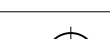


SECTION A-A

EST WEIGHT:	349234 lbs	THIS INFORMATION IS CONFIDENTIAL AND PROPRIETARY TO METSO OUTOTEC CORPORATION OR ITS SUBSIDIARIES (METSO OUTOTEC) AND IS PROTECTED BY TRADE SECRET, COPYRIGHT AND/OR OTHER LAWS. IT MAY NOT BE ACCESSSED, USED, COPIED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF METSO OUTOTEC. ALL RIGHTS RESERVED.	2
	161214 kg		
	THIRD ANGLE PROJECTION	RELEASE STATUS:	Released - VO
Fractional = 1/16 Front, Mch'd = 1/64 Angle = 1° X = .020 XX = .010 XXX = .005 √ = RMS MICRINCHES		Metso:Outotec CHECKED BY: sathish APPROVED BY: sathish DRAWN BY: JH 21-Mar-2022 21-Mar-2022 12/16/2021	
SHEET 1 OF 2 SCALE 1:24 REV 2		TITLE METSO 80 LT SHREDDER ASSEMBLY	
DRAWING NO. MM1688147		METSO MINERALS INDUSTRIES, INC TEXAS SHREDDER 11451 JONES MALL SBERGER RD. SAN ANTONIO, TEXAS 78216	

2	E0000820	CHANGED DEFLECTOR BOX	3/21/2022	JH
1	E0000809	GENERAL REVISIONS	1/27/2022	JH
0	E0000806	INITIAL RELEASE	12/16/2021	JH
NO.	ECN	REVISION	DATE	BY

8				7		6		5		4		3		2		1							
ITEM NO.	QTY.	ASSY. NO.	SUB-ASSY. PART NO.	DESCRIPTION		REMARKS		WEIGHT		ITEM NO.	QTY.	ASSY. NO.	SUB-ASSY. PART NO.	DESCRIPTION		REMARKS		WEIGHT					
F	1	1	MR0010072-000			ROTOR, POWERSHRED 80		78,279		51	1	MM1696474			LINER ARRANGEMENT		INCLUDES ITEMS 52-106		-				
	2	1	MR0004969-000			BASE ASSEMBLY		130,451		52	1		CID73080-A107	INTAKE SPREADER LINER, RH				623					
	3	1		MR0004931-000	BASE WELDMENT				85,503		53	1		CID73080-B107	INTAKE SPREADER LINER, CENTER				572				
	4	2		MR0004969-100	HINGE PIN		PARTS FOR HINGE PIN		236		54	1		CID73080-C107	INTAKE SPREADER LINER, LH				623				
	5	4		MR0004969-200	HINGE PIN RETAINER PLATE				10		55	1		CID73080-A63	LOWER SIDE LINERS		RIGHT HAND		255				
	6	8		MM0439418	HHCS, 1"-8 UNC x 2 3/4" GR 5				1		56	1		CID73080-B63	LOWER SIDE LINERS		LEFT HAND		255				
	7	8		40 100 LW	LOCK WASHER, 1"				.09		57	2		CID73080-C63	LOWER SIDE LINERS		LEFT HAND		194				
	8	2		MR0004969-300	COVER PLATE		COVER PLATE & HARDWARE		43		58	2		CID73080-D63	LOWER SIDE LINERS		RIGHT HAND		194				
	9	8		9-G71	LOCK WASHER, 5/8"				.03		59	1		CID73080-E63	LOWER SIDE LINERS		RIGHT HAND		632				
E	10	8		MM0312847	HHCS, 5/8"-11 x 2" GR 5				.3		60	1		CID73080-F63	LOWER SIDE LINERS		LEFT HAND		632				
	11	2		MR0005995-000	HOOD LOCK PIN WELDMENT		WELD CHAIN TO BASE AT ASSEMBLY		56		61	1		CID73080-0A66	UPPER SIDE LINER		RIGHT HAND		941				
	12	2		MR0004931-043	5" OD x 1/4" WALL MECH. TUBING x 6"		PLAIN PART		6		62	1		CID73080-0B66	UPPER SIDE LINER		LEFT HAND		941				
	13	6		13-B724	1/4" NPT GREASE ZERK				.03		63	1		CID73080-0C66	UPPER SIDE LINER		RIGHT HAND		602				
	14	1	MM1688148			MID-SECTION ASSEMBLY		113,179		64	1		CID73080-0D66	UPPER SIDE LINER		LEFT HAND		602					
	15	1		MM1688149-100	MID-SECTION SIDE, LH				16,231		65	1		CID73080-0E66	UPPER SIDE LINER		RIGHT HAND		875				
	16	1		MM1688149-200	MID-SECTION SIDE, RH				16,231		66	1		CID73080-0F66	UPPER SIDE LINER		LEFT HAND		875				
	17	1		MR0004972-000	MID-SECTION BACKWALL				11,926		67	1		CID73080-0G66	UPPER SIDE LINER		RIGHT HAND		1910				
	18	1		MR0003417-100	KICK-OUT DOOR LEVER ARM, RH				395		68	1		CID73080-0H66	UPPER SIDE LINER		LEFT HAND		1910				
D	19	1		MR0003417-200	KICK-OUT DOOR LEVER ARM, LH				395		69	1		CID73080-0A67	UPPER SIDE LINER		RIGHT HAND		871				
	20	1		MR0005203-000	INFEED BAFFLE WELDMENT				2,703		70	1		CID73080-0B67	UPPER SIDE LINER		LEFT HAND		871				
	21	4		A9-AB43	HHSC, 1 1/2"-6 UNC x 6 1/2" GR 5		INFEED BAFFLE HARDWARE		4.5		71	1		CID73080-0C67	UPPER SIDE LINER		RIGHT HAND		1384				
	22	4		9-J70	FLAT WASHER, 1 1/2" GR 5				.19		72	1		CID73080-0D67	UPPER SIDE LINER		LEFT HAND		1384				
	23	4		MM0378681	ESNA, 1 1/2"-6 UNC				1.68		72	1		CID73080-0E67	UPPER SIDE LINER		RIGHT HAND		1350				
	24	22		ZX11390266	HHSC, 2"-8 UNC 13 GR 5		MID-SECTION SIDE PLATE TO BACK PLATE HARDWARE		14.6		74	1		CID73080-0F67	UPPER SIDE LINER		LEFT HAND		1350				
	25	22		9-L70	FLAT WASHER, 2" GR 5				.36		75	2		CID73100-0A11	UPPER SIDE LINER		RIGHT & LEFT SIDES		706				
	26	22		MR49NU-3208	ESNA, 2"-8 UN				3.59		76	1		CID73100-00A5	REAR ROOF CASTING				7,682				
	27	4		13-B724	1/4" NPT GREASE ZERK				.03		77	1		CID73080-0A61	FRONT ROOF CASTING				8,399				
C	28	1	MM1723220		DEFLECTOR BOX ASSEMBLY				26,873		78	1		MR0005035-000	REAR WALL				6,799				
	29	1		MM1723221	DEFLECTOR BOX WELDMENT				19,804		79	1		CID07880-00A6	TOP GRATE				11,255				
	30	2	MM1688150-100			HINGE PIN		TOP SECTION HINGE PIN		35		80	1		CID78100-00A5	KICK-OUT DOOR				8,129			
	31	4	ZX11397800	COTTER PIN, Ø 1/2" x 5"						.31		81	3		CID73100-00A8	ANVIL CASTINGS				751			
	32	2	CID01252-A128	HYDRAULIC CYLINDER, 8"x54"x4 1/2"		MID-SECTION TILT				773		82	8		SAT021397-000	CASTING, MAIN LINER				280			
	33	2	CID01252-A129	HYDRAULIC CYLINDER, 6"x28"x3 1/2"		TOP SECTION				446		83	2		CID07880-00A2	SOLID GRATE				3,366			
	34	2	CID01252-A124	HYDRAULIC CYLINDER, 5"x24"x3"		KICK-OUT DOOR				315		84	1		CID07880-00A4	FILLER GRATE				5,319			
	35	2	CID73100-L45	CYLINDER CLEVIS		KICK-OUT DOOR				49		85	4		CID07880-00A1	OPEN GRATE 3 1/4" OPENING				2,362			
	36	2	CID7700-A325	HEX BOLT, 2 1/2"-8 UN x 10" GR 5		KICK-OUT LEVER ARM HARDWARE			19		86	5		CID07880-00A3	OPEN GRATE 4 1/4" OPENING				2,499				
37	4	9-N70	FLAT WASHER, 2 1/2", HIGH STRENGTH						1.25		87	10		CID73100-A158	SHIM PLATE 1/2" x 6" x 6"		USE W/ ROOF CASTING		3				
38	2	MR49NU-4008	ESNA, 2 1/2"-8 UN						7.93		88	2		CID73080-A103	SHIM PLATE 1/2" x 2" x 29"		USE W/ REAR WALL CASTING		8				
39	8	CID07700-354A	ROTOR BEARING STUD Ø3" x 26 1/2"		ROTOR BEARING STUD HARDWARE			53		89	7		CID73100-C108	TIE ROD		Ø3" x 10'-4 1/2"		249					
40	16	9-V70	FLAT WASHER, 3", HIGH STRENGTH					1.10			90	40		31_100-500	OVAL HEAD BOLT, 1"-14 UNF x 5"		BASE END PLATE LINER & DEFLECTOR BOX HARDWARE		1				
41	8	MM0400727	ESNA, Ø3"-8 UNC					11.33			91	40		40 100 S	STOVER NUT, 1"-14 UNF				.3				
42	2	CID73080-99UB	BEARING PAD WELDMENT		ROTOR BEARING		514			92	40		9-E70	FLATWASHER, 1" GR 5					.09				
B	43	4	CID73080-E99	BEARING WEDGE		ROTOR BEARING		31		93	18		CID07700-C300	OVAL HEAD BOLT, 1 1/2"-6 UNC x 9 1/2"		INTAKE SPREADER LINER HARDWARE				7			
	44	12	CID73080-G99	BEARING WEDGE STUD Ø1 1/2" x 7"		BEARING WEDGE ASSEMBLY			3		94	18		MM0378681	ESNA, 1 1/2"-6UNC			1.66					
	45	12	MM0378681	ESNA, 1 1/2"-6 UNC					1.68		95	18		9-J70	FLATWASHER, 1 1/2" GR 5			.19					
	46	12	9-J70	FLAT WASHER, 1 1/2" HARDENED					.19		96	6		MR0007096-000	OVAL HEAD BOLT, 2"-8 UN x 11 1/4"				13				
	47	8	9-AC43	HHCS, 1 1/2"-6 UNC x 7" GR 5		MID-SECTION SIDE PLATE TO TOP SECTION			4.7		97	4		CID07700-A338	OVAL HEAD BOLT, 2"-8 UN x 13" WIS				10.9				
	48	16	9-J70	FLAT WASHER, 1 1/2" HARDENED					.19		98	62		CID07700-A310	OVAL HEAD BOLT, 2"-8 UN x 13"				14				
	49	8	MM0378681	ESNA, 1 1/2"-6 UNC					1.68		99	50		CID07700-A291	2" OVAL HEAD BOLT x 14"				16				
	A	50	5	CID01126-F119	1" PIPE PLUG, SQ. HEAD		TOP SECTION PIPE COUPLING PLUG		.4		100	122		MR49NU-3208	ESNA, 2"-8 UN						3.55		
												101	122		9-L70	FLAT WASHER, 2" GR 5		ANVIL INSERT HARDWARE				.38	
										102	12		CID07700-A303	OVAL HEAD BOLT, 2 1/2"-8 UN x 20 1/2"		36							
										103	12		MR49NU-4008	ESNA, 2 1/2"-8 UN		7.87							
										104	12		9-N70	FLAT WASHER, 2 1/2" GR 5				1.25					
										105	14		9-V70	FLAT WASHER, Ø3"		TIE ROD HARDWARE		1.10					
										106	14		MM0400727	ESNA, Ø3"-8 UNC				11.26					
8				7		6		5		4		3		2		1		SOLIDWORKS D					
<div>EST WEIGHT: <div><div>- lbs</div><div>- kg</div></div></div> <div><div><div><div></div><div>THIRD ANGLE PROJECTION</div></div><div>Fractional = ±1/16 Fract. Mod'd = ±1/64 Angle = ±1° X = ±.020 XX = ±.010 XXX = ±.005 ✓ = RMS MICROINCHES</div><div><div>SHEET</div><div>2 OF 2</div><div>SCALE</div><div>1:24</div><div>REV</div><div>2</div></div><div>DRAWING NO</div><div>MM1688147</div></div><div><div><div><div>THIS INFORMATION IS CONFIDENTIAL AND PROPRIETARY TO METSO OUTOTEC CORPORATION OR ITS SUBSIDIARIES (METSO OUTOTEC) AND IS PROTECTED BY TRADE SECRET, COPYRIGHT AND/OR OTHER LAWS. IT MAY NOT BE ACCESSSED, USED, COPIED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF METSO OUTOTEC. ALL RIGHTS RESERVED.</div><div>2020</div></div><div><div>CHECKED BY: <div>asthilo</div>21-Mar-2022</div><div>APPROVED BY: <div>asthilo</div>21-Mar-2022</div><div>DRAWN BY: <div>JH</div>12/16/2021</div></div><div><div>TITLE</div><div>METSO 80 LT SHREDDER ASSEMBLY</div><div>METSO MINERALS INDUSTRIES, INC. TEXAS SHREDDER 11451 JONES MALTSBERGER RD. SAN ANTONIO, TEXAS 78216</div></div></div></div></div>																							