

## CAPE INDUSTRIES

## SCREW CONVEYOR DATA SHEET

R E F	1	PLANT: CAPE IND.	JOB NO.: 27-108	EQUIP NAME: PTA DRYER DISCHARGE CONVEYOR	
	2	AREA: UNGROUND STOR.	NO. UNITS: 1	EQUIP NO: H-4075R VPF NO:	
	3	ACCOUNT: 4032	ORDER NO.:	REFERENCE DWG. NO: 4032-53014-2	
	4	VENDOR:	VENDOR'S NO.:		
	5	BY: A. BEAMER	CHECKED:	<i>LWC 5-13-87</i> APPROVED:	DATE: 1-8-87
M A T	6	MATERIAL TO BE CONVEYED: TEREPHTHALIC ACID (PTA)		MAX TEMP.: 250 F	
	7	BULK DENSITY: 55 LBS/CU FT	ANGLE OF REPOSE: 39 DEG	MOISTURE CONTENT: .1 %	
	8	SIZE DISTRIBUTION: SEE REMARKS			
	9	MATERIAL IS <input checked="" type="checkbox"/> FREEFLOWING <input type="checkbox"/> BRIDGES <input type="checkbox"/> PACKS <input type="checkbox"/> STICKY <input type="checkbox"/> ABRASIVE <input type="checkbox"/> CORROSIVE <input type="checkbox"/> HYGROSCOPIC <input type="checkbox"/> FLAMMABLE			
	10	PARTICLE SHAPE:			
G E N E R A L	11	OTHER:			
	12	TYPE OF SCREW: HELICOIDAL, DOUBLE FLIGHT		TYPE OF TROUGH: TUBULAR	
	14	AVERAGE CAPACITY LB/HR: 60000	PEAK CAPACITY LB/HR: 80000	TROUGH LOADING: 45	%
	15	LOADING IS <input checked="" type="checkbox"/> CONTINUOUS <input type="checkbox"/> INTERMITTENT	OPERATES: 24 HRS/ DAY	CONTROLLED FEED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
	16	INSTALLATION <input type="checkbox"/> INSIDE <input checked="" type="checkbox"/> OUTSIDE			
C O M P O N E N T S	17	SPECIAL CONDITIONS: THE CONVEYOR WILL OPERATE ON A 15 DEGREE INCLINE			
	18				
	19				
	20	SIZE OF SCREW: 12 IN	PITCH: 12 IN	<input type="checkbox"/> SPECIAL SEE REMARKS	THICKNESS: 3/16" MIN
	21	FLIGHTS WELDED <input type="checkbox"/> ONE SIDE <input checked="" type="checkbox"/> BOTH SIDES	<input checked="" type="checkbox"/> CONTINUOUS <input type="checkbox"/> INTERMITTENT	SPEED: 57 RPM	
D I V E & C O N T R O L S	22	INLET CHUTE <input checked="" type="checkbox"/> BY VENDOR <input type="checkbox"/> BY OTHERS	MATL: 304 STAINLESS STEEL		
	23	DISCHARGE CHUTE: <input checked="" type="checkbox"/> BY VENDOR <input type="checkbox"/> BY OTHERS	MATL: 304 STAINLESS STEEL		
	24	DISCHARGE GATE TYPE: NONE	MATL:		
	25	TROUGH COVER TYPE: TUBULAR	THICKNESS: 12 GA	GASKET: 1/8" WHITE NEOPRENE	
	26	TROUGH ENDS TYPE: PEDESTAL	THICKNESS: 1/4" PL.	SEALS: LANTERN RING TYPE WITH PACKING	
R E M A R K S	27	BEARINGS - TYPE: BALL BEARING PILLOW BLOCK, SEAL MASTER 2" SELF ALIGNING	THRUST:		
	28	HANGERS - TYPE: NONE	BEARINGS:		
	29	SUPPORTS <input checked="" type="checkbox"/> BY VENDOR <input type="checkbox"/> BY OTHERS	MATL: CARBON STEEL		
	30	PAINTING CAPE INDUSTRIES STANDARD NO.: 11CS-661 FOR CARBON STEEL, STAINLESS STEEL UNPAINTED			
	31	MOTOR: 7.5 HP	SPEED: 1750 RPM	VOLTS: 480	PH: 3 FREQ: 60 HZ
R E M A R K S	32	FRAME: ENCLOSURE: EXPL. PROOF	DUTY <input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> SEVERE	SERVICE FACTOR: 1.0	ENERGY EFF. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	33	HAZARD CLASSIFICATION - CLASS: II	GROUP: 6	DIVISION: 2	
	34	ELECTRICAL STARTER AND PUSHBUTTON STATION <input type="checkbox"/> BY VENDOR <input checked="" type="checkbox"/> BY OTHERS			
	35	ELECTRICAL REMOTE CONTROL REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	TYPE:		
	36	LOCATION <input type="checkbox"/> INLET <input type="checkbox"/> DISCHARGE			
R E M A R K S	37	SPEED REDUCER - TYPE: SHAFT MOUNTED GEAR REDUCER	SERVICE FACTOR:	RATIO: 25:1	
	38	SPROCKETS - DRIVER: NONE	IN DIA	NO. OF TEETH:	MATL:
	39	DRIVEN: NONE	IN DIA	NO. OF TEETH:	MATL:
	40	CHAIN - STYLE: NONE	LENGTH		
	41	BELT PULLEY - DRIVER: 4.8	IN DIA	TYPE:	
R E M A R K S	42	DRIVEN: 6.0	IN DIA	TYPE:	
	43	BELTS - NO.: 2	TYPE: V-BELT	LENGTH	
	44	BACKSTOP - TYPE: NONE	DRIVE GUARD - TYPE: SHEET METAL, SUPPLIED BY VENDOR		
	45	FOR DIMENSION AND CONFIGURATION SEE DRAWING OR SKETCH NO.: 4032-53014-2			
	46	MATERIAL SIZE DISTRIBUTION: +10 MESH 0 - .4 % ; 10-20 MESH 6 - 11 % ; 20-40 MESH 26 - 41 % ; 40-60 MESH 23 - 30 % ;			
R E M A R K S	47	60-80 MESH 9 - 10 % ; 80-100 MESH 3 - 5 % ; -100 MESH 1 - 10 %			
	48	VENDOR TO SUPPLY SLIDING BASES WHERE NEEDED TO ALLOW EQUIPMENT TO MOVE IN RESPONSE TO EXPANSION FORCES			
	49	STUFFING BOXES SHALL BE DESIGNED TO LEAK INWARD - CONSISTING OF ONE RING OF PACKING, THE LANTERN RING PURGE CONNECTION, TWO MORE			
	50	RINGS OF PACKING, AND THE GLAND.			
	51	EQUIPMENT SHALL BE CONSTRUCTED OF 304 STAINLESS STEEL WHERE IN CONTACT WITH PROCESS MATERIAL AND DESIGNED TO HOLD A PRESSURE OF			
R E M A R K S	52	2 PSIG. EQUIPMENT TO BE SHOP ASSEMBLED, MATCH MARKED, AND CRATED BEFORE SHIPMENT.			
	53	UNIT TO BE EQUIPPED WITH A ROTOGUARD MODEL 5X-1 MOTION SWITCH (EXPLOSION PROOF)			
	54	FLANGED CONNECTION REQUIRED IN TROUGH.			
	55	REMOVABLE, BOLTED SHROUD REQUIRED IN THE INLET HOPPER. SHROUD TO LEAVE TWO PITCHES OF FLIGHT EXPOSED.			
	56	FLIGHT SHAFT TO BE 3" SCH 40 PIPE BUSHED TO ACCEPT 2" DIA DRIVE SHAFT			
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60					