UTILITY PADDLE MIXER/UNLOADER PART NUMBER

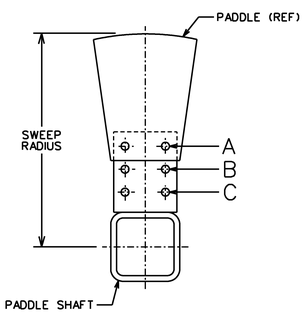
INCLUDES BASIC PADDLE MIXER/UNLOADER 5-6100-69-XXXXX-X

5-6100-71- _ _ _ - _ _ _ _ _

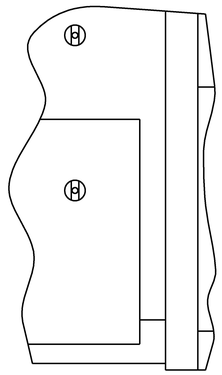
1" INCREMENTS

1/16" INCREMENTS

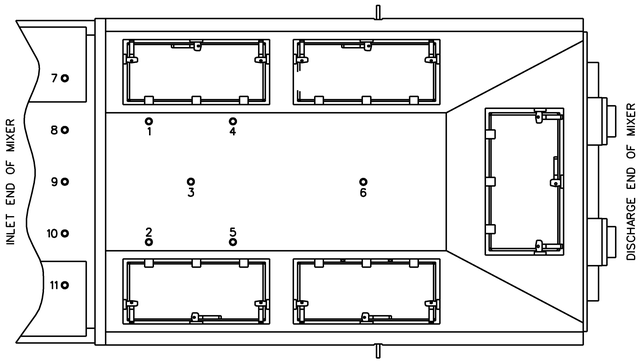
OPTION CODE FROM TABLE: → 1 2 3 4 5



PADDLE MOUNTING POSITION



SPRAY NOZZLE ORIENTATION FOR NOZZLES 7 THRU 11



NOZZLE CONFIGURATION DIAGRAM

NOTE 1.2

TABLE 1

MOTOR AND DRIVE SPROCKET SELECTION

OPTION CODE	MOTOR SPEC. PART NO.	DRIVE SPROCKET PART NO.	MOTOR DATA				
			HORSE POWER	VOLTAGE	HZ	NEMA DESIGN LETTER	ENCLOSURE
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	18½"	16,000 CFH	AR 500	3-6100-72-1
02		B	16½"	13,000 CFH		3-6100-72-2
03		C	14½"	11,000 CFH		3-6100-72-3
04	SK-6100-24-3 (36) ● SK-6100-24-2 (2)	A	18½"	16,000 CFH	CARBON STEEL WITH CERAMIC TILES	3-6100-72-1
05		B	16½"	13,000 CFH		3-6100-72-2
06		C	14½"	11,000 CFH		3-6100-72-3
07	SK-6100-25-3 (36) ● SK-6100-25-2 (2)	A	18½"	16,000 CFH	T I V A R	3-6100-72-1
08		B	16½"	13,000 CFH		3-6100-72-2
09		C	14½"	11,000 CFH		3-6100-72-3
10	SK-6100-68-1 (36) ● SK-6100-27-2 (2)	A	18½"	16,000 CFH	TIVAR WITH STEEL INSERT AND WEAR TIP	3-6100-72-1
11		B	16½"	13,000 CFH		3-6100-72-2
12		C	14½"	11,000 CFH		3-6100-72-3
13	SK-6100-50-1 (36) SK-6100-50-2 (1) ● SK-6100-50-3 (1)	A	18½"	16,000 CFH	AR 500, TIVAR CLAD	3-6100-72-1
14		B	16½"	13,000 CFH		3-6100-72-2
15		C	14½"	11,000 CFH		3-6100-72-3
16	SK-6100-81-1 (36) ● SK-6100-81-2 (2)	A	18½"	16,000 CFH	DURITE "H"	3-6100-72-1
17		B	16½"	13,000 CFH		3-6100-72-2
18		C	14½"	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		1 THRU 6
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	
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

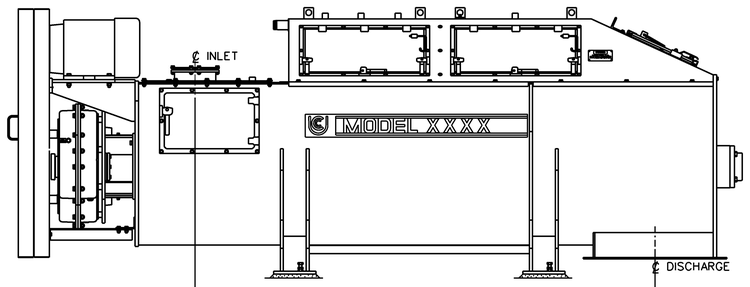
TABLE 4

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



NOTE 1.1

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-XXXXXX

5-6100-69- _ _ _ _ _ - _ _

DIMENSION A

BODY LINING AND WASHOUT HEADER SELECTION

MAINTENANCE NOTES:

3.1 - ● INDICATES ITEMS RECOMMENDED FOR SPARE PARTS.

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

REVISIONS		
L		
K ECN 802892 04/18/12 DKO		
J ECN 801647 8/31/10 KEC	S	
H ECN 801380 4/15/10 KEC	S	
G ECN 801117 11/20/09 PLM	S	
F ECN 800159 6/18/08 KEC	S	
E ECN 762392 01-21-08 YK	S	
D ECN 762226 08/15/07 PLM	S	
C ECN 762155 05/21/07 PLM	S	
B ECN 761899 09-08-06 YK	S	
A ECN 761375 08-14-05 YK	S	

ECN 761375 | Est. Wt. SEE kg. TABLE lbs.

TOLERANCES UNLESS OTHERWISE SPECIFIED: ALL TAPPED HOLES AND DRILL HOLE LOCATIONS TO BE ±1/16" (±0.8mm). ALL ANGLES ±1°. DECIMAL PLACES IN DIMENSION: NONE OR FRACTIONAL ±1/64" (±1.5mm); .0 ±.030" (±1.5mm); .00 ±.010" (±0.25mm); .000 ±.005" (±0.13mm)

General fabrication specification 98001 is a part of this drawing.

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ORDERING INSTRUCTIONS
UTILITY MIXER/UNLOADER
PADDLE
MODEL 5024

UNITED CONVEYOR CORPORATION
www.unitedconveyor.com
☐ Essen, Germany ☐ Pune, India ■ Waukegan, Illinois, USA

		DATE	SCALE
DRAWN	Y.K.	08/14/05	NONE
CHECKED	DCT	08/20/05	
APPROVED	R.JL	08/20/05	
APPROVED		/ /	
APPROVED		/ /	

DRAWING NUMBER 5-6100-71 | REV K

THIRD ANGLE PROJECTION

FORM3RD-1082-27 11/02/18