1644 P0303801 metso CLEARANCE DIMENSIONS FOR minerals MP800 SHORT HEAD CONE PAGE 1/2 USED APPROVED BY DMK PREPARED BY COEUR ROCHESTER PROPRIETARY CODE G CRUSHER TO JPM 8 DATE OF ISSUE DATE REV 00 TO A THIRD PARTY. MODIFIED I OFEB03 om: CERTIFIED FOR CONSTRUCTION APPROVED JPM R 10FEB03 DATE. metso DISCLOSED BOWL HEAD IS NOT TO BE REPRODUCED. RIGHTS RESERVED. (6/01) **ASSEMBLY ASSEMBLY** RECEIVED BY AUG 0 8 2003 W. S. GILMER THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPRIETARY TO METSO MINERALS AND WITHOUT PRIOR PERMISSION OF METSO MINERALS OR ITS DULY AUTHORIZED REPRESENTATIVE. ALL G N

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CLEARANCE DIMENSIONS FOR MP800 SHORT HEAD CONE CRUSHER TO COEUR ROCHESTER

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PROPRIETARY CODE G REV 00 DATE

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C3SD		RED BY APPROVED BY DMK	CRUSHER	TO COEUR			PROPRIETA	RY CODE
8		DATE OF ISSUE					REV 00	DATE
		LOFEBO3	•	RECEIVED B	SY.		OM:	
MODIFIED	SE	E PAGE 1 FOI	R FIGURE,	AUG 0 8 2003				
					MIL	LIMETERS	(INCHES	S)
9 PRR	A	MAIN FRAME FL	ANGE	W. S. GILME		1750	(68.90")	ı
A THIRD PARTY.	B	MAIN FRAME FL	ANGE			1750	(68.90")	ı
	C	MAIN FRAME FL	.ANGE			1750	(68.90")	1
DISCLOSED TO	D	MAIN FRAME HU	JB DIAMETER -			875	(34. 45")	ı
_	E	TO BOTTOM OF	MAIN FRAME H	UB		280	(11.02")	1
REPRODE	F	TO BOTTOM OF	OIL PIPING -			762	(30.00")	ı
TO BE REPRODUCED. RESERVED. (6/01)	G	TO TOP OF TUR	RNING BRACKET	s		3385	(133.27"	')
IS NOT RIGHTS	H	ADJUSTMENT R	ING MAXIMUM D	IAMETER		4550	(179.13"	')
	J	CLEARANCE REC	QUIRED FOR RE ASSEMBLY	MOVING		3881	(152.80"	')
IINERAL PITIVE	K	TO END OF COL	JNTERSHAFT			2538	(99.92"))
ETSO P RESENT	L	MAXIMUM HEIGH	IT TO TOP OF	FEED HOPPER		3752	(147.72"	')
Y TO P	M	INSIDE DIAMET	TER OF FEED H	IOPPER		2110	(83.07"))
ROPRIETARY TO METSO MINERALS AUTHORIZED REPRESENTATIVE.	N	TO TOP OF FEE	ED PLATE			2758	(108.58"	')
ND PROF	0	OVERALL HEIGH	HT OF BOWL AS	SEMBLY		1964	(77. 32")	
TIPL A	P	ADJUSTMENT CA	AP MAXIMUM DI	AMETER		3170	(124.80"	')
ONFIDEN ERPLS O	Q	CLEARANCE REC	OUIRED FOR RE	MOVING BOWL		5399	(212.56*	')
N IS C SO MIN	R	OVERALL HEIGH	HT OF HEAD AS	SEMBLY		2110	(83.07"))
HEREI OF MET	S	HEAD OR MANTL	E MAXIMUM DI	AMETER		2083	(82.01"))
TAINED	T	CLEARANCE REC ASSEMBLY	QUIRED FOR RE	MOVING HEAD		5545	(218.31	•)
ON CO	U	TRAMP RELEASE	E SIDE TO SID	E		4280	(168.50	•)
THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PAITHOUT PRIOR PERMISSION OF METSO MINERALS OR ITS DULY	٧	ADDITIONAL UF CLEARING STRO	PWARD TRAVEL OKE	DUE TO		163	(6. 42")	
뛽								

-OKCE2 8 MKs IP800 CRUSHER

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MOMENT ROTATE
ABOUT THE CENTERLINE OF UNBALANCED FORCE AND

		HEM	S. GII	.W
		2003	8 0 90	A
		ED BA	CEINE	36
THE THE	HE COUT	MOMENT DUE TO FORCES	IS THE REPACET SHER.	AND
		303	13±01	

M	1	
		LMER

VEWTON-METERS ²		11,656 POUNDS-FT ²	COUNTERSHAFT & COUNTERSHAFT & WR ²	
	617 NEWTON-METERS ²	POUNDS-FT2	MK _S CKN2HEK 2HEHAE	
	4200 AETERS ²	10, 162 POUNDS-FT ²	WR ²	
	NEW 472,500 WORN 153,100 NEWTON-METERS	NEW 348,500 MORN 112,800 POUND-FEET	MAXIMUM "M"	*
	KIFOCKUWS 150'210	265, 850 POUNDS	CKNSHEK WHSS	
	NEW 106, 800 NEW 106, 800	NEM 24, 000 MORN -22, 900 POUNDS	MAXIMUM CALCULATED NET UNBALANCED FORCE "F NET" PORCE "F NET"	*
	S22-335	S22-22S	SPEED (RPM) ECCENTRIC	
	068-589	068-589	SPEED (RPM)	
ĺ	METRIC	.s.u		•

OF LINER WEAR AND MAXIMUM ECCENTRIC SPEED SHOWN ABOVE.

CAUTION: ADDITIONAL VERTICAL FORCES MAY RESULT FROM IMPACT

FORCES AND MOMENTS THE CALCULATED MOMINAL HARMONIC VALUES DUE TO MOTION OF CRUSHER PARTS. THE CALCULATED MOMINAL HARMONIC VALUES DUE TO STRUCTURE COMPLIANCE. A MINIMUM FOUNDATION DESIGN SHEETY FACTOR OF 1.5

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TO STRUCTURE COMPLIANCE. A MINIMUM FOUNDATION DESIGN SHEETY FACTOR OF 1.5

TO STRUCTURE COMPLIANCE. AS MELL AS TO INSURE STRUCTURAL RELIABILITY.

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OIL DRAIN LINE TRAP FOR MP800 CONE CRUSHER TO COEUR ROCHESTER

P0303804

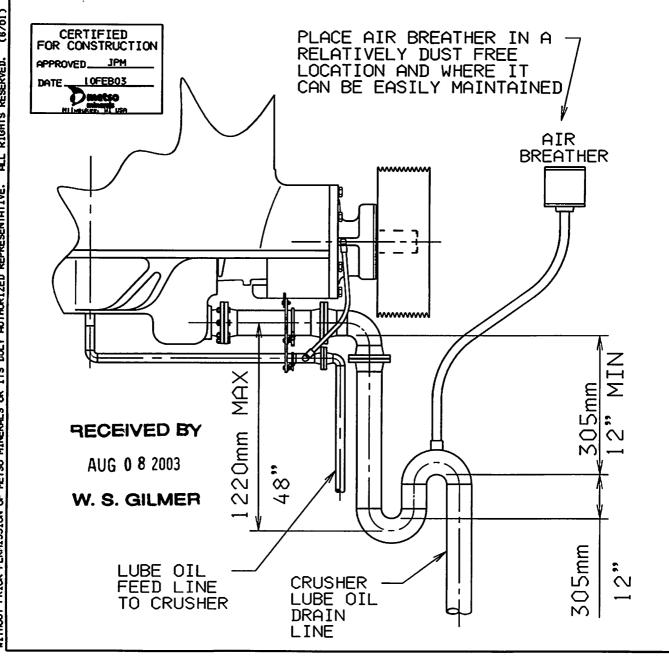
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IF CRUSHER DRAIN LINE CONTAINS A VERTICAL DROP OR IS ORIENTATED WITHIN 45° OF VERTICAL AND THAT SECTION HAS A VERTICAL DROP OF MORE THAN 1220mm (48"), THEN A TRAP MUST BE INSTALLED AS SHOWN BELOW.

IF THE TRAP IS NOT INSTALLED, THE RUSH OF OIL DOWN THE DRAIN LINE CAN PULL AIR AND DUST THROUGH THE SEALS AND CAUSE EXCESSIVE INTERNAL WEAR AND POSSIBLE BEARING FAILURE.



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SOLE PLATE INSTALLATION FOR MP800 SHORT HEAD CONE CRUSHER TO COEUR ROCHESTER

P0303805

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The following instructions are for sole plates supplied by Metso only.

Special Epoxy Grouting Required

Use a high performance grout, which has a high compressive and tensile strength combined with a relatively low modulus of elasticity and hardness. The grout should have the following physical properties:

Compressive Strength	16,000 PSI min.*
Tensile Strength	4,200 PSI min.
Compression Modulus	533,000 PSI max
Hardness (Shore D)	95 max

* Do not install the Crusher until the epoxy reaches a minimum of 15,000 PSI compressive strength.

Two grouts that meets the above parameters are Metso Minerals Max grout (P/N 0482 9213) and Unisorb's "Standard V-100" Epoxy Grouting. For volume of grouting required see Table 1. Volume is based on Crusher foundation drawing discharge opening size and sketch on page 3.

Table 1: Volume of Epoxy Grouting Needed

Table 1. V	bluffle of Lpoxy Grouting Neceded
Crusher	Volume of Epoxy Grouting
MP800	5700 in ³ (93,400 cm ³)

General

When mounting the Crusher Main Frame on Sole Plates, the Sole Plates must be grouted into place.

Epoxy grout is a tough, resilient, vibration resistant material that is readily available in various size kit forms. Each kit consists of an epoxy and a hardener that are mixed at the job site according to the simple directions included in each kit. The preparation instructions supplied with the grout must be followed. Special care should be taken on the preparation of the concrete surface and the forms.

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SOLE PLATE INSTALLATION FOR MP800 SHORT HEAD CONE CRUSHER TO COEUR ROCHESTER

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Installation of Sole Plates

- 1. Remove all primer, paint or rust preventative from all surfaces of the Sole Plates.
- 2. Place the Sole Plates in the pockets of the foundation as shown on page 3, making sure the machined surface with the part number stamped on it is facing up.
- 3. Using the jacking screws in the Sole Plates, level each Sole Plate, making sure all four corners are within 0.25mm (0.010") of all the other Sole Plates, leaving the desired epoxy thickness between the Sole Plate and the foundation.
- 4. Construct any forms that may be necessary along the inside of the foundation to contain the epoxy. Use 25mm x 125mm (1" x 5") wood strips for the forms. Also construct a form to keep the epoxy from running down into the bolt hole in the foundation.
- 5. Thoroughly wax all forms with three coats of ordinary paste wax. This will prevent the forms from sticking to the epoxy. Seal all joints and seams with caulking compound to prevent leakage of the epoxy during pouring.
- 6. Mix and pour the epoxy following instructions on the kit. Multiple pours may be required depending on the maximum allowable pour depth of the particular epoxy being used. To prevent air entrapment under the Sole Plate, pour the epoxy from one place at a time, allowing the epoxy to cover an area of approximately 0.6 meters (2 feet) on either side of the pouring spot. Then move to a position where the previous pour flow has stopped and pour again. Continue this procedure until grouting is complete. Do not pour epoxy into more than one area at a time.
- 7. After the epoxy has cured (check grout instructions for estimated cure time), remove the forms.
- 8. After the epoxy reaches a minimum of 15,000 PSI compressive strength, the Crusher can be installed. Use shims (if required) to eliminate any gaps between the Crusher mounting pads and the Sole Plates greater than 0.25 mm (0.010").

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SOLE PLATE INSTALLATION FOR MP800 SHORT HEAD CONE **CRUSHER TO COEUR ROCHESTER**

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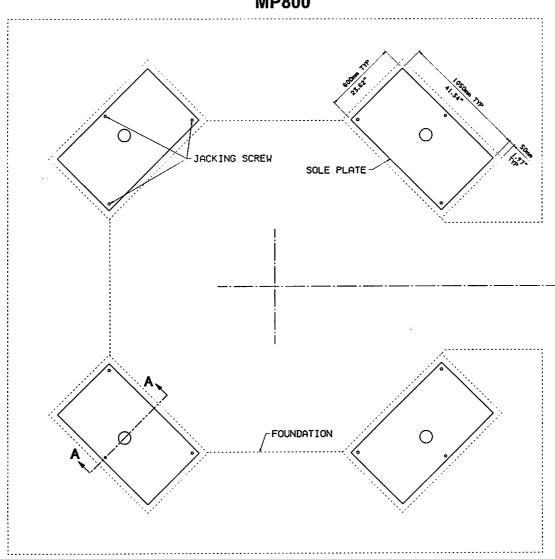
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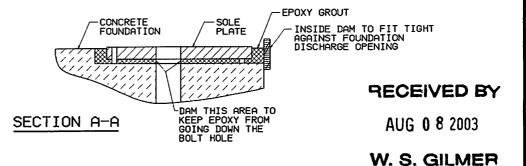
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MP800



NOTE: REFER TO THE MP800 MOUNTING & CLEARANCE DRAWING FOR DIMENSIONAL INFORMATION.



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WEIGHTS FOR MP800 SHORT HEAD CONE CRUSHER TO COEUR ROCHESTER

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· · · · · · · · · · · · · · · · · · ·					
Weight of complete Crusher and Assemblies that require freque		Kilograms	Pounds		
Crusher complete (Without Power Unit/Pkg Li	120,570	265,850			
Adjustment Ring, Clamping Ring, Clamping C Adjustment Mechanism	cylinders and	17,157	37,825		
Main Frame (Including Main Shaft and Main F	Frame Liners)	41,450	91,400		
Bowl Assembly (Including Bowl Liner, Adjustn	nent Cap and Hopper)	26,000	57,340		
Head Assembly (Including Mantle and Feed F	Plate)	15,960	35,200		
Countershaft Box Assembly with Crusher She	eave	3,195	7,045		
Eccentric Assembly (Including Counterweight)	7,300	16,093		
Socket		355	785		
Socket Liner	235	520			
Mantle	6,000	13,320			
Bowl Liner	7,460	16,450			
Tramp Release Cylinder Assembly (Including	453	1,000			
	Dry Weight (no oil)	1,125	2,480		
Hydraulic Power Unit	Weight w/full tank (659 L)(174 Gal)	1,701	3,750		
Package Lube System	Dry Weight (no oil)	3,492	7,700		
(Air Cooled)	Weight w/full tank (1,893 L)(500 Gal)	5,125	11,300		
Chid Mariatad Air Caolar Backage	Dry Weight (no oil)	2,087	4,600		
Skid Mounted Air Cooler Package	Wet Weight	2,313	5,100		
Note: Since various assembly combinations are available in each Crusher size, and because of					

Note: Since various assembly combinations are available in each Crusher size, and because of manufacturing variations, the weights shown above are approximate.

All weights can vary ± 5%