

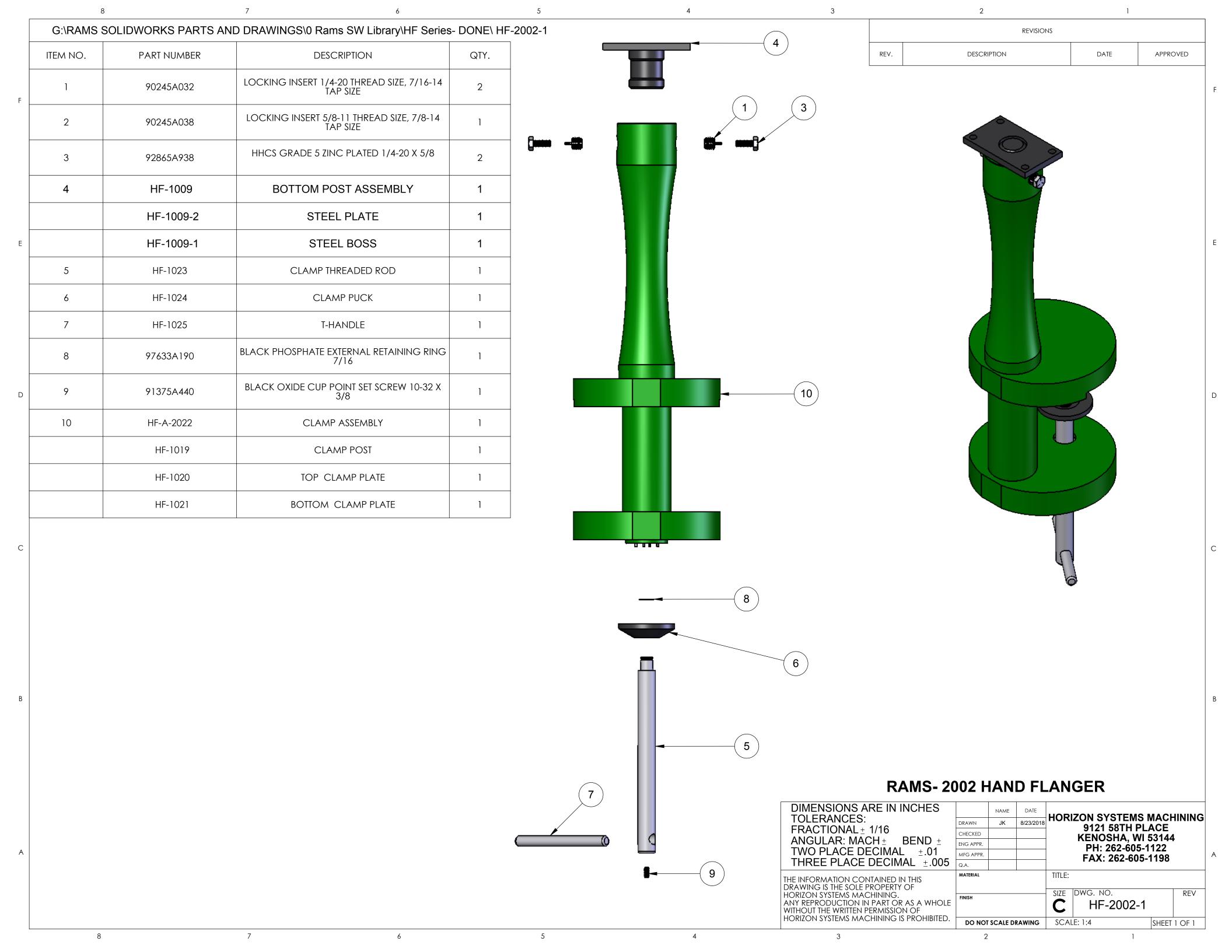
G:\RA	AMS SOLIDWORKS PAR	TS AND DRAWINGS\RAMS 2002 HAND FLANGER	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	HF-2002-1		1
	90245A032	LOCKING INSERT 1/4-20 THREAD SIZE, 7/16-14 TAP SIZE	2
	90245A038	LOCKING INSERT 5/8-11 THREAD SIZE, 7/8-14 TAP SIZE	1
	92865A938	HHCS GRADE 5 ZINC PLATED 1/4-20 X 5/8	2
	HF-1009	BOTTOM POST ASSEMBLY	1
	HF-1009-2	STEEL PLATE	1
	HF-1009-1	STEEL BOSS	1
	HF-1023	CLAMP THREADED ROD	1
	HF-1024	CLAMP PUCK	1
	HF-1025	T-HANDLE	1
	97633A190	BLACK PHOSPHATE EXTERNAL RETAINING RING 7/16	1
	91375A440	BLACK OXIDE CUP POINT SET SCREW 10-32 X 3/8	1
	HF-A-2022	CLAMP ASSEMBLY	1
	HF-1019	CLAMP POST	1
	HF-1020	TOP CLAMP PLATE	1
	HF-1021	BOTTOM CLAMP PLATE	1
2	OPERATING STICKERS	OPERATING STICKER (LABEL)	1
3	HF-2002-7		1
	HF-1007	SIDE PLATE	2
	HF-2002-3		1
	HF-1001	LOWER GEAR BLOCK	1
	B-128	BEARING: PART# B-128	2
	HF-1003	DRIVE SHAFT	1
	HF-1005	LOWER ROLLER	1
	CRBE-1019	LOWER SPUR GEAR	1
	91375A535	BLACK OXIDE CUP POINT SET SCREW 1/4-20 X 3/8	1
	98296A906	STEEL SLOTTED SPRING PIN 3/16 DIA.X 9/16 LONG	1
	PF-1009	BRASS WASHER - 1-1/4 O.D X .765 I.D X .032 THK.	1
	LC-059E-05-M	LC-059E-05-M SPRING	1
	HF-2002-4		1
	HF-1002	UPPER GEAR BLOCK	1
	B-128	BEARING: PART# B-128	2
	HF-1004	IDLER SHAFT	1
	HF-1006	UPPER ROLLER	1
		STEEL SLOTTED SPRING PIN 3/16 DIA.X 9/16 LONG	-
	98296A906		1
	CRBE-1019	LOWER SPUR GEAR	1
	91375A535	BLACK OXIDE CUP POINT SET SCREW 1/4-20 X 3/8	1
	98381A540	ALLOY STEEL DOWEL PIN 1/4 X 3/4	2
	HF-1010	BRASS PUCK	1
	HF-1008	TOP PLATE	1
	92865A537	HHCS GRADE 5 ZINC PLATED 1/4-20 X 1/2	10
	20 GA MAX	LABEL, 20 GA MAX	1

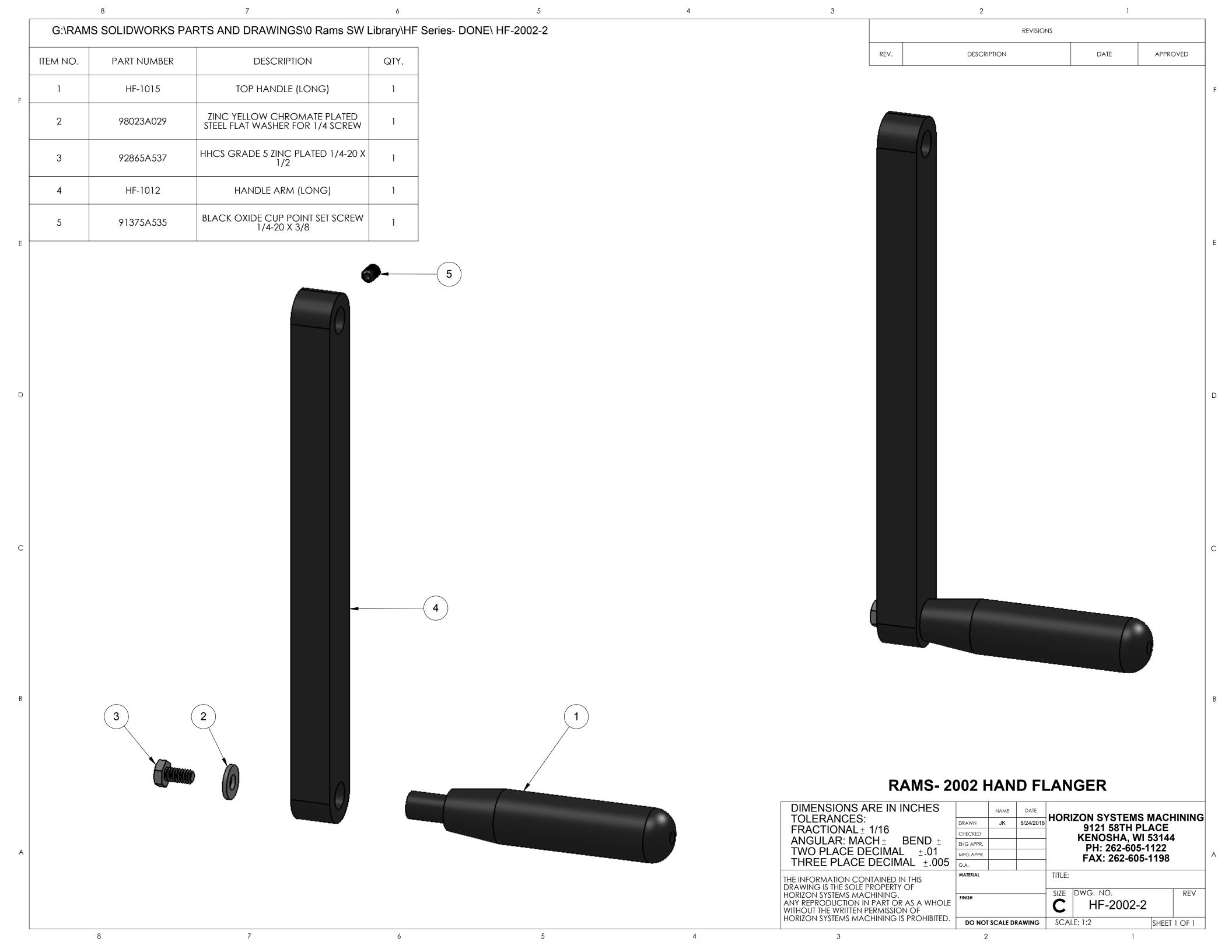
DONE\Main Assembly 2002 SW part file\ RAMS-2002

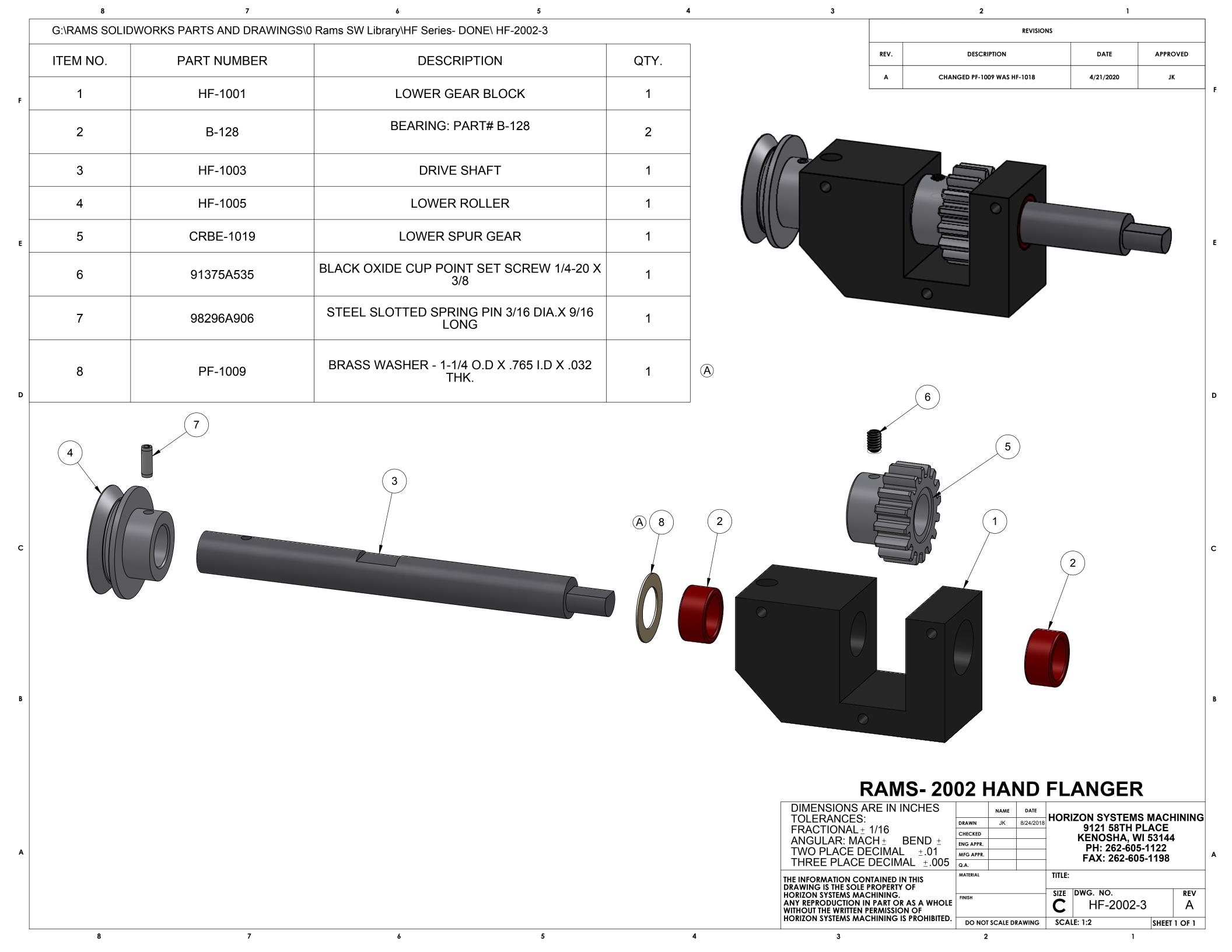
TEM NO.	PART NUMBER	DESCRIPTION	QTY.
4	92865A938	HHCS GRADE 5 ZINC PLATED 1/4-20 X 5/8	6
5	HF-2002-5		1
	HF-1013	HANDLE ARM (SHORT)	1
	91375A535	BLACK OXIDE CUP POINT SET SCREW 1/4-20 X 3/8	1
	HF-1014	TOP HANDLE (SHORT)	1
	98023A029	ZINC YELLOW CHROMATE PLATED STEEL FLAT WASHER FOR 1/4 SCREW	1
	92865A537	HHCS GRADE 5 ZINC PLATED 1/4-20 X 1/2	1
	HF-1016	1/2-13 THREADED ROD	1
6	HF-2002-2		1
	HF-1015	TOP HANDLE (LONG)	1
	98023A029	ZINC YELLOW CHROMATE PLATED STEEL FLAT WASHER FOR 1/4 SCREW	1
	92865A537	HHCS GRADE 5 ZINC PLATED 1/4-20 X 1/2	1
	HF-1012	HANDLE ARM (LONG)	1
	91375A535	BLACK OXIDE CUP POINT SET SCREW 1/4-20 X 3/8	1
7	HF-1011	GUIDE PLATE	1
8	RAMS 2002	SERIAL NUMBER TAG	1
9	Made in the USA	100% AMERICAN MADE STICKER	1

RAMS- 2002 HAND FLANGER

	DIMENSIONS ARE IN INCHES		NAME	DATE	HORIZON SYSTEMS MACHI 9121 58TH PLACE				
	TOLERANCES:	DRAWN	JK	8/23/2018					
	FRACTIONAL ± 1/16 ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ±.01	CHECKED			KENOSHA, WI 53144				
		ENG APPR.			1	4			
		MFG APPR.			1				
	THREE PLACE DECIMAL ±.005	Q.A.			FAX: 262-605-119		1130	30	
	THE INFORMATION CONTAINED IN THIS	MATERIAL		•	TITLE:				
	DRAWING IS THE SOLE PROPERTY OF					1			
	HORIZON SYSTEMS MACHINING.				SIZE DWG. NO. RAMS-200			REV	
	ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF							J	
	HORIZON SYSTEMS MACHINING IS PROHIBITED.				221	17.4.0	T		
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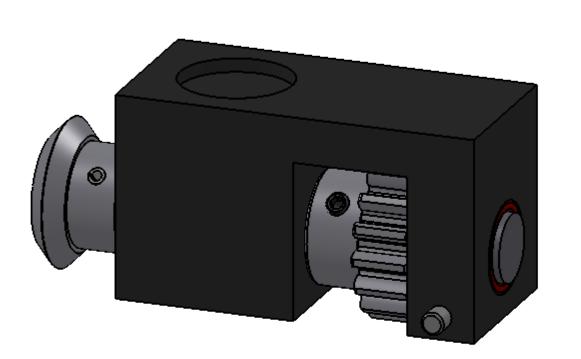






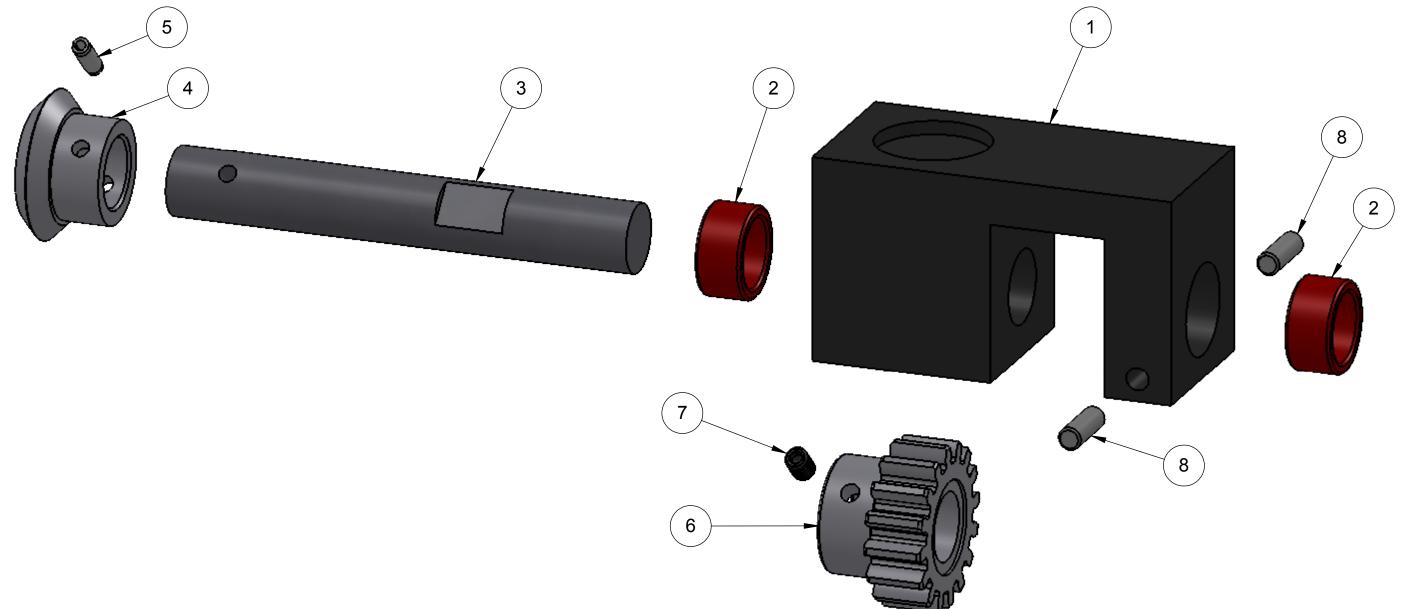
G:\RAMS SOLIDWORKS PARTS AND DRAWINGS\0 Rams SW Library\HF Series- DONE\ HF-2002-4 PART NUMBER DESCRIPTION QTY. ITEM NO. HF-1002 UPPER GEAR BLOCK B-128 BEARING: PART# B-128 2 2 HF-1004 IDLER SHAFT 3 HF-1006 UPPER ROLLER 4 5 98296A906 STEEL SLOTTED SPRING PIN 3/16 DIA.X 9/16 LONG CRBE-1019 LOWER SPUR GEAR 6 1 91375A535 7 BLACK OXIDE CUP POINT SET SCREW 1/4-20 X 3/8 ALLOY STEEL DOWEL PIN 1/4 X 3/4 98381A540 8 2

REVISIONS								
REV.	DESCRIPTION	DATE	APPROVED					



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RAMS-2002 HAND FLANGER

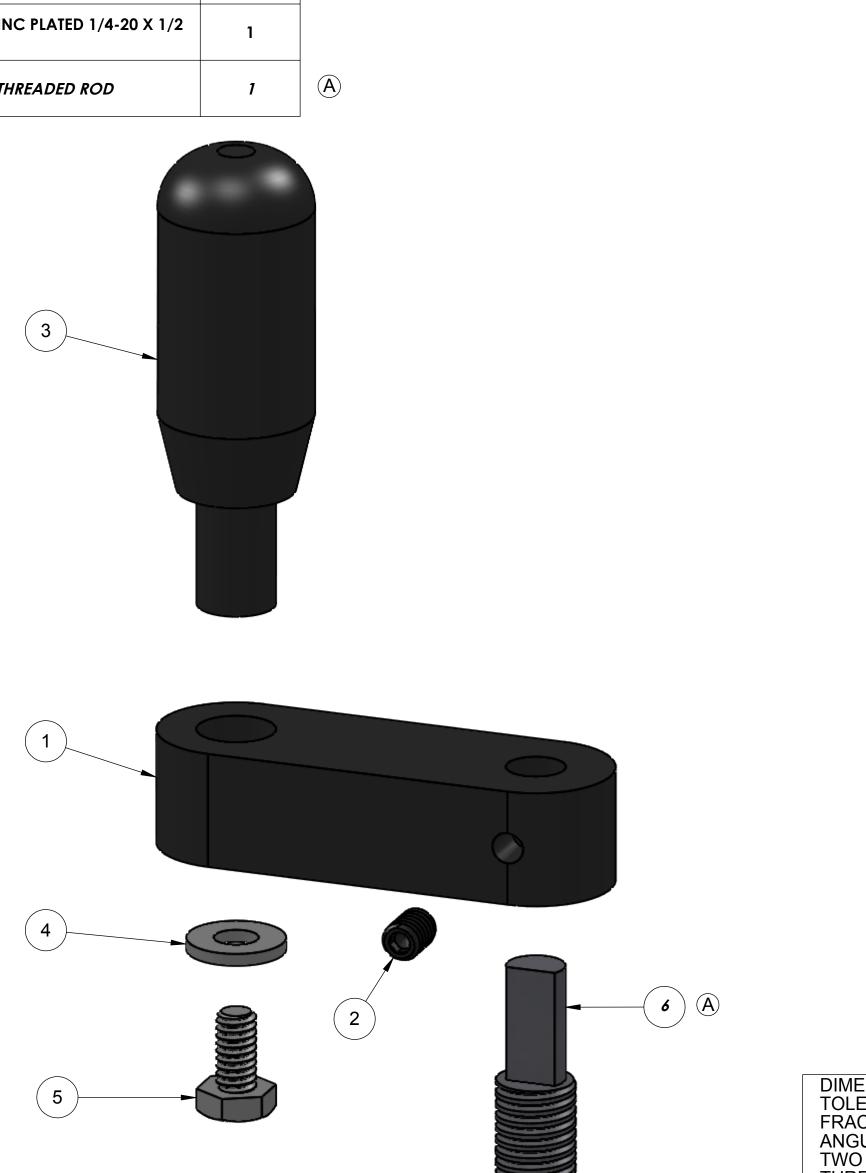
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TOLERANCES: FRACTIONAL ± 1/16		JK	8/24/2018	HORIZON SYSTEMS MACHININ 9121 58TH PLACE KENOSHA, WI 53144				
ANGULAR: MACH ± BEND ±	ENG APPR.			PH: 262-605-1		•		
TWO PLACE DECIMAL ±.01	MFG APPR.			FAX: 262-605-				
THREE PLACE DECIMAL ±.005	Q.A.			FAX. 202-003-	1130			
THE INFORMATION CONTAINED IN THIS	MATERIAL	•		TITLE:				
DRAWING IS THE SOLE PROPERTY OF				075 0775 10				
HORIZON SYSTEMS MACHINING.	FINISH			SIZE DWG. NO.		REV		
ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF				C HF-2002-4				
HORIZON SYSTEMS MACHINING IS PROHIBITED.	DO NOT SCALE DRAWING			SCALE: 1:2	SHEET	1 OF 1		
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G:\RAMS SOLIDWORKS PARTS AND DRAWINGS\0 Rams SW Library\HF Series- DONE\ HF-2002-5 ITEM NO. **PART NUMBER** DESCRIPTION QTY. HANDLE ARM (SHORT) HF-1013 BLACK OXIDE CUP POINT SET SCREW 1/4-20 X 3/8 91375A535 2 TOP HANDLE (SHORT) HF-1014 3 ZINC YELLOW CHROMATE PLATED STEEL FLAT WASHER FOR 1/4 SCREW 98023A029 HHCS GRADE 5 ZINC PLATED 1/4-20 X 1/2 92865A537 5 1/2-13 THREADED ROD HF-1016

	REVISIONS							
REV.	DESCRIPTION	DATE	APPROVED					
Α	ADDED HF-1016 THREADED ROD TO ASSEMBLY	4/20/2020	JK					

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RAMS- 2002 HAND FLANGER

	DIMENSIONS ARE IN INCHES		NAME	DATE	ЦОВ	IZON SYSTEMS I	AACL			
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	FRACTIONAL ± 1/16 ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ±.01	CHECKED				9121 58TH PLACE KENOSHA, WI 53144				
		ENG APPR.				PH: 262-605-1				
		MFG APPR.				FAX: 262-605-1122				
	THREE PLACE DECIMAL ±.005	Q.A.				1 AX. 202-005-11		. 130		
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF	MATERIAL			TITLE:					
	HORIZON SYSTEMS MACHINING.	DO NOT SCALE DRAWING			SIZE DWG. NO.			REV		
	ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF				C	HF-2002-5		Α		
	HORIZON SYSTEMS MACHINING IS PROHIBITED.				SCA	LE: 1:1	SHEET	1 OF 1		
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