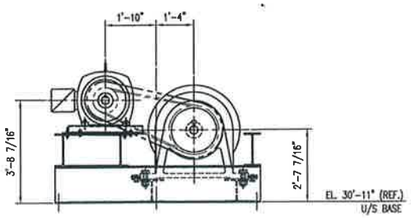
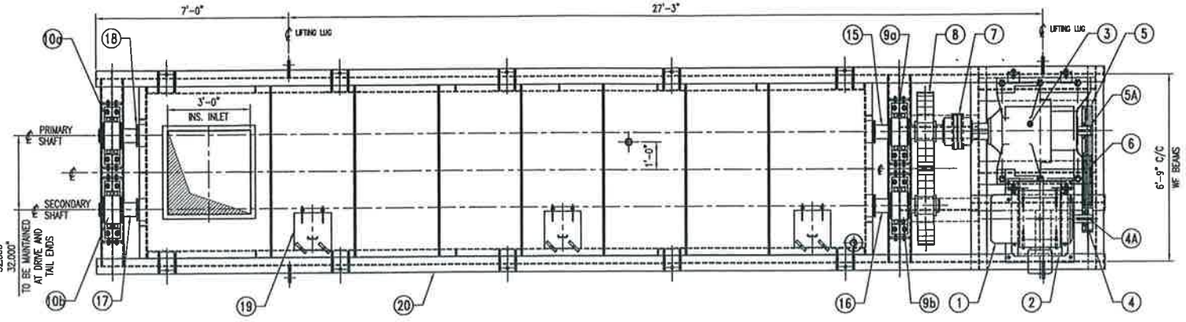
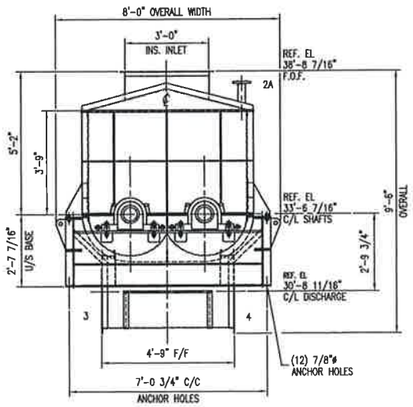
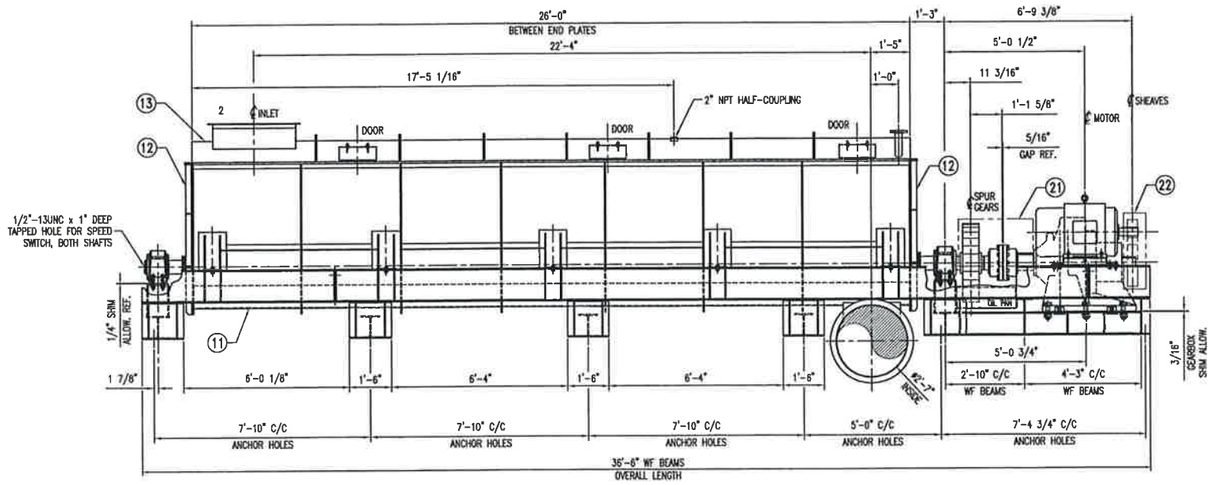
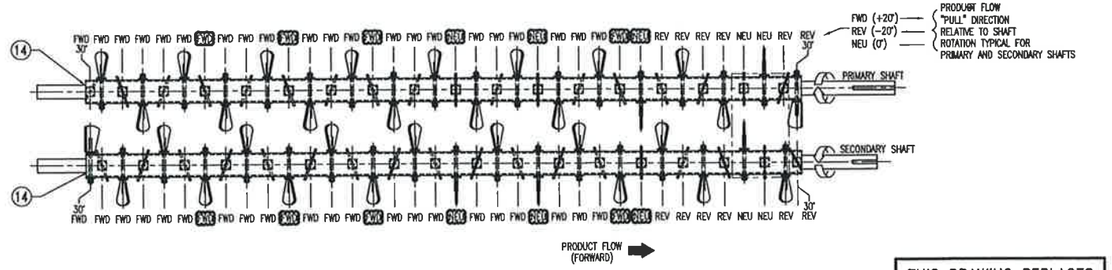


DRIVE END VIEW









PADDLE SETTING

SECONDARY SHAFT TO HAVE SAME FWD/REV/NEUT PATTERN AS PRIMARY SHAFT BUT ROTATES OPPOSITE

BILL OF MATERIAL

	ITEM	QTY	DESCRIPTION	MANUFACTURER	PART No.
*	1	1	ELECTRIC MOTOR 125 HP @ 1800 RPM, TEFC, 444T FRAME, 460V/3Ph/60Hz, 3 3/8"ø SHAFT, KEYWAY FOR 7/8" SQUARE x 6 7/8" LONG KEY, CONNECTION BOX @ 9 O'CLOCK POSITION (FACING SHAFT)	–	–
*	2	1	NEMA ADJUSTABLE SLIDE BASE FOR MOTOR FRAME 444T	–	–
*	3	1	IN LINE SM-CYCLO SPEED REDUCER, RATIO 43:1 (885 RPM TO 21 RPM) INPUT SHAFT 3 1/2"ø WITH KEYWAY FOR 7/8" SQ. x 5 7/8" LONG KEY OUTPUT SHAFT 7"ø WITH KEYWAY FOR 1 3/4" x 1 1/4" x 13" LONG KEY	SUMITOMO	CHH-6275Y-43
*	4	1	5V V-BELT 6 GROOVES QD SHEAVE, 10.9" OUT. DIA. 6/5V10.9-E TYPE A1, FOR 'E' QD BUSHING (DRIVER, 49 Lb)	DODGE	455378
*	4A	1	QD BUSHING 'E' WITH 3 3/8"ø BORE AND 7/8" x 1/16" KW (DRIVER)	DODGE	120528
*	5	1	5V V-BELT 6 GROOVES QD SHEAVE, 21.2" OUT. DIA. 6/5V21.2-F TYPE D3, FOR 'F' QD BUSHING (DRIVEN, 86 Lb)	DODGE	455387
*	5A	1	QD BUSHING 'F' WITH 3 1/2"ø BORE AND 7/8" x 3/16" KW (DRIVEN)	DODGE	120571
*	6	6	D-V WEDGE NARROW BELT 5VX1320 (40" C/C)	DODGE	107224
*	7	1	DOUBLE ENGAGEMENT GEAR COUPLING BORE ONE HALF 5.9960"ø +0.0015"/-0.0000" C/W KEYWAY FOR 1 3/4" x 1 1/4" RECT. KEY, AND ONE HALF 5.9335"ø +0.0015"/-0.0000" C/W KEYWAY FOR 1 1/2" SQUARE KEY	FALK	1050G20
*	8	2	SPUR GEAR	–	PMXT-11-10
*	9	2	HELD BEARING PILLOW BLOCK, 5 15/16" DIA., C/W GREASE FITTING AND FIXING RING	SKF	SAF22534/5-15/16
*	10	2	FLOAT BEARING PILLOW BLOCK, 5 15/16" DIA., C/W GREASE FITTING	SKF	SAF22534/5-15/16
	11	1	MIXER CASING	FABRICATOR	PMXT-11-01
	12	2	END PLATE	FABRICATOR	PMXT-11-02
	13	1	COVER PANELS	FABRICATOR	PMXT-11-03
	14	2	SHAFT AND PADDLES	FABRICATOR	PMXT-11-04
	15	1	PRIMARY GUDGEON SHAFT	FABRICATOR	PMXT-11-05
	16	1	SECONDARY GUDGEON SHAFT	FABRICATOR	PMXT-11-05
	17	2	TAIL END GUDGEON SHAFTS	FABRICATOR	PMXT-11-05
	18	4	STUFFING BOX	FABRICATOR	ML-PMXT-01-06
	19	3	INSPECTION DOOR 12" x 12"	FABRICATOR	ML-PMXT-01-07
	20	1	UNITARY BASE (FOR SUMITOMO GEARBOX)	FABRICATOR	PMXT-11-08
	21	1	SPUR GEAR AND COUPLING GUARD	FABRICATOR	PMXT-11-09
	22	1	BELT GUARD	FABRICATOR	PMXT-11-09

ITEMS IDENTIFIED WITH AN ASTERISK "*" WILL BE SUPPLIED BY BRI FOR INSTALLATION BY FABRICATOR.

NOTES

1- FABRICATOR TO MAKE FINE ALIGNMENT OF GEAR REDUCER USING MULTIPLE SHIM PLATES (1/8", 1/16", 1/32", ETC.) TO ALLOW FINAL ALIGNMENT ON SITE BY CLIENT. FABRICATOR ALSO TO SUPPLY ONE SHIM PACK FOR THAT PURPOSE.

2- MIXER END PLATES TO BE DOWELLED TO CASING BY FABRICATOR WITH 3/8"ø STAINLESS STEEL SPRING PINS.

3- DO NOT BOLT TWO HALVES OF SHAFT COUPLING DURING SHIPPING.

4- FABRICATOR TO STENCIL PAINT THE FOLLOWING NOTES ON COUPLING GUARD :

IMPORTANT NOTES PRIOR TO STARTUP
- END USER TO GREASE SPUR GEAR AND COUPLING.
- TWO HALVES OF COUPLING TO BE TIGHTENED TOGETHER.
- GEAR REDUCER TO BE DOWELLED TO BASE WITH 3/8"ø SPRING PINS AFTER FINAL ALIGNMENT OF SHAFTS.
- GEAR REDUCER TO BE FILLED WITH OIL AS PER OPERATING MANUAL.
- CHECK BELT TIGHTNESS.

5- ENSURE KEY WAY ON SHAFTS TO BE IN THE UPWARD POSITION PRIOR TO INSTALLING SPUR GEARS.

6- FABRICATOR TO SUPPLY ALL NECESSARY FASTENERS FOR THE WHOLE ASSEMBLY.

7- FABRICATOR TO CAP ALL OPENED FLANGES WITH 3/8" THK ASPENITE.

8- FABRICATOR TO REFER TO PMXT-001 SPECS AND FTS-001 SPEC FOR FABRICATION.

9- SHAFTS ROTATION SPEED : 21 RPM.

DRAWINGS NEEDED FOR FABRICATION

2409-PMXT-11-00	ML-PMXT-01-01
PGR175-PMXT-11-01	ML-PMXT-01-06
PGR175-PMXT-11-02	ML-PMXT-01-07
PGR175-PMXT-11-03	
PGR175-PMXT-11-04	
PGR175-PMXT-11-05	
PGR175-PMXT-11-06	
PGR175-PMXT-11-09	
PGR175-PMXT-11-10	

THIS TABLE TO BE FILLED BY FABRICATOR AND GIVEN TO BRI INSPECTION OR PROJECT ENGINEER PRIOR TO RELEASE FOR SHIPMENT

MOUNTING OF SPHERICAL ROLLER BEARINGS

ITEM CODE		RADIAL INTERNAL CLEARANCE UNMOUNTED MIN. 0.0055"	RADIAL INTERNAL CLEARANCE UNMOUNTED MAX. 0.0079"	REDUCTION IN RADIAL INTERNAL CLEARANCE MIN. 0.0031"	REDUCTION IN RADIAL INTERNAL CLEARANCE MAX. 0.0043"	MINIMUM PERMISSIBLE RESIDUAL CLEARANCE "NORMAL" 0.0024
9a	MEASURED					
9b	MEASURED					
10a	MEASURED					
10b	MEASURED					

ESTIMATED WEIGHTS

LOAD TYPE	DEFINITION	CALCULATION DATA	SUB-TOTAL Ans	TOTAL LBS
DEAD LOAD:	EQUIPMENT EMPTY	XXXXXX		(1) = 24,000
LIVE LOAD:	NORMAL OPERATION	DENS XXX LB/FT3 VOL 460 FT3	=LOAD XXXXXX LBS (2)	(1+2)= XXXXXXX
EMERGENCY:	UPSET CONDITION	DENS XXX LB/FT3 VOL 640 FT3	=LOAD XXXXXX LBS (3)	(1+3)= XXXXXX
FACTORS:	WIND,SEISM,etc	XXXXXX	XXXXXX (4)	(3+4)= XXXXXX

THIS DRAWING REPLACES PGR175-PMXT-11-00

68" WIDE x 26'-0" LONG LOW WALL DOUBLE PADDLE MIXER – 125 HP GENERAL ARRANGEMENT

REV.	BY	DATE	CHECKED	APPROVED
H				
G				
F				
E				
D				
C				
B				

ISSUE CODE: 1 FOR INFORMATION, 2 FOR APPROVAL, 3 CERTIFIED, 4 FOR QUOTATION, 5 FOR FABRICATION
RECEIVER CODE: 1 CLIENT, 2 FABRICATOR, 3 EDT VENDOR, 4 CONSULTANT, 5 INTERNAL
ISSUE HISTORY

Barr-Rosin Inc
Process Engineering Division
A company of mg technologies group

SCALE	3/8" = 1'-0"	1 : 32
DRAWN	MM	2007.SEP.07
CHECKED	EJR	2007.NOV.26
APPROVED	YMG	2007.NOV.26
DWG NO		REV
2409-PMXT-11-00		A

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