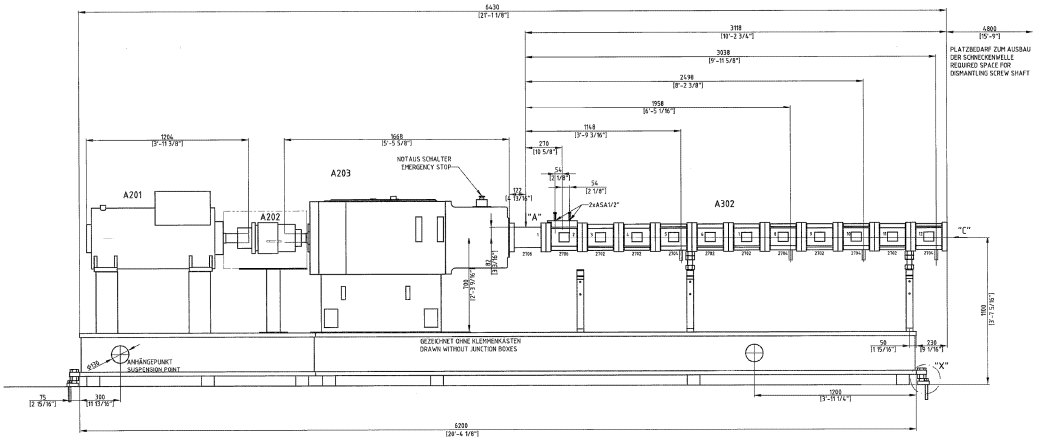
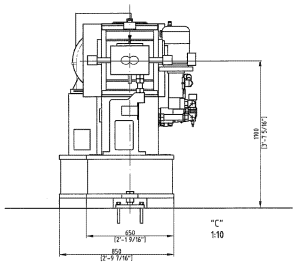
FÜR WARTUNGSARBEITEN IST VOM KUNDEN EINE KRANSCHIENE VORZUSEHEN, SIE IST IN LÄNGSRICHTUNG ÜBER DER MITTE DES VERFAHRENSTEILES DES ZSK ANZUORDNEN

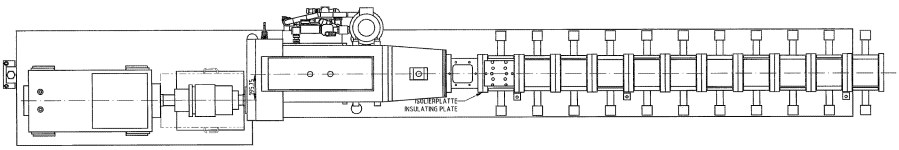
WE RECOMMEND TO INSTALL A MONORAIL FOR A CRANE FOR MAINTENANCE JOBS, IT SHOULD BE INSTALLED IN LONGITUDINAL DIRECTION ABOVE CENTERLINE OF THE PROCESSING SECTION OF THE ZSK.

ABZUGSHAUBE ÜBER DEM VERFAHRENSTEIL IST VOM KUNDEN VORZUSEHEN
HOOD FOR GAS VENT OVER THE PROCESS PART IS TO INSTALL BY CUSTOMER





"G"



NOTES:

1. DESIGN OF MACHINE FOUNDATION TO BE DONE BY CUSTOMER. BASED ON THIS DRAWING MACHINE WEIGHTS AND ALLOWABLE DEFLECTIONS, AS SPECIFIED IN THE FOLLOWING.
FLATNESS AND PERMANENT DEFLECTION OF FOUNDATION DUE TO MACHINE WEIGHT SHALL NOT EXCEED ADJUSTMENT RANGE OF LEVELING DEVICES.
ADJUSTMENT RANGE OF LEVELING DEVICE IS ± 4,8mm (3/16").
MAXIMUM RELOCATION (TILTING) OF POSITION OF ENTIRE FOUNDATION DUE TO SETTLING OF SOIL 0,5 MM PER METER (0,006" PER RUNNING FOOT).
THE MACHINE IS TO BE ALIGNED AND LEVELED ON THE FOUNDATION ACCORDING TO THE INSTALLATION INSTRUCTIONS BY MEANS OF A MACHINE WATER LEVEL, WITH AN ACCURACY OF 0,04 MM/M (0,0005 IN/FOOT).

2. ALL CONNECTIONS TO THE EXTRUDER PROCESS SECTION SHALL BE FLEXIBLE TO PERMIT EXPANSION OF THE MACHINE AND TO PREVENT TRANSMISSION OF FORCES FROM PIPING SYSTEMS AND AUXILIARY EQUIPMENT. THE EXPANSION OF THE PROCESS SECTION CORRESPONDING TO A PROCESS TEMPERATURE RISE OF 500°F IS APPROXIMATELY 4,36 INCHES.

3. FOR PROPER COOLING WATER FLOW THROUGH THE BARRELS, A MINIMUM PRESSURE OF 40 PSI IS REQUIRED IN THE SUPPLY HEADER. TO ACCOMPLISH THIS, THE CUSTOMER IS REQUIRED TO THROTTLE THE BYPASS LINE BETWEEN THE SUPPLY AND RETURN HEADERS SO THAT A MINIMUM 40 PSI SUPPLY PRESSURE IS AVAILABLE.

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HAUPTANTRIEB / MAIN DRIVE MOTOR	≈	8,50 kN	(1912 LBS)
GETRIEBE MIT ÖL / GEAR WITH OIL	≈	16,31 kN	(3668 LBS)
KUPPLUNG / COUPLING	≈	0,90 kN	(202 LBS)
VERFAHRENSTEIL / PROCESS PART	≈	19,14 kN	(4305 LBS)
UNTERGESTELL / FRAME	≈	36,69 kN	(8117 LBS)
GESAMTGEWICHT / TOTAL WEIGHT	≈	80,94 kN	(18204 LBS)

03	Final	29.10.2015	Pfeufer
02	Revised	19.08.2014	Pfeufer
01	First issue	28.08.2014	Wiemke
Rev.	Änderung / Revision	Datum/Date	Name/Author

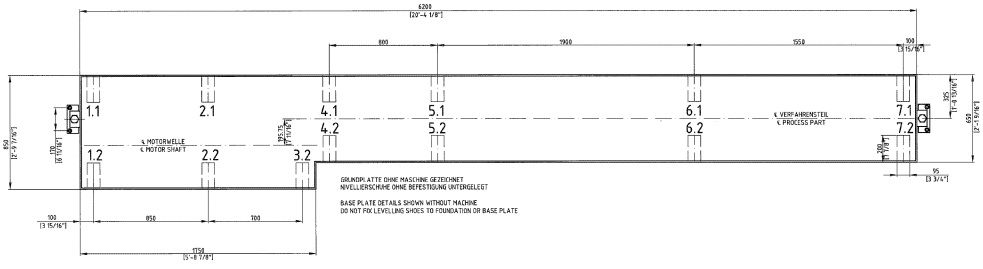
Coperion GmbH
Theodor-Relchenbach-Straße 33
70469 Stuttgart
Telefon +49 711 897-0
Telefax +49 711 897-3999
Internet www.coperion.com

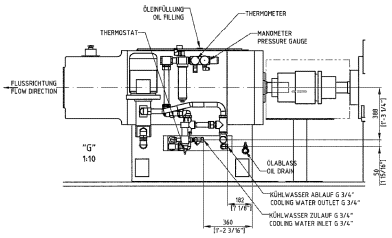
Auftrag-Nr. / Order no.
Kunden-Nr. / Customer no.
Kundenauftrag / Customer order
Projekt/Typ / Project / Type ProForm FOOD CUS
Auftrags-Nr. / Order no.
Kommissionsnr. / Commission no. 64055984.609.0010.0.02
Benennung / Name Installation Plan
Norm ISO 16016

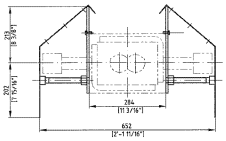
Maßstab / Scale 1:10
Gewicht / Weight 2*
Blatt / Sheet 1
Blattgröße / Sheet size A0

Gezeichnet / Drawn ZSK07MV+
Geprüft / Checked Pfeufer
Freigegeben / Released Pfeufer

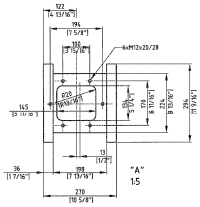
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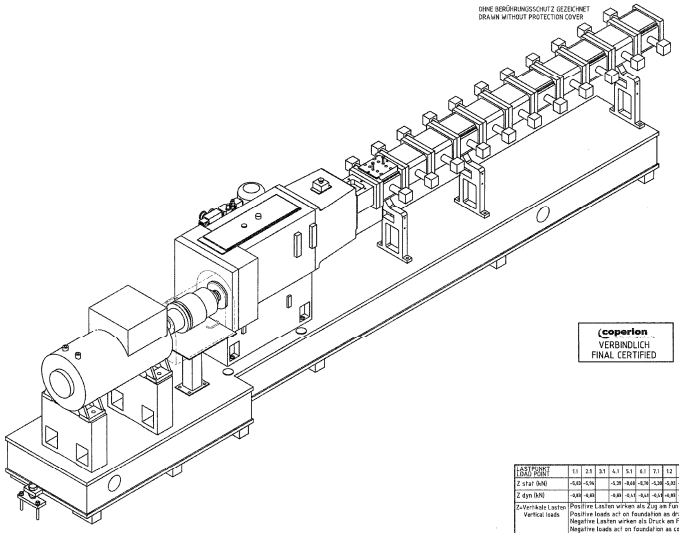


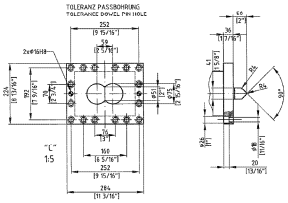


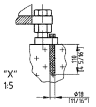
BERÜHRUNGSSCHUTZ
PROTECTION COVER OF PROCESS PART
1/5



OHNE TRICHTER GEZEICHNET
DRAWN WITHOUT HOPPER







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LAST POINT / LAU PUNKT	1.1	2.1	3.1	4.1	5.1	6.1	7.1	1.2	2.2	3.2	4.2	5.2	6.2	7.2
Z stat [kN]	-5,65	-5,94		-4,39	-8,48	-8,76	-5,96	-6,95	-5,84	-2,87	-5,20	-8,48	-8,74	-5,96
Z dyn [kN]	-8,80	-8,80		-8,80	-8,45	-8,45	-8,80	-8,80			-8,80	-8,45	-8,45	-8,80

Z = Vertikale Lasten / Vertical loads
Positive Lasten wirken als Zug am Fundament
Positive loads act on foundation as drag force
Negative Lasten wirken als Druck am Fundament
Negative loads act on foundation as compressive force

REVISION	DOC. No.				
00	Kind	09.02.2018	Wiedhof	Lilli	
01	Review	19.05.2019	Wiedhof	Lutz	
02	Plan issue	04.06.2019	Wiedhof	Lutz	
Rev.	Bemerkung/ Revision		Gezeichnet	Gen. Manag.	Dirig. Prokurist

Drawn by / Gezeichnet	Date / Datum	Checked by / Geprüft	Date / Datum
Approved by / Freigegeben	Date / Datum	Coperion GmbH	

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continuous through conveying

Customer / Kunde
Project / Projekt / Type
ProForm FOOD CUS I

Coperion WP Material-No. / Sachnummer
64055984.609.0020.0.02

Machine Type / Maschinentyp
ZSK 070MV+

Installation Plan

Scale / Maßstab
1:10

Size / Format
A1

Sheet / Blatt
1

ISO 16016

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15 Instruments and controls

15.1 P+I diagram

P+I diagram

INSTRUMENTATION FIRST LETTER		INSTRUMENTATION SUPPLEMENTARY LETTERS	
A	ANALYSIS		
B	BURNER, COMBUSTION		
C		C	CONTROLLER
D	DENSITY (MASS) SPF. SPEC. GRAVITY	CV	CONTROL VALVE
E	ELECTRICAL SIGNAL	E	ELEMENT
F	FLOW RATE		
G	GAUGING (LENGTH)	G	GLASS
H	HAND		
I	CURRENT	I	INDICATOR
J	POWER	JT	INDICATING / PARTIAL LTG
K	TIME, TIME SCHEDULE		
L	LEVEL (ALSO SEPARATION)		
M	MOISTURE OR HUMIDITY		
N			
O			
P	PRESSURE, VACUUM		
Q	QUANTITY		
R	RADIOACTIVITY		
S	SPEED, FREQUENCY		
T	TEMPERATURE	T	TRANSMITTING
U			
V	VISCOSITY, VIBRATION	V	VALVE, LOUVRE
W	WEIGHT, FORCE		
X	TORQUE		
Y		Y	RELAY
Z	POSITION	Z	SAFETY

SYMBOLS: INSTRUMENT LOCALLY INSTALLED; INSTRUMENT WITH MULTIPLE FUNCTIONS,INSTALLED LOCAL

SIGNAL LINES: MECHANICAL CONNECTION; PNEUMATIC SIGNAL; ELECTRIC SIGNAL; CAPILLARY TUBE; HYDRAULIC SIGNAL; SERIAL LINK

HS 1
EMERGENCY STOP ON TOP OF GEAR BOX

COOLING WATER
max. 6,50 m³/h
15-30°C 4-6 bar

COOLING WATER
aux. 1,50 m³/h

TCV

FQISH 1

Sprayed Water Flow

PSL 1

TSH 1

TI 1

PI 1

SSSV 1

3 QWV

LI 1

n=595
900 l/min

FSSCW

M

3x TE 2

DRAIN

SE 2

SE 1

SPARE

TE 2 | TE 6 | TE 7

ZONE 1 | ZONE 2 | ZONE 3 | ZONE 4 | ZONE 5 | ZONE 6 | ZONE 7 | ZONE 8 | ZONE 9 | ZONE 10 | ZONE 11 | ZONE 12 | ZONE

TE 7 | TE 8 | TE 9 | TE 10 | TE 11 | TE 4 | TE 5 | TE 6 | TE 7 | TE 18 | TE 19 | TE 8 | TE 9 | TE 16 | TE 17 | TE 14 | TE 15 | TE 12 | TE 13 | TE 10 | TE 11 | TE 18 | TE 19 | PT 1

2x1,5WK | 2x1,5WK | 2x1,5WK | 2x1,5WK | 2x1,5WK | 2x1,5WK | 2x1,5WK | 2x1,5WK | 2x1,5WK | 2x1,5WK | 2x1,5WK | 2x1,5WK

B-D

XXXV

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10	Final	04.08.2016	Wadhöfe	Lahr	
09	Final layout	21.08.2014	Wadhöfe	Lahr	
Rev.	Aenderung/Revision	Datum/Date	Name/Name	Appr./Checked	Freigabe/Released

Coperion GmbH
Theodor-Heuss-Straße 53
70469 Stuttgart

coperion
continuous mixing & processing

Product Group / Produktgruppe: ProForm FOOD CUS

Product/Typ: ZSK076MV

64055984.506.0010.0.01

P&I Diagram

ISO 16016

Weight/Gewicht: -

Sheet/Blatt 1

Size/Format A0

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T:\CST-CM-CIVIL_EAZ\Auftrag\ZSK\ZSK076_01\Kit\0010\M\ ZSK076MV ProForm FOOD CUS\kit\85986.506.0010.dwg 03.08.2016

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Instruction Manual Parts List

05/10/16 16:17:49

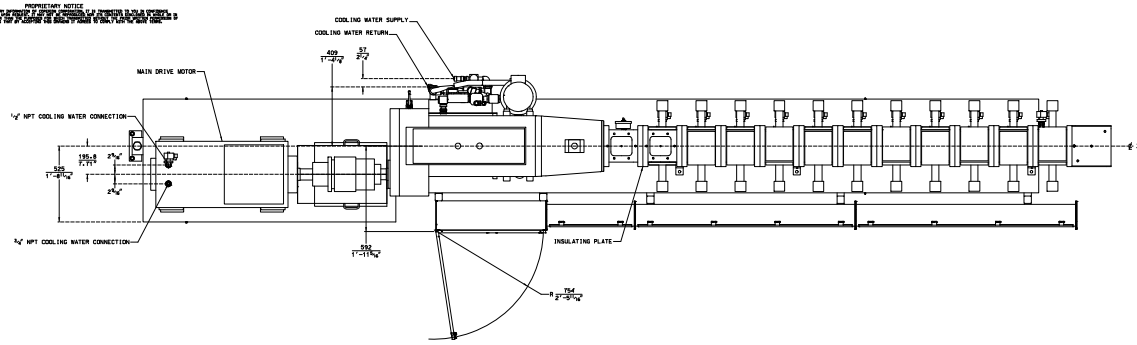
COPERION CORPORATION **Page:1**

Level	Seq Nbr	Component Item ALT-CUS	Description	Qty Per	UM	Drawing
PARENT		14-3029-1000	EXTRUDER-ZSK76MV PROFORM		EA	
1		14-3029-7102	OPERATION STATION ASS'Y	1.0	EA	
1	10	64055984	EXTRUDER-ZSK76MV 143029 PROFORM FOODS	1.0	EA	
1	11	14-3029-1019	8/0 ADPTOR ST STL ZSK76	1.0	EA	3143029-1019
1	12	14-3029-1020	PLUG TOP ASSY OPEN BRL ZSK76 17-4	1.0	EA	D50981-2705H7
1	13	14-3029-1020-001	PLUG, SPECIAL ZSK76	1.0	EA	3143029-100
1	14	276010-8102 10064255	CARTRIDGE HTR Z070BLK 2.0KW 240V D20 4M CABLE	4.0	EA	D50977-1481
1	15	8001-2-5152 20094707	PLUG-MT/C HEX HD ADAPTOR MAT:420SS,L=152MM	2.0	EA	SEE COMMENTS
1	16	214213-1062 10000327	SCREW,SOCKET HD D10.9 AS M16X 45 DIN912	16.0	EA	
1	20	200284-1329	TRANSDUCER-PRESSURE PT4604-3M-6-B628-SIL2	1.0	EA	
1	21	200284-0039	TRANSDUCER CABLE 20 FT DYNISCO #929020	1.0	EA	
1	22	600007-0421	T/C-MELT TYPE J W/FLEX SINGLE 6"BOLT,1/8" IMMR	5.0	EA	D600007
1	23	100394-6020-1431	T/C EXT CABLE BAREENDS 8'ARM20'WIRE J SINGLE	5.0	EA	C100394-6020
1	25	100395-6020-1331	T/C STL BAREENDS 6'ARMOR 20'WIRE J SINGLE	12.0	EA	C100395-6020
1	50	14-3029-7111	J-BOX/WIREWAY SYS 13 BARREL, ZSK 76	1.0	EA	A3143029-7111

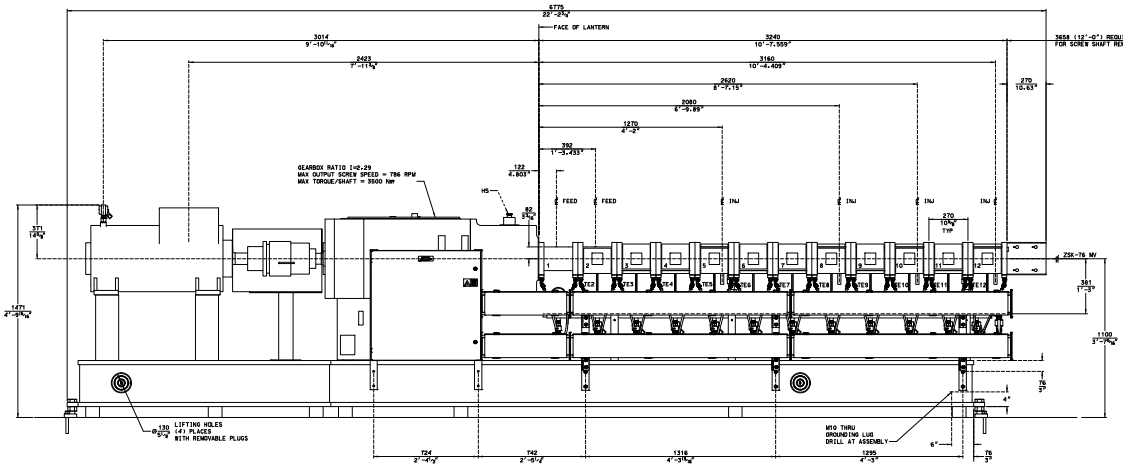
Level	Seq Nbr	Component Item ALT-CUS	Description	Qty Per	UM	Drawing
1	60	14-3029-1010	COOLING MFLD ASSY 24 V 11 BRL Z076MV	1.0	EA	3143017-1010
1	62	100300-1010-24	MOTOR COOLING ASSEMBLY 24 V SOLENOID	1.0	EA	

End of Report

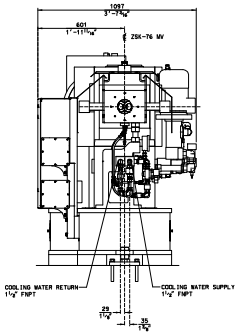
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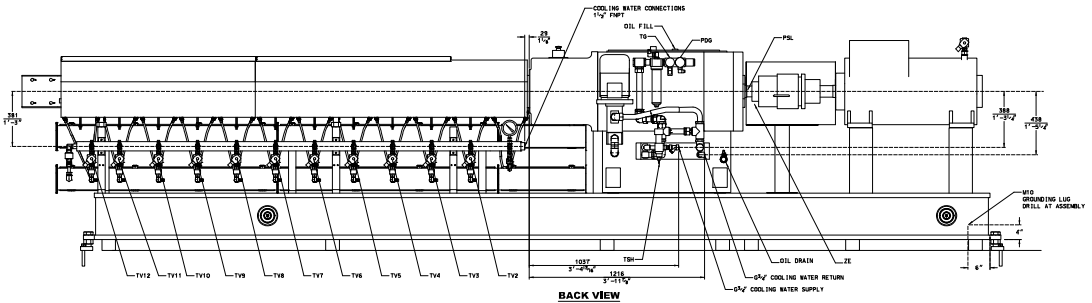
PLAN VIEW



FRONT VIEW
HEATER COVERS REMOVED FOR CLARITY



RIGHT VIEW



BACK VIEW

NOTES:

1. DESIGN OF MACHINE FOUNDATION IS THE RESPONSIBILITY OF THE CUSTOMER. BASED ON THIS DRAWING, MACHINE WEIGHTS AND ALLOWABLE DEFLECTIONS. AS SPECIFIED IN THE FOLLOWING:

   FLATNESS AND PERMANENT DEFLECTION OF FOUNDATION DUE TO MACHINE WEIGHT SHALL NOT EXCEED ± ¼".

   MAXIMUM RELOCATION (TILTING) OF POSITION OF ENTIRE FOUNDATION DUE TO SETTLING OF SOIL 0.5 MM PER METER (0.006" PER RUNNING FOOT.)

   THE MACHINE IS TO BE ALIGNED AND LEVELED ON THE FOUNDATION ACCORDING TO THE INSTALLATION INSTRUCTIONS BY MEANS OF A MACHINE WATER LEVEL WITH AN ACCURACY OF 0.04 MM/M (.0005 IN/FOOT.)

   WEIGHT OF MACHINE = 30,000 Lbs. WEIGHT IS DISTRIBUTED EQUALLY AMONG ALL LEVELING DEVICES.
2. WARNING: WELDING TO EXTRUDER BASEFRAME AT OR AFTER INSTALLATION IS NOT ALLOWED DUE TO POSSIBILITY OF DAMAGE TO MACHINE ALIGNMENT AND GEARBOX LONGEVITY.
3. ALL BARRELS HAVE STEEL THERMOCOUPLE CONNECTION POINTS.
4. ALL CONNECTIONS TO THE EXTRUDER PROCESS SECTION SHALL BE FLEXIBLE TO PERMIT EXPANSION OF THE MACHINE AND TO PREVENT TRANSMISSION OF FORCES FROM PIPING SYSTEMS AND AUXILIARY EQUIPMENT. THE EXPANSION OF THE PROCESS SECTION CORRESPONDING TO A PROCESS TEMPERATURE RISE OF 500°F IS APPROXIMATELY 0.44 INCHES.
5. THE SOLENOID VALVES IN THE COOLING MANIFOLD ARE KEY COMPONENTS IN THE PROCESS OF TEMPERATURE CONTROL. THEY ARE SENSITIVE TO DIRT IN THE COOLING WATER.

   IN ORDER TO PUMP CLEAN WATER THROUGH THE SOLENOID VALVES, THE CUSTOMER IS REQUIRED TO INSTALL A STRAINER WITH A 40 MESH SCREEN IN THE SUPPLY PIPELINE IMMEDIATELY BEFORE THE INLET TO THE COOLING MANIFOLD SUPPLY HEADER.

   FOR PROPER COOLING WATER FLOW THROUGH THE BARRELS, A MINIMUM PRESSURE OF 40 PSI IS REQUIRED IN THE SUPPLY HEADER. TO ACCOMPLISH THIS, THE CUSTOMER IS REQUIRED TO THROTTLE THE BYPASS LINE BETWEEN THE SUPPLY AND RETURN HEADERS SO THAT A MINIMUM 40 PSI SUPPLY PRESSURE IS AVAILABLE.
6. TG GAUGE – TEMPERATURE, LUBE OIL
   PDS GAUGE – DIFFERENTIAL PRESSURE, LUBE OIL FILTER
   TSH SWITCH – HIGH TEMPERATURE, LUBE OIL
   PSL SWITCH – LOW PRESSURE, LUBE OIL
   ZE SENSOR – PROXIMITY, COUPLING
   HS EMERGENCY STOP STATION
   TE- STEEL TEMPERATURE SENSOR BARRELS: TE2 THRU TE12
   TV- COOLING WATER SOLENOID VALVE TV2 THRU TV12

REFERENCE DRAWINGS:

A3143029-1000 Sh. 2	CONNECTION DETAILS
B101131-7021	SAFETY LABEL, LOCATION DRAWING
B3143029-1010	COOLING MANIFOLD ASSEMBLY

CST PROJECT NUMBER: 64055984

REV.	DESCRIPTION AND RELEASE STATUS	DATE	DRAWN	CHECKED	ENGINEER
A	AS BUILT	1/9/15	MSC	S-M	SH
B	FOR INSTALLATION		MSC	S-M	SH

ZSK-76 MV

MACHINE INSTALLATION

coperion
coperion k-tron pitman

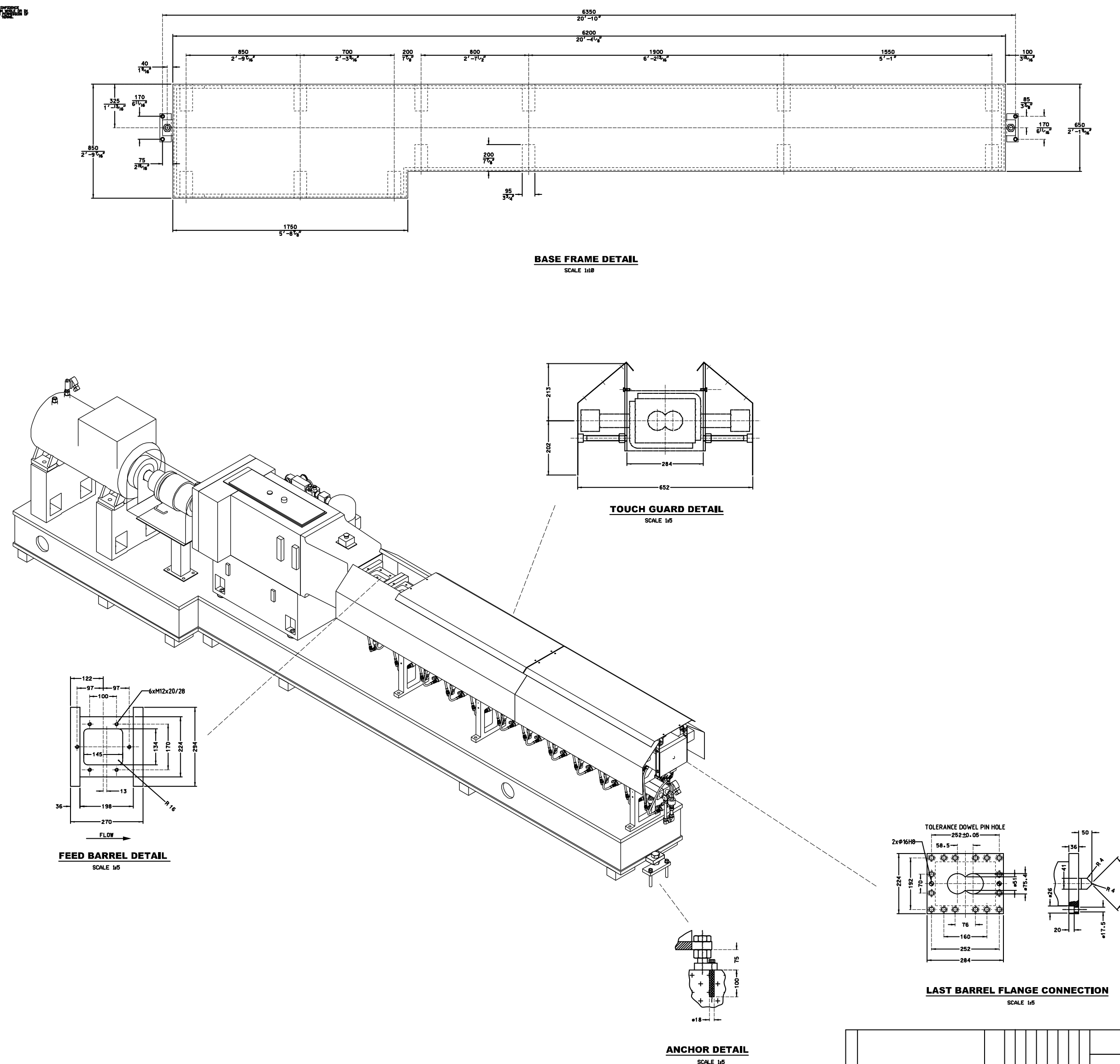
S. MILLER

SCALE 1:20 WEIGHT 1430lbs

3143029-1000

SHEET 1 OF 2 REV. B

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0	FOR INSTALLATION	
REV.	DESCRIPTION AND RELEASE STATUS	DATE / PROJ / ENG (RELEASE) · MFG or CONST · ELEC / I&C / MECH (ENGINEERING) · CHK / DRWN (DESIGN)

ZSK-76 MV

MACHINE INSTALLATION
DETAIL SHEET

coperion
confidence through partnership
803 E. Crescent Ave.
Ramsey, NJ 07446-1220
Telephone 201-327-6300

APPROVED	DATE	SCALE 1:10	PROJECT NUMBER 143029
S. MILLER (ENGINEER)		A 3143029-1000 (DRAWING NO.) SH. 2 OF 2	REV. 0