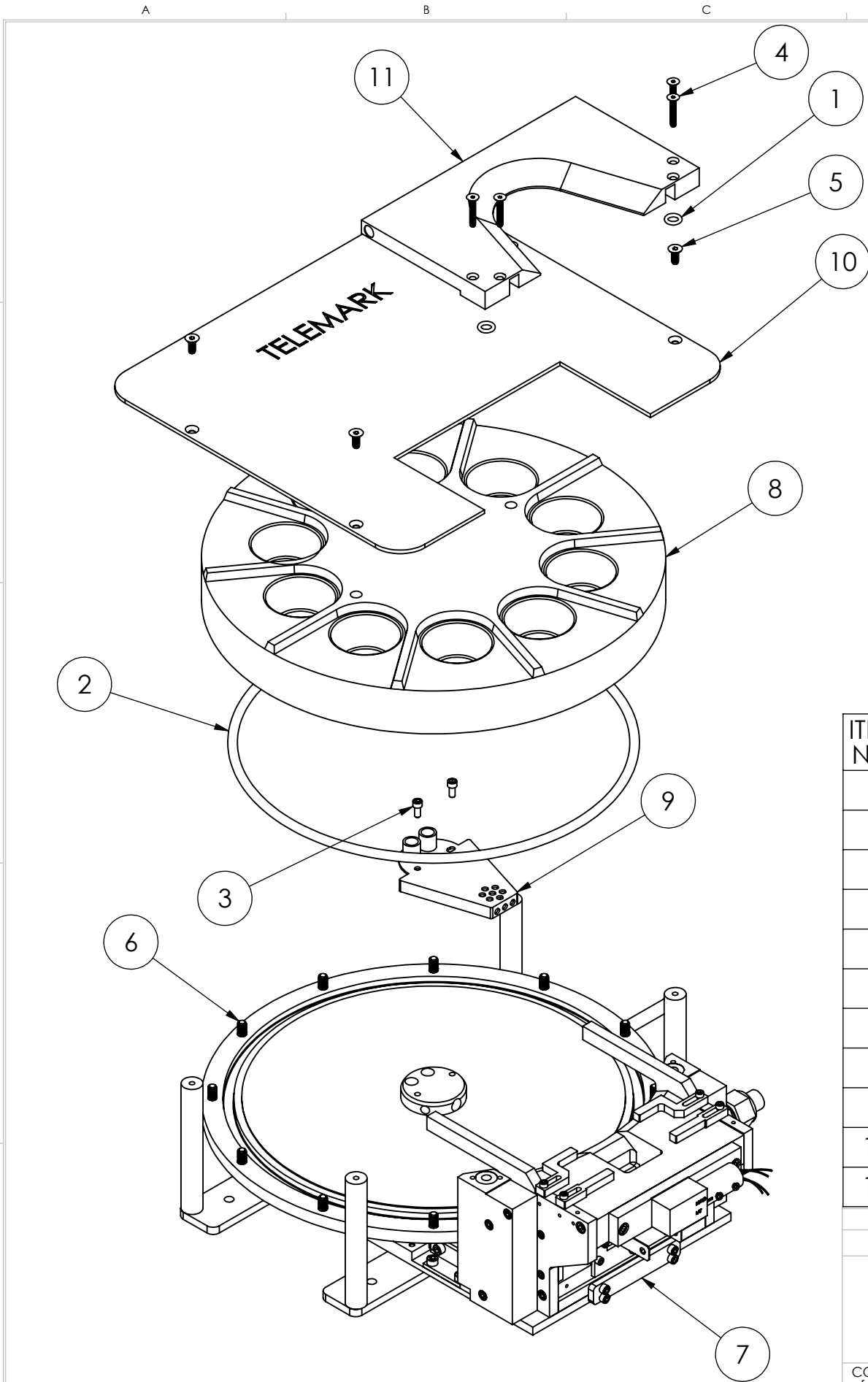


TELEMARK telemark.com

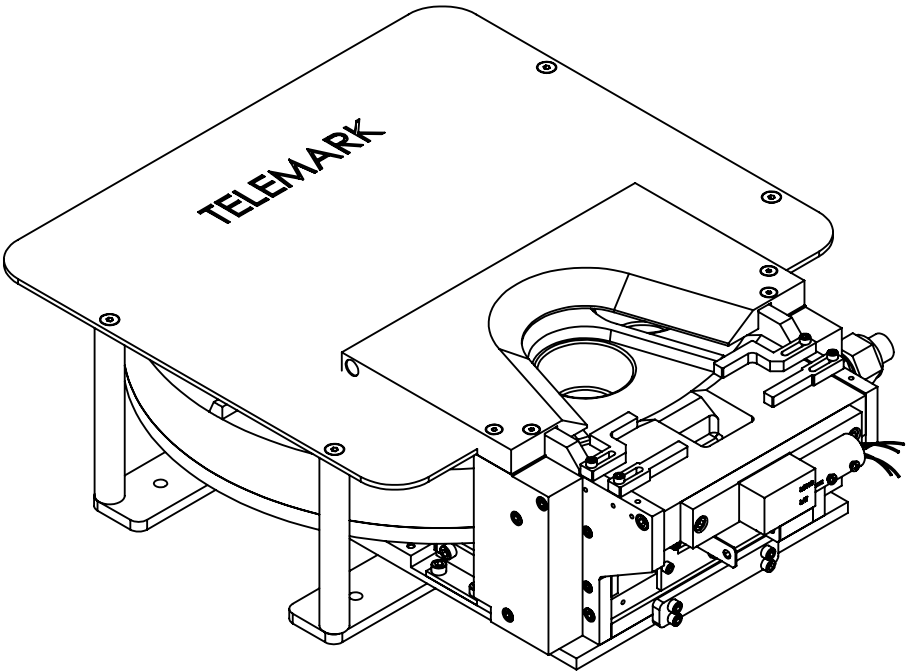
**MODEL 287-79 EB SOURCE,
8x 75cc, R/D (10Kw)**

B	SCALE	1:4	DWG NO.	287-9979-5	REV
	SHEET	1 of 1			B


CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.

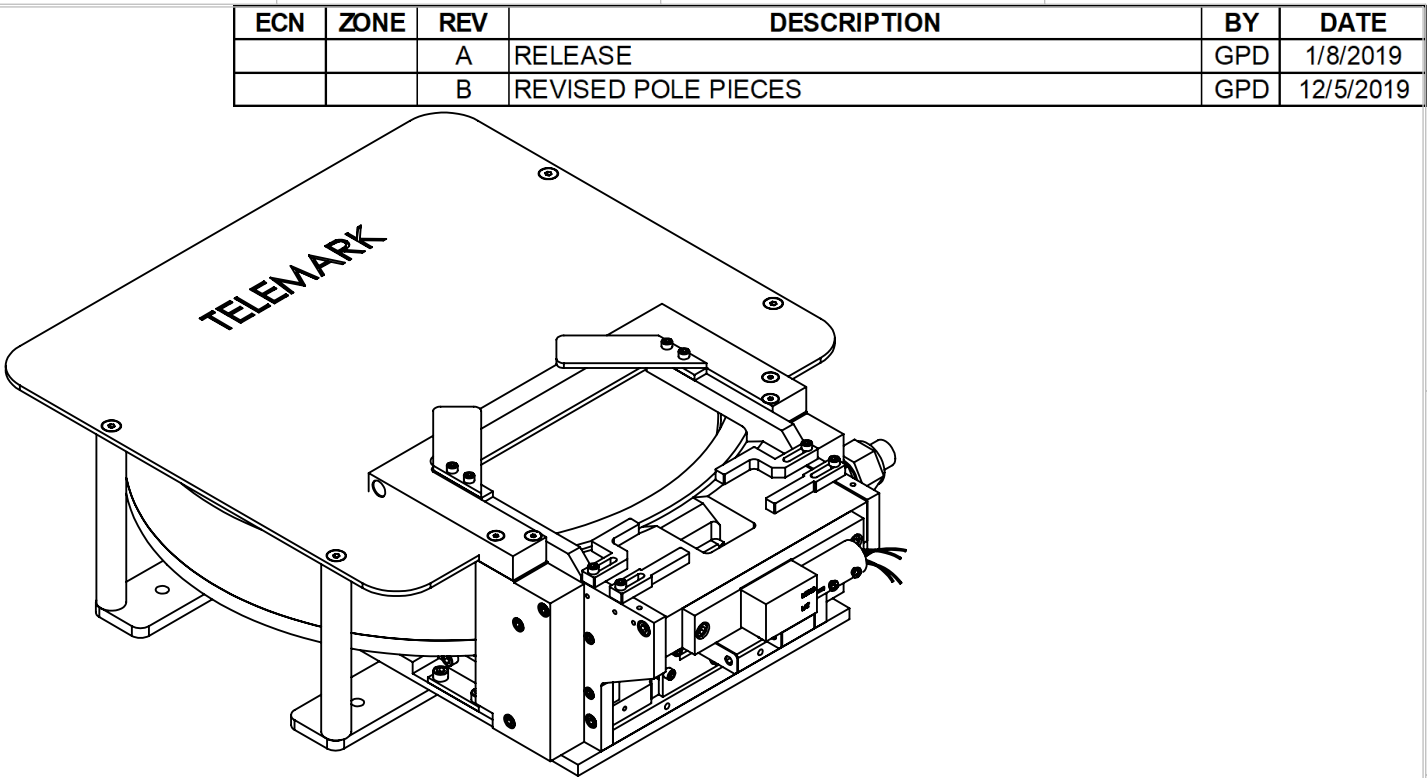
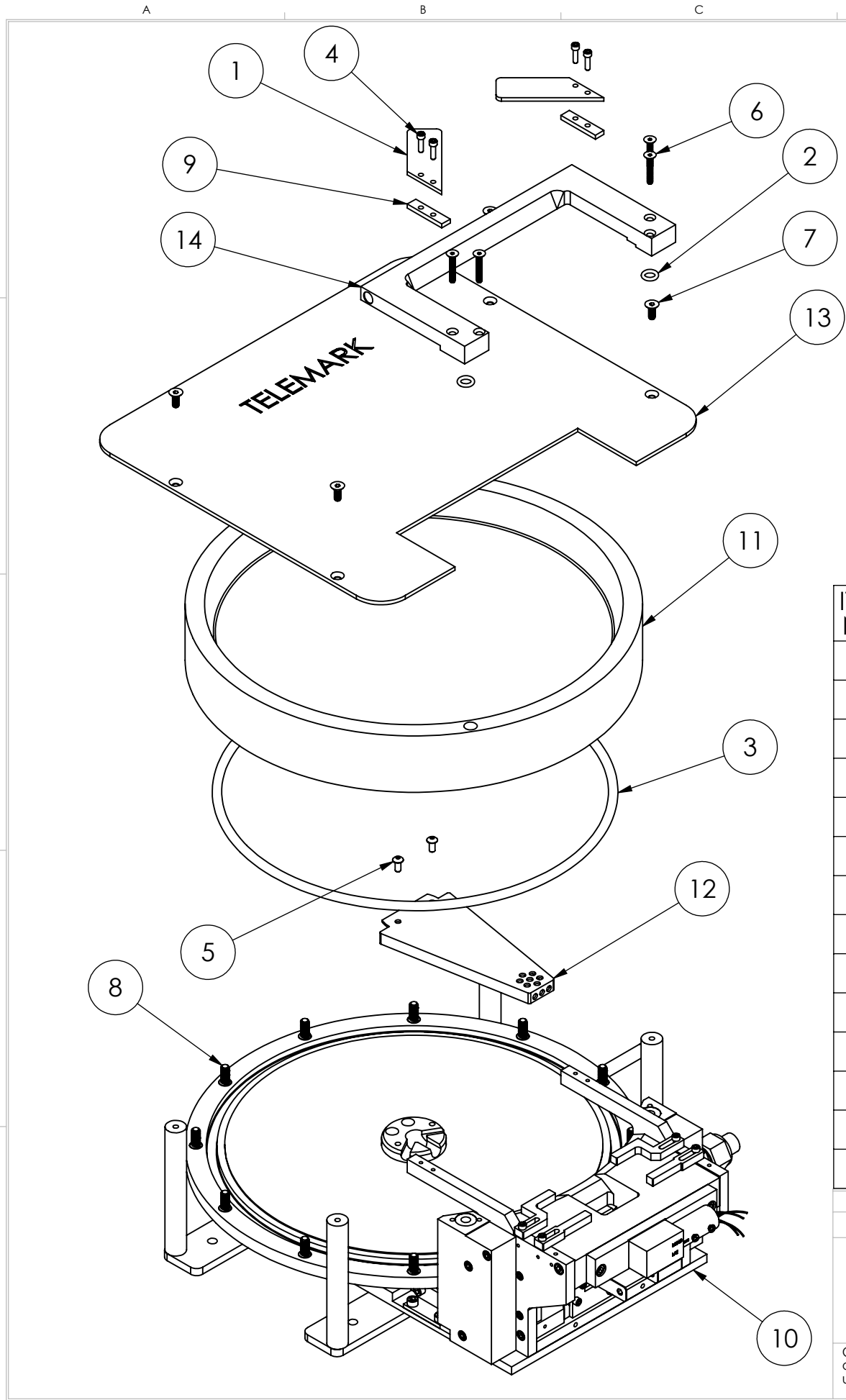


ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	1/11/2019



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-2109-1	O-RING, VITON, ID 5/16", W 3/32"	2
2	271-2452-1	O-RING, VITON, ID 1 1/2", W 1/4"	1
3	271-6125-9	SCREW, #8-32 X 3/8" SST SHCS	2
4	271-6139-1	VENTED SCREW, #8-32 X 1" SST FHS	4
5	271-6154-9	SCREW, #10-32 X 1/2 SST FHS	4
6	271-6184-1	1/4-20 UNC, SHCS, HEX, 9/16", Vented, SST	12
7	287-0133-3	EB SOURCE SUB ASSEMBLY, S/D, 10KW	1
8	287-0232-1	CRUCIBLE, 10 X 40cc	1
9	287-0452-1	WATER DUCT	1
10	295-0070-2	COVER, REAR, 6x100cc	1
11	295-0077-1	COVER, 10 POCKET	1

UNLESS OTHERWISE SPECIFIED		DWG BY G. DION		DATE 1-11-2019		MATERIAL:		<div>TELEMARK</div> <div>telemark.com</div>	
GLOBAL TOLERANCES		CHECK BY		DATE		FINISH:			
<div>INCHES [mm]</div> <div>.X +/- .03 [0.762]</div> <div>.XX +/- 0.01 [0.254]</div> <div>.XXX +/- 0.005 [0.127]</div> <div>ANGLES +/- .5°</div> <div>SURF FINISH 63 RMS</div>		MFG ENG		DATE				THIRD ANGLE PROJECTION	
		DO NOT SCALE DRAWING							
		FILE NUMBER - 287-9987-1						MODEL 287-87 EB SOURCE, 12x 40cc, S/D (10Kw)	
		INITIAL PROJECT -							
<p>CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distribetd without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the conepts and details disclosed by it. Such concepts anddetails are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.</p>									
B		SCALE 1:4		DWG NO.		REV			
		SHEET 1 of 1		287-9987-1		A			



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	263-0053-2	POLE PIECE, TOP	2
2	271-2109-1	O-RING, VITON, ID 5/16", W 3/32"	2
3	271-2452-1	O-RING, VITON, ID 11-1/2", W 1/4"	1
4	271-6060-1	VENTED SCREW, #6-32 X 1/2" SST SHCS	4
5	271-6125-8	SCREW, #8-32 X 3/8" SST BHCS	2
6	271-6139-1	VENTED SCREW, #8-32 X 1" SST FHS	4
7	271-6154-9	SCREW, #10-32 X 1/2 SST FHS	4
8	271-6184-1	1/4-20 UNC, SHCS, HEX, 9/16", Vented, SST	12
9	287-0053-6	POLE PIECE, TOP	2
10	287-0133-3	EB SOURCE SUB ASSEMBLY, S/D, 10KW	1
11	287-0275-1	CRUCIBLE, PAN, 1810cc	1
12	287-0452-2	WATER DUCT	1
13	295-0070-1	COVER, REAR	1
14	295-0071-1	COVER, PAN	1

UNLESS OTHERWISE SPECIFIED
GLOBAL TOLERANCES

	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]

ANGLES +/- .5°
SURF FINISH 63 RMS

DWG BY G. DION
CHECK BY
PROJ ENG
MFG ENG

DATE 1-8-2019
DATE
DATE

DO NOT SCALE DRAWING

FILE NUMBER - 287-9993-1
INITIAL PROJECT -

MATERIAL:

FINISH:

THIRD ANGLE PROJECTION

TELEMARK

telemark.com

MODEL 287-93 EB SOURCE,
1810cc PAN, S/D (10Kw)

B

SCALE 1:4
SHEET 1 of 1

DWG NO. 287-9993-1

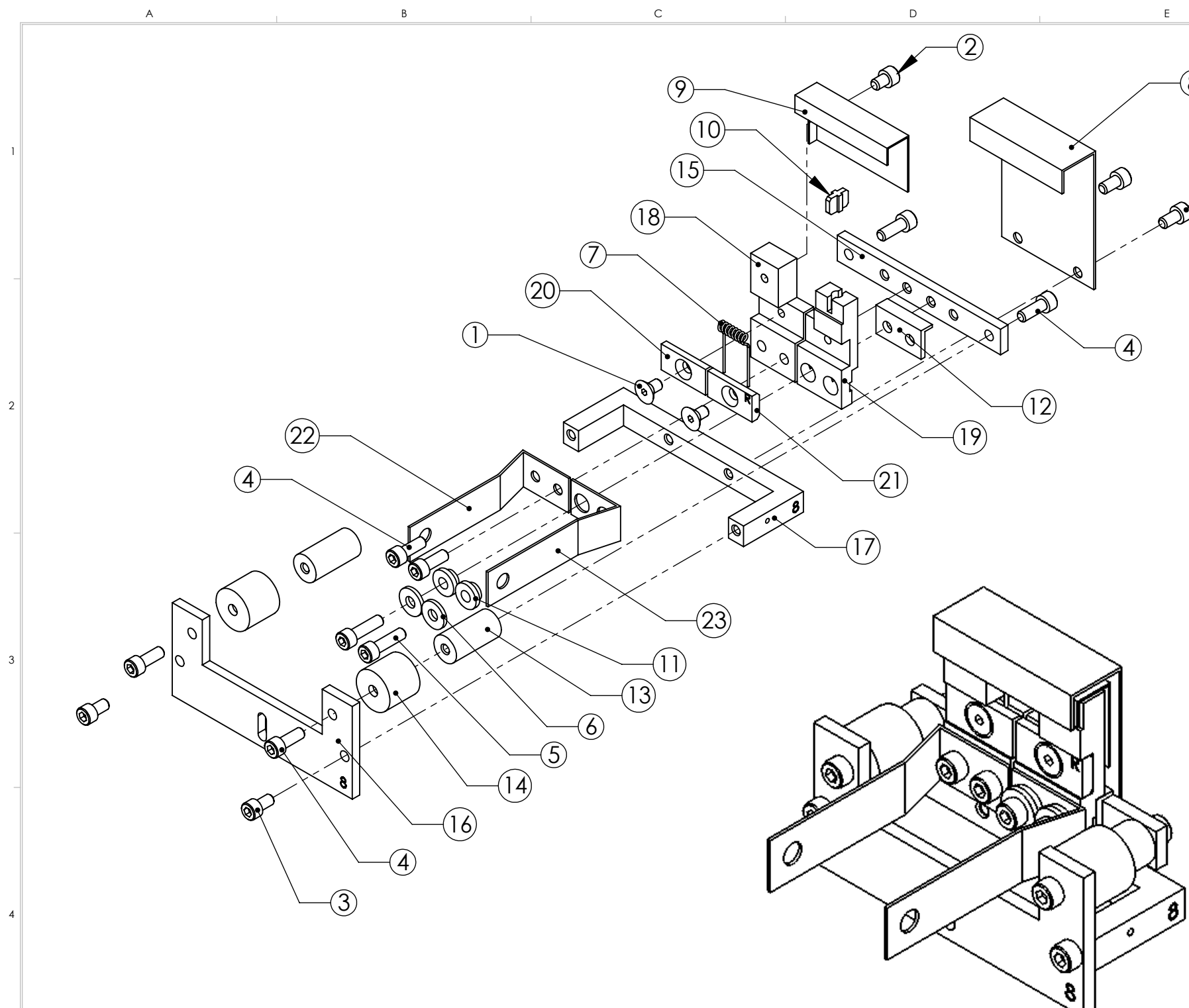
REV B

CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.



Common Assemblies

E-Beam Source



ISOMETRIC VIEW

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	6/13/2013
		A1	UPDATE	PWF	8/9/2013

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-6010-5	SCREW, #6-32 X 1/4" SLOT FLAT HEAD,TI	2
2	271-6020-5	SCREW, #6-32 X 3/16" TI SHCS	1
3	271-6030-1	VENTED SCREW, #6-32 X 1/4" SST SHCS	4
4	271-6050-1	VENTED SCREW, #6-32 X 3/8" SST. SHCS	6
5	271-6060-1	VENTED SCREW, #6-32 X 1/2" SST SHCS	2
6	271-6242-1	FLAT WASHER, #6 SST.	2
7	273-0001-1	FILAMENT, 7-1/2 TURN	1
8	273-0003-1	ANODE PLATE	1
9	273-0004-2	BEAM FORMER	1
10	273-0005-1	INSULATOR, CROSS	1
11	273-0006-1	INSULATOR, COLLAR	2
12	273-0008-1	L INSULATOR	1
13	273-0010-1	HV INSULATOR	2
14	273-0011-1	HV SHIELD	2
15	273-0017-1	MOUNTING BRACKET	1
16	273-0018-8	EMITTER SUPPORT BRACKET	1
17	273-0019-8	U-BRACKET	1
18	273-0031-1	CATHODE BLOCK, LEFT	1
19	273-0032-1	CATHODE BLOCK, RIGHT	1
20	273-0033-3	FILAMENT CLAMP, LEFT	1
21	273-0033-4	FILAMENT CLAMP, RIGHT	1
22	273-0035-1	EMITTER BUS BAR, LEFT	1
23	273-0036-1	FILAMENT BUS BAR, RIGHT	1

UNLESS OTHERWISE SPECIFIED
GLOBAL TOLERANCES

	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]

ANGLES +/- .5°
SURF FINISH 63 RMS

DWG BY
CHECK BY
PROJ ENG
MFG ENG

DATE
DATE
DATE

mo/day/yr

DO NOT SCALE DRAWING

FILE NUMBER - 273-0150-8
INITIAL PROJECT -

MATERIAL: B.O.M.

FINISH: SEE NOTES

THIRD ANGLE PROJECTION

TELEMARK
telemark.com

**EMITTER ASSEMBLY
2013**

B

SCALE 1:1
SHEET 1 of 1

DWG NO.
273-0150-8

REV
A1

CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.

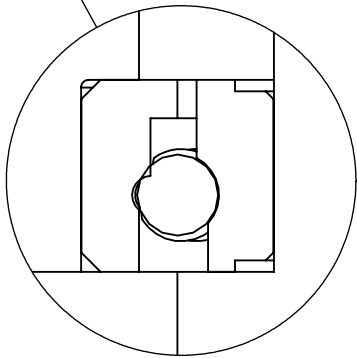
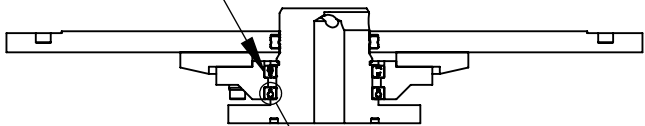
UNLESS OTHERWISE SPECIFIED:
1. PARTS TO BE DEGREASED BEFORE INSTALATION

2. OUTER RACE COUNTERBORE MUST FACE OUTWARD

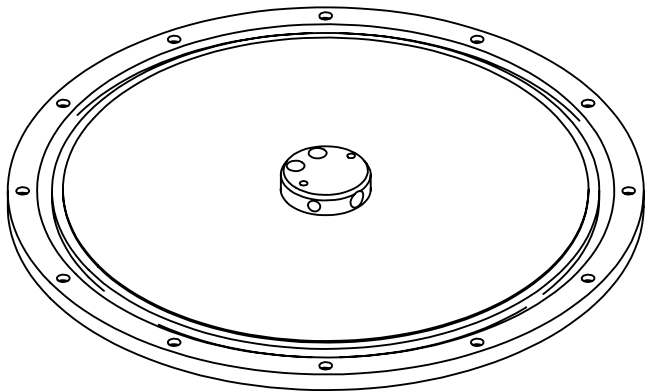
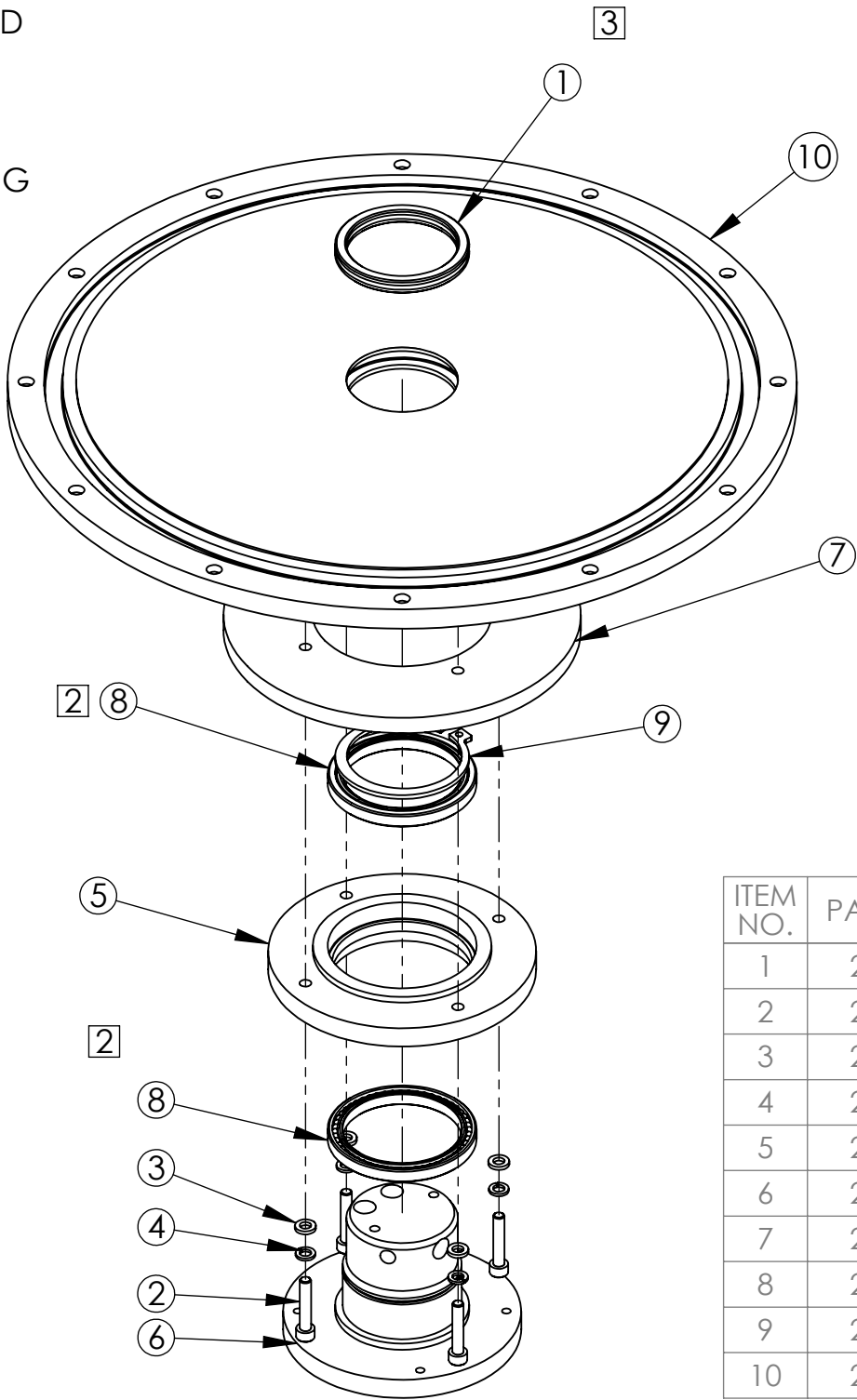
3. APPLY VACUUM GREASE TO QUAD-RING BEFORE INSTALLATION.

4. PRELOAD BEARING WITH SHIMS BETWEEN RETAINING RING AND BEARING AS NEEDED.

THIS BEARING SHOULD BE
INSTALLED OPPOSITE OF THE
LOWER BEARING SO THEY
ARE FACE TO FACE



DETAIL A
SCALE 4 : 1

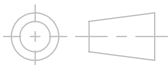


ISOMETRIC VIEW

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-4328-1	QUAD RING, VITON, ID 1-7/8", W 3/16"	1
2	271-6174-1	VENTED SCREW, #10-32 X 1" SST. SHCS	4
3	271-6245-1	FLAT WASHER, #10 SST	4
4	271-6245-2	LOCK WASHER, #10 SST.	4
5	287-0038-1	BEARING HOUSING	1
6	287-0042-1	PIVOT SHAFT	1
7	295-0013-1	BEVEL GEAR, 12DP, 6PD	1
8	295-0035-1	BEARING, TYPE A, ID 2", OD 2.5"	2
9	295-0036-1	RETAINING RING, 2" EXTERNAL, SST	1
10	295-0442-2	CRUCIBLE BASE	1

THIS DOCUMENT CONTAINS PROPRIETARY
INFORMATION OF TELEMAR WHICH MAY
NOT BE REPRODUCED, DISCLOSED OR USED
IN PART OR WHOLE WITHOUT WRITTEN
PERMISSION FROM TELEMAR

NEXT ASSY	USED ON
APPLICATION	

ITEM NO.		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		MATERIAL SPECIFICATION		QTY REQD	
PARTS LIST									
UNLESS OTHERWISE SPECIFIED		DRAWN BY: G. DION		DATE: 11-20-2018		<div>TELEMARK</div> <div>Telemark.com</div> <div>ROTATION ASSEMBLY, SIDE DRIVE (10KW)</div>			
DIMENSION AND TOLERANCE PER ASME Y14.5M 1994		CHECKED BY:		DATE:					
DIMENSIONS ARE IN INCHES TOLERANCES ARE:		ENG:		DATE:					
DECIMALS .X ± .03 ANGLES ±1° .XX ± .01 .XXX ± .005									
THIRD ANGLE PROJECTION		MATERIAL:							
		FINISH: SEE NOTES		SIZE DWG. NO.		287-0113-1		REV. A	
DO NOT SCALE DRAWING				SCALE 1:1		SHEET 1 OF 1			

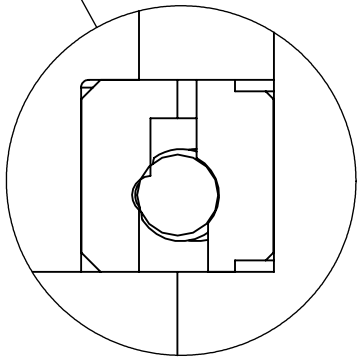
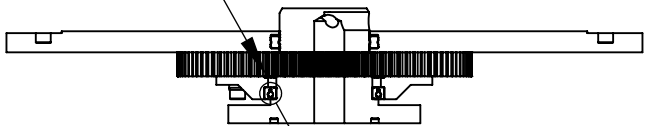
UNLESS OTHERWISE SPECIFIED:
1. PARTS TO BE DEGREASED BEFORE INSTALATION

2. OUTER RACE COUNTERBORE MUST FACE OUTWARD

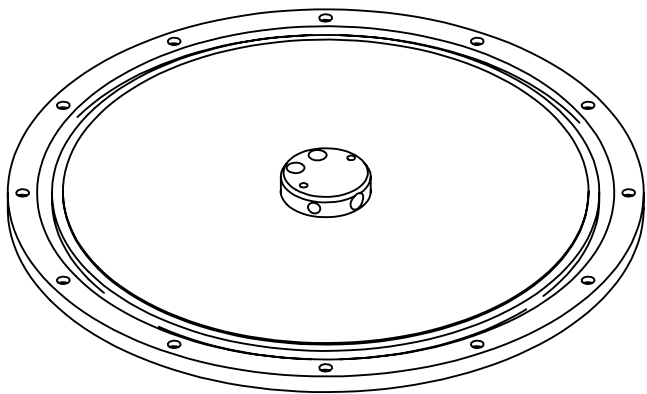
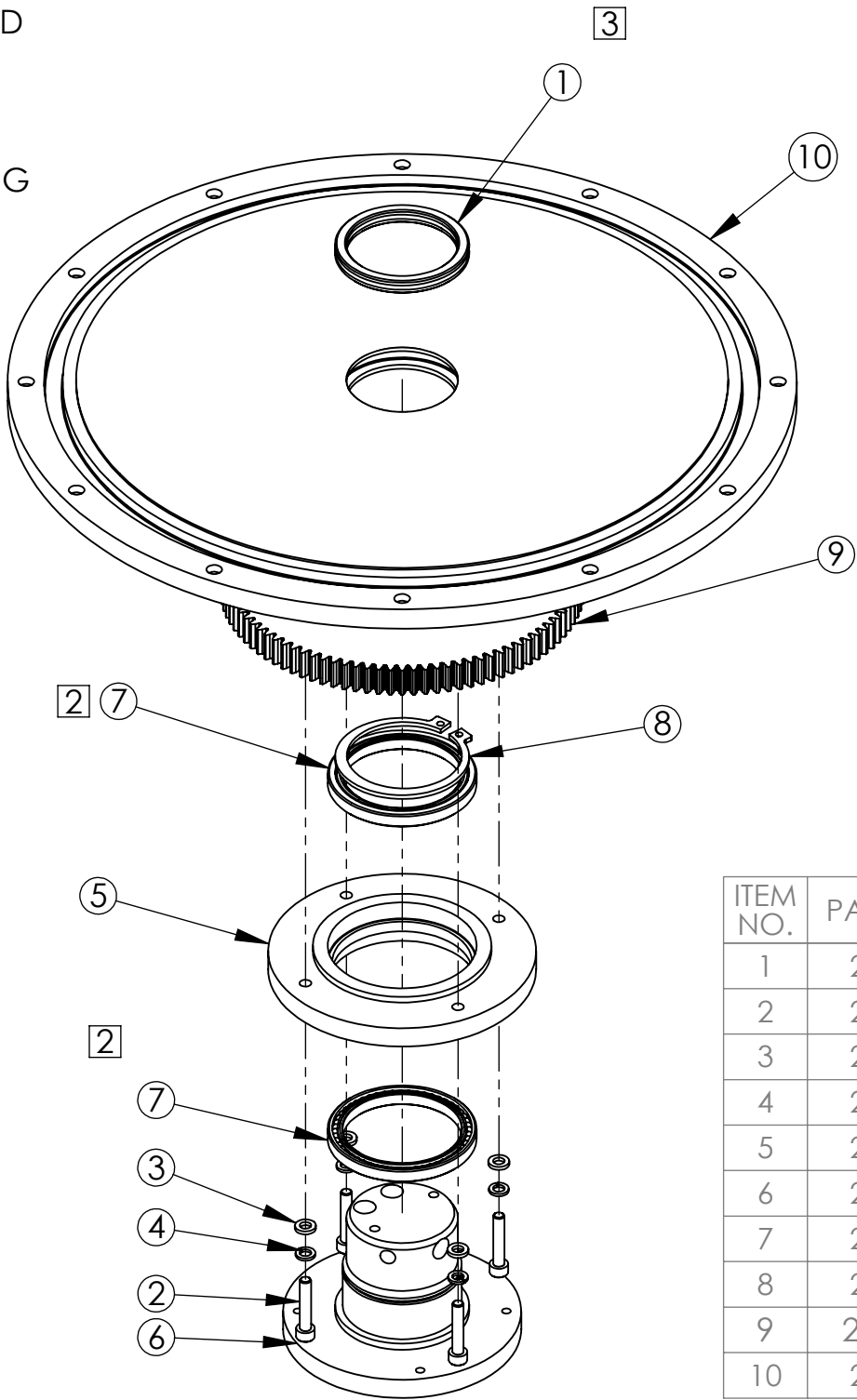
3. APPLY VACUUM GREASE TO QUAD-RING BEFORE INSTALLATION.

4. PRELOAD BEARING WITH SHIMS BETWEEN RETAINING RING AND BEARING AS NEEDED.

THIS BEARING SHOULD BE
INSTALLED OPPOSITE OF THE
LOWER BEARING SO THEY
ARE FACE TO FACE



DETAIL A
SCALE 4 : 1

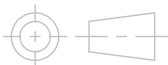


ISOMETRIC VIEW

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-4328-1	QUAD RING, VITON, ID 1-7/8", W 3/16"	1
2	271-6174-1	VENTED SCREW, #10-32 X 1" SST. SHCS	4
3	271-6245-1	FLAT WASHER, #10 SST	4
4	271-6245-2	LOCK WASHER, #10 SST.	4
5	287-0038-1	BEARING HOUSING	1
6	287-0042-1	PIVOT SHAFT	1
7	295-0035-1	BEARING, TYPE A, ID 2", OD 2.5"	2
8	295-0036-1	RETAINING RING, 2" EXTERNAL, SST	1
9	295-0149-2	GEAR, SPUR, 16 PITCH, 96 TEETH	1
10	295-0442-2	CRUCIBLE BASE	1

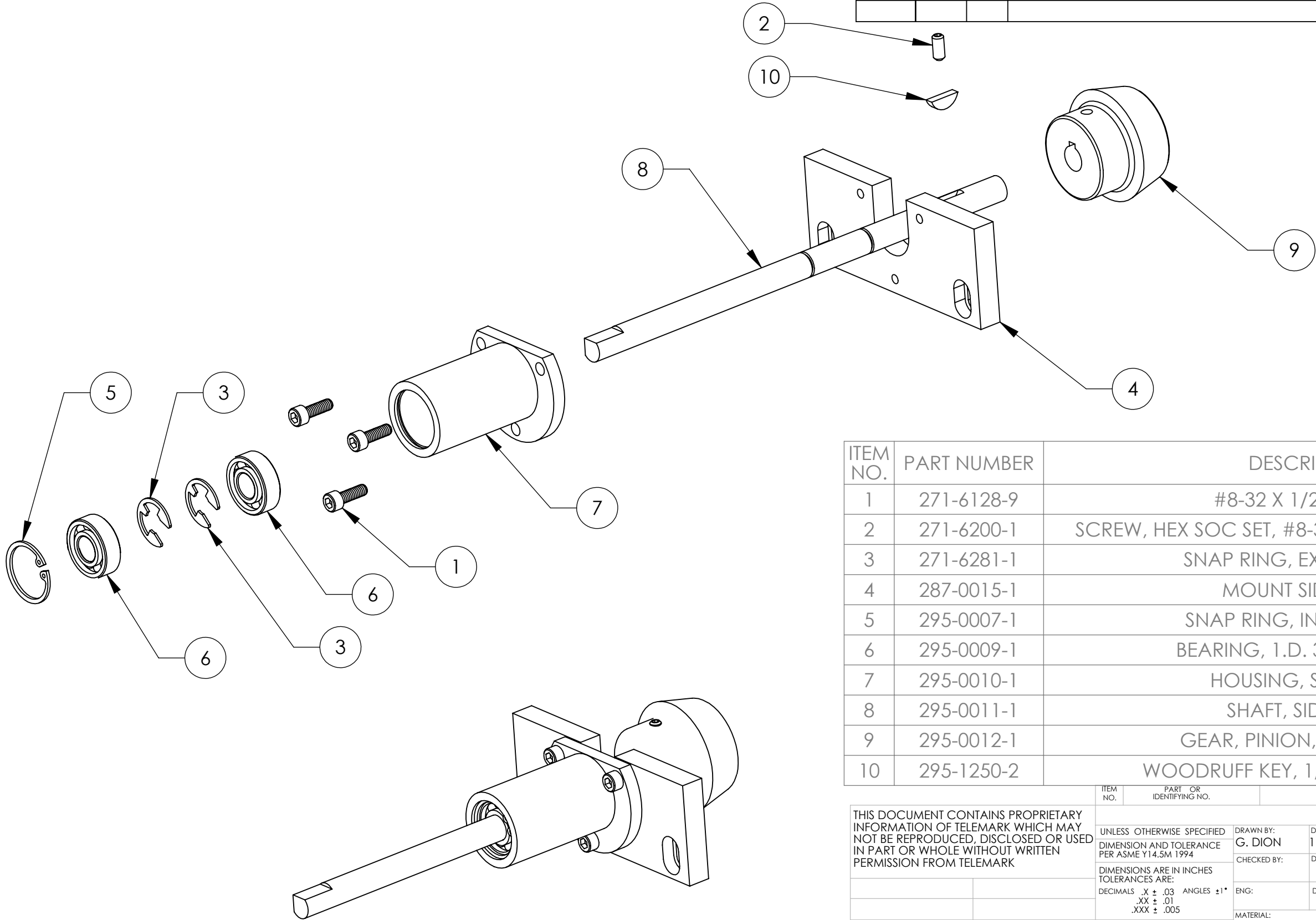
THIS DOCUMENT CONTAINS PROPRIETARY
INFORMATION OF TELEMAR WHICH MAY
NOT BE REPRODUCED, DISCLOSED OR USED
IN PART OR WHOLE WITHOUT WRITTEN
PERMISSION FROM TELEMAR

NEXT ASSY	USED ON
APPLICATION	

ITEM NO.		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		MATERIAL SPECIFICATION		QTY REQD	
PARTS LIST									
UNLESS OTHERWISE SPECIFIED		DRAWN BY: G. DION		DATE: 3-21-2019		<div>TELEMARK</div> <div>Telemark.com</div> <div>ROTATION ASSEMBLY, BOTTOM DRIVE (10kW)</div>			
DIMENSION AND TOLERANCE PER ASME Y14.5M 1994		CHECKED BY:		DATE:					
DIMENSIONS ARE IN INCHES TOLERANCES ARE:		ENG:		DATE:					
DECIMALS .X ± .03 ANGLES ±1° .XX ± .01 .XXX ± .005									
THIRD ANGLE PROJECTION		MATERIAL:							
		FINISH: SEE NOTES		SIZE DWG. NO.		287-0115-1		REV. A	
DO NOT SCALE DRAWING				SCALE 1:1		SHEET 1 OF 1			

UNLESS OTHERWISE SPECIFIED:
1. CLEAN AND DEGREASE ALL PARTS
BEFORE ASSEMBLY.

REVISIONS					
ECN#	ZONE	REV	DESCRIPTION	DATE	CHG BY
		A	RELEASE	11/30/2018	GPD

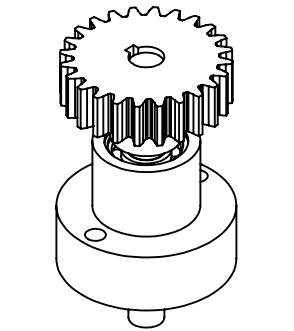
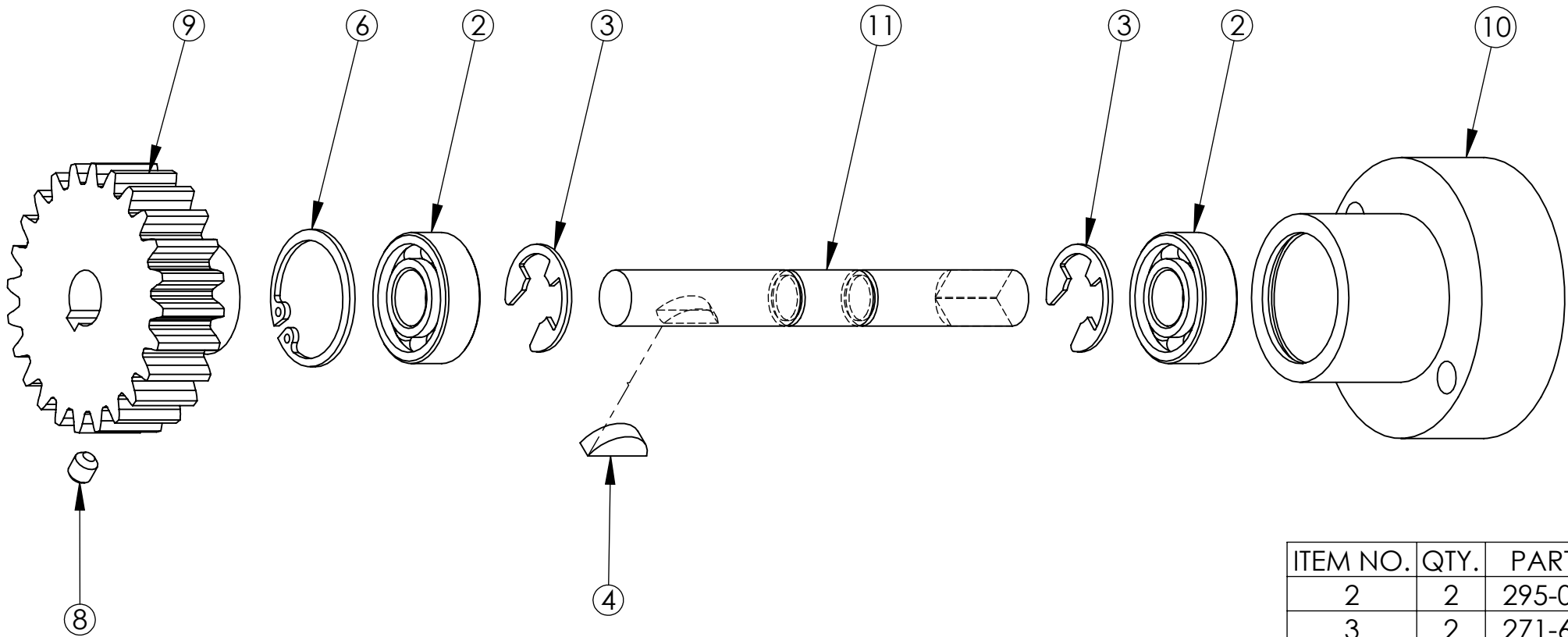


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-6128-9	#8-32 X 1/2 SST SHCS	3
2	271-6200-1	SCREW, HEX SOC SET, #8-32 UNC X 3/8" LONG, SST	1
3	271-6281-1	SNAP RING, EXTERNAL, 3/8"	2
4	287-0015-1	MOUNT SIDE DRIVE	1
5	295-0007-1	SNAP RING, INTERNAL, 7/8"	1
6	295-0009-1	BEARING, I.D. 3/8", O.D. 7/8"	2
7	295-0010-1	HOUSING, SIDE DRIVE	1
8	295-0011-1	SHAFT, SIDE DRIVE	1
9	295-0012-1	GEAR, PINION, 12DP, 1.5"PD	1
10	295-1250-2	WOODRUFF KEY, 1/8" X 1/4" RADIUS	1

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF TELEMAR WHICH MAY NOT BE REPRODUCED, DISCLOSED OR USED IN PART OR WHOLE WITHOUT WRITTEN PERMISSION FROM TELEMAR

ITEM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	QTY REQD
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION AND TOLERANCE PER ASME Y14.5M 1994		DRAWN BY: G. DION	DATE: 11-30-2018	TELEMAR telemark.com
DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS .X ± .03 ANGLES ±1° .XX ± .01 .XXX ± .005		CHECKED BY:	DATE:	
THIRD ANGLE PROJECTION		ENG:	DATE:	Side Drive Assembly
NEXT ASSY		MATERIAL:		
USED ON		FINISH:	-	
APPLICATION		DO NOT SCALE DRAWING		SIZE B DWG. NO. 287-0125-1 REV. A
				SCALE 2:3 SHEET 1 OF 1

REVISIONS				
ECN#	ZONE	REV	DESCRIPTION	DATE
		A	RELEASE	3/21/2019

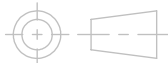


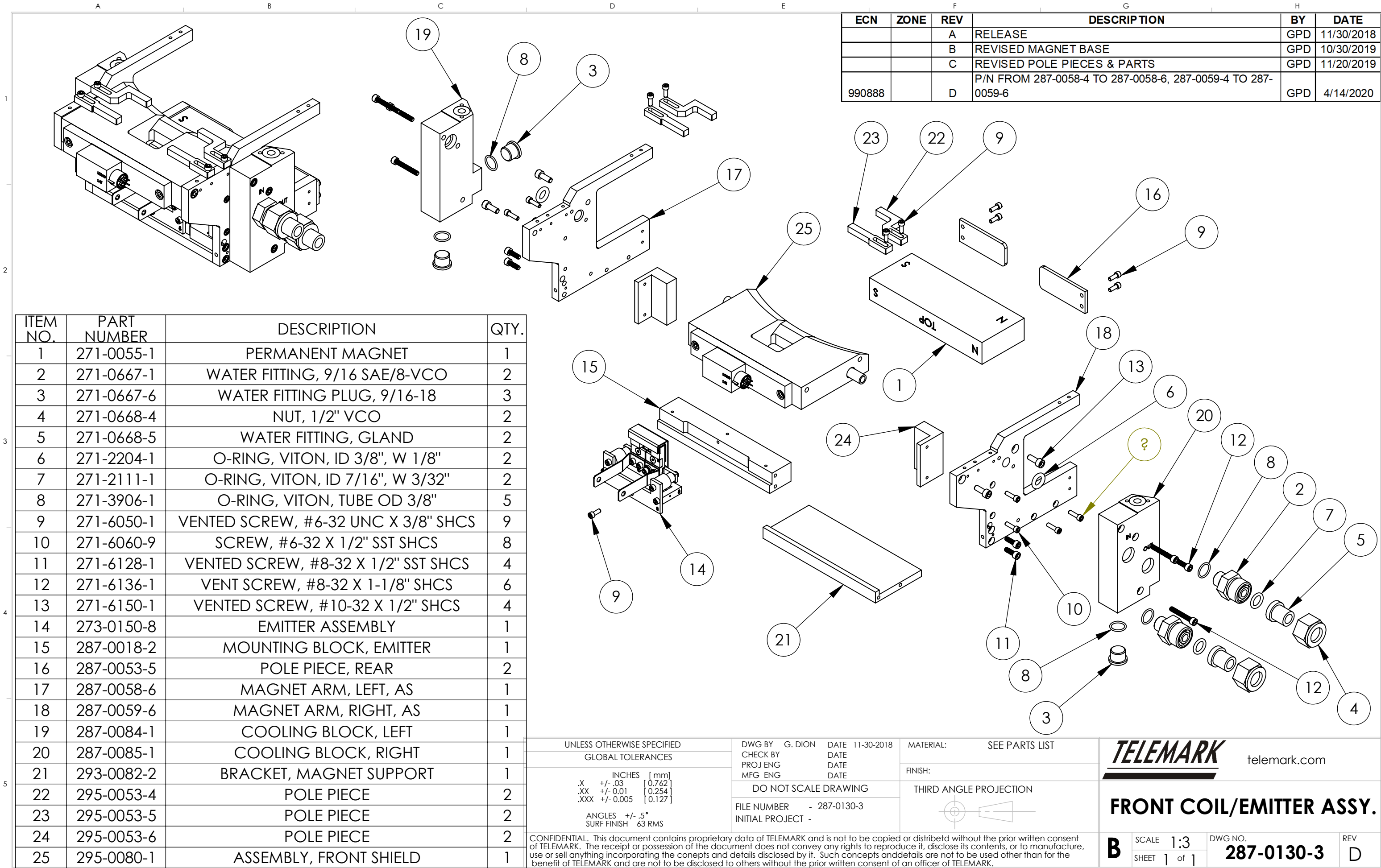
ISOMETRIC VIEW

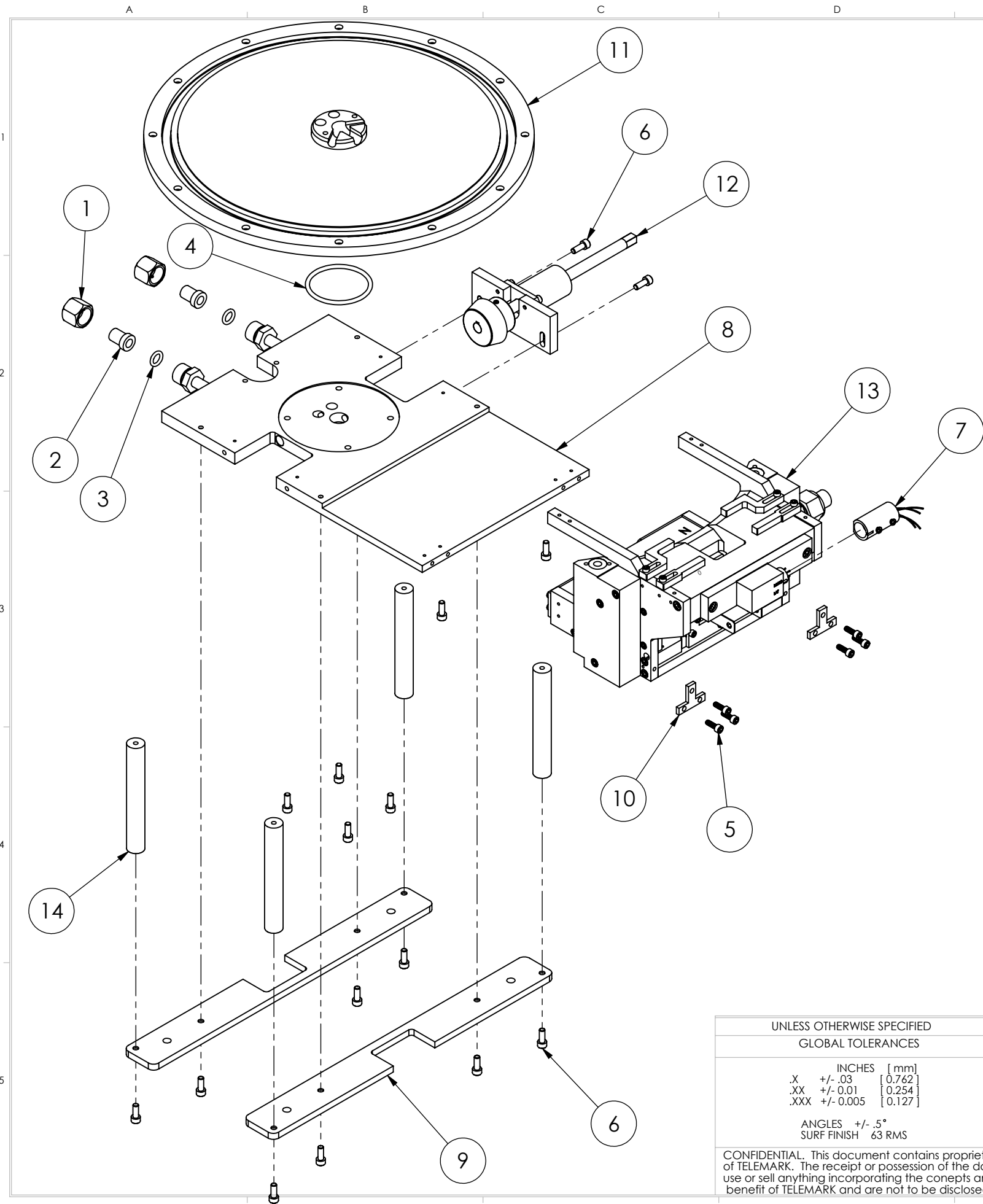
ITEM NO.	QTY.	PART NO.	DESCRIPTION
2	2	295-0009-1	BEARING, ID 3/8, OD 7/8
3	2	271-6281-1	SNAP RING, EXTERNAL, 3/8"
4	1	295-1250-2	WOODRUFF KEY, 1/8 x .25 RADIUS
6	1	295-0007-1	SNAP RING, INTERNAL, 7/8"
8	1	271-6212-1	SET SCREW #8-32x3/16, SST
9	1	295-0150-2	GEAR, SPUR, 16 PITCH, 24 TEETH
10	1	287-0010-2	HOUSING, BOTTOM DRIVE
11	1	287-0154-1	SHAFT, BOTTOM DRIVE

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF TELEMAR WHICH MAY NOT BE REPRODUCED, DISCLOSED OR USED IN PART OR WHOLE WITHOUT WRITTEN PERMISSION FROM TELEMAR

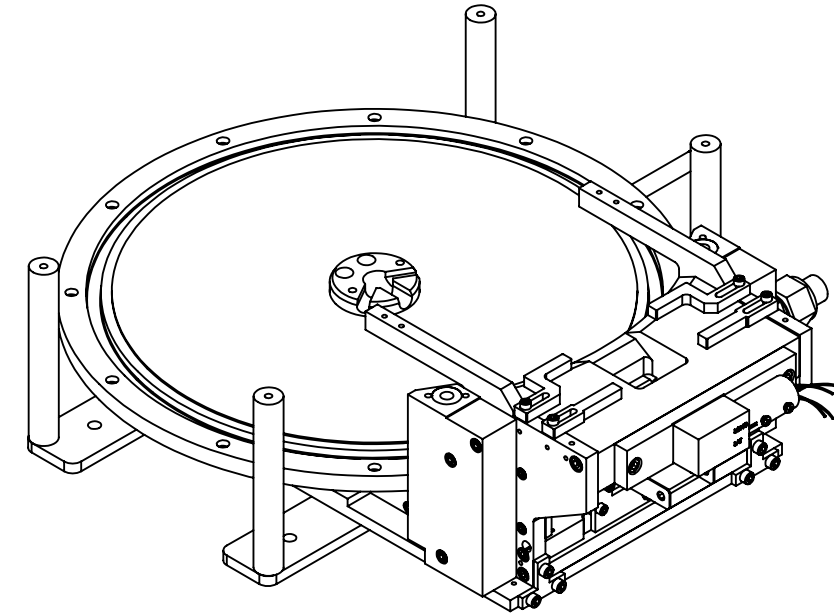
NEXT ASSY	USED ON
APPLICATION	

ITEM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		MATERIAL SPECIFICATION	QTY REQD
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION AND TOLERANCE PER ASME Y14.5M 1994 DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS .X ± .03 ANGLES ±1° .XX ± .01 .XXX ± .005 THIRD ANGLE PROJECTION 		DRAWN BY: G. DION	DATE: 3-21-2019	<div>TELEMARK</div> <div>Battle Ground, WA</div> <div>BOTTOM DRIVE ASSY</div>	
		CHECKED BY:	DATE:		
		ENG:	DATE:		
		MATERIAL: -			
		FINISH: -	SIZE B	DWG. NO. 287-0127-1	REV. A
DO NOT SCALE DRAWING		SCALE 1:1		SHEET 1 OF 1	



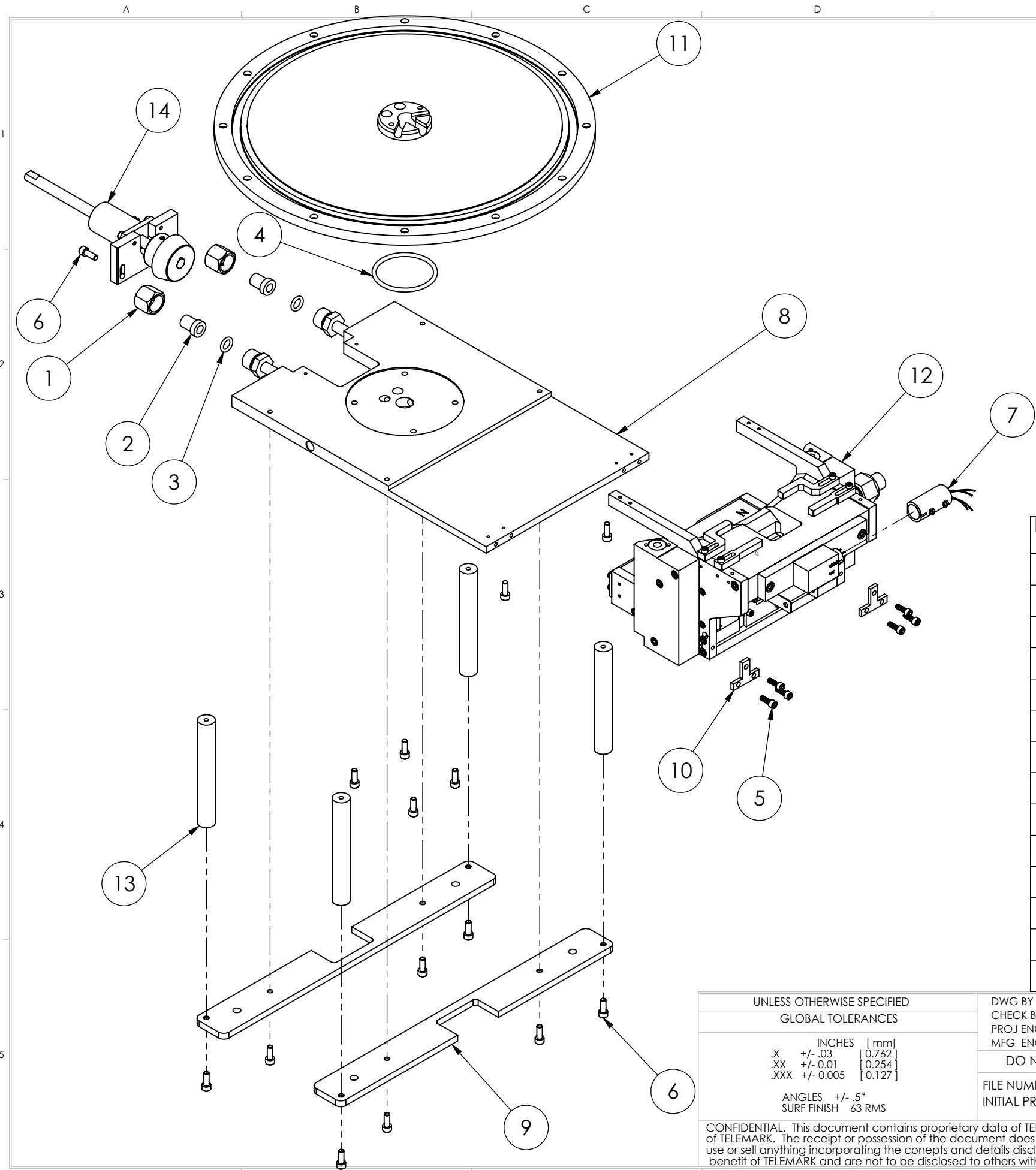


ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	11/21/2018
990888		B	ADDING P/N 271-6128-1 & 287-0089-1	GPD	4/14/2020



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-0650-2	WATER FITTING NUT	2
2	271-0651-2	WATER FITTING GLAND	2
3	271-2110-1	O-RING, VITON, ID 3/8", W 3/32"	2
4	271-2226-1	O-RING, VITON, ID 2", W 1/8"	1
5	271-6128-1	VENTED SCREW, #8-32 X 1/2" SST SHCS	6
6	271-6150-9	SCREW, #10-32 X 1/2" SST SHCS.	16
7	272-0125-2	COIL CONNECTOR ASSEMBLY	1
8	287-0060-1	BASE PLATE, SIDE/BOTTOM DRIVE	1
9	287-0088-1	MOUNTING STRAP	2
10	287-0089-1	BRACKET, EMITTER/BASE	2
11	287-0113-1	ROTATION ASSEMBLY, SIDE DRIVE (10KW)	1
12	287-0125-1	SIDE DRIVE ASSEMBLY	1
13	287-0130-3	FRONT COIL/EMITTER ASSY.	1
14	287-0465-2	COVER, STANDOFF	4

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY G. DION CHECK BY PROJ ENG MFG ENG	DATE 11-21-2018 DATE DATE	MATERIAL: SEE PARTS LIST	TELEMARK telemark.com EB SOURCE SUB ASSEMBLY, S/D, 10kW
INCHES [mm] .X +/- .03 [0.762] .XX +/- 0.01 [0.254] .XXX +/- 0.005 [0.127] ANGLES +/- .5° SURF FINISH 63 RMS		DO NOT SCALE DRAWING		FINISH: THIRD ANGLE PROJECTION	
CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.		FILE NUMBER - 287-0133-3 INITIAL PROJECT -			
					B
				SCALE 1:4 SHEET 1 of 1	DWG NO. 287-0133-3 REV B



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	8/27/2019
990888		B	ADDING P/N 271-6128-1 & 287-0089-1	GPD	4/14/2020

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-0650-2	WATER FITTING NUT	2
2	271-0651-2	WATER FITTING GLAND	2
3	271-2110-1	O-RING, VITON, ID 3/8", W 3/32"	2
4	271-2226-1	O-RING, VITON, ID 2", W 1/8"	1
5	271-6128-1	VENTED SCREW, #8-32 X 1/2" SST SHCS	6
6	271-6150-9	SCREW, #10-32 X 1/2" SST SHCS.	16
7	272-0125-2	COIL CONNECTOR ASSEMBLY	1
8	287-0060-3	BASE PLATE, RIGHT SIDE DRIVE	1
9	287-0088-1	MOUNTING STRAP	2
10	287-0089-1	BRACKET, EMITTER/BASE	2
11	287-0113-1	ROTATION ASSEMBLY, SIDE DRIVE (10KW)	1
12	287-0130-3	FRONT COIL/EMITTER ASSY.	1
13	287-0465-2	COVER, STANDOFF	4
14	287-0125-2	REAR SIDE DRIVE ASSEMBLY	1

UNLESS OTHERWISE SPECIFIED		
GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

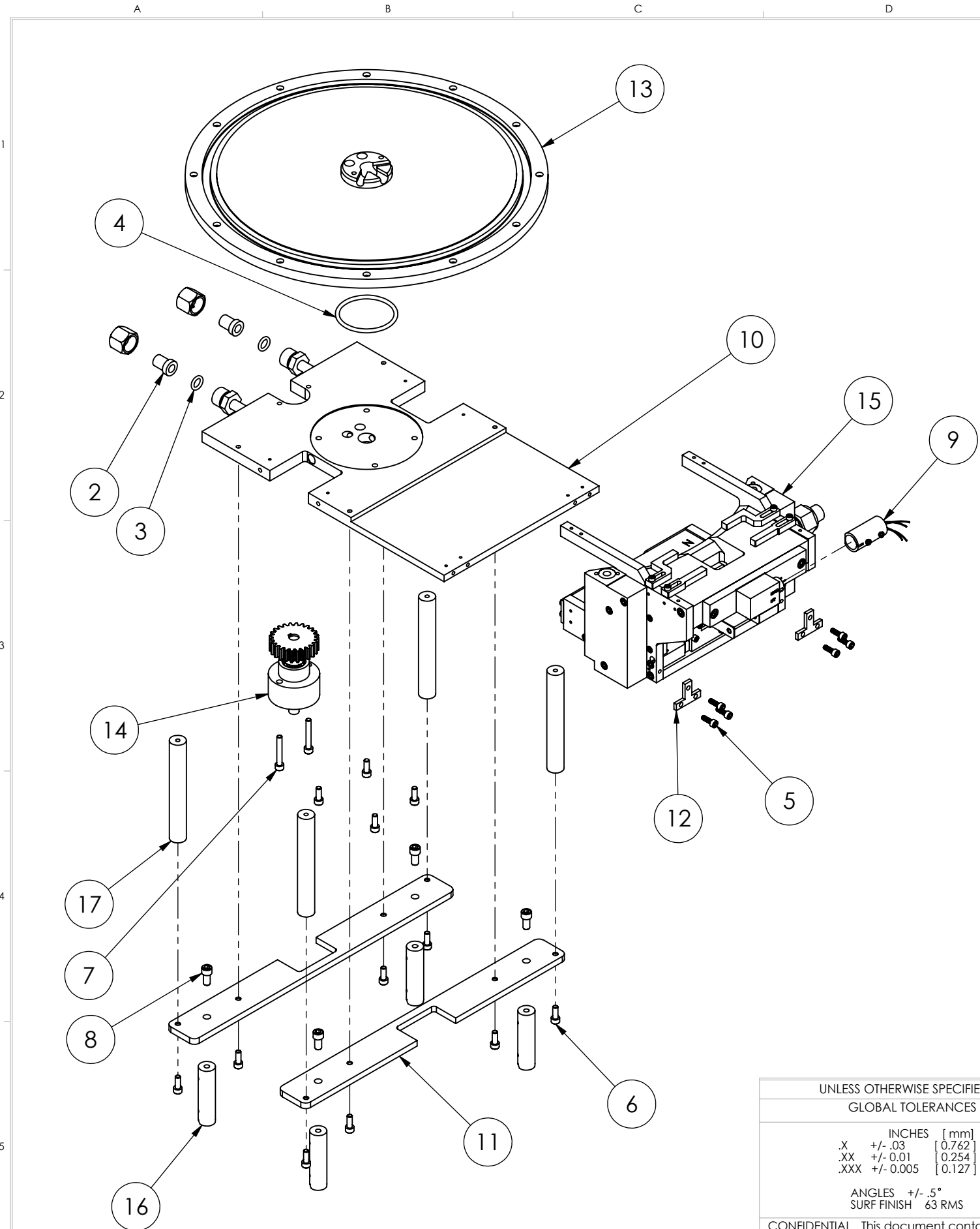
DWG BY	G. DION	DATE	8-27-2019
CHECK BY		DATE	
PROJ ENG		DATE	
MFG ENG		DATE	
DO NOT SCALE DRAWING			
FILE NUMBER	- 287-0133-4		
INITIAL PROJECT	-		

MATERIAL:	SEE PARTS LIST
FINISH:	
THIRD ANGLE PROJECTION	

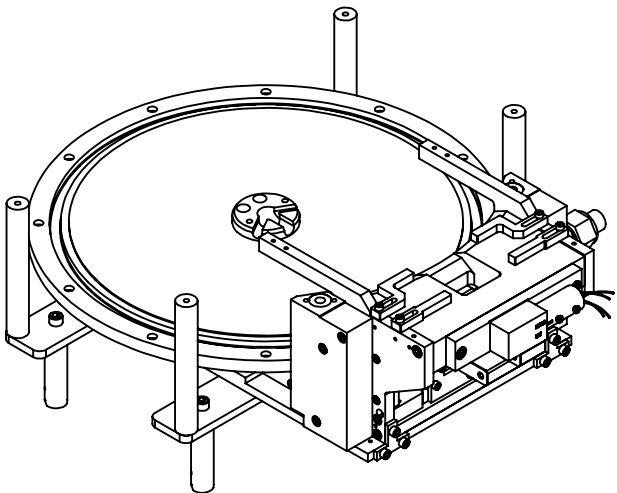
TELEMARK		telemark.com
EB SOURCE SUB ASSEMBLY, R/D, 10kW		

CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.

B	SCALE	1:4	DWG NO.	287-0133-4	REV	B
	SHEET	1 of 1				



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	3/21/2019
990888		D	ADDING P/N 271-6128-1 & 287-0089-1	GPD	4/14/2020



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-0650-2	WATER FITTING NUT	2
2	271-0651-2	WATER FITTING GLAND	2
3	271-2110-1	O-RING, VITON, ID 3/8", W 3/32"	2
4	271-2226-1	O-RING, VITON, ID 2", W 1/8"	1
5	271-6128-1	VENTED SCREW, #8-32 X 1/2" SST SHCS	6
6	271-6150-9	SCREW, #10-32 X 1/2" SST SHCS.	12
7	271-6175-9	SCREW, #10-32 X 1/2" SST SHCS.	2
8	271-6190-1	VENTED SCREW, 1/4-20 X 1/2" SST SHCS	4
9	272-0125-2	COIL CONNECTOR ASSEMBLY	1
10	287-0060-1	BASE PLATE, SIDE/BOTTOM DRIVE	1
11	287-0088-1	MOUNTING STRAP	2
12	287-0089-1	BRACKET, EMITTER/BASE	2
13	287-0115-1	ROTATION ASSEMBLY, BOTTOM DRIVE (10KW)	1
14	287-0127-1	BOTTOM DRIVE ASSY.	1
15	287-0130-3	FRONT COIL/EMITTER ASSY.	1
16	287-0465-1	STANDOFF, SOURCE	4
17	287-0465-2	COVER, STANDOFF	4

UNLESS OTHERWISE SPECIFIED
GLOBAL TOLERANCES

	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]

ANGLES +/- .5°
SURF FINISH 63 RMS

DWG BY G. DION 3-21-2019
CHECK BY
PROJ ENG
MFG ENG

DO NOT SCALE DRAWING

FILE NUMBER - 287-0135-5
INITIAL PROJECT -

MATERIAL: SEE PARTS LIST

FINISH:

THIRD ANGLE PROJECTION

TELEMARK
telemark.com

**EB SOURCE SUB ASSEMBLY,
B/D, 10kW**

B

SCALE 7:32
SHEET 1 of 1

DWG NO. 287-0135-5

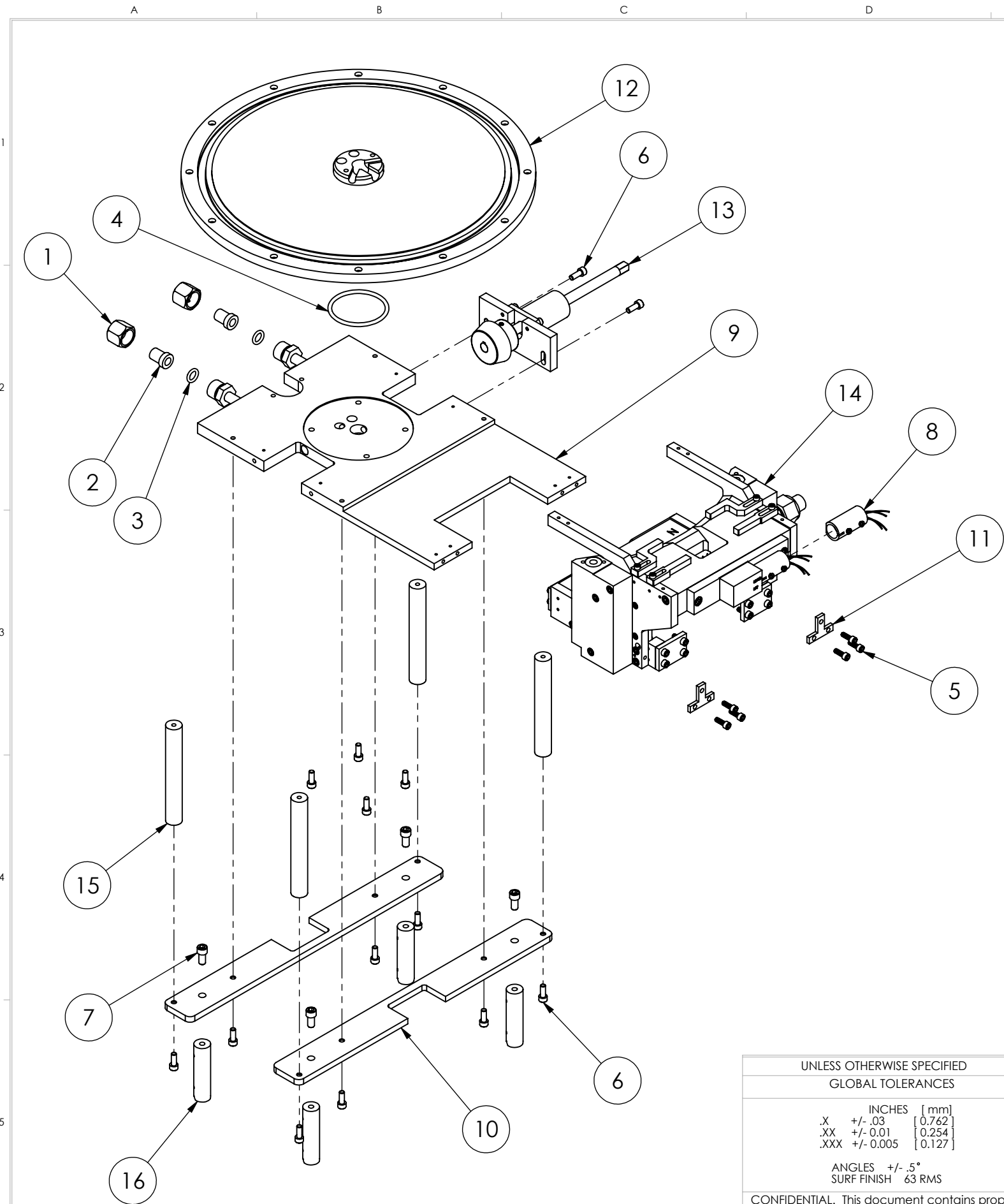
REV B

CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.

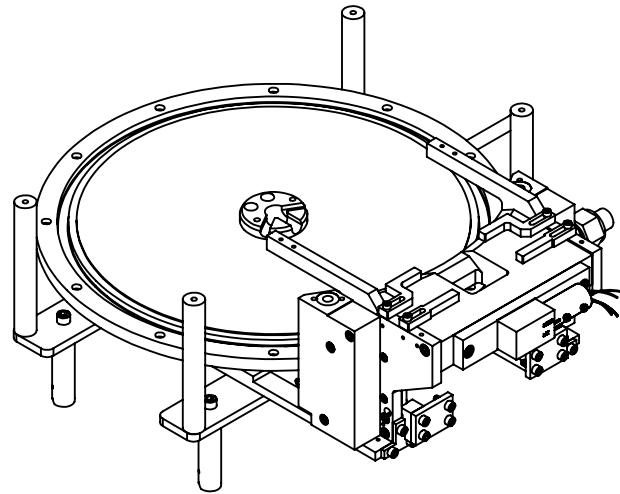


Optional Assemblies

Arc Suppression

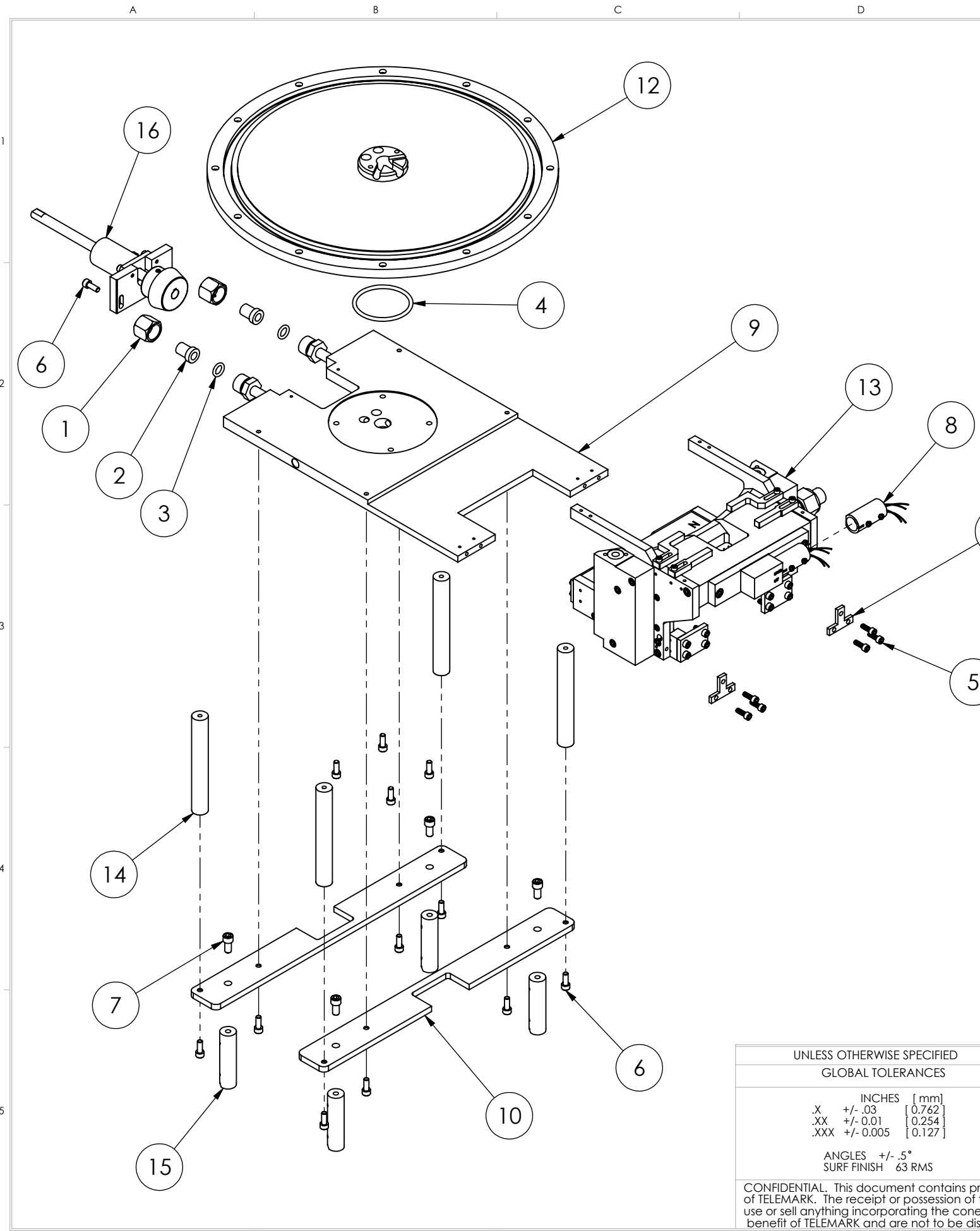


ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	3/14/2019
990888		B	REMOVING P/N 287-0017-1 & 271-6145-1	GPD	4/14/2020

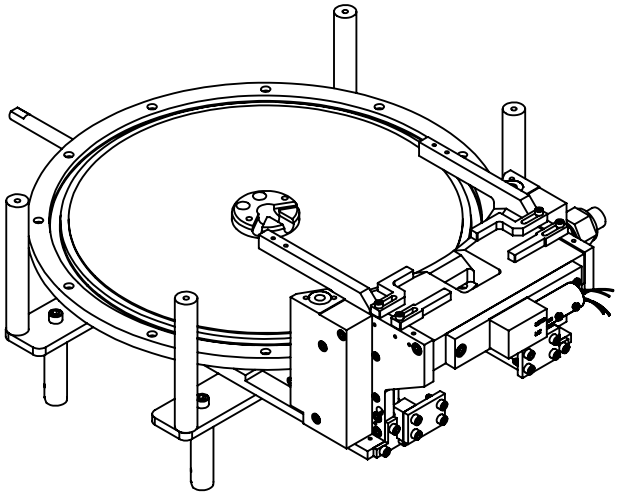


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-0650-2	WATER FITTING NUT	2
2	271-0651-2	WATER FITTING GLAND	2
3	271-2110-1	O-RING, VITON, ID 3/8", W 3/32"	2
4	271-2226-1	O-RING, VITON, ID 2", W 1/8"	1
5	271-6128-1	VENTED SCREW, #8-32 X 1/2" SST SHCS	6
6	271-6150-9	SCREW, #10-32 X 1/2" SST SHCS.	14
7	271-6190-1	VENTED SCREW, 1/4-20 X 1/2" SST SHCS	4
8	272-0125-2	COIL CONNECTOR ASSEMBLY	1
9	287-0060-2	BASE PLATE, AS	1
10	287-0088-1	MOUNTING STRAP	2
11	287-0089-1	BRACKET, EMITTER/BASE	2
12	287-0113-1	ROTATION ASSEMBLY, SIDE DRIVE (10KW)	1
13	287-0125-1	SIDE DRIVE ASSEMBLY	1
14	287-0130-6	FRONT COIL/EMITTER ASSEMBLY, AS	1
15	287-0465-2	COVER, STANDOFF	4
16	287-0465-1	STANDOFF, SOURCE	4

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY G. DION 3-14-2019 CHECK BY PROJ ENG MFG ENG	MATERIAL: SEE PARTS LIST	<div>TELEMARK</div> telemark.com	
INCHES [mm] .X +/- .03 [0.762] .XX +/- 0.01 [0.254] .XXX +/- 0.005 [0.127] ANGLES +/- .5° SURF FINISH 63 RMS		DO NOT SCALE DRAWING	FINISH:	EB SOURCE SUB ASSEMBLY, S/D, 10kW, AS	
FILE NUMBER - 287-0133-6 INITIAL PROJECT -		THIRD ANGLE PROJECTION			
CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.					
B		SCALE 7:32		DWG NO.	REV
		SHEET 1 of 1		287-0133-6	B



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	8/27/2019
990888		B	REMOVING P/N 287-0017-1 & 271-6145-1	GPD	4/14/2020



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-0650-2	WATER FITTING NUT	2
2	271-0651-2	WATER FITTING GLAND	2
3	271-2110-1	O-RING, VITON, ID 3/8", W 3/32"	2
4	271-2226-1	O-RING, VITON, ID 2", W 1/8"	1
5	271-6128-1	VENTED SCREW, #8-32 X 1/2" SST SHCS	6
6	271-6150-9	SCREW, #10-32 X 1/2" SST SHCS.	14
7	271-6190-1	VENTED SCREW, 1/4-20 X 1/2" SST SHCS	4
8	272-0125-2	COIL CONNECTOR ASSEMBLY	1
9	287-0060-4	BASE PLATE, REAR SIDE DRIVE, AS	1
10	287-0088-1	MOUNTING STRAP	2
11	287-0089-1	BRACKET, EMITTER/BASE	2
12	287-0113-1	ROTATION ASSEMBLY, SIDE DRIVE (10KW)	1
13	287-0130-6	FRONT COIL/EMITTER ASSEMBLY, AS	1
14	287-0465-2	COVER, STANDOFF	4
15	287-0465-1	STANDOFF, SOURCE	4
16	287-0125-2	REAR SIDE DRIVE ASSEMBLY	1

UNLESS OTHERWISE SPECIFIED		
GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

DWG BY	G. DION	8-27-2019
CHECK BY		
PROJ ENG		
MFG ENG		
DO NOT SCALE DRAWING		
FILE NUMBER	- 287-0133-7	
INITIAL PROJECT	-	

MATERIAL:	SEE PARTS LIST
FINISH:	
THIRD ANGLE PROJECTION	



telemark.com

**EB SOURCE SUB ASSEMBLY,
R/D, 10kW, AS**

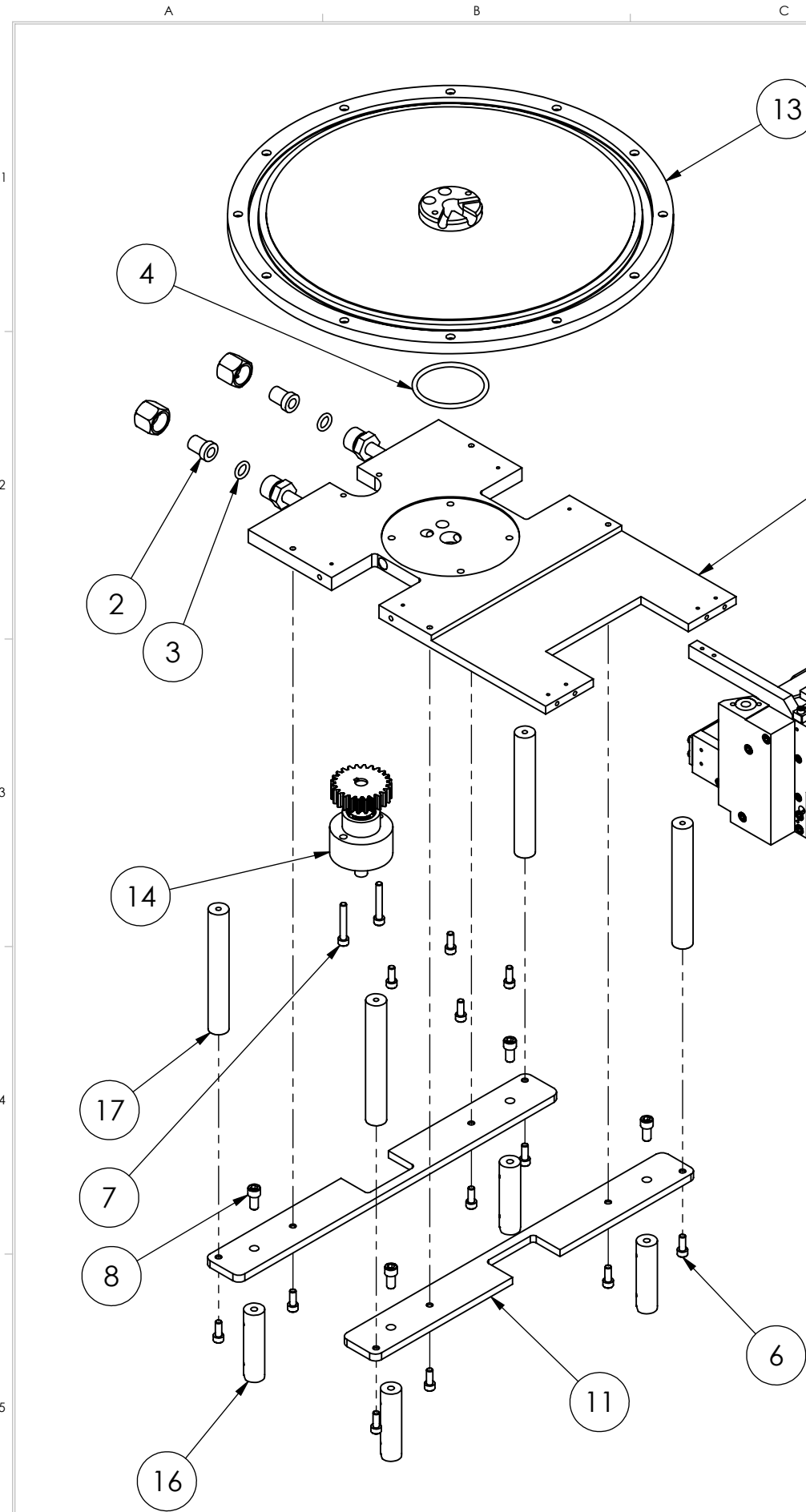
B

SCALE 7:32
SHEET 1 of 1

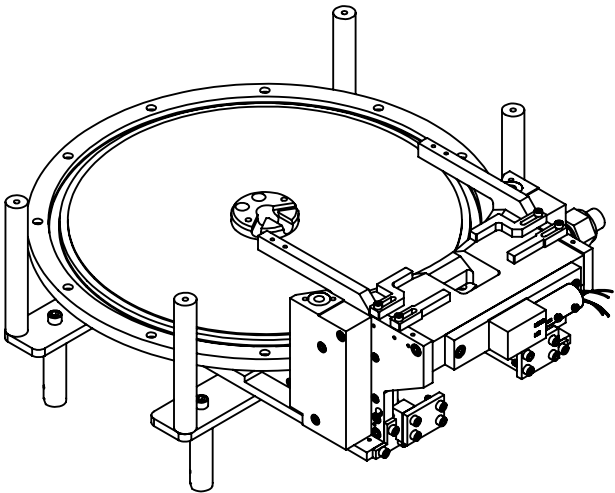
DWG NO.
287-0133-7

REV
B

CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.

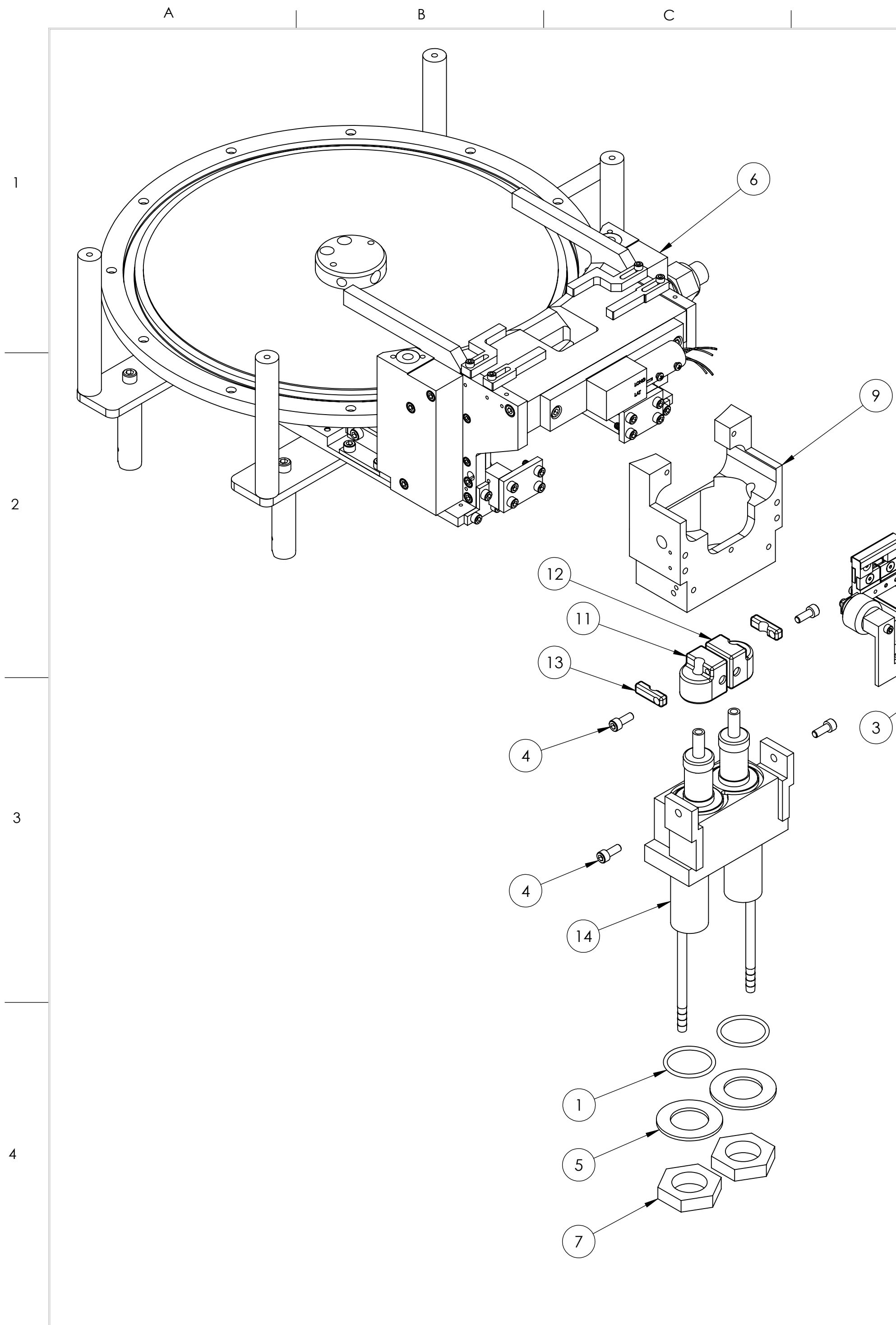


ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	3/21/2019
990888		B	REMOVING P/N 287-0017-1 & 271-6145-1	GPD	4/14/2020



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-0650-2	WATER FITTING NUT	2
2	271-0651-2	WATER FITTING GLAND	2
3	271-2110-1	O-RING, VITON, ID 3/8", W 3/32"	2
4	271-2226-1	O-RING, VITON, ID 2", W 1/8"	1
5	271-6128-1	VENTED SCREW, #8-32 X 1/2" SST SHCS	6
6	271-6150-9	SCREW, #10-32 X 1/2" SST SHCS.	12
7	271-6175-9	SCREW, #10-32 X 1/2" SST SHCS.	2
8	271-6190-1	VENTED SCREW, 1/4-20 X 1/2" SST SHCS	4
9	272-0125-2	COIL CONNECTOR ASSEMBLY	1
10	287-0060-2	BASE PLATE, AS	1
11	287-0088-1	MOUNTING STRAP	2
12	287-0089-1	BRACKET, EMITTER/BASE	2
13	287-0115-1	ROTATION ASSEMBLY, BOTTOM DRIVE (10KW)	1
14	287-0127-1	BOTTOM DRIVE ASSY.	1
15	287-0130-6	FRONT COIL/EMITTER ASSEMBLY, AS	1
16	287-0465-1	STANDOFF, SOURCE	4
17	287-0465-2	COVER, STANDOFF	4

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY G. DION 3-21-2019	MATERIAL: SEE PARTS LIST	TELEMARK telemark.com	
INCHES [mm] .X +/- .03 [0.762] .XX +/- 0.01 [0.254] .XXX +/- 0.005 [0.127] ANGLES +/- .5° SURF FINISH 63 RMS		CHECK BY PROJ ENG MFG ENG	FINISH:		
		DO NOT SCALE DRAWING	THIRD ANGLE PROJECTION	EB SOURCE SUB ASSEMBLY, B/D, 10kW, AS	
CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.		FILE NUMBER - 287-0135-6 INITIAL PROJECT -		B	SCALE 7:32 SHEET 1 of 1
				DWG NO. 287-0135-6	REV B



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	3/19/2019

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-2123-1	O-RING, VITON, ID 1-3/16", W 3/32"	2
2	271-6030-1	VENTED SCREW, #6-32 UNC X 1/4" SST SHCS	2
3	271-6050-1	VENTED SCREW, #6-32 UNC X 3/8" SHCS	1
4	271-6150-1	VENTED SCREW, #10-32 X 1/2" SHCS	4
5	275-0046-1	WASHER, 1", SST	2
6	287-0133-6	EB SOURCE SUB ASSEMBLY, S/D, 10KW, AS	1
7	291-0045-1	NUT, BRASS JAM, 1"-14	2
8	291-3003-7	ANODE (NOTE: PART OF ASSY 291-3151-4)	1
9	291-3022-1	EMITTER BLOCK, 295	1
10	291-3151-4	EMITTER ASSEMBLY, AS, 264, 269, 266, 293, 295	1
11	291-5040-1	POWER BLOCK, L.H.	1
12	291-5041-1	POWER BLOCK, R.H.	1
13	291-5042-1	POWER CLAMP	2
14	291-5190-2	DUAL HV F/T ASSEMBLY, 264/295	1

UNLESS OTHERWISE SPECIFIED
GLOBAL TOLERANCES

	INCHES	[mm]
X	+/- .03	[0.762]
.XX	+/- .01	[0.254]
.XXX	+/- .005	[0.127]

ANGLES +/- .5°
SURF FINISH 63 RMS

DWG BY: **G. DION** DATE: **3-19-2019**
CHECK BY: DATE
PROJ ENG DATE
MFG ENG DATE

DO NOT SCALE DRAWING

FILE NUMBER - 287-5175-1
INITIAL PROJECT -

MATERIAL: SEE PARTS LIST

FINISH:

THIRD ANGLE PROJECTION

TELEMARK
Battle Ground, WA

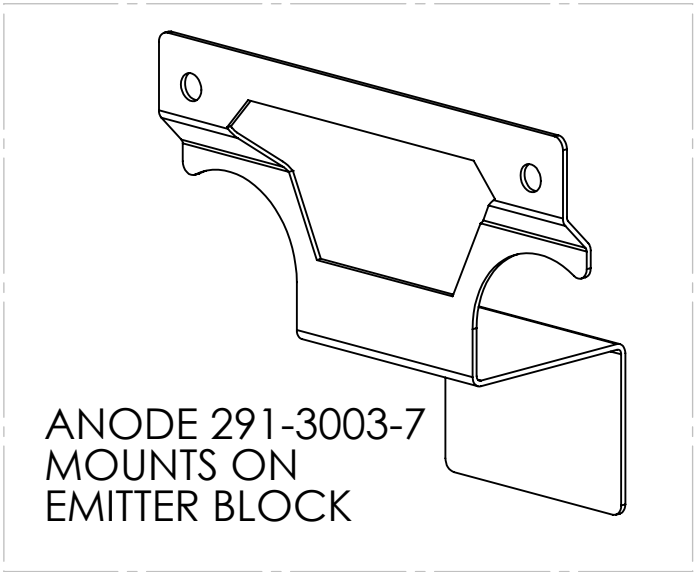
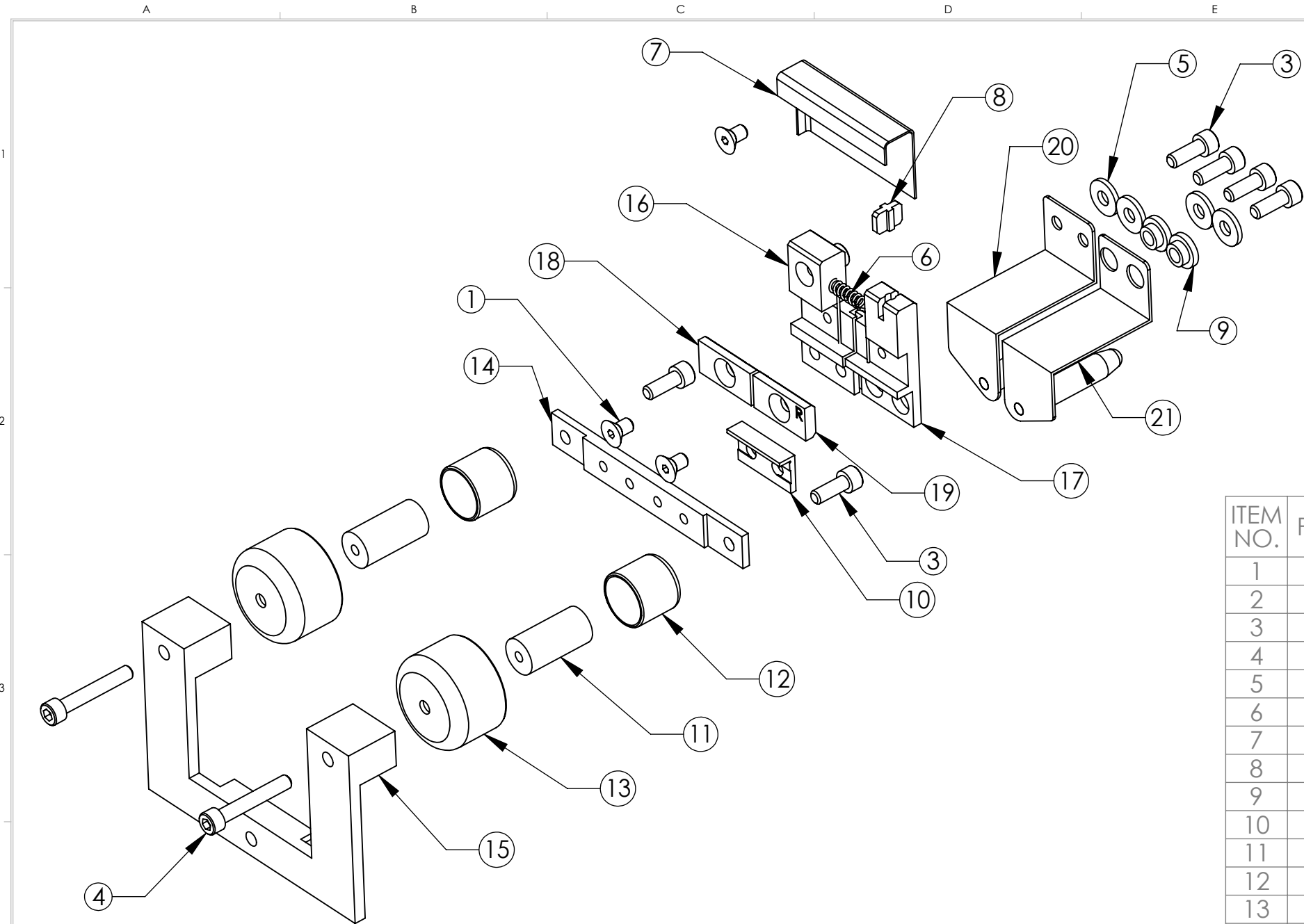
**MODEL 287 ARC
SUPPRESSION OPTION**

C SCALE 7:16
SHEET 1 of 1

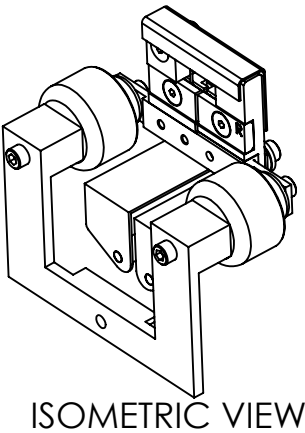
DWG NO. **287-5175-1**

REV **A**

CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	GPD	5/8/2014
		A1	REVISING MODEL NUMBERS	GPD	12/8/2014



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	271-6010-5	SCREW, #6-32 X 1/4" SLOT FLAT HEAD,TI	3
2	271-6020-5	SCREW, #6-32 X 3/16" TI SHCS	1
3	271-6050-5	SCREW, #6-32 X 3/8" SHCS,TI	6
4	271-6073-1	VENTED SCREW, #6-32 X 7/8" SST. SHCS.	2
5	271-6242-1	FLAT WASHER, #6 SST	4
6	273-0001-1	FILAMENT, 7-1/2 TURN	1
7	273-0004-2	BEAM FORMER	1
8	291-3005-1	INSULATOR, CROSS	1
9	291-3006-1	INSULATOR, COLLAR	2
10	291-3008-1	L INSULATOR	1
11	291-3010-1	HV INSULATOR	2
12	291-3011-1	HV SHIELD, AS	2
13	291-3013-1	HV SHIELD	2
14	291-3017-2	MOUNTING BRACKET, AS	1
15	291-3018-5	EMITTER SUPPORT BRACKET	1
16	291-3031-1	CATHODE BLOCK, LEFT	1
17	291-3032-1	CATHODE BLOCK, RIGHT	1
18	291-3033-3	FILAMENT CLAMP, LEFT	1
19	291-3033-4	FILAMENT CLAMP, RIGHT	1
20	291-3035-5	EMITTER BUS BAR ASSY., LEFT	1
21	291-3036-5	EMITTER BUS BAR ASSY., RIGHT	1

UNLESS OTHERWISE SPECIFIED		
GLOBAL TOLERANCES		
	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]
ANGLES +/- .5°		
SURF FINISH 63 RMS		

DWG BY	G. DION	DATE	5-8-2014
CHECK BY		DATE	
PROJ ENG		DATE	
MFG ENG		DATE	
DO NOT SCALE DRAWING			
FILE NUMBER	- 291-3151-4		
INITIAL PROJECT	-		

MATERIAL:	SEE B.O.M.
FINISH:	B.O.M.
THIRD ANGLE PROJECTION	



telemark.com

EMITTER ASSEMBLY, AS
264, 269, 266, 293, 295

B

SCALE 1:1
SHEET 1 of 1

DWG NO.
291-3151-4

REV
A1

CONFIDENTIAL. This document contains proprietary data of TELEMARK and is not to be copied or distributed without the prior written consent of TELEMARK. The receipt or possession of the document does not convey any rights to reproduce it, disclose its contents, or to manufacture, use or sell anything incorporating the concepts and details disclosed by it. Such concepts and details are not to be used other than for the benefit of TELEMARK and are not to be disclosed to others without the prior written consent of an officer of TELEMARK.