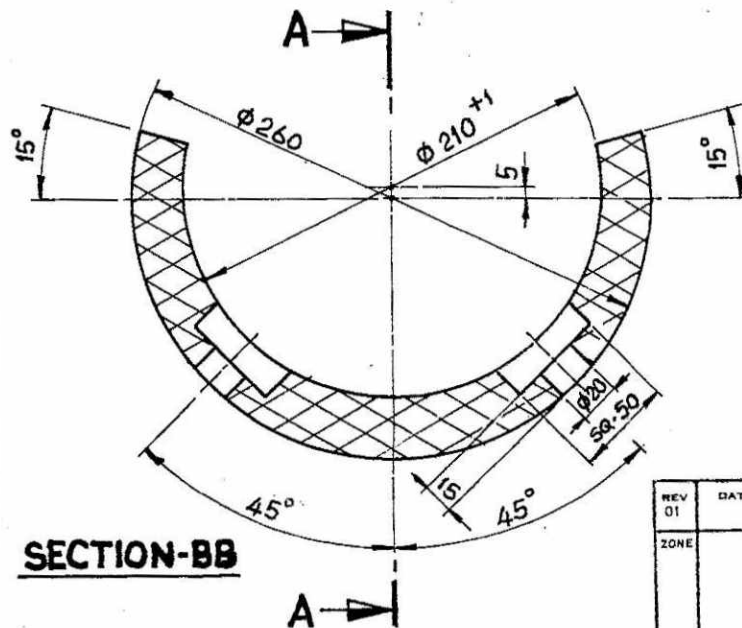
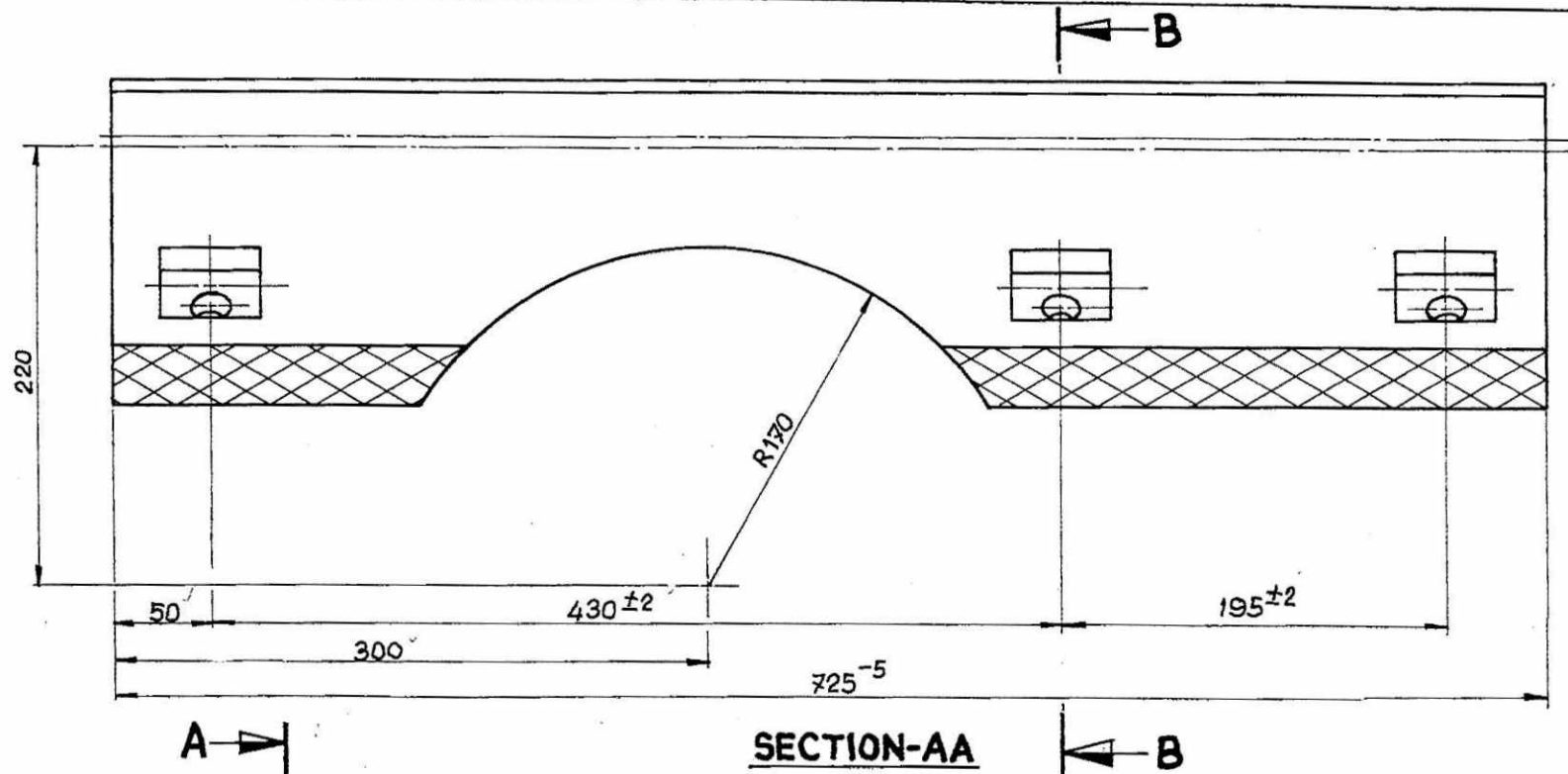


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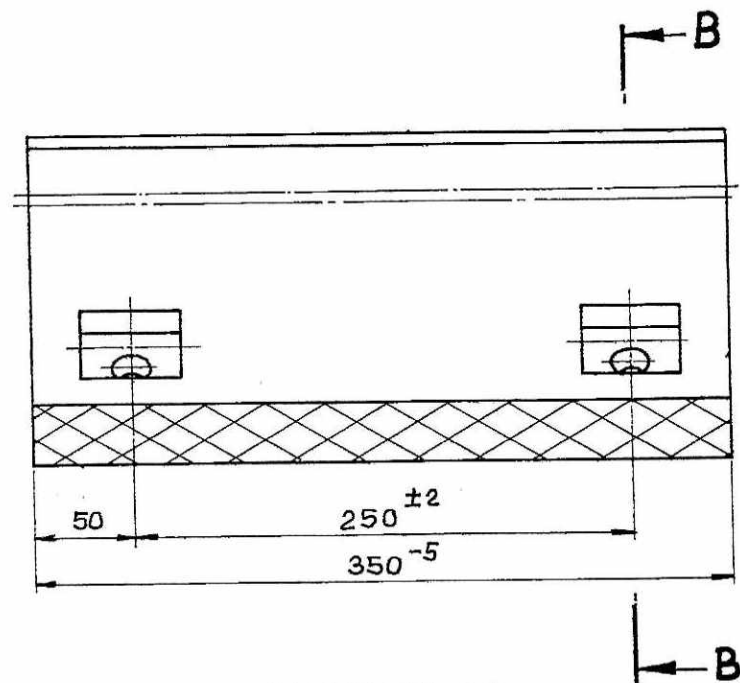
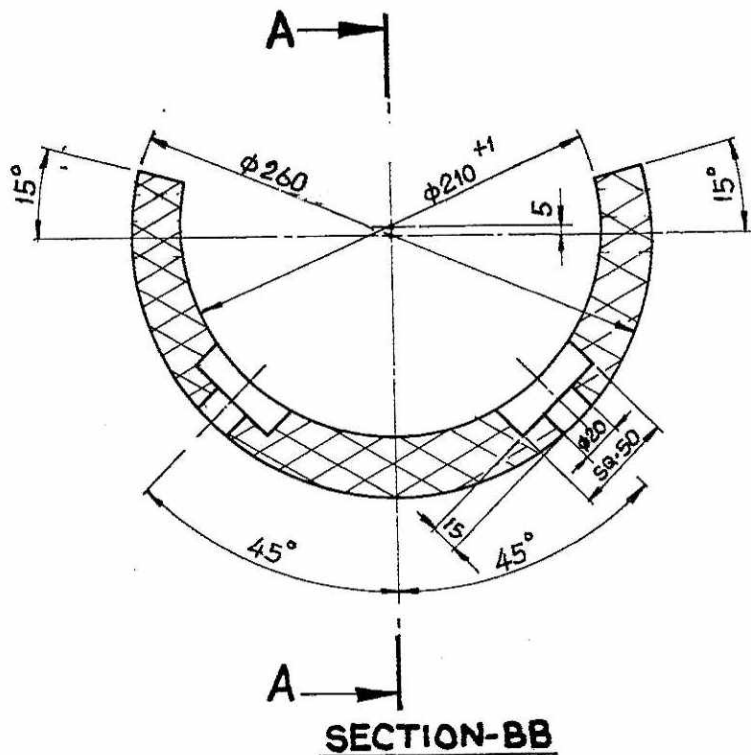
SECTION-AA

SECTION-BB

THIS DRG. SUPERSEDS DRG. NO. 3-7-0136-02-00985

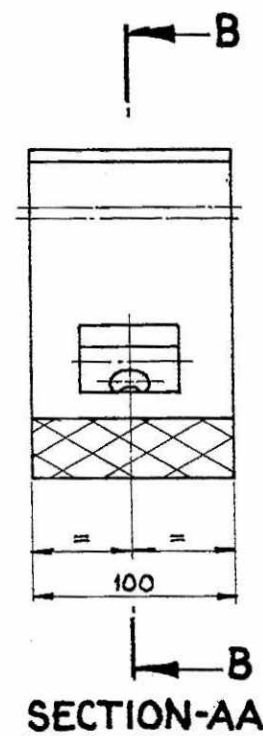
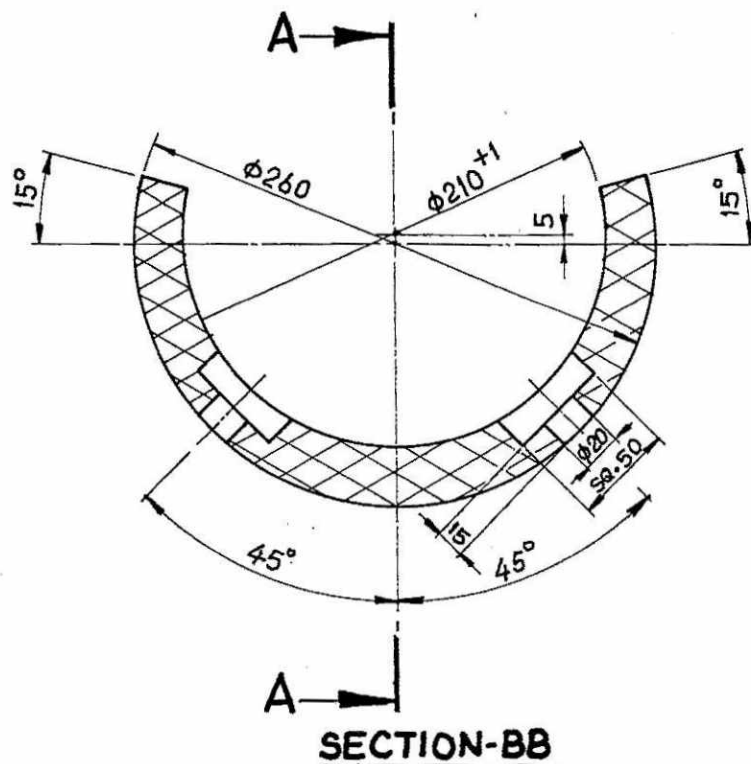
		90° SHORE 'A'			
		POLYURETHANE		9	
ITEM NO.	DESCRIPTION	DRAWING NO.	MATL CODE	UNIT WT	
			MATL SPEC	QTY	
EQPT: STRAIGHTENING MACHINE KR 75 WITH FACILITIES					
Bharat Heavy Electricals Ltd., SEAMLESS STEEL TUBE PLANT TIRUCHIRAPALLI- 620 014		DRN	NAME	SIGN	DATE
		CHO	A. AROCKIAM	J. CHINN	17.03.99
		APPD	J. CHINN 24.03.99		
REV 01	DATE	ALTERED	DEP	GRADE OF UNTOL DIM	SCALE
ZONE		CHECKED	C M F	1:2.5	WEIGHT
			TITLE	CARD CODE	DRAWING NO
			TROUGH LINER-TYPE I (BOTTOM)	U 01	3-7-0136-02-03033
					REV 00

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THIS DRG. SUPERSEDES DRG. NO. 2-7-0136-02-01651

		90° SHORE A						
		POLYURETHANE		18				
ITEM NO.	DESCRIPTION	DRAWING NO.	MATL CODE	UNIT WT				
			MATL SPEC	QTY				
EQPT: STRAIGHTENING MACHINE KR 75 WITH FACILITIES								
 Bharat Heavy Electricals Ltd., SEAMLESS STEEL TUBE PLANT TIRUCHIRAPALLI-620 014		DRN	NAME	SIGN	DATE	NO. OF ITEMS		
		CHO	A. RASENDRAN	A. RASENDRAN	17-03-91			
		APD	A. RASENDRAN	A. RASENDRAN	20-03-90			
REV 01	DATE	ALTERED	DEPT	GRADE OF UNTO DIM C M/F	SCALE	WEIGHT	REF TO ASSY OLD DRG	ITEM NO.
ZONE		CHECKED			1:2.5		1-7-0136-02-01320 0512062-10.301	2
TITLE					CARD CODE	DRAWING NO	REV	
TROUGH LINER-TYPE II (BOTTOM)					U 01	3-7-0136-02-03034	00	



THIS DRG. SUPERSEDES DRG. NO. 2-7-0136-02-01650

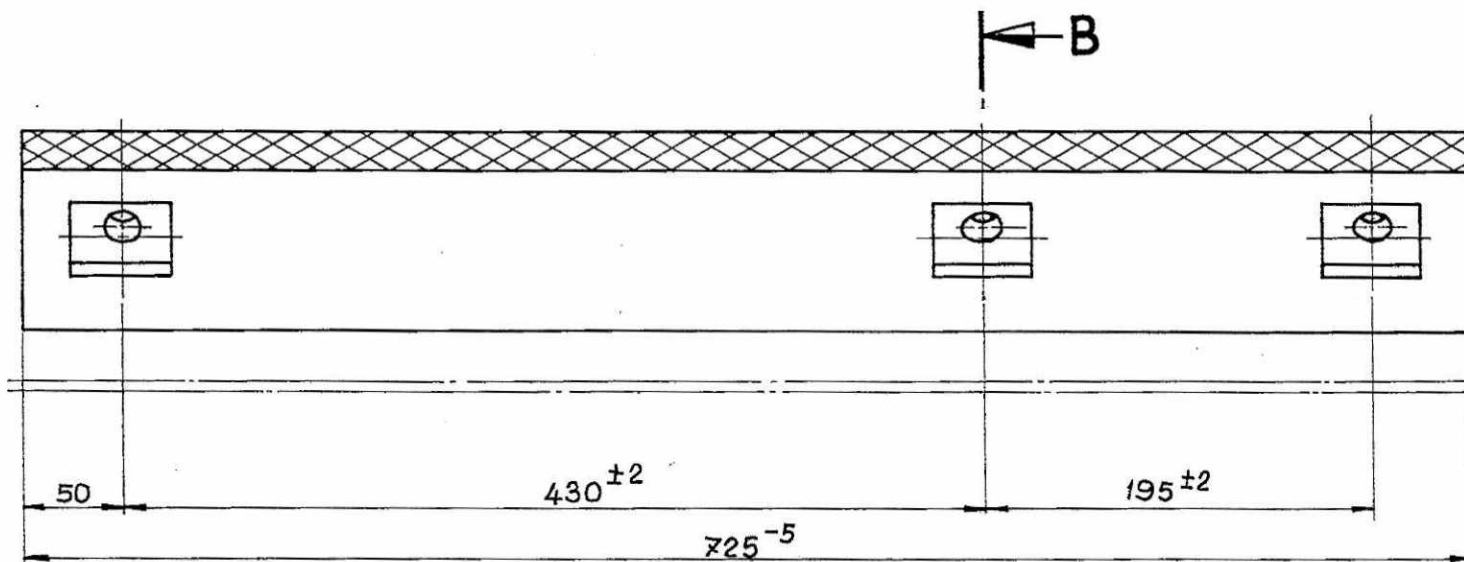
ITEM NO.	DESCRIPTION	DRAWING NO.	90° SHORE A	
			POLYURETHANE	18
			MATL CODE	UNIT WT
			MATL SPEC	QTY

EQPT: STRAIGHTENING MACHINE KR75 WITH FACILITIES

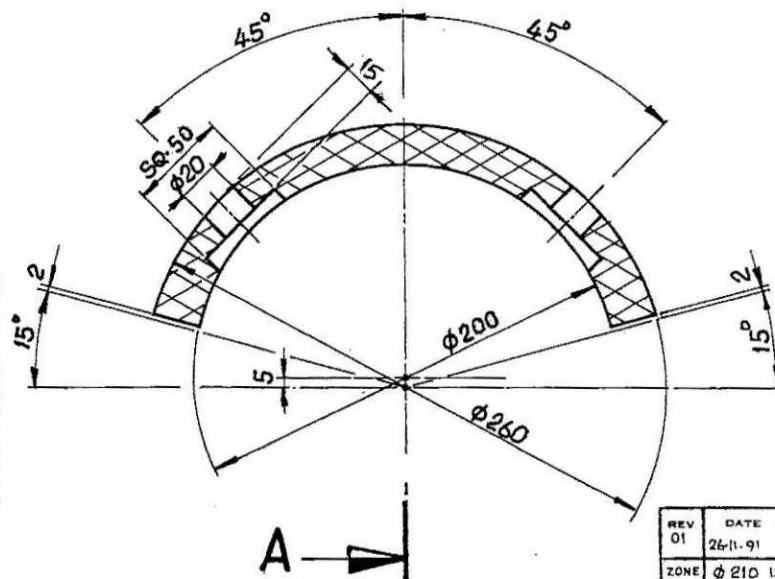
DRN	NAME	SIGN	DATE	NO. OF ITEMS
CHD	A. PRACKIAM	J. J. J. J.	20.3.90	
APPD				

REV	DATE	ALTERED	DEPT	GRADE OF UNTOOL DIM C M/F	SCALE	WEIGHT (KG)	REF TO ASSY/OLD DRG	ITEM NO.
01		CHECKED			1:2.5		1-7-0136-02-01320 0512069-10-301	3
ZONE								
TITLE						CARD CODE	DRAWING NO	REV
TROUGH LINER-TYPE III (BOTTOM)						U 01	3-7-0136-02-03035	00

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SECTION-AA

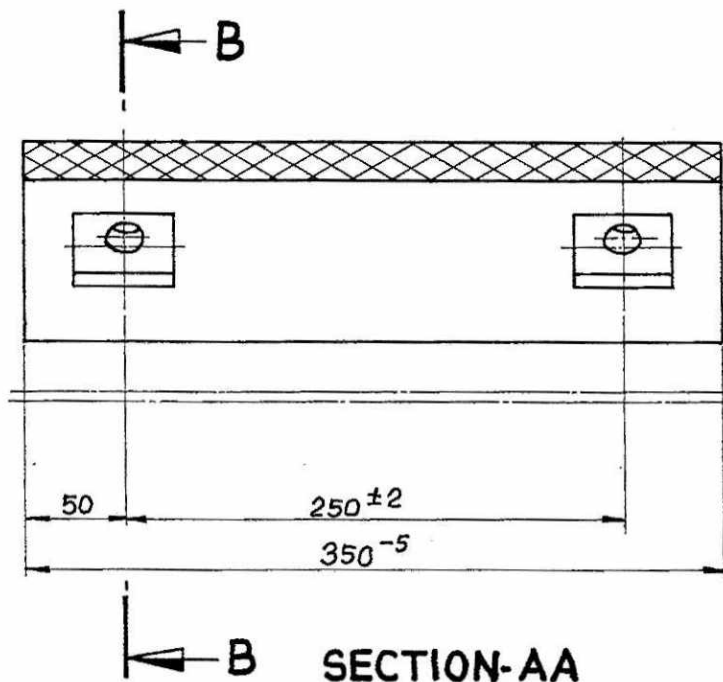
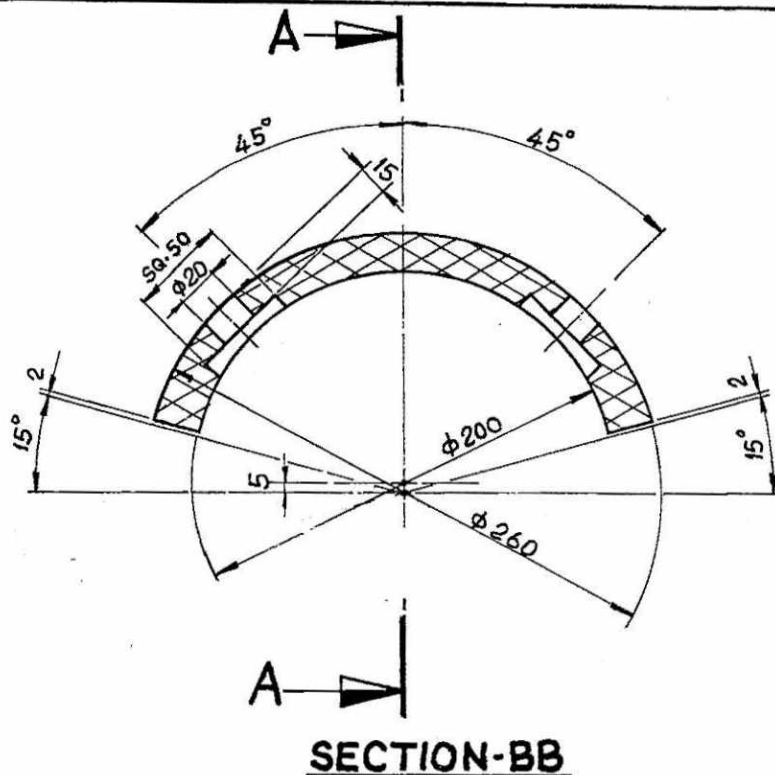


SECTION-BB

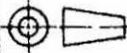
THIS DRG. SUPERSEDS DRG. NO. 3-7-0136-02-00984

		90° SHORE A					
		POLYURETHANE		9			
ITEM NO.	DESCRIPTION	DRAWING NO.	MATL CODE	UNIT WT			
			MATL SPEC	QTY			
EQPT: STRAIGHTENING MACHINE KR75 WITH FACILITIES							
Bharat Heavy Electricals Ltd., SEAMLESS STEEL TUBE PLANT TIRUCHIRAPALLI 620 014		DRN	NAME	SIGN	DATE	NO. OF ITEMS	
		CHD					
		APPD					
REV 01	DATE 26.11.91	ALTERED <i>G. Rajan</i>					
ZONE		CHECKED <i>P. Srinivasan</i>					
φ 210 IS CHANGED TO φ 200 AND SQ. 48 IS CHANGED TO SQ. 50 AS PER SHOP MTCE. REQUEST.		DEPT	GRADE OF UNTO DIM C M/F	SCALE 1:2.5	WEIGHT	REF TO ASSY / OLD DRG 1-7-0136-02-01320 0512073-10-301	
TITLE		TROUGH LINER TYPE IV (TOP)		CARD CODE U 01	DRAWING NO 37-0136-02-03036	REV 01	

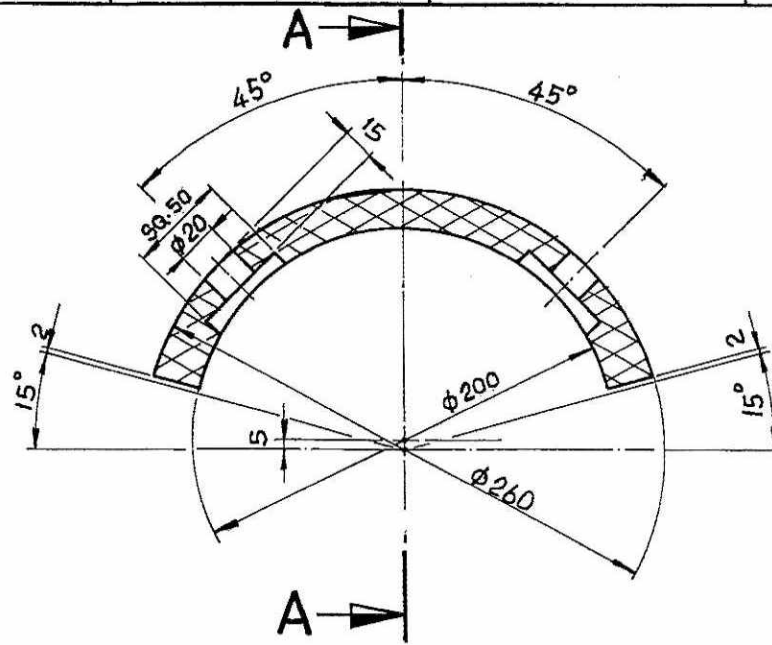
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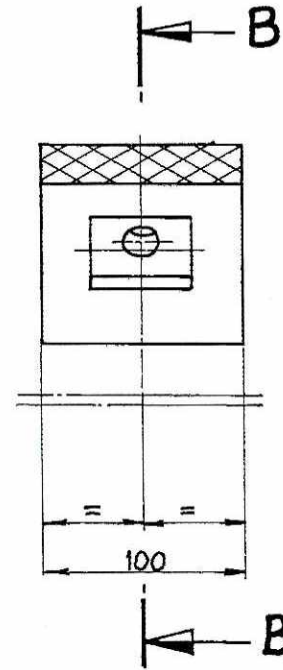
THIS DRG. SUPERSEDS DRG. NO. 2-7-0136-02-01652

		90° SHORE A					
		POLYURETHANE		18			
ITEM NO.	DESCRIPTION	DRAWING NO.	MATL CODE	UNIT WT			
			MATL SPEC	QTY			
EQPT: STRAIGHTENING MACHINE KR75 WITH FACILITIES							
 Bharat Heavy Electricals Ltd., SEAMLESS STEEL TUBE PLANT TIRUCHIRAPALLI-620 014		DRN	NAME	SIGN	DATE	NO. OF ITEMS	
		CHD					
		APPD					
REV 01	DATE 26-11-91	ALTERED G. Rajan					
		CHECKED R. Rajan					
ZONE	φ210 IS CHANGED TO φ200 AND SQ.48 IS CHANGED TO SQ.50 AS PER SHOP MTCE. REQUEST.						
DEPT	GRADE OF TOL. DIM C. M/F			SCALE 1:2.5	WEIGHT (KG)	REF TO ASSY BLD DRG	
CODE						1-7-0136-02-01320	
TITLE		TROUGH LINER-TYPE V		CARD CODE	DRAWING NO	ITEM NO.	
		(TOP)		U 01	3-7-0136-02-03037	01	

FIRST ANGLE PROJECTION (ALL DIMENSIONS IN MILLIMETRES)



SECTION-BB



SECTION-AA

THIS DRG. SUPERSEDES DRG. NO. 3-7-0136-02-01188

		90° SHORE A				
		POLYURETHANE		18		
ITEM NO.	DESCRIPTION	DRAWING NO.	MATL. CODE	UNIT WT.		
			MATL. SPEC.	QTY.		
EOPT: STRAIGHTENING MACHINE KR75 WITH FACILITIES						
 Bharat Heavy Electricals Ltd., SEAMLESS STEEL TUBE PLANT TIRUCHIRAPALLI-620 014		DRK	NAME	SIGN	DATE	NO. OF ITEMS
		CHK			20.03.91	
		APPD			24.03.91	
REV. 01	DATE 26.11.91	ALTERED	CHECKED			
ZONE φ210 IS CHANGED TO φ200 AND 90.48 IS CHANGED TO 90.50 AS PER SHOP MTCE. REQUEST		DEPT.	GRADE OF UNTOLODIM C/M/F	SCALE 1:2.5	WEIGHT (Kg)	REF. TO ASD/OLO DRG. 1-7-0136-02-01320 0512069-10.304
		TITLE		CARD CODE	DRAWING NO.	REV
		TROUGH LINER-TYPE VI (TOP)		U 01	3-7-0136-02-03038	01

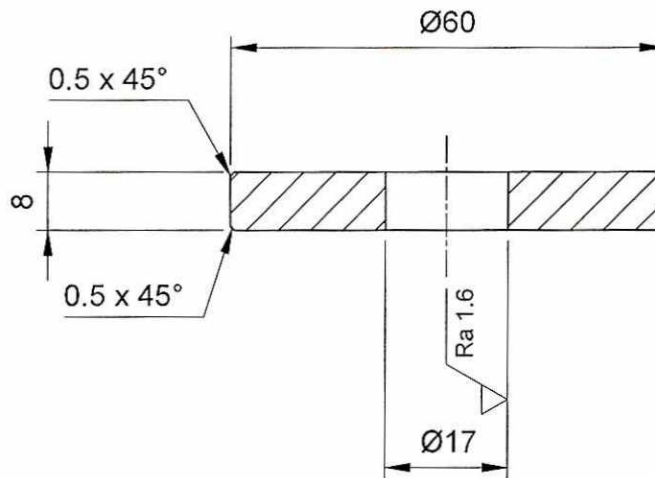
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08-229/C

ALL DIMENSIONS ARE IN MM

REV 01	DATE 14.03.90	ALTERED	G. Rajendrakumar	REV 02	DATE 26.06.90	ALTERED	G. Rajendrakumar
		CHECKED	A. Arockiam			CHECKED	A. Arockiam
		APPROVED	S. S. Sundaram			APPROVED	S. S. Sundaram
Ø17 WAS Ø11				Ø60 WAS Ø48			
REV 03	DATE 05.06.95	ALTERED	G. Rajendrakumar	REV 04	DATE 24.07.13	ALTERED	R. Vinoth kumar
		CHECKED	A. Arockiam			CHECKED	S. Loganathan
		APPROVED	S. S. Sundaram			APPROVED	M. Chandrakumar
MATERIAL SPCN Fe 410 WA IS 2062 WAS C20 IS 226				DRAWING CONVERTED TO ACAD			

✓ Ra 3.2



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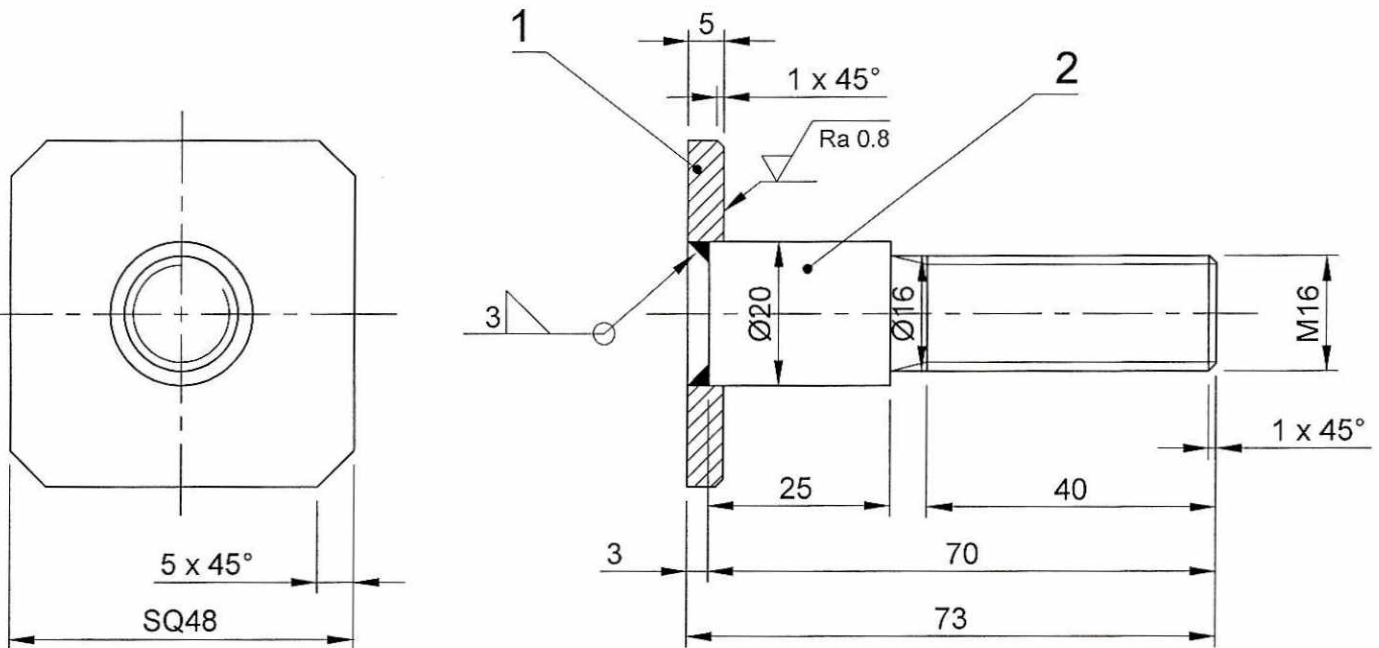
ITEM NO	DESCRIPTION	DRAWING NO	E 250B IS 2062	UNIT WT	
			MATL CODE	QTY	
			MATL SPEC		
EQPT: STRAIGHTENING MACHINE KR 75 WITH FACILITIES					
 Bharat Heavy Electricals Ltd SEAMLESS STEEL TUBE PLANT TIRUCHIRAPALLI - 620014		DRN	NAME G. RAJENDRAKUMAR	SIGNATURE <i>G. Rajendrakumar</i>	DATE 14.03.90
		CHD	A. AROCKIAM	<i>A. Arockiam</i>	14.03.90
		APPD	S. S. SUNDARAM	<i>S. S. Sundaram</i>	14.03.90
DEPT SSTP CODE 456	GRADE OF UNTOL. DIM $\phi / M / \#$ IS: 2102	SCALE 1:1	WEIGHT (Kg) 0.1	REF TO ASSY DWG NO 1-7-0136-02-01320	ITEM 8
TITLE KRC - WASHER FOR RETAINER BOLT TROUGH LINING ASSEMBLY			CARD CODE U 01	DRAWING NO : 4-7-0136-02-01191	REV 04

A4-SIZE

ALL DIMENSIONS ARE IN MM

REV 01	DATE 26.06.90	ALTERED	G. Rajendrakumar	REV 02	DATE 26.11.91	ALTERED	G. Rajendrakumar
		CHECKED	A. Arockiam			CHECKED	A. Arockiam
		APPROVED	S. S. Sundaram			APPROVED	S. S. Sundaram
DIMENSIONS 73,70,25 & 3 WERE 82,82,32 & 2 RESPECTIVELY. PLATE THICKNESS 6mm OF ITEM NO 1 WAS 4mm				PLATE THICKNESS 6 IS ALTERED TO 5 AS PER SHOP MTCE REQUEST			
REV 03	DATE 23.06.93	ALTERED	G. Rajendrakumar	REV 04	DATE 24.07.13	ALTERED	R. Vinoth kumar
		CHECKED	A. Arockiam			CHECKED	S. Loganathan
		APPROVED	S. S. Sundaram			APPROVED	M. Chandrakumar
MATERIAL SPCN Fe 410 WA IS 2062 FOR ITEM NO 1 AND 30 C8 IS 1875 FOR ITEM NO 2 WERE C20 IS 226 C30 IS 2073				DRAWING CONVERTED TO ACAD MATERIAL SPCN E 250B IS 2062 FOR ITEM NO 1 & 2, WERE Fe410 WA IS 2062 & 30C8 IS 1875 RESPECTIVELY			

✓ Ra 3.2 (✓ Ra 0.8)



NOTE:

THIS DRG. SUPERSEDS DRG.NOS 4-7-0136-02-01190 & 4-7-0136-02-02902

2	RO Ø22 x 70 L IS 1732			0.20
			E 250B IS 2062	1
1	PL 48 x 48 x 6 IS 1730			0.10
			E 250B IS 2062	1
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT
			MATL SPEC	QTY

EQPT: STRAIGHTENING MACHINE KR75 WITH FACILITIES



Bharat Heavy Electricals Ltd
SEAMLESS STEEL TUBE PLANT
TIRUCHIRAPALLI - 620014

DRN	NAME G. RAJENDRAKUMAR	SIGNATURE G. Rajendrakumar	DATE 16.03.90
CHD	A. AROCKIAM	A. Arockiam	16.03.90
APPD	S. S. SUNDARAM	S. S. Sundaram	16.03.90

DEPT S5TP	GRADE OF UNTOL. DIM	SCALE	WEIGHT (Kg)	REF TO ASSY DWG NO 1-7-0136-02-01320	ITEM 7
CODE 456	φ/M/£ IS: 2102	1:1	0.3	REF TO OLD DWG NO	
TITLE KRC - RETAINER BOLT M16 TROUGH LINING ASSEMBLY			CARD CODE U 01	DRAWING NO : 4-7-0136-02-04066	REV 04

A4-SIZE

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