SUPPLIED BY CUSTOMER

(100) INDUCTION MOTOR 450HP@1800 RPM (1750 F.L.S.) 1.15 S.F. FRAME 5011LL

(101) MOTOR PLATE, STARTER AND WIRING

(102) CLEAN WATER SUPPLY WITH CHECK VALVE, FLOW METER AND NEEDLE VALVE FOR PACKING SEAL WATER. 0.50 NPT (1.3 GPM @ 45PSI)

(103) ALL FOUNDATIONS, ERECTION AND ASSEMBLY

(104) ALL STEEL REINFORCED CONCRETE SUPPORTS FOR TANK AND DRIVE COMPONENTS

(105) ALL PIPING.(PIPING MUST BE SUPPORTED TO PREVENT EXTERNAL LOADS ON EQUIPMENT)

(106) ALL SAFETY GUARDS, SPLASH GUARDS, NOZZLES OR SHOWERS NOT SHOWN

(107) CLEARANCE TO ALLOW INSTALLATION AND REMOVAL OF PULPER AND ROTOR BLADE FROM TANK

(108) ASSEMBLY AND FINAL WELDING OF TANK NALWES (INTERIOR WELDS TO HAVE 0.125 MAXIMUM BEAD PROJECTION) DO NOT GRIND

(109) FINAL ASSEMBLY OF WEAR PLATE AND STUFFING BOX TO TANK.

(110) MINIMUM 6.50PM OF CLEAN COOLING WATER AT 20 DEGREES C (68 DEGREES F) FOR OIL COOLER. 0.75 NPT

(111) CLEAN WATER SUPPLY WITH CHECK VALVE AND NEEDLE VALVE FOR FLUSHING LEVEL WATR. 0.50 NPT (0.25 GPM @ 45 PSI)

(112) 1.38 DIA. ANCHOR BOLTS (QTY 48) TO PROJECT 3.00" ABOVE GROUTING

(113) INDUCTION MOTOR FSMP@1200 RPM (1160 F.L.S.). 1.15 S.F. FRAME 4067

(114) MOTOR STARTER AND WIRING

(115) CLEAN WATER SUPPLY WITH CHECK VALVE, FLOW METER AND NEEDLE

(116) AUTOMATIC SHUT-OFF VALVE FOR CMS-20 INLET 20.00"

(117) VALVE FOR PACKING SEAL WATER 0.38 NPT. (5 TO 15 GPM @ 15 PSI) AUTOMATIC SHUT-OFF VALVE FOR CMS-20 REJECTS OUTLET 20.00"

(118) AUTOMATIC SHUT-OFF VALVE FOR ACCEPTS PUMP DISCHARGE _____"

(119) AUTOMATIC SHUT-OFF VALVES FOR PRE AND AFTER DILUTION WATER 6.00"

(120) ALL INSTRUMENTATION AND CONTROL (SEE D23-400010)

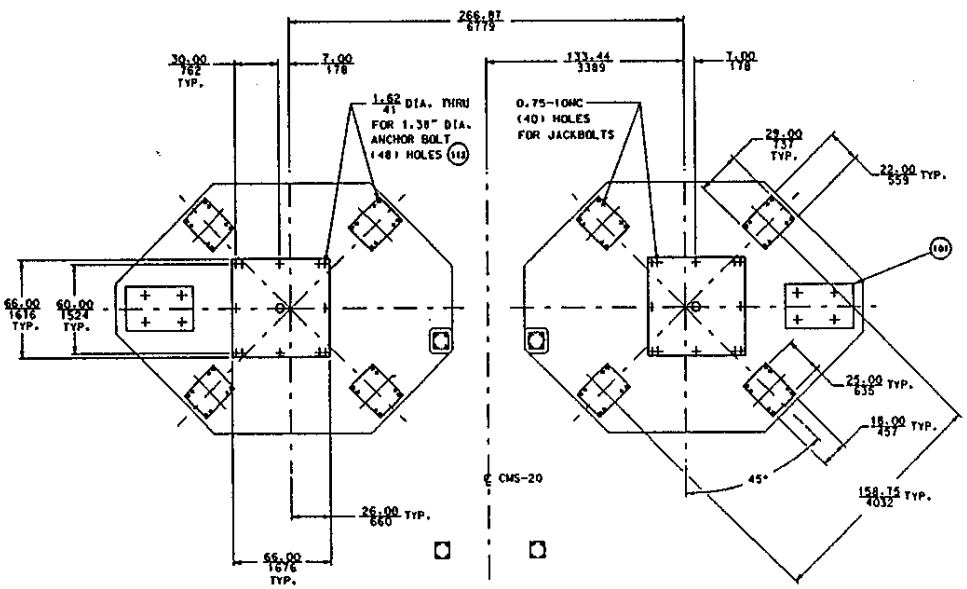
(121) STRUCTURAL STEEL SUPPORT FRAME TO SUPPORT THE CMS-20 CONTAINMEX (FRAME MUST BE DESIGNED TO ACCOMODATE CONTAINMEX DISASSEMBLY CLEARANCE)

SUPPLIED BY VOITH INC.

BUBBLE#	ITEM #	DESCRIPTION	QTY.	DRAWING#
1/60	109161	NOR FALL 214722-5 11.35011 RATIO HP (197@1600RPM W/HD-18 SHAFT	2	
1/90	115776	BASE GEAR HD-18 A36	4	D23-101011
1/91	118177	SOLEPLATE A36 HR HD-18	2	D23-101012
1/92	115778	SHIM GEARBASE .25 THK. 1018 CF	4	C23-714007
1/93	115782	CAP SCR HH GR5 1.50-6X3.5	24	
1/96	117436	CAP SCR HH GR5 1.75-5X4.00 LG.	16	
1/100	115791	CPLG FALL TORUS 1120WA21	2	
1/300	112063	TOOL SET HD-18	1	
3	109173	CONTAINMEX CMS20	1	
3/1	109143	ASSY CMS20 W/6MM SCREEN PLATE	1	
3/76	114451	SHV SGRV SV 50.00 OD OD	1	
3/77	106073	SHV SGRV SV 9.75 OD OD	1	
3/78	112067	BSHG OD J TYPE 65 MM DIA. SHAFT	1	
3/79	104779	BSHG OD E TYPE 2.875 DIA. SHAFT	1	
3/80	114454	BELT POWER BAND 5/5V12000	1	
3/92	115786	ASSY BELT GUARD CMS20	1	

SUPPLIED BY VOITH INC.

BUBBLE#	ITEM #	DESCRIPTION	QTY.	DRAWING#
1	112082	ASSY HD-18 PULPER	2	D23-100014
1/1	112085 112086	TANK "B4" TYPE 316L W/A36 RIBS 636 CU FT (18 CU M) HD-18	1 1	D23-103017 D23-103018
1/2	112088	ADPTR TANK 316 RING HD-18	2	D23-112006
1/3	115787	FOOT TANK	8	D23-101014
1/4	115788	LEG SUPPORT	6	D23-104008
1/5	101514	CAP SCR HH GR5 1.25-7X5.00 LG	32	
1/6	108827	NUT HEX GR5 1.25-7	32	
1/7	103723	WSHR FL 1.25	32	
1/8	112089	BOX STFG 316 PULPER HD-18	2	
1/9	112090	O-RING 18.88 I.D. X .38	2	
1/10	113141	CAP SCR HH GR5 1.00-8X4.50 LG.	24	
1/11	104167	WSHR FL 1.0 1.06 IDX2.0 ODX.14	24	
1/20	112091	BLADE ROTOR HD-18 316	2	D23-306008
1/21	112092	ROTOR HD-18 316 W/WEAR STRIPS	2	D23-326006
1/22	116341	CAP SCR SCH 17-4 1.50-6X2.75	12	
1/23	112093	PL RTNR ROTOR A36 HR HD-18	2	C23-314006
1/24	100441	CAP SCR HH GR5 0.75-10X4.00 LG	4	
1/25	112094	PL COVER ROTOR 316L HD-18	2	C23-302006
1/26	115789	GSKT COVER ROTOR HD-18	2	C23-709003
1/27	704393	CAP SCR HH 316 0.75-10X1.50 LG	12	
1/28	112095	PL WEAR TANK HD-18 316L	2	D23-184006
1/29	109023	CAP SCR HH 17-4 .75-10X1.5	48	
1/30	112096	RETAINER RING PKG 316L HD-18	2	D23-213006
1/31	112097	SLEEVE PACKING HD-18	2	D23-312008
1/32	700984	PIN DOWEL 304 .25X1.0	6	
1/33	115780	CAP SCR SCH 316 .50-13X3.0	4	
1/34	112098	FOLR GLAND SPLIT HD-18	2	D23-[illegible]
1/35	106641	PACKING HD-18 PULPER SNOWS-GET	2	
1/36	112100	RING LANTERN BRZ HD-18	2	C23-[illegible]
1/37	115781	STUD GR5 0.75-10X6.00 LG	12	
1/38	100163	WASHER FLAT 0.75	12	
1/39	100008	NUT HEX GR5 0.75-10	34	
1/43	701172	WASHER FLAT 304 .75	48	
1/44	102652	CAP SCR HH GR5 1.25-7X3.0	2	



FOUNDATION PLAN

INSTALLATION NOTES

A. ESTIMATED HD-18 WEIGHT NOT INCLUDING MOTOR: 60000 LBS. (LOAD ALLOWANCE 150%)

STOCK FILLING WEIGHT. 636 CU FT (18 CU M)= 39690 LBS.
STOCK FILLING WEIGHT FLOODED. 924 CU FT (26 CU M)= 57660 LBS.

B. ESTIMATED HD-18 ROTOR BLADE WEIGHT: 4200 LBS.
ROTOR BLADE DIMENSIONS: 81.32 DIA. X 74.00 O.A.H.
1.25-7 TAPPED HOLE IN TOP OF BLADE FOR LIFTING

C. ESTIMATED CMS20 WEIGHT INCLUDING MOTOR = 7840 LBS.
(LOAD ALLOWANCE 150%)

STOCK FILLING WEIGHT: 5000 LBS.

D. CMS20 OPERATING PRESSURE:2 BAR (15PSIG) MAX. 0.7 BAR (-5 PSIG) MIN.

E. INSTALLATION RECOMMENDATIONS:

1.) SHIM SOLEPLATE AND TANK LEGS TO ACHIEVE PROPER LEVEL AND LOCATION WITH JACKING SCREWS THRU HOLES IN PLATES. (USE SOLID SHIMS OF AMPLE SUPPORT AT EACH ANCHOR BOLT.)
2.) SET PULPER DRIVE AND TANK IN PLACE AND ASSEMBLE COMPLETELY EXCEPT FOR PACKING.
3.) CHECK CONCENTRICITY OF LOWSPEED SHAFT AND STUFFING BOX. (0.015 TIR MAX.)
4.) CHECK GAP BETWEEN STELLITE ON BOTTOM OF ROTOR AND TOP OF WEAR PLATE. GAP MUST BE UNIFORM AROUND ROTOR AND BETWEEN 0.125 AND 0.250 INCHES.
5.) ADJUST SHIMS AND ALIGNMENT IF NECESSARY. RE-CHECK ALIGNMENT AND CONCENTRICITY.
6.) FINISH WELD AND RE-CHECK CLEARANCES.
7.) DRILL AND DOWEL GEAR REDUCER TO BASE AND BASES TO SOLEPLATE.
8.) GROUT SOLEPLATE AND TANK FEET IN PLACE.

F. REDUCER COMPLETE WITH INTERNALLY MOUNTED LUBE PUMP

Rev.	Description	Date	Drawn	Checked

Client: CROSS POINTE PAPER
Y92-6674
Scale of Drawing: 1:40
Date: 6/8/92
INSTALLATION DETAIL
HD-18 AND CMS-20
WASTE PAPER SYSTEM
VOITH
D23-130019 D
Sheet 1 of 5
D23-130019-001-01