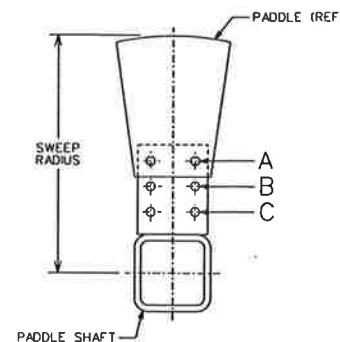
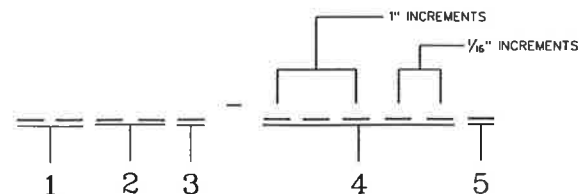


UTILITY PADDLE MIXER/UNLOADER PART NUMBER

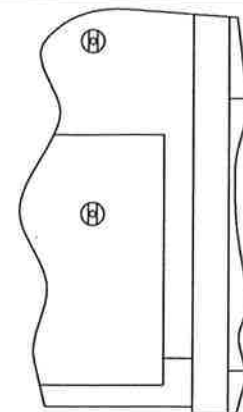
INCLUDES BASIC PADDLE MIXER/UNLOADER 5-6100-69-XXXXX-X

5-6100-71-

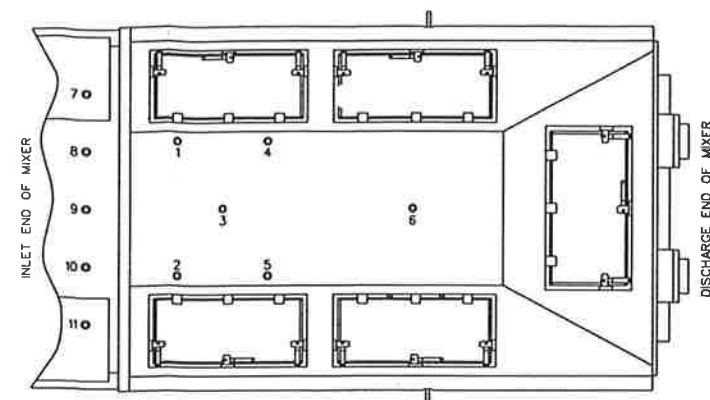
OPTION CODE FROM TABLE: →



PADDLE MOUNTING POSITION



SPRAY NOZZLE ORIENTATION FOR NOZZLES 7 THRU 11



NOZZLE CONFIGURATION DIAGRAM

TABLE 1 MOTOR AND DRIVE SPROCKET SELECTION

OPTION CODE	MOTOR SPEC. PART NO.	DRIVE SPROCKET PART NO.	MOTOR DATA				ENCLOSURE
			HORSE POWER	VOLTAGE	HZ	NEMA DESIGN LETTER	
K 01 OBSOLETE	353739	1-36302-40	40	230/460	60	B	TEFC
K 02 OBSOLETE	354190	1-36302-40	40	460	60	B	TEFC-XT
K 03 OBSOLETE	354198	1-36302-40	40	575	60	B	TEFC
04	353620	1-36302-40	50	230/460	60	B	TEFC
05	354292	1-36302-40	50	460	60	B	TEFC-XT
06	354412	1-36302-40	50	575	60	B	TEFC-SD
07	354293	1-36302-40	50	460	60	C	TEFC-XEX
K 08 OBSOLETE	354301	1-36302-40	40	460	60	C	TEFC-XT
K 09 OBSOLETE	354302	1-36302-40	40	230/460	60	C	TEFC
10	354314	1-36302-41	50	400	50	B	TEFC
11	354335	1-36302-40	50	460	60	B	TEFC-XT
K 12 OBSOLETE	354366	1-36302-40	40	460	60	B	TEFC-XT W/120V SPACE HEATER
13	354406	1-36302-40	50	230/460	60	C	TEFC-SD
14	354292-1	1-36302-40	50	460	60	B	TEFC-XT
15	353620-1	1-36302-40	50	230/460	60	B	TEFC W/120V SPACE HEATER

TABLE 2 PADDLE AND APRON SELECTION

OPTION CODE	PADDLE ASSEMBLY PART NUMBER AND QTY	PADDLE MOUNTING POSITION	SWEEP RADIUS	MIXER VOLUMETRIC CAPACITY	PADDLE MATERIAL	APRON PART NUMBER
01	SK-6100-23-1 (36) SK-6100-23-2 (2)	A	18 1/2"	16,000 CFH	AR 500	3-6100-72-1
02		B	16 1/2"	13,000 CFH		3-6100-72-2
03		C	14 1/2"	11,000 CFH		3-6100-72-3
04	SK-6100-24-3 (36) SK-6100-24-2 (2)	A	18 1/2"	16,000 CFH	CARBON STEEL WITH CERAMIC TILES	3-6100-72-1
05		B	16 1/2"	13,000 CFH		3-6100-72-2
06		C	14 1/2"	11,000 CFH		3-6100-72-3
07	SK-6100-25-3 (36) SK-6100-25-2 (2)	A	18 1/2"	16,000 CFH	T I V A R	3-6100-72-1
08		B	16 1/2"	13,000 CFH		3-6100-72-2
09		C	14 1/2"	11,000 CFH		3-6100-72-3
10	SK-6100-68-1 (36) SK-6100-27-2 (2)	A	18 1/2"	16,000 CFH	T I V A R WITH STEEL INSERT AND WEAR TIP	3-6100-72-1
11		B	16 1/2"	13,000 CFH		3-6100-72-2
12		C	14 1/2"	11,000 CFH		3-6100-72-3
13	SK-6100-50-1 (36) SK-6100-50-2 (1) SK-6100-50-3 (1)	A	18 1/2"	16,000 CFH	AR 500, T I V A R CLAD	3-6100-72-1
14		B	16 1/2"	13,000 CFH		3-6100-72-2
15		C	14 1/2"	11,000 CFH		3-6100-72-3
16	SK-6100-81-1 (36) SK-6100-81-2 (2)	A	18 1/2"	16,000 CFH	DURITE "H"	3-6100-72-1
17		B	16 1/2"	13,000 CFH		3-6100-72-2
18		C	14 1/2"	11,000 CFH		3-6100-72-3

TABLE 3 NOZZLE SELECTION
(REFER TO NOZZLE CONFIGURATION DIAGRAM)

OPTION CODE	WATER FLOW Cv VALUE AND NOZZLE MATERIAL	NOZZLE	REDUCING BUSHING	USED WITH BODY SELECTIONS TABLE 5
1	372 GPM @ 30PSIG Cv = 68 316 STAINLESS STEEL USED WITH WITH BODY SELECTIONS 1 THRU 6 (TABLE 5)	POSITION 1 THRU 5 (5) 403123-1 POSITION 6 (1) 403123-12		
2	372 GPM @ 30PSIG Cv = 68 BRASS USED WITH WITH BODY SELECTIONS 1 THRU 6 (TABLE 5)	POSITION 1 THRU 5 (5) 403123-15 POSITION 6 (1) 403123-8		
3	162 GPM @ 30PSIG Cv = 29.5 316 STAINLESS STEEL USED WITH WITH BODY SELECTIONS 1 THRU 6 (TABLE 5)	POSITION 1 THRU 5 (5) 403123-13 POSITION 6 (1) 403123-14	POSITION 1 THRU 5 (5) 176145-010004-4	
4	162 GPM @ 30PSIG Cv = 29.5 BRASS	POSITION 1 THRU 5 (5) 403123-9 POSITION 6 (1) 403123-10	POSITION 1 THRU 5 (5) 177031-11	1 THRU 6
5	260 GPM @ 30PSIG Cv = 47.5 316 STAINLESS STEEL	POSITION 1 THRU 3 (3) 403123-1 POSITION 4 AND 5 (2) 403123-19 POSITION 6 (1) 403123-21	POSITION 4 THRU 6 (3) 176145-010004-4	
6	260 GPM @ 30PSIG Cv = 47.5 BRASS USED WITH WITH BODY SELECTIONS 1 THRU 6 (TABLE 5)	POSITION 1 THRU 3 (3) 403123-15 POSITION 4 AND 5 (2) 403123-23 POSITION 6 (1) 403123-24	POSITION 4 THRU 6 (3) 177031-11	
7	150 GPM @ 30PSIG Cv = 27.4 BRASS	POSITION 1 THRU 3 (3) 403039-1 POSITION 4 AND 5 (2) 403123-25 POSITION 6 (1) 17732-6 (PLUG) POSITION 7 THRU 11 (5) 403044-33	POSITION 1 THRU 3 (3) 177031-10 POSITION 4 THRU 5 (2) 177031-24 POSITION 7 THRU 11 (5) 177031-11	7 THRU 12

TABLE 4 DIMENSION A

TABLE 5 MIXER BODY LINING AND WASHOUT HEADER SELECTION

OPTION CODE	DESCRIPTION
1	EPOXY PAINTED BODY, EPOXY PAINTED SHAFTS, AND WITH WASHOUT HEADERS
2	EPOXY PAINTED BODY, TIVAR CLAD SHAFTS, AND WITH WASHOUT HEADERS
3	TIVAR LINED BODY, TIVAR CLAD SHAFTS, AND WITH WASHOUT HEADERS
4	EPOXY PAINTED BODY, EPOXY PAINTED SHAFTS, AND WITHOUT WASHOUT HEADERS
5	EPOXY PAINTED BODY, TIVAR CLAD SHAFTS, AND WITHOUT WASHOUT HEADERS
6	TIVAR LINED BODY, TIVAR CLAD SHAFTS, AND WITHOUT WASHOUT HEADERS
7	EPOXY PAINTED BODY, EPOXY PAINTED SHAFTS, AND WITH WASHOUT HEADERS FOR LIGNITE ASH
8	EPOXY PAINTED BODY, TIVAR CLAD SHAFTS, AND WITH WASHOUT HEADERS FOR LIGNITE ASH
9	TIVAR LINED BODY, TIVAR CLAD SHAFTS, AND WITH WASHOUT HEADERS FOR LIGNITE ASH
10	EPOXY PAINTED BODY, EPOXY PAINTED SHAFTS, AND WITHOUT WASHOUT HEADERS FOR LIGNITE ASH
11	EPOXY PAINTED BODY, TIVAR CLAD SHAFTS, AND WITHOUT WASHOUT HEADERS FOR LIGNITE ASH
12	TIVAR LINED BODY, TIVAR CLAD SHAFTS, AND WITHOUT WASHOUT HEADERS FOR LIGNITE ASH

APPLICATION NOTES:

1.1 - DISTANCE OF ASH INLET FROM CENTER OF ASH DISCHARGE DEFINES THE INLET LOCATION ONLY. THE LOCATION OF THE ASH DISCHARGE IS FIXED. THE RANGE OF THE DIMENSIONS MAY BE LIMITED DEPENDING ON MOUNTING LOCATION AND ORIENTATION OF ASH FEED VALVE.

1.2 - NEMA B DESIGN MOTORS ARE "STANDARD START TORQUE"; NEMA C DESIGN MOTORS ARE "HIGH START TORQUE".

P/N AND BILL OF MATERIAL:

2.1 - CREATE P/N FOR COMPLETE MIXER BY SPECIFYING SUFFIXES TO BASE NUMBER 5-6100-71.

K 2.2 - BILL OF MATERIAL CONSISTS OF BASIC MIXER 5-6100-69-XXXXX-X AND PARTS DEFINED IN THE ITEM SELECTION TABLES ABOVE. INCLUDE APPROPRIATE MIXER MODEL IDENTIFICATION LABEL: (2) P/N 3-409169-8 FOR 50 HP MIXER.

2.3 - CREATE BASIC MIXER P/N AS FOLLOWS:

DIMENSION A AND BODY STYLE MUST BE THE SAME AS GIVEN IN P/N 5-6100-71-XXXXX-XXXXX

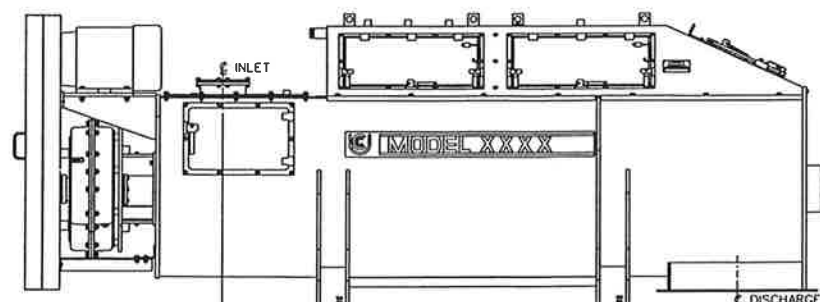
5-6100-69-

DIMENSION A

BODY LINING AND WASHOUT HEADER SELECTION

MAINTENANCE NOTES:

3.1 - ● INDICATES ITEMS RECOMMENDED FOR SPARE PARTS.



DIMENSION A
STANDARD DIMENSION = 126 3/16"
MAXIMUM DIMENSION = 126 3/16"
MINIMUM DIMENSION = 106 3/16"
MINIMUM DIMENSION FOR LIGNITE ASH CONFIGURATION = 112 3/16"

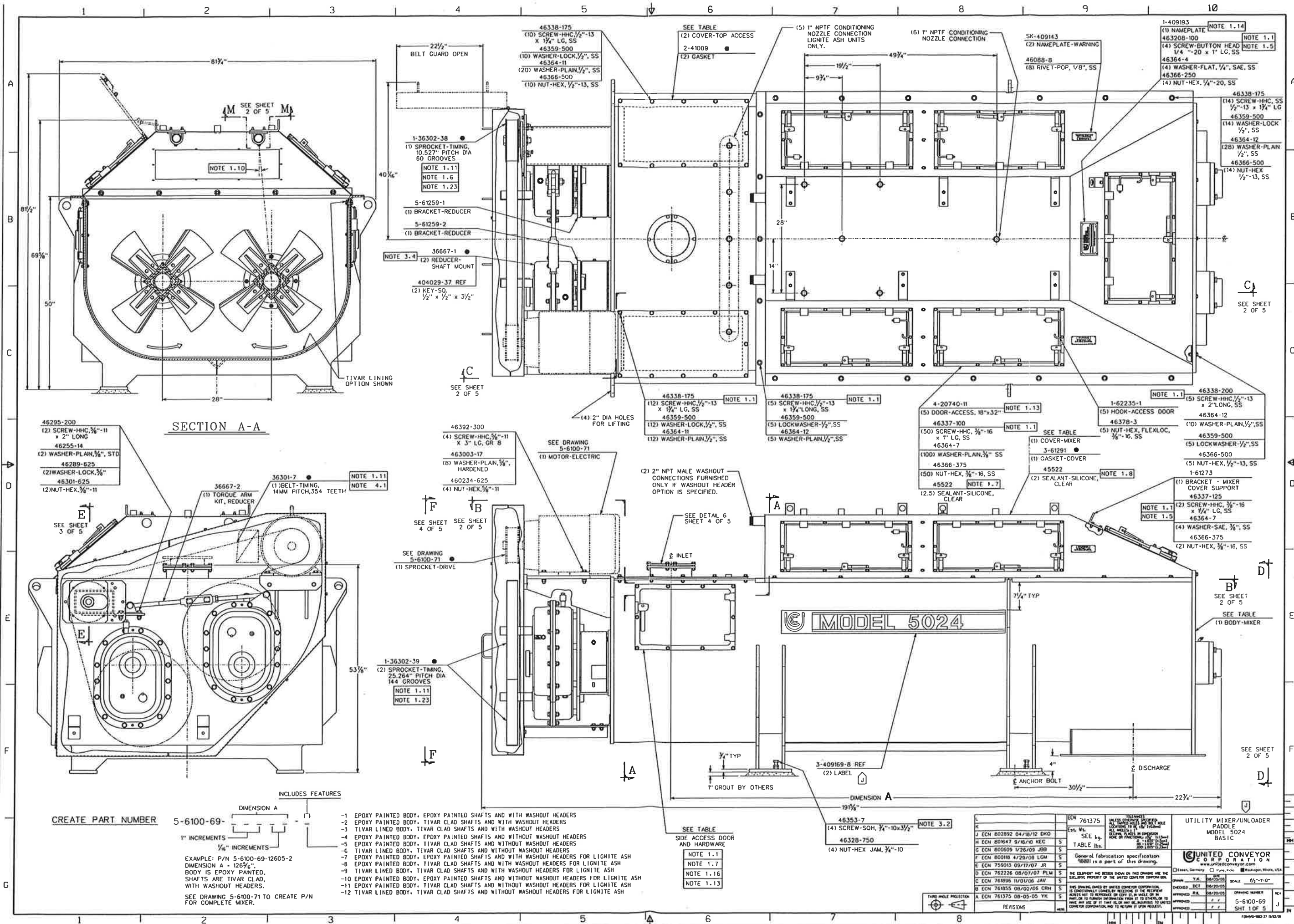
NOTE 1.1

ESTIMATED WEIGHT	
SUFFIX NUMBER FROM BODY LINING AND WASHOUT HEADER SELECTION TABLE 5	POUNDS
1, 4, 7, AND 10	10295
2, 5, 8, AND 11	10320
3, 6, 9, AND 12	10590

ECH 802892 04/18/12 DMO	ECH 761375
J ECH 801647 8/31/10 REC S	SEE kg.
H ECH 801380 4/15/10 REC S	TABLE lbs.
G ECH 801117 11/20/09 PLM S	
F ECH 800159 6/18/08 REC S	
E ECH 762392 01-21-08 YK S	
D ECH 762226 08/15/07 PLM S	
C ECH 761555 05/21/07 PLM S	
B ECH 761859 09-08-06 YK S	
A ECH 761375 08-14-05 YK S	

REVISIONS	
1	08/15/07
2	08/22/07
3	08/22/07
4	08/22/07
5	08/22/07
6	08/22/07
7	08/22/07
8	08/22/07
9	08/22/07
10	08/22/07
11	08/22/07
12	08/22/07

ORDERING INSTRUCTIONS UTILITY MIXER/UNLOADER PADDLE MODEL 5024	UNITED CONVEYOR CORPORATION
General Fabrication Specification 98081 is a part of this drawing.	www.unitedconveyor.com
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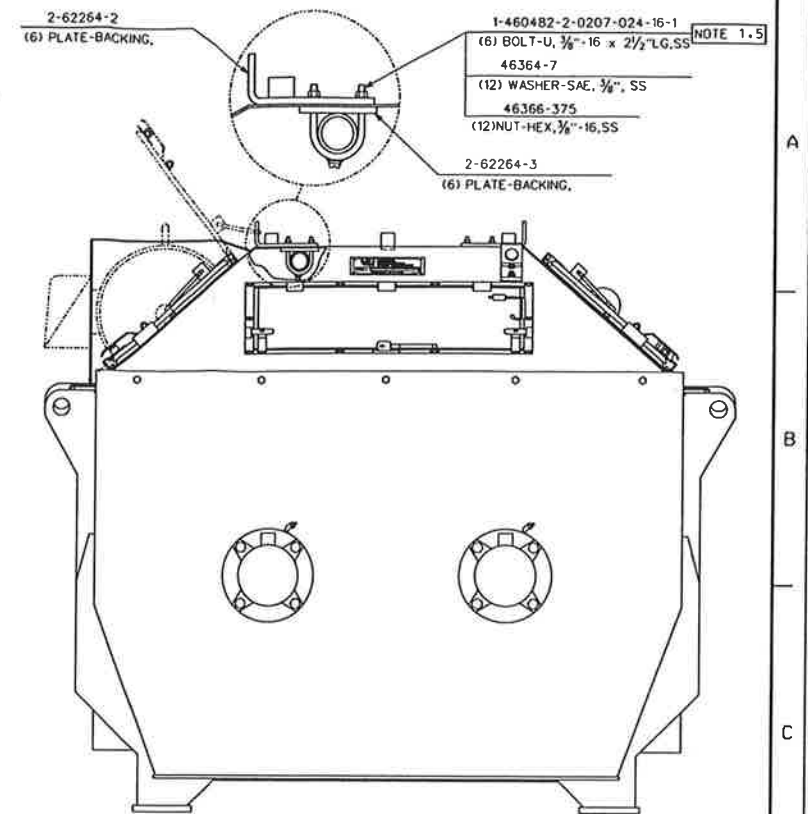
SECTION A-A

CREATE PART NUMBER 5-6100-69-

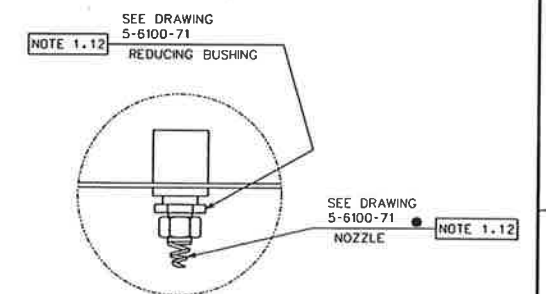
EXAMPLE: P/N 5-6100-69-12605-2
DIMENSION A = 126 5/16"
BODY IS EPOXY PAINTED,
SHAFTS ARE TIVAR CLAD,
WITH WASHOUT HEADERS.

- 1 EPOXY PAINTED BODY, EPOXY PAINTED SHAFTS AND WITH WASHOUT HEADERS
- 2 EPOXY PAINTED BODY, TIVAR CLAD SHAFTS AND WITH WASHOUT HEADERS
- 3 TIVAR LINED BODY, TIVAR CLAD SHAFTS AND WITH WASHOUT HEADERS
- 4 EPOXY PAINTED BODY, EPOXY PAINTED SHAFTS AND WITHOUT WASHOUT HEADERS
- 5 EPOXY PAINTED BODY, TIVAR CLAD SHAFTS AND WITHOUT WASHOUT HEADERS
- 6 TIVAR LINED BODY, TIVAR CLAD SHAFTS AND WITHOUT WASHOUT HEADERS
- 7 EPOXY PAINTED BODY, EPOXY PAINTED SHAFTS AND WITH WASHOUT HEADERS FOR LIGNITE ASH
- 8 EPOXY PAINTED BODY, TIVAR CLAD SHAFTS AND WITH WASHOUT HEADERS FOR LIGNITE ASH
- 9 TIVAR LINED BODY, TIVAR CLAD SHAFTS AND WITH WASHOUT HEADERS FOR LIGNITE ASH
- 10 EPOXY PAINTED BODY, EPOXY PAINTED SHAFTS AND WITHOUT WASHOUT HEADERS FOR LIGNITE ASH
- 11 EPOXY PAINTED BODY, TIVAR CLAD SHAFTS AND WITHOUT WASHOUT HEADERS FOR LIGNITE ASH
- 12 TIVAR LINED BODY, TIVAR CLAD SHAFTS AND WITHOUT WASHOUT HEADERS FOR LIGNITE ASH

REVISIONS		UTILTY MIXER/UNLOADER PADDLE MODEL 5024 BASIC	
REV	DATE	BY	CHK
1	08/02/05	YK	YK
2	08/02/05	YK	YK
3	08/02/05	YK	YK
4	08/02/05	YK	YK
5	08/02/05	YK	YK
6	08/02/05	YK	YK
7	08/02/05	YK	YK
8	08/02/05	YK	YK
9	08/02/05	YK	YK
10	08/02/05	YK	YK
11	08/02/05	YK	YK
12	08/02/05	YK	YK
13	08/02/05	YK	YK
14	08/02/05	YK	YK
15	08/02/05	YK	YK
16	08/02/05	YK	YK
17	08/02/05	YK	YK
18	08/02/05	YK	YK
19	08/02/05	YK	YK
20	08/02/05	YK	YK



VIEW D-D



SECTION M-M

NOZZLE ORIENTATION
SCALE: NONE

NOTE 1.22



SEE DRAWING
5-6100-71

(1) APRON ASSEMBLY

NOTE 1.1 46337-100
46337-100
(6) SCREW-HEX, $\frac{7}{8}$ "-16
x 1" LG, SS
46364-7
(12) WASHER-PLAIN, $\frac{7}{8}$ " SS
46366-375
(6) NUT-HEX, $\frac{7}{8}$ "-16, SS
45522

NOTE 1.5 (3) SEALANT-SILICONE,
CLEAR

L	ECN	761375	UTILITY MIXER/UNLOADER
M	EST WL	SEE kg.	PADDLE
K	TABLE lbs.	General fabrication specification 90881 is a part of this drawing.	MODEL 5024
J			BASIC
I			
H			
G			
F			
E			
D			
C			
B			
A			

UNLESS SPECIFIED OTHERWISE, ALL DIMENSIONS AND TOLERANCES SHALL BE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.

General fabrication specification 90881 is a part of this drawing.

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DATE: 08/22/2003
DRAWN BY: J.M.
CHECKED BY: J.M.
APPROVED BY: J.M.
DATE: 08/22/2003

SCALE: 1/2"=1'-0"

DRAWING NUMBER: 5-6100-69

SHEET 2 OF 5

REVISED: 08/22/2003