



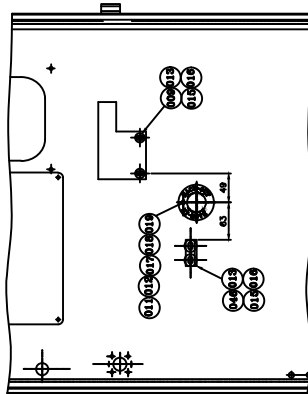




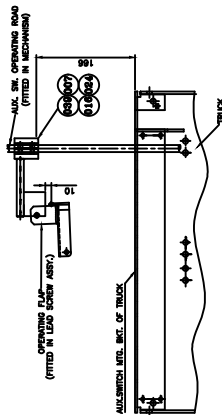




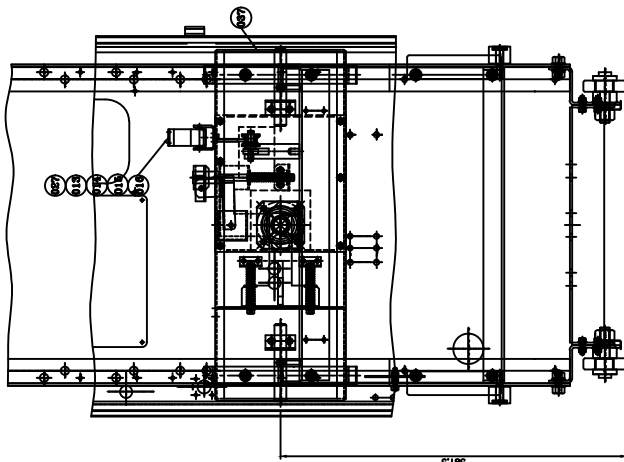
15212001547



SETTING OF WEDGE & DOOR CATCH  
REAR VIEW OF DOOR



SETTING OF STRIKER  
VAR.02



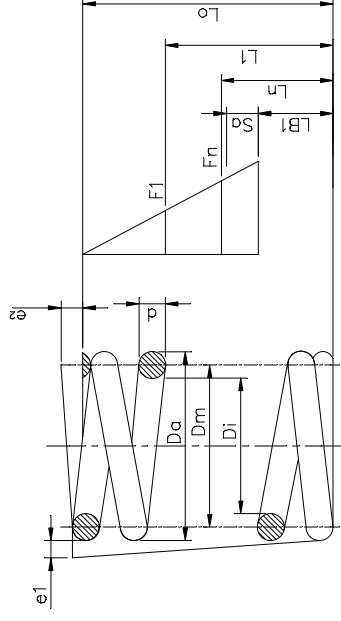


SPRING PARAMETERS:

1	WIRE DIAMETER	d= 1 mm. ± mm.
2	WIRE MATERIAL CONFIRMS TO STANDARD	IS4454:1981 (PART I) GRADE 3 PATENTED COLD DRAWN SPRING STEEL WIRE MADE OF UNALLOYED STEEL.
3	MEAN WINDING DIA. OUTSIDE WINDING DIA.	Dm= 12.5 mm*. Dg= 13.5 mm. ±0.5 mm.
4	DIRECTION OF WINDING	RIGHTHAND.
5	MODULUS OF RIGIDITY	G=8300 Kg./mm <sup>2</sup>
6	FREE LENGTH	Lo= 115mm.
7	LENGTH SPRING LOAD AT L1	L1= 100mm. F1=0.45Kg. ± Kg.
8	LENGTH SPRING LOAD AT Ln	Ln= 39.4mm. Fn=2.24Kg. ± Kg.
9	SOLID LENGTH	LB1= 20.5mm.
10	NO.OF ACTIVE TURNS TOTAL NO.OF TURNS	if= 18.5 * ig= 20.5
11	SPRING ENDS	CLOSED AND GROUND
12	DEBURRING OF THE SPRING ENDS	OUT SIDE
13	SPRING TEMPERING	REQUIRED
14	SHEAR STRESS AT LOAD Fn (TZUL=PERMISSIBLE SHEAR STRESS)	Tkn= Kg./mm <sup>2</sup> ≤ Tzul

15	SPRING SCALE	$C=0.029Kg./mm. *$
16	PERMISSIBLE DEVIATIONS	$e1=$ $e2=$ mm. mm.
17	BALANCE OF MANUFACTURING BY IF, LO AND d EFFORTS	
18	SURFACE FINISH— PHOSPHATING TO AA0673616	
19	ADDITIONAL INFORMATION : —	

\* ONLY CALCULATED VALUES.



## ENDS CLOSED AND GROUNDED

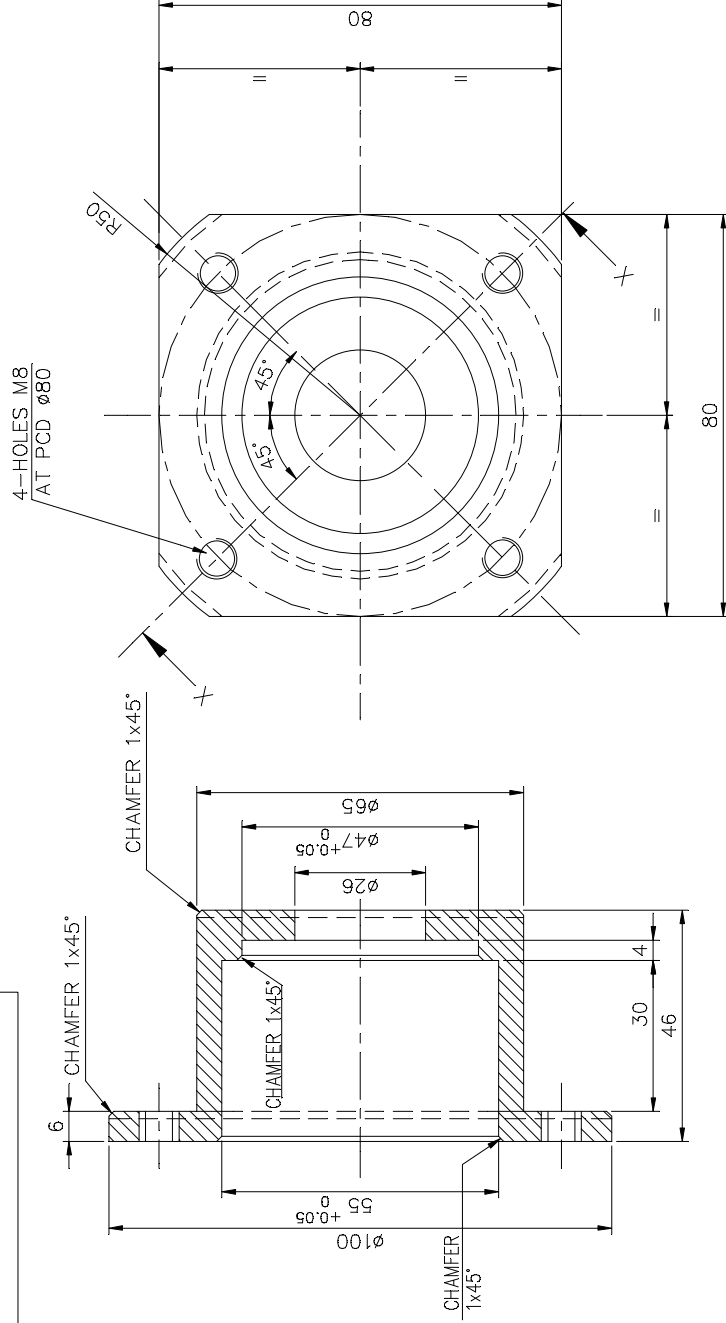
NOTE: —

1. WIRE DIA. ACCURACY SHALL CONFIRM TO CLASS 'C' AS PER DIN2076.
2. MATERIAL TO GRDE 'C' DIN.17223 MAY BE USED AS AN ALTERNATIVE.
3. PERMISSIBLE DEVIATIONS AS PER QUALITY GRADE 2 OF DIN-2095.
4. ALTERNATIVELY SPG. TO BE MANUFACTURED FROM CHROMIUM SPG.S.WIRE TO BP40571-
5. REFER PRODUCT STD SG.12712 FOR MANUFACTURING TESTING AND ACCEPTANCE INSTRUCTIONS.

FINISH: — SEE INSTRUCTION 18 OF TABLE

VAR CD	REMARKS	VARI NO.	ITEM NO	DESCRIPTION	S.D.
	ST 943418		001	1 DIA.x805 LG PATENTED COLD DRAWN SPG. STEEL WIRE	
				BP 10398	
				MATL. CODE	
				IT.NO	
				DRAWING NO.	
				VAR	
				MATL. SPECN.	
				UNIT WT.	
				QTY.	

[illegible]



## SECTION 'X-X'

1T.001

[illegible]

NOTES:

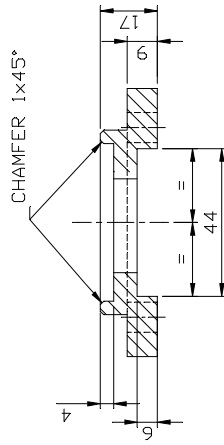
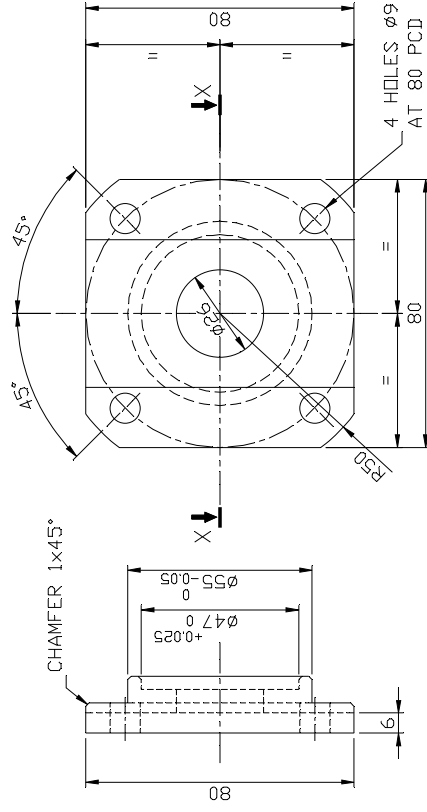
1. FINISH : –  
ZINC PLATE & PASSIVATE TO AA0673603  
& AA 0673604 (0.013 TO 0.015 TK)

[illegible]

NOTE: -

1 FINISH: -

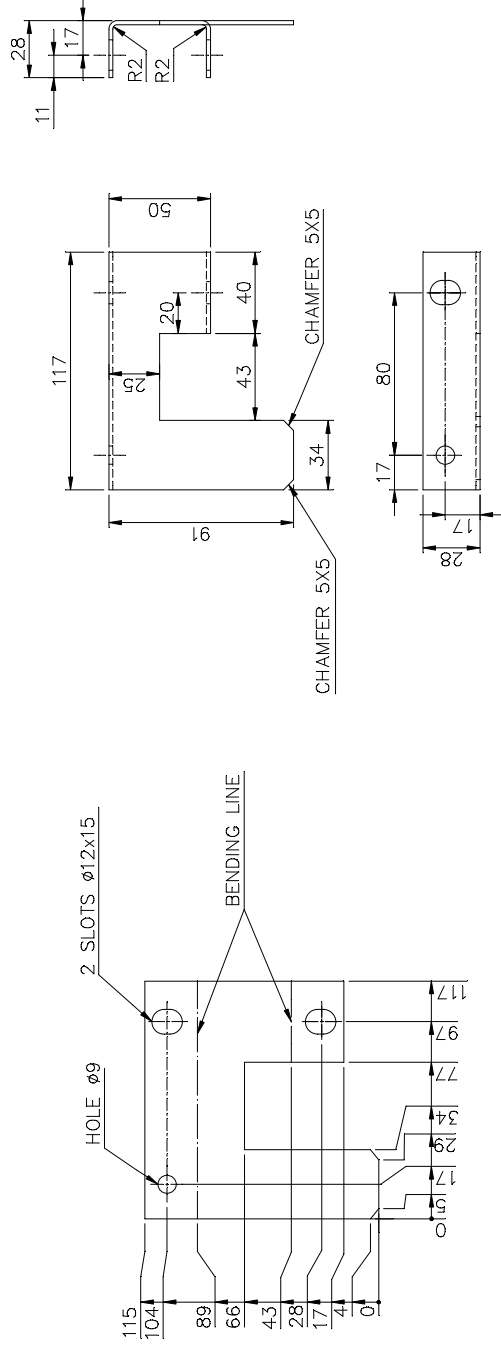
ZINC PLATE & PASSIVATE TO AA0673603  
& AA0673604 (0.013 TO 0.15 TK.) RESPECTIVELY

[illegible]

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FINISH: —

ZINC PLATE & PASSIVATE TO  
AA 0673603 & AA0673604  
(0.015 TK MIN.)



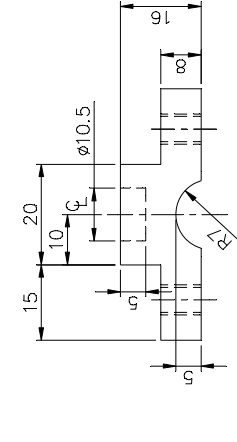
INVENTORY NO.	SIGN. & DATE	35211001776-R00=S01 REF. DRG. NO.
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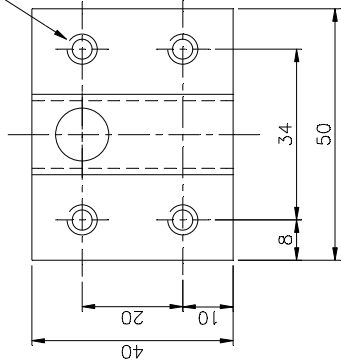
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

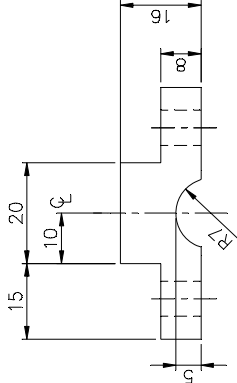
DRG. NO. 125 2



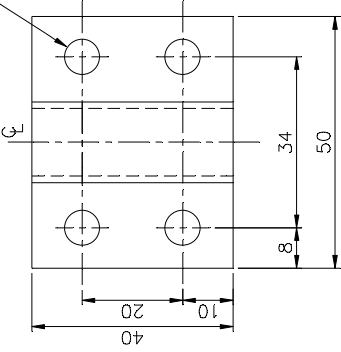
4HOLES M6



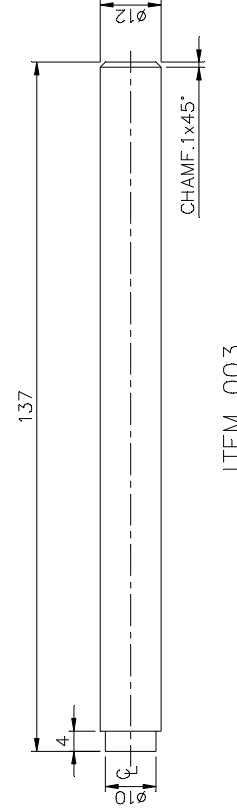
ITEM 001



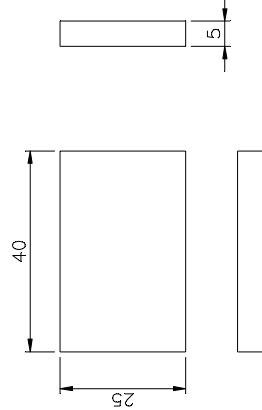
4HOLES Ø7



ITEM 002



ITEM 003



ITEM 004

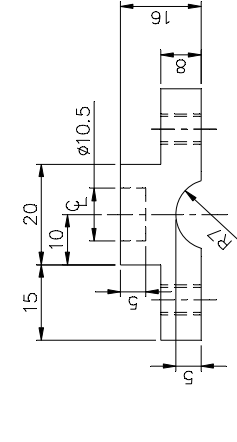
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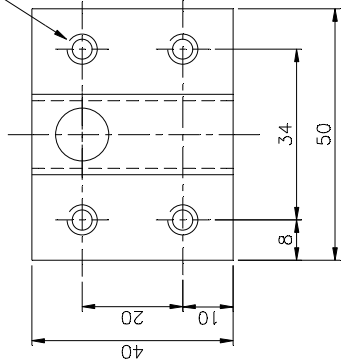
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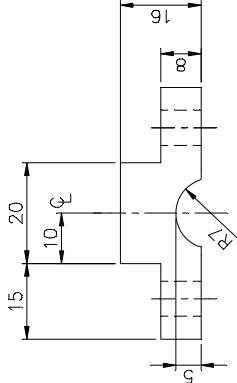
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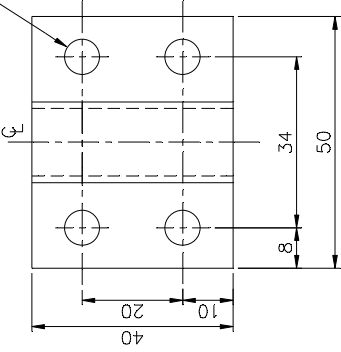
4HOLES M6



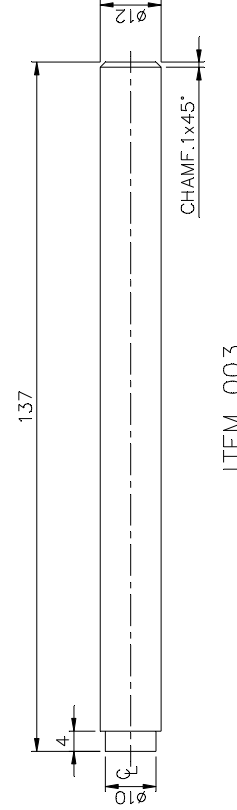
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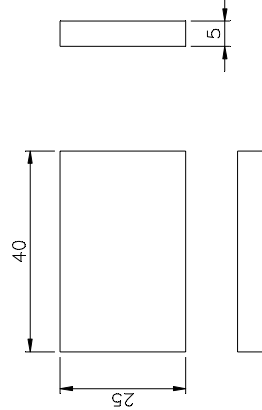
4HOLES Ø7



ITEM 002



ITEM 003

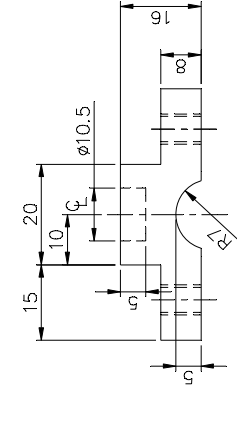


ITEM 004

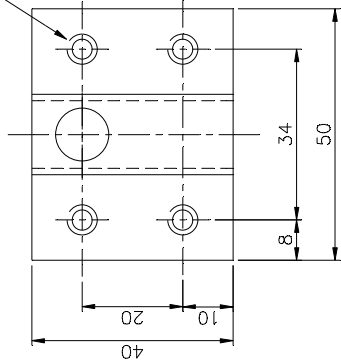
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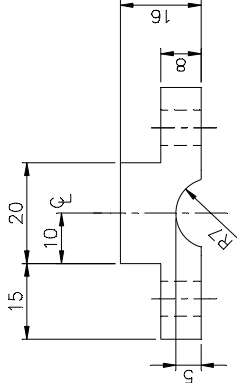
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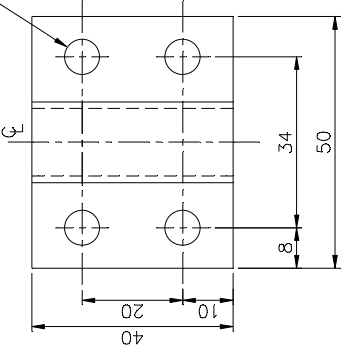
4HOLES M6



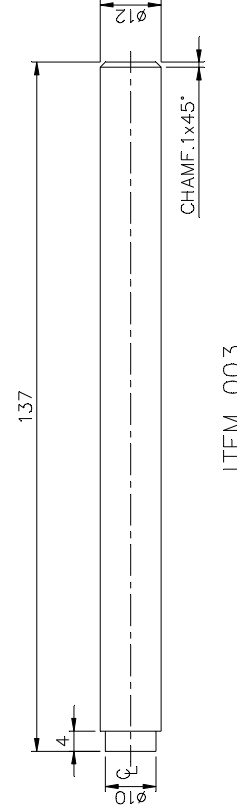
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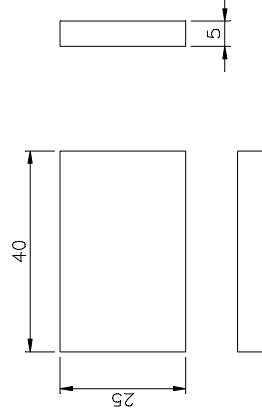
4HOLES Ø7



ITEM 002



ITEM 003

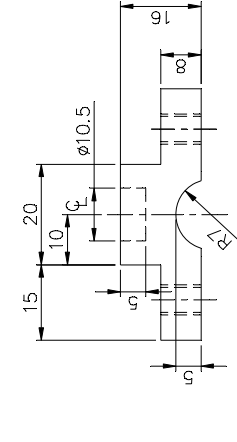


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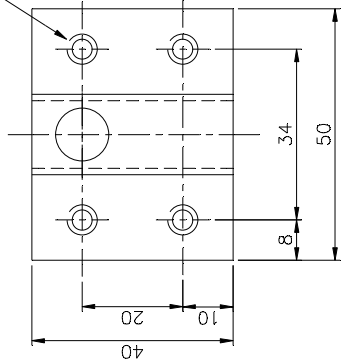
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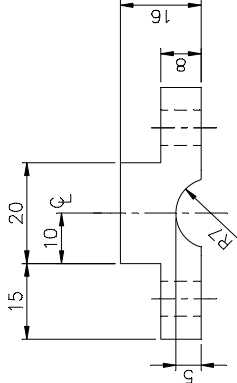
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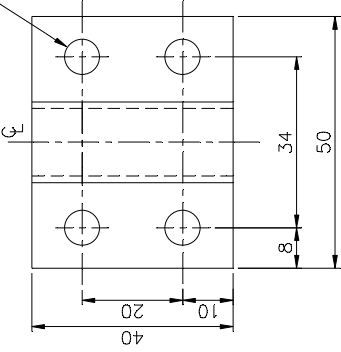
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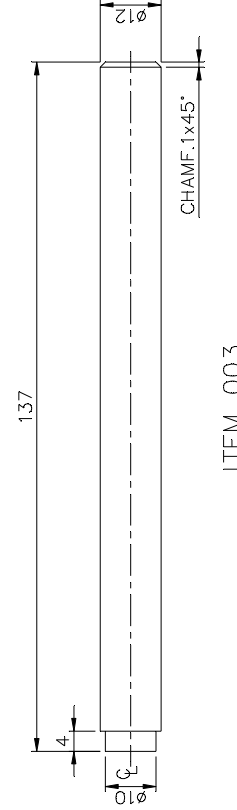
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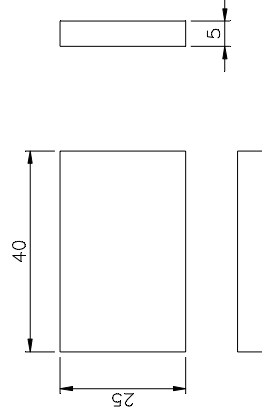
4HOLES Ø7



ITEM 002



ITEM 003

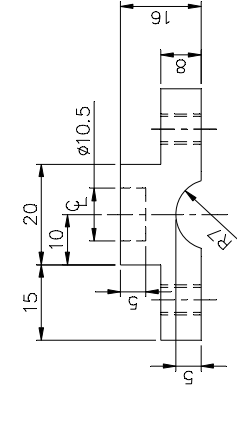


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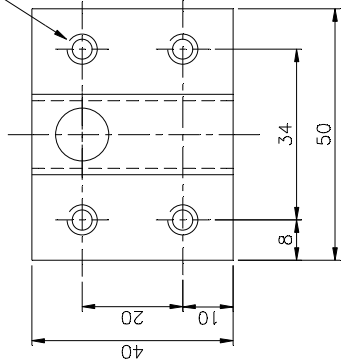
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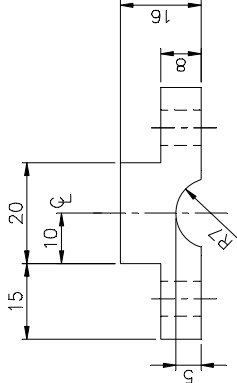
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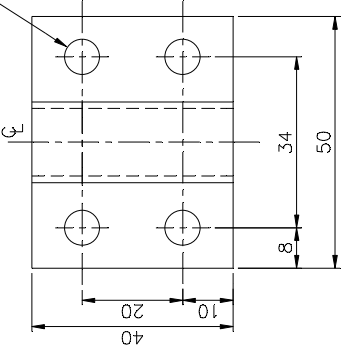
4HOLES M6



ITEM 001



4HOLES Ø7

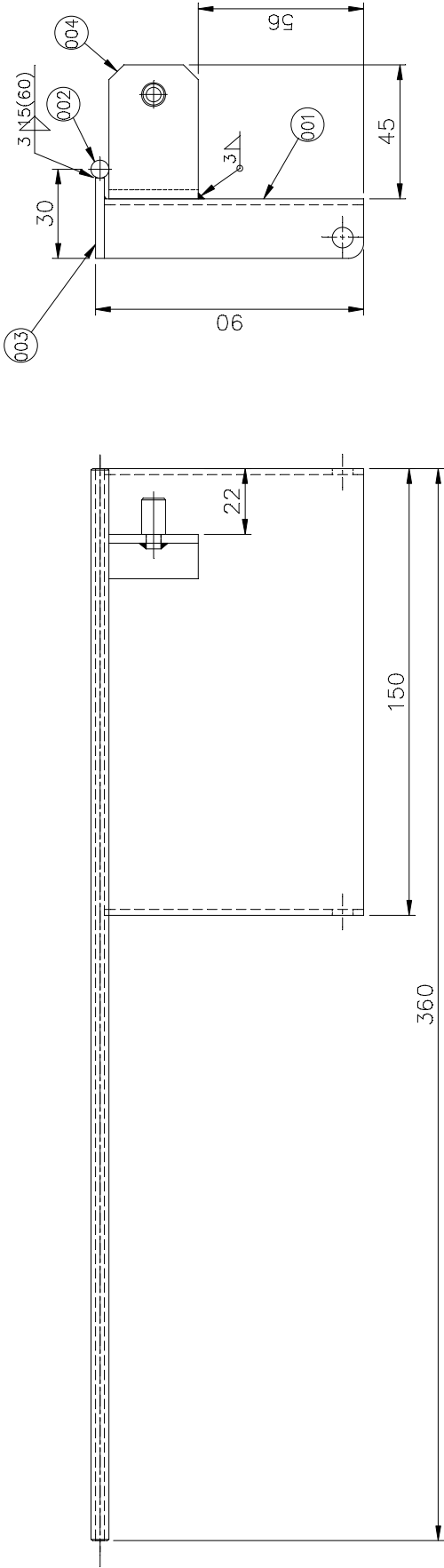












GES NO. 409530067 FOR VAR.00

NOTE: -  
ITEM 01 TO 004 ARE TO BE WELDED AS SHOWN.

FINISH: -  
ZINC PLATE & PASSIVATE TO PR. SPEC. NO.  
AA 0673603 & AA 0673604 (0.013 TO 0.015 TK.)  
RESPECTIVELY.

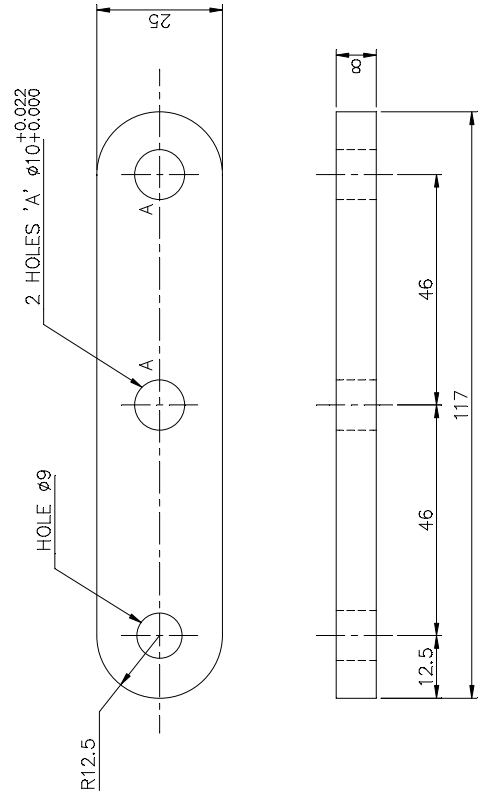
001	409530068	004	W.A. OF CATCH	35211001806	00	0.0449		
001		003	3 TK X 27X360LG H.R.C.S.SHEET			0.2289		
001		002	6 DIA X 360LG STRLST.ROUND BAR.			0.0799		
001		001	2TK X 87X182 LG H.R.C.S. SHEET			0.2486		
VAR00	REMARKS	VAR. NO.	DESCRIPTION	DRAWING NO.	UNIT WT.	QTY.		
65	75 78 79 25 27 28	58 59 60	77	32 33 46	55 56 57 58	65 71	72	73

28 → CARD TYPE-3		28 → CARD TYPE-1		28 → CARD TYPE-2	
ADDITIONAL INFORMATION		mRikn dk i-dkj :k xx-gd@fj:ketuk dk uke TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		VM-12 (BT)	
STATUS OF DRAWING		HAKJ'r gsoh bysfDV&dYl fyfeVsm HAKSILKY BHARAT HEAVY ELECTRICALS LTD. BHOPAL		uakNAME S.U.S. S.S.A. H.R.P.	
DISTRIBUTION OF PRINTS		HAKJ'r gsoh bysfDV&dYl fyfeVsm HAKSILKY BHARAT HEAVY ELECTRICALS LTD. BHOPAL		fmaukDATE 10.09.03 10.09.03 10.09.03	
O.COPY-----1 SWM-----3 TCX-----1		HAKJ'r gsoh bysfDV&dYl fyfeVsm HAKSILKY BHARAT HEAVY ELECTRICALS LTD. BHOPAL		fmaukDATE 10.09.03 10.09.03 10.09.03	
REV.	DATE	ALTERED CHECKED APPROVED	DATE	ALTERED CHECKED APPROVED	DATE
01	25.2.06				
DIM. 22 WAS 25.		1:1.5		HAKJ'r gsoh bysfDV&dYl fyfeVsm HAKSILKY BHARAT HEAVY ELECTRICALS LTD. BHOPAL	
(DCA. NO.25233)		W. A. OF FLAP		HAKJ'r gsoh bysfDV&dYl fyfeVsm HAKSILKY BHARAT HEAVY ELECTRICALS LTD. BHOPAL	
INVENTORY NO.		35211001786		HAKJ'r gsoh bysfDV&dYl fyfeVsm HAKSILKY BHARAT HEAVY ELECTRICALS LTD. BHOPAL	
SIGN. & DATE		35211001786-R01=S01		HAKJ'r gsoh bysfDV&dYl fyfeVsm HAKSILKY BHARAT HEAVY ELECTRICALS LTD. BHOPAL	
IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY		35211001786-R01=S01		HAKJ'r gsoh bysfDV&dYl fyfeVsm HAKSILKY BHARAT HEAVY ELECTRICALS LTD. BHOPAL	

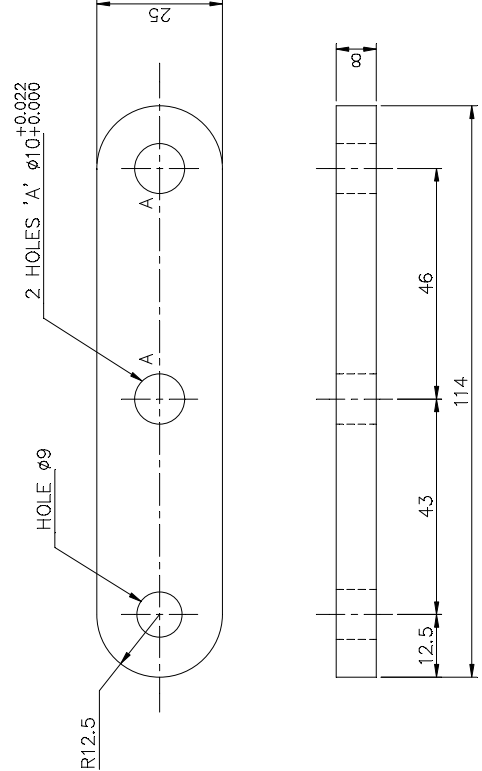


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ITEM 001



ITEM 002

		002	8 Tk. x 25 x 114LG. BRT. ST. FLAT		AA 1010312170	0.178
		001	8 Tk. x 25 x 117LG. BRT. ST. FLAT		AA 1010312170	—
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. MATERIAL CODE A	UNIT WT. KG.
					VAR	QTY

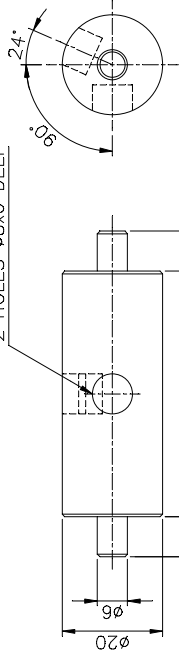
FINISH: —  
ZINC PLATE & PASSIVATE TO PR. SPEC. NO.  
AA 0673603 & AA 0673604 (0.013 TO 0.015 TK.)  
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3521	REF. DRG. NO.	FINISH: —										VM-12 (BT)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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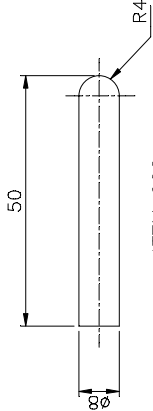
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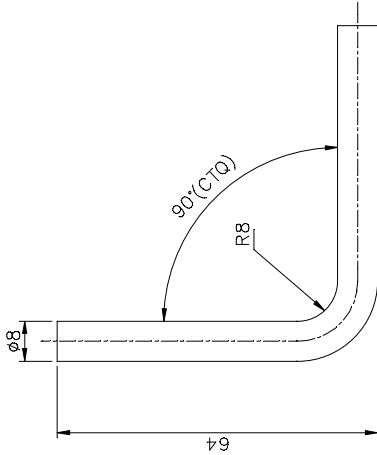
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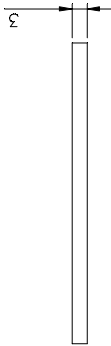
ITEM 001



ITEM 002



ITEM 003



ITEM 004

35211001788-R03-S01

REF.DRG.NO.

SIGN. & DATE

INVENTORY NO.

VAR NO	REMARKS	VAR NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	KG.	UNIT	WT.
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REF.D		3521										INVENTORY NO.										SIGN. & DATE										ADDITIONAL INFORMATION										TYPE OF PRODUCT OR NAME OF CUST/PROJ										VM-12 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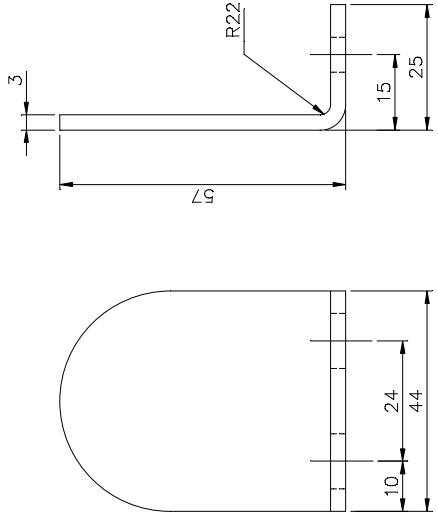
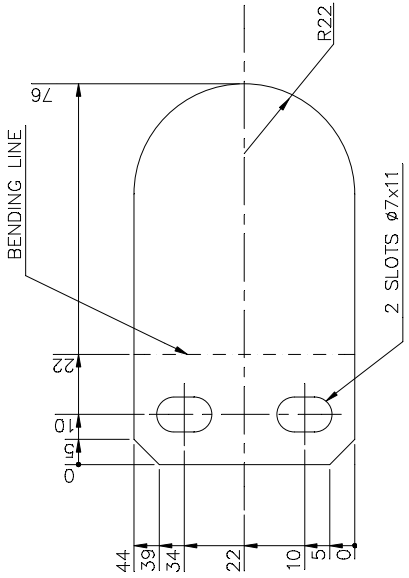




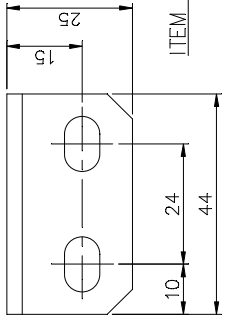


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DEVELOPMENT OF ITEM 001



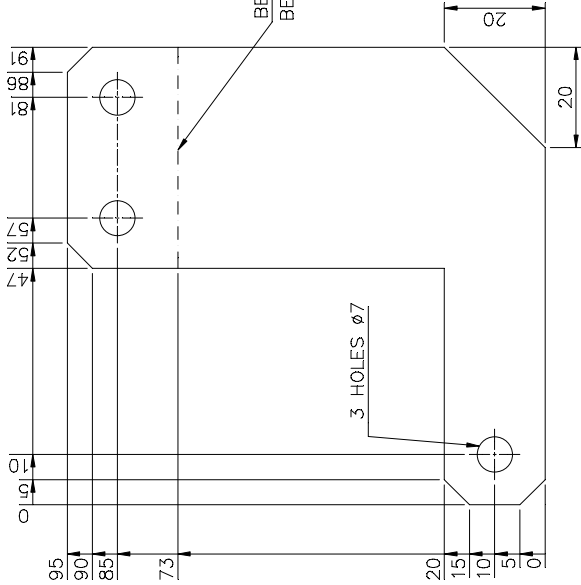
VAR 00	REMARKS	001	3 TK. x 44 x 76 LG. H.R.C.S. SHEET	AA 1011713136	0.0788
		ITEM NO.		AA 10113	001
				MATERIAL CODE	A
				MATL. SPON.	C
					UNIT WT.
					QTY

FINISH: -  
ZINC PLATE & PASSIVATE TO  
AA 0673603 & AA 0673604 (0.013 TO 0.015 TK.)  
RESPECTIVELY.

REF.DRG.NO.		35211001797-R01-S01		TYPE OF PRODUCT OR NAME OF CUST/PROJ		VM-12 (BT)	
SIGN. & DATE		STATUS OF DRAWING		DISTRIBUTION OF PRINTS		BHARAT HEAVY ELECTRICALS LIMITED BHOPAL	
O.COPY-----1 SWM-----3 TCX-----1		O.COPY-----1 SWM-----3 TCX-----1		O.COPY-----1 SWM-----3 TCX-----1		O.COPY-----1 SWM-----3 TCX-----1	
REV	DATE	DRN	DATE	REV	DATE	DRN	DATE
01	05.12.07	CKD	05.12.07	01	05.12.07	CKD	05.12.07
		APPD				APPD	
DIM. 76 WAS 84		SUS		SUS		SUS	
(DCA NO. 27119)		MAK		MAK		MAK	
		DIVYA		DIVYA		DIVYA	
		DEPT		DEPT		DEPT	
		SWE		SWE		SWE	
		CODE		CODE		CODE	
		4.09		4.09		4.09	
		TITLE		TITLE		TITLE	
		WEDGE BRACKET		WEDGE BRACKET		WEDGE BRACKET	
		3 521 10 01797		3 521 10 01797		3 521 10 01797	
		REV. 01		REV. 01		REV. 01	
		SHT.NO. 01		SHT.NO. 01		SHT.NO. 01	
		NO.OF SHT. 01		NO.OF SHT. 01		NO.OF SHT. 01	

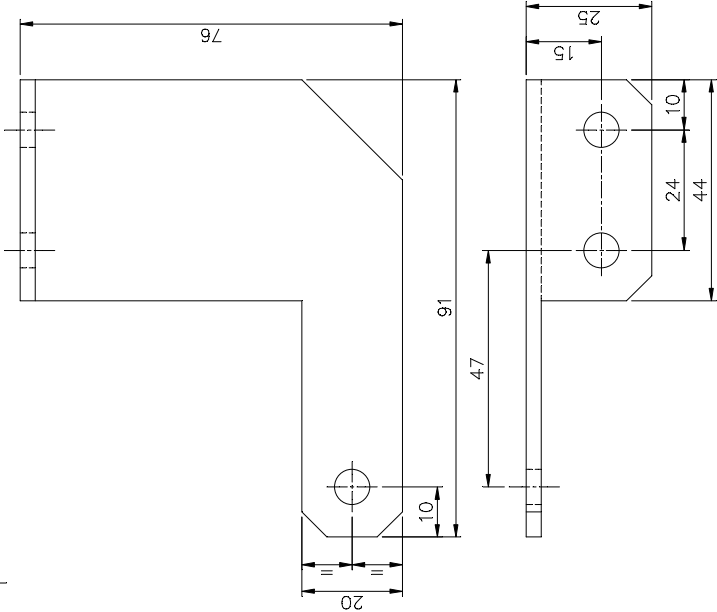
FIRST ANGLE PROJECTION

DRG. NO. 011295



BEND UP FOR IT. 001  
BEND DOWN FOR IT. 002

DEVELOPMENT OF ITEM 001 & 002



ITEM 001 & 002

(ALL DIMENSIONS ARE IN mm)

181

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REF. DRG. NO. 35211001798-R00-S01

SIGN. & DATE

FINISH:-  
ZINC PLATE & PASSIVATE TO  
AA 0673603 & AA 0673604 (0.013 TO 0.015 TK.)  
RESPECTIVELY.

INVENTORY NO.

REV.	DATE	ALTERED CHECKED APPROVED

ADDITIONAL INFORMATION

STATUS OF DRAWING

DISTRIBUTION OF PRINTS

Q. COPY-----1  
SWM-----3  
TCX-----1

28 → CARD TYPE-3

28 → CARD TYPE-1

mRikn dk i-dkj ;k  
xk-gd@fj;ketuk dk uke  
TYPE OF PRODUCT OR  
NAME OF CUSTOMER/PROJECT

VM-12 (BT)



for Aksh  
DEPT SWE  
CODE 409

HAJ jr gsoh bysfdV&dYl fyleVsM  
HAKSIKY  
BHARAT HEAVY ELECTRICALS LTD.  
BHO PAL

HAJ jr gsoh bysfdV&dYl fyleVsM  
HAKSIKY  
BHARAT HEAVY ELECTRICALS LTD.  
BHO PAL

HAJ jr gsoh bysfdV&dYl fyleVsM  
HAKSIKY  
BHARAT HEAVY ELECTRICALS LTD.  
BHO PAL

HAJ jr gsoh bysfdV&dYl fyleVsM  
HAKSIKY  
BHARAT HEAVY ELECTRICALS LTD.  
BHO PAL

HAJ jr gsoh bysfdV&dYl fyleVsM  
HAKSIKY  
BHARAT HEAVY ELECTRICALS LTD.  
BHO PAL

HAJ jr gsoh bysfdV&dYl fyleVsM  
HAKSIKY  
BHARAT HEAVY ELECTRICALS LTD.  
BHO PAL

HAJ jr gsoh bysfdV&dYl fyleVsM  
HAKSIKY  
BHARAT HEAVY ELECTRICALS LTD.  
BHO PAL

STRIKER MTC. BKT.

35211001798

01

A3



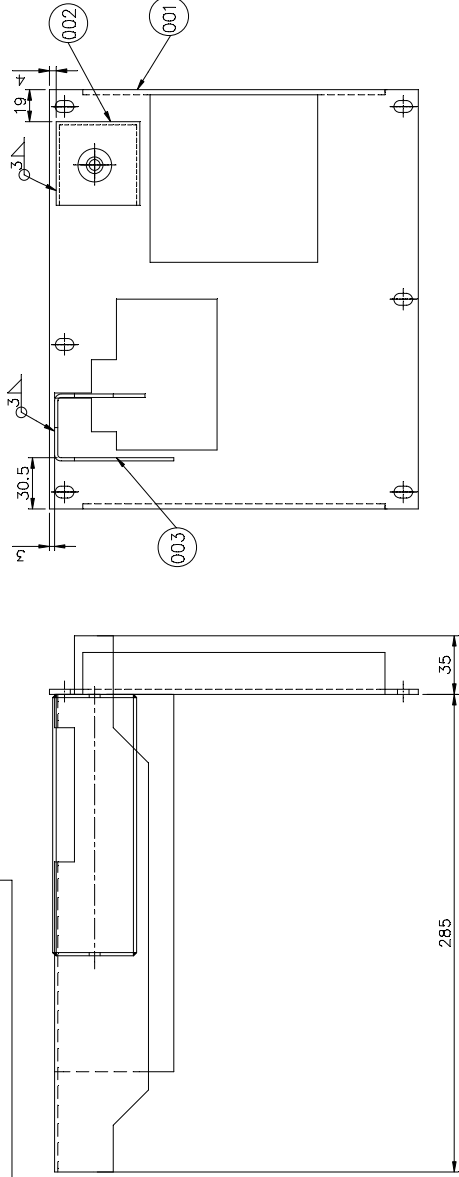











[illegible]

INVENTORY NO.	REV.		DATE	ALTERED	SUS	VIEW CORRECTED AS PER COMP. DRG.	(DCA NO. 26706)	(DCA NO. 36218)	SIGN. & DATE	55211	FINISH: — ZINC PLATE & PASSIVATE TO AA 0673603 & AA 0673604 (0.013 TO 0.015 TK.) RESPECTIVELY.	
	04	3.10.19	CHECKED	AT	03							9.3.07
REF. 1												
ADDITIONAL INFORMATION												
STATUS OF DRAWING												
DISTRIBUTION OF PRINTS												
O.COPY-----1												
SWM-----3												
TCX-----1												
mRikn dk i—dkj ;k xk—gd@fj;kestuk dk uke TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT												
VM-12 (BT)												
												
HAKj'r gsoh bysfDV&dyI fyfevsvMgukK HAKsiky BHARAT HEAVY ELECTRICALS LTD. BHOPAL												
ufk@NAME S.U.S. Sd/— 06.10.03												
gLRk@SGN Sd/— 06.10.03												
frmk@DATE 06.10.03												
esfj; dh iq; ;k NO. OF ITEM												
006												
vksjA d—DWING NO. 35211001805												
I=7B d—@EY No. 01												
I=7B@eg dh iq; ;k NO. OF SHIT: 03												

FIRST ANGLE PROJECTION

DRG. NO. 36218

(ALL DIMENSIONS ARE IN MM)

40/205

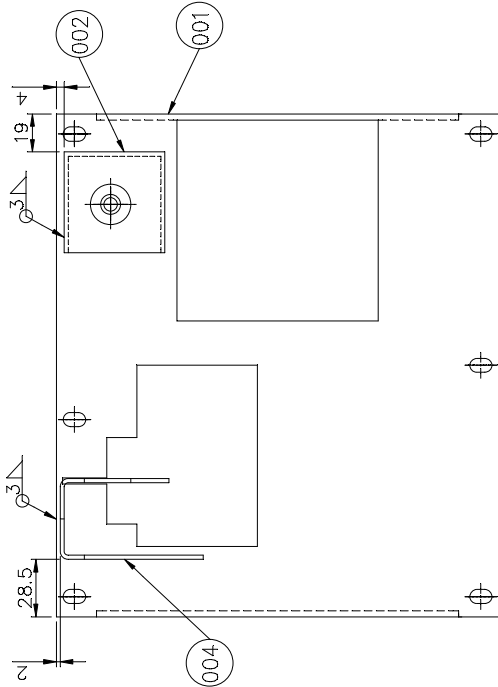
181

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REF. DRG. NO. 35211001805 R03 S02

SIGN. & DATE

INVENTORY NO.



VAR.01

65		75 76 79 25		27 29		58 59 60		77 29		31 34		45 55 56 58		65 72	
REMARKS		VAR. ITEM NO.		DESCRIPTION		DRAWING NO.		MATERIAL CODE		MATERIAL SPON.		UNIT WT.		QTY.	
				A 65				54		C		A 57		71	
28 TYPE-3				28		28		28		28		28		28	
ADDITIONAL INFORMATION				mRikn dk i-dkj :k xk-gd@fj:ksduk dk uke TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				VM-12 (BT)							
STATUS OF DRAWING															
DISTRIBUTION OF PRINTS															
O.COPY-----1															
SWM-----3															
TCX-----1															
REV.		DATE		ALTERED		HAKJIR gsoh bysfv&dY fyfevsM HAKSILKY BHARAT HEAVY ELECTRICALS LTD. BHOPAL		uk@NAME		gl-R@SGN		frak@DATE		asfj. dh	
02		1.02.06		CHECKED		HAKJIR gsoh bysfv&dY fyfevsM HAKSILKY BHARAT HEAVY ELECTRICALS LTD. BHOPAL		S.U.S.		Sd/-		06.10.03		06.10.03	
				APPROVED				S.U.S.		Sd/-		06.10.03		06.10.03	
ITEM 004 & SH. 02 ADDED.								HAKJIR gsoh bysfv&dY fyfevsM HAKSILKY BHARAT HEAVY ELECTRICALS LTD. BHOPAL		Sd/-		06.10.03		06.10.03	

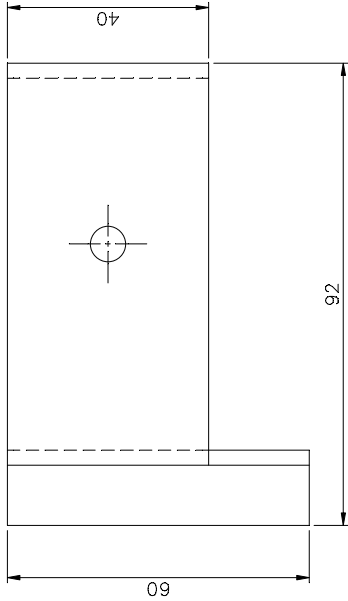
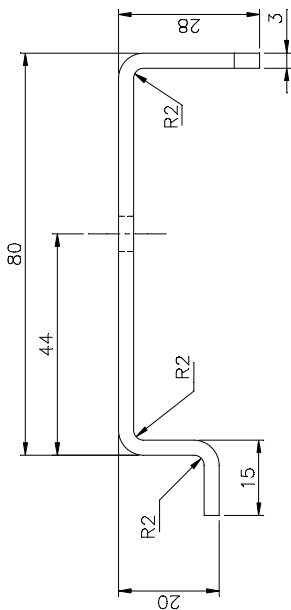
VM-12 (BT)

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80810 01 125 2



DEVELOPMENT OF ITEM 001

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35211001808-R02=S01

SIGN. & DATE

INVENTORY NO.

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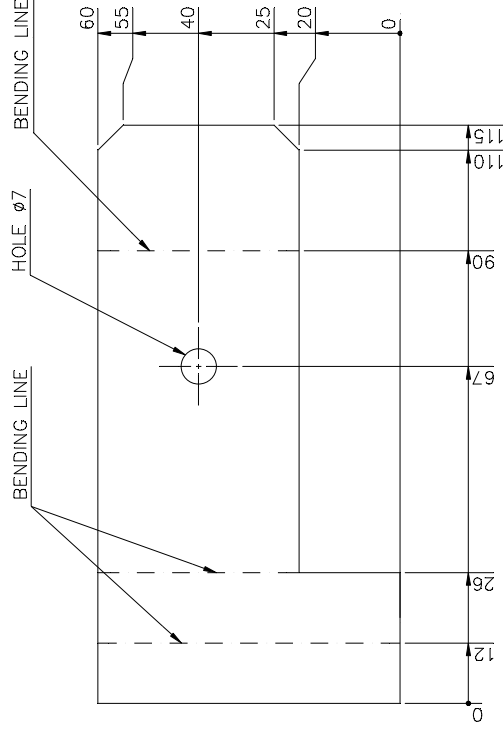
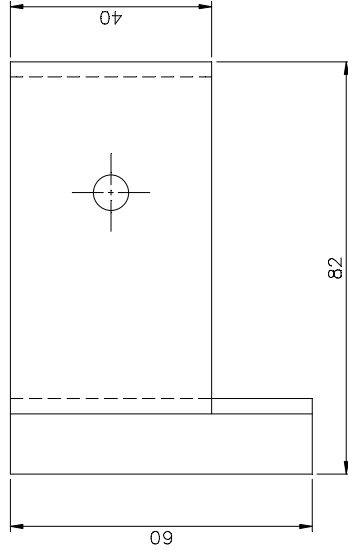
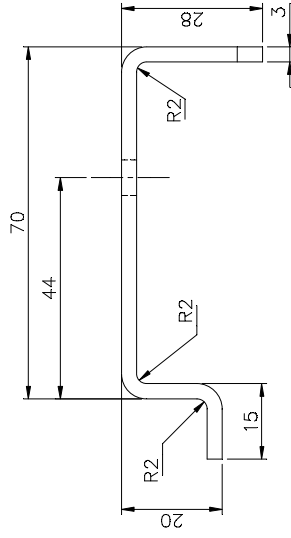
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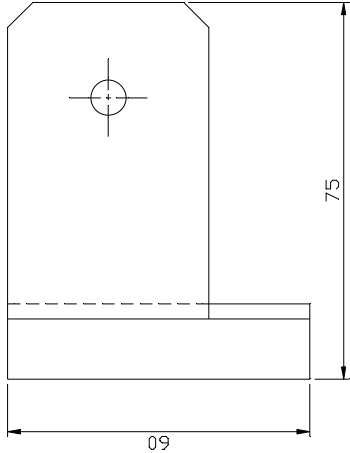
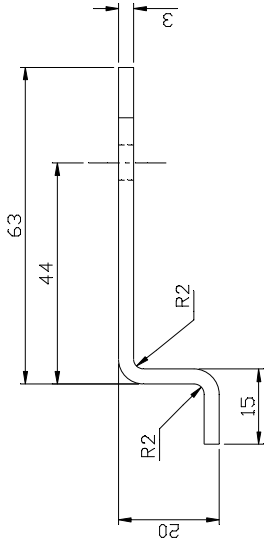
335



DEVELOPMENT OF ITEM 002

[illegible][illegible]

DRG. NO. 80810011293



DEVELOPMENT OF ITEM 003

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REF. DRG. NO. 35211001808-04-03

SIGN. & DATE

INVENTORY NO.

REV. 07	DATE 13.08.19	CHECKED AKHIL	APPROVED AD	SKG
-ITEM-003 DEVELOPMENT VIEW -CORRECT				
(DCA-36113)				
REV. 05	DATE 26.12.06	CHECKED MAK	APPROVED MAK	
DESIGN MODIFIED.				
DIM. 79 FOR ITEM 001 WAS 68				
DEV. LENGTH 93 FOR ITEM 003				
WAS 81 DIM 69 FOR ITEM 002				
WAS 61				
(DCA NO. 26304)				

REMARKS	75 78 79 25 27 29	DESCRIPTION	58 59 60	DRAWING NO.	77 20 31 34	MATL. CODE	45	UNIT WT.	65 72
	VAR. NO.	ITEM NO.			VAR.				

28 → CARD TYPE-3

28 → CARD TYPE-1

ADDITIONAL INFORMATION

STATUS OF DRAWING

DISTRIBUTION OF PRINTS

Q. COPY-----1

TCX-----1

ITEM 003 & SHEET 03 ADDED.

(DCA NO. 26243)

VM-12 (BT)

MAK	gk@NAME	gk@SEN	mak@DATE	ofj. dh
S.U.S.	Sd/-	Sd/-	3.11.06	ofj. dh
S.S.A.	Sd/-	Sd/-	3.11.06	ofj. dh
MAK	Sd/-	Sd/-	3.11.06	ofj. dh

MAK	gk@NAME	gk@SEN	mak@DATE	ofj. dh
S.U.S.	Sd/-	Sd/-	3.11.06	ofj. dh
S.S.A.	Sd/-	Sd/-	3.11.06	ofj. dh
MAK	Sd/-	Sd/-	3.11.06	ofj. dh

MAK	gk@NAME	gk@SEN	mak@DATE	ofj. dh
S.U.S.	Sd/-	Sd/-	3.11.06	ofj. dh
S.S.A.	Sd/-	Sd/-	3.11.06	ofj. dh
MAK	Sd/-	Sd/-	3.11.06	ofj. dh

MAK	gk@NAME	gk@SEN	mak@DATE	ofj. dh
S.U.S.	Sd/-	Sd/-	3.11.06	ofj. dh
S.S.A.	Sd/-	Sd/-	3.11.06	ofj. dh
MAK	Sd/-	Sd/-	3.11.06	ofj. dh





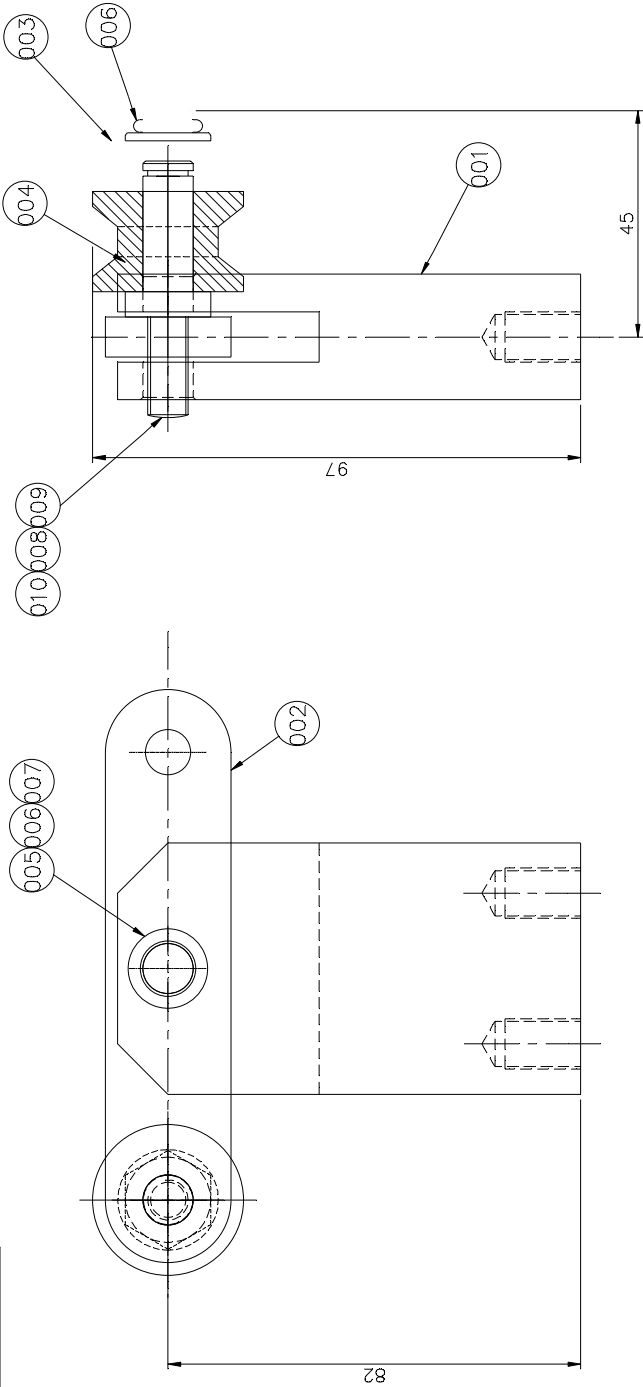






DRG. NO. 3 521 10 01810

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VAR.00

35211001811-R00-S01  
REF. DRG. NO.

SIGN. & DATE

INVENTORY NO.

59	64	65	75	76	79	25	27	29	58	59	60	77	29	31	34	55	56	58	72
VAR00	REMARKS	VAR. ITEM NO. NO.	DESCRIPTION			DRAWING NO.			MATERIAL CODE			MATERIAL SPON.			UNIT WT.			QTY.	
28 —→ CARD TYPE-3			28 —→ CARD TYPE-1			28 —→ CARD TYPE-2			54			54			54			54	
ADDITIONAL INFORMATION			mRikn dk i-dkj ;k			HAKJ jr gsoh bysfDV&dYl fyfeVsm			S.U.S.			S.S.A.			H.R.P.			02	
STATUS OF DRAWING			TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT			HAKSiky BHARAT HEAVY ELECTRICALS LTD. BHOPAL			S.S.A.			H.R.P.			H.R.P.			02	
DISTRIBUTION OF PRINTS			OC -1 SWGR -3 TCX -1			HAKSiky BHARAT HEAVY ELECTRICALS LTD. BHOPAL			S.S.A.			H.R.P.			H.R.P.			02	
REV. DATE			REV. DATE			REV. DATE			REV. DATE			REV. DATE			REV. DATE			REV. DATE	
02 3.10.19			01 6.1.05			01 6.1.05			01 6.1.05			01 6.1.05			01 6.1.05			01 6.1.05	
-ITEM 011, 012 & V01 ADDED.			DRG. REVISED.			DRG. REVISED.			DRG. REVISED.			DRG. REVISED.			DRG. REVISED.			DRG. REVISED.	
(DCA. NO. 36220 )			(DCA. NO. 24873 )			(DCA. NO. 24873 )			(DCA. NO. 24873 )			(DCA. NO. 24873 )			(DCA. NO. 24873 )			(DCA. NO. 24873 )	
ASSY. OF LEVER			ASSY. OF LEVER			ASSY. OF LEVER			ASSY. OF LEVER			ASSY. OF LEVER			ASSY. OF LEVER			ASSY. OF LEVER	
3 521 10 01811			3 521 10 01811			3 521 10 01811			3 521 10 01811			3 521 10 01811			3 521 10 01811			3 521 10 01811	
i="B d-SUT. No. 02			i="B d-SUT. No. 02			i="B d-SUT. No. 02			i="B d-SUT. No. 02			i="B d-SUT. No. 02			i="B d-SUT. No. 02			i="B d-SUT. No. 02	

VM-12 (BT)



HAKEJ jr gsoh bysfDV&dYl fyfeVsm  
HAKSiky  
BHARAT HEAVY ELECTRICALS LTD.  
BHOPAL

HAKEJ jr gsoh bysfDV&dYl fyfeVsm  
HAKSiky  
BHARAT HEAVY ELECTRICALS LTD.  
BHOPAL

HAKEJ jr gsoh bysfDV&dYl fyfeVsm  
HAKSiky  
BHARAT HEAVY ELECTRICALS LTD.  
BHOPAL

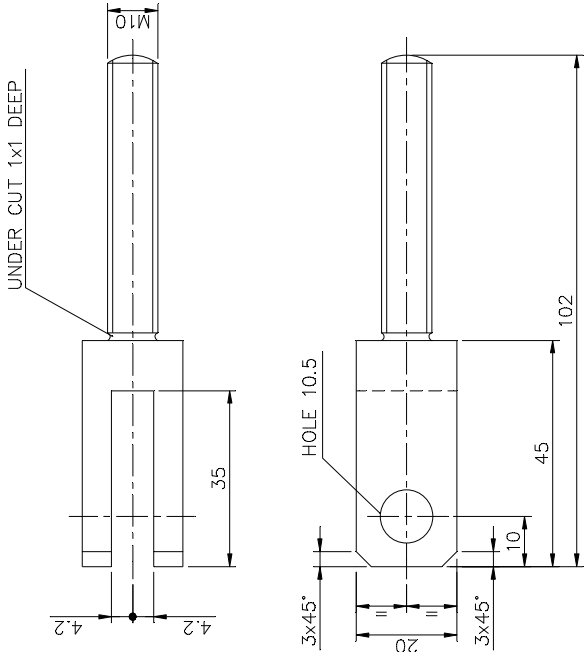
HAKEJ jr gsoh bysfDV&dYl fyfeVsm  
HAKSiky  
BHARAT HEAVY ELECTRICALS LTD.  
BHOPAL

HAKEJ jr gsoh bysfDV&dYl fyfeVsm  
HAKSiky  
BHARAT HEAVY ELECTRICALS LTD.  
BHOPAL

HAKEJ jr gsoh bysfDV&dYl fyfeVsm  
HAKSiky  
BHARAT HEAVY ELECTRICALS LTD.  
BHOPAL



FINISH : - ZINC PLATE AND PASSIVATE TO AA0673603 & AA0673604  
(0.013 TO 0.015 TK.)

[illegible][illegible]









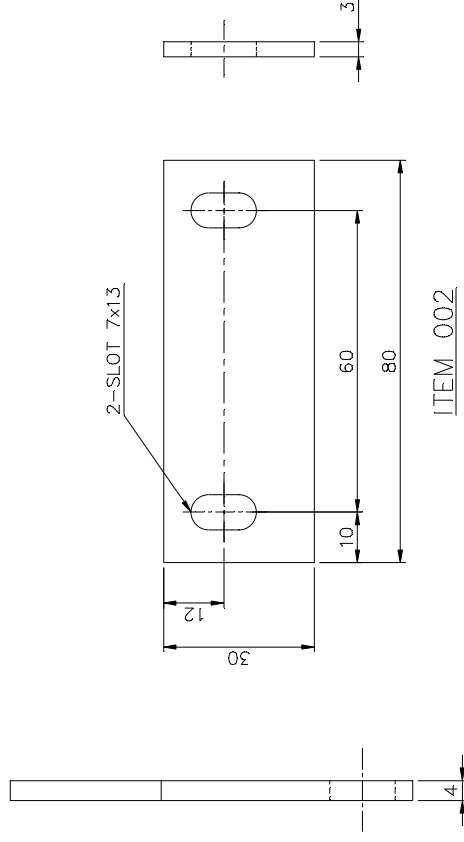
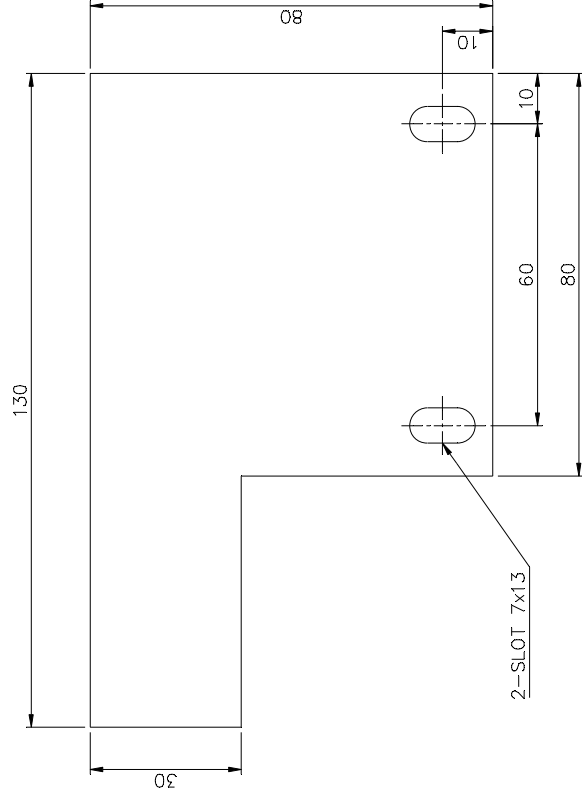
THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

## FINISH:

## ZINC PLATE & PASSIVATE TO

AA 0673603 &amp; AA 0673604 (0.013 TK)

RESPECTIVELY.



ITEM 0001

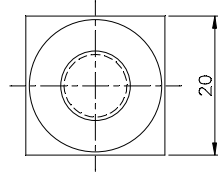
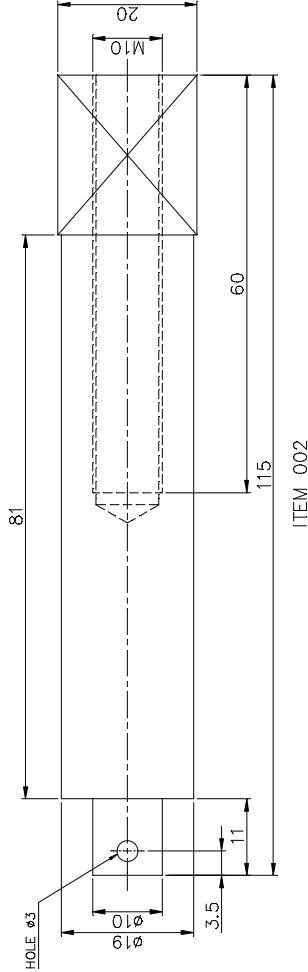
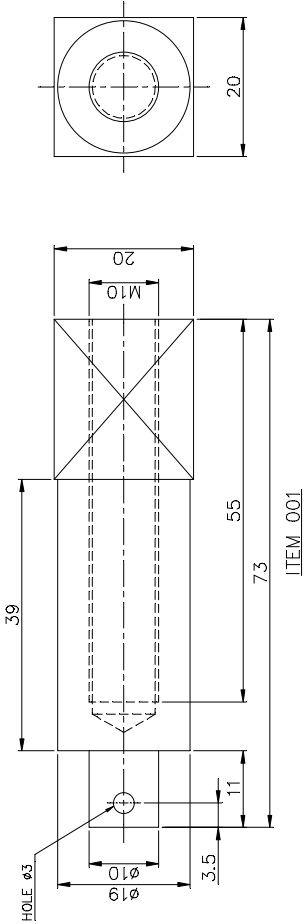
ITEM 002

[illegible]

INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	28 → CARD TYPE-3		28 → CARD TYPE-1		28 → CARD TYPE-2	
				ADDITIONAL INFORMATION		mRikn dk i-dkj :k xk—qd@fjk-ksduk dk uk@ TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		VM-12	
SIGN. & DATE	REV.	DATE	ALTERED CHECKED APPROVED	STATUS OF DRAWING		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
				DISTRIBUTION OF PRINTS		S.U.S.		10.02.06	
SIGN. & DATE	REV.	DATE	ALTERED CHECKED APPROVED	Q.COPY-----1		HAKSiky		10.02.06	
				SWM-----3		BHARAT HEAVY ELECTRICALS LTD.		10.02.06	
SIGN. & DATE	REV.	DATE	ALTERED CHECKED APPROVED	TCX-----1		BHOPAL		10.02.06	
						HAKSiky		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	ITEM 002 ADDED.		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HAk jr gsoh bysfDV&dYI fyfeVsm		DATE	
						S.U.S.		10.02.06	
INVENTORY NO.	REV.	DATE	ALTERED CHECKED APPROVED	REV. 01		HA			

DRG NO 129 S

STYLE NO. : 9443364



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REF.DRG.NO. 35212001512-R03-S01

SIGN. & DATE

INVENTORY NO.

FINISH: -  
ZINC PLATE & PASSIVATE TO AA 0673603  
& AA 0673604 (0.005 TO 0.008 TK.)

VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.ND.	MATERIAL CODE	A	UNIT	WT.
		002	20 SQ. x 115 LG. BRT. STEEL. BAR.			AA 1010412132		Q.361	
		001	20 SQ. x 73 LG. BRT. STEEL. BAR.			AA 1010412132		0.230	
						AA 10112		001	
						AA 10112			
						VAR	MATL. SPON.	C	QTY

ADDITIONAL INFORMATION		TYPE OF PRODUCT OR NAME OF CUST/PROJ		VCB (VM3AF)	
STATUS OF DRAWING B		NAME		SIGN	
DISTRIBUTION OF PRINTS		J.S.		Sd/-	
OFFICE COPY - 1		CKD		19.04.83	
SWGR SHOPS - 3		APPD		-	
REV		DATE		NO. OF	
02		13.05.94		22.04.83	
03		02.12.02		ITEM	
04		03.10.19		MD.	
-ITEM 002 ADDED.		APPD		REV.	
DRG. REDRAWN.		UN. TOL.DIMGR.		REF TO ASSY	
(DCA 36216)		M		05212001515	
(DCA12306 )		AA 0230208		001	
		TITLE		002	
		MATL. SPECN. WAS PS. 10172		001	
		& 7608A		002	
		(DCA 05808)		04	
		PLUNGER PIN		01	
		3 521 20 01 512		ND OF SHT.	
		SHT.NO.		01	
		ND OF SHT.		01	





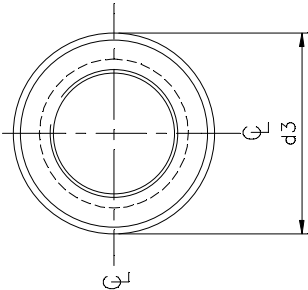
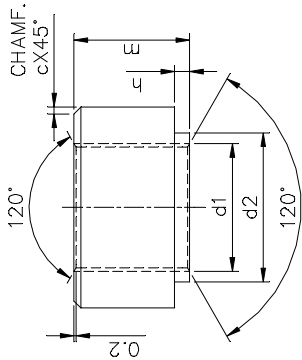












NOTE: -

IF ITEMS 001 TO 005 ARE NOT AVAILABLE, ALTERNATIVELY  
ITEMS 006 TO 010 CAN BE USED RESPECTIVELY.

REFER SHEET 02 FOR BOM.

TABLE OF DIMENSIONS

DIMENSIONS

ITEM	THREAD d1 ACCORDING TO DIN13						HOLE PUNCH SIZE FOR d2 φ	
		d2 φ	d3 φ	h	c	m		
006	M12	14.8	20	1.5	1	11.5	15.5	
007	M6	8	12	0.8	0.5	5.8	8.5	
008	M8	10.5	16	1	0.6	7.5	11	
009	M4	6	8	0.7	0.4	4.2	6.5	
010	M10	12.5	18	1.2	0.8	9.2	13	

ADDITIONAL INFORMATION

STATUS OF DRAWING B

DISTRIBUTION OF PRINTS	
SWE	TCX
1	1

REV.	DATE	ALTERED	CHECKED	APPROVED
01	25.10.05	ALTERED	CHECKED	APPROVED
HOLES PUNCH FOR ITS.006 008 009 & 010 WERE 15, 10.5,6, & 12.5 RESP.				
(DCA NO. 24237)				

mRikn dk i-dkj :k  
xk-gd@fj:ketuk dk uke  
TYPE OF PRODUCT OR  
NAME OF CUSTOMER/PROJECT



for HAKS SWE  
UNITS: SWE  
CODE: 409 AA 0230208  
HAKS SWE  
UNITS: SWE  
CODE: 409 AA 0230208

'kh' AZAD

VM-12 (BT-II)

HAKS SWE  
UNITS: SWE  
CODE: 409 AA 0230208

HAKS SWE  
UNITS: SWE  
CODE: 409 AA 0230208

'kh' AZAD

for HAKS SWE  
UNITS: SWE  
CODE: 409 AA 0230208

HAKS SWE  
UNITS: SWE  
CODE: 409 AA 0230208

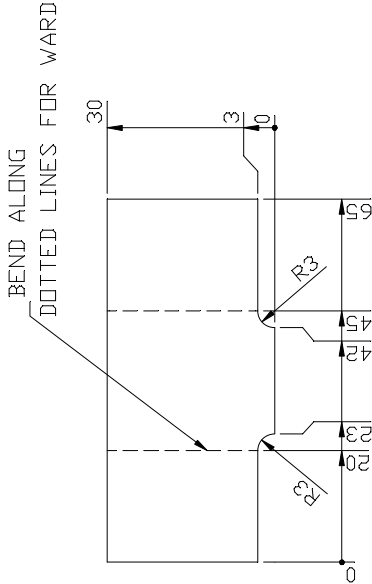
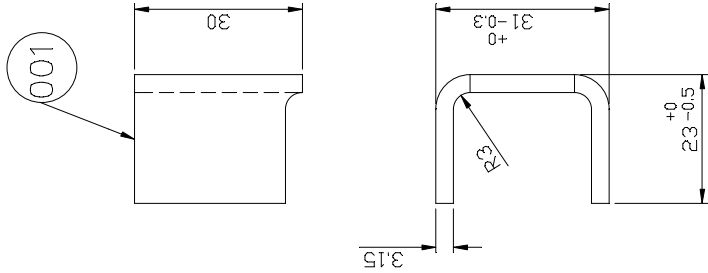
'kh' AZAD



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NOTE :-

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS  
ARE TO BE LIMITED WITHIN LIMITS ±0.1

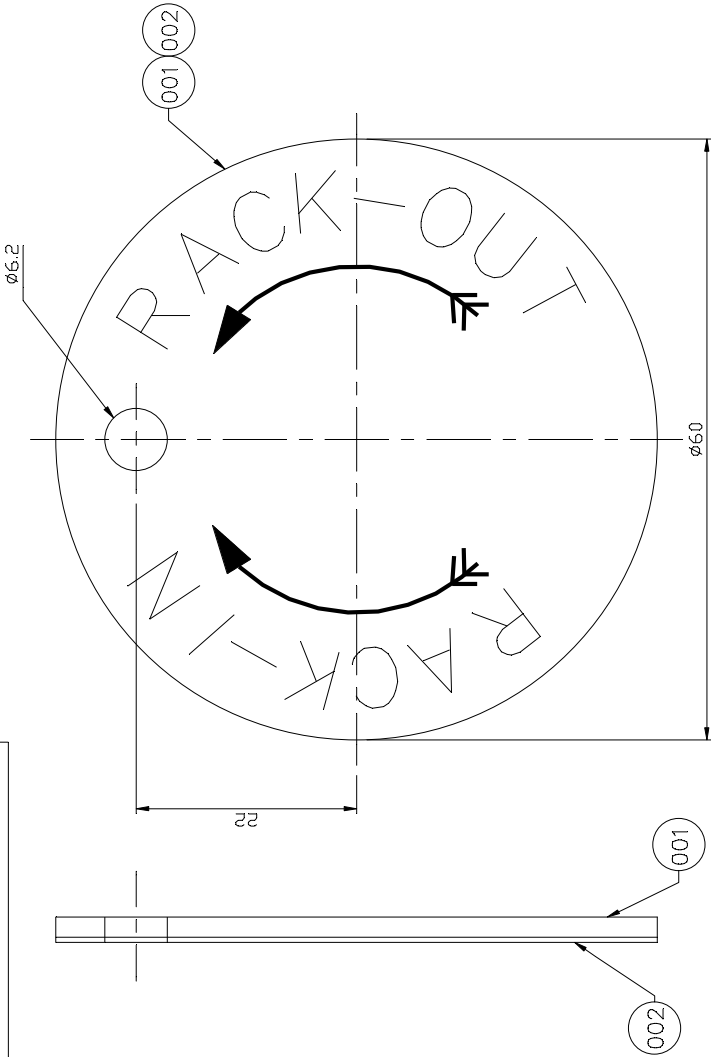


DEVELOPMENT OF IT.001

		001		-		AA1011713136		0.0482			
				315 TK X 30065 LG. H. R. C. SHEET		AA10113		X			
65		75 78 79 25 27 29		VAR. ITEM NO.		77		29 31 34		45 56 58 65 72	
VAR00		REMARKS		DESCRIPTION		DRAWING NO.		MATL. CODE		UNIT WT.	
								32 33 46		54	
								VAR.		QTY.	
								28		CARD TYPE-2	

DRG NO 94520 06 125 3

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NOTE : -  
ITEM 001 & 002 ARE TO BE PASTED AS SHOWN.

VAR. 00

001	BP 9029108703	002	ADHEBIVE LABLE	35219002582	001				
001		001	2TK.x60x60 HRCS SHEET			AA 1011713110			
VAR 00	REMARKS	ITEM ND.	DESCRIPTION	DRAWING NO.	IT.ND.	MATERIAL CODE	A	UNIT	WT.
					VAR	MATL. SPON.	C		[QTY]

35219002545-R00-S01 REF.DRG.ND.	ADDITIONAL INFORMATION		TYPE OF PRODUCT OR NAME OF CUST/PROJ VM 12 (BT II)									
	STATUS OF DRAWING		NAME S.U.S. DATE NO. DF									
	DISTRIBUTION OF PRINTS OFFICE COPY - 1 SWGR SHOPS - 3 TCX - 1		DRN S.S.A. CKD S.S.A. APPD J.S.P. REF TO ASSY 3 521 90 02594									
	REV DATE DRN CKD APPD		UN. TOL.DWG. SCALE 2:1 WEIGHT (KG.) 023									
INVENTORY NO.		REV DATE DRN CKD APPD		DEPT CODE		TITLE		DRG NO 3 521 90 02545		REV. 00		
						HANDLE FLAP		SHT.NO. 01		NO.OF SHT. 01		
CADZONE												

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35219002582-R00-S01

SIGN. & DATE

INVENTORY NO.

REV	
-----	--

DATE \_\_\_\_\_

DRN
CKD
APPT

DATE \_\_\_\_\_

DRN
CKD
APPD

--	--	--	--

PT	DE
----	----

UN. T

D.M.G.R.



1	1
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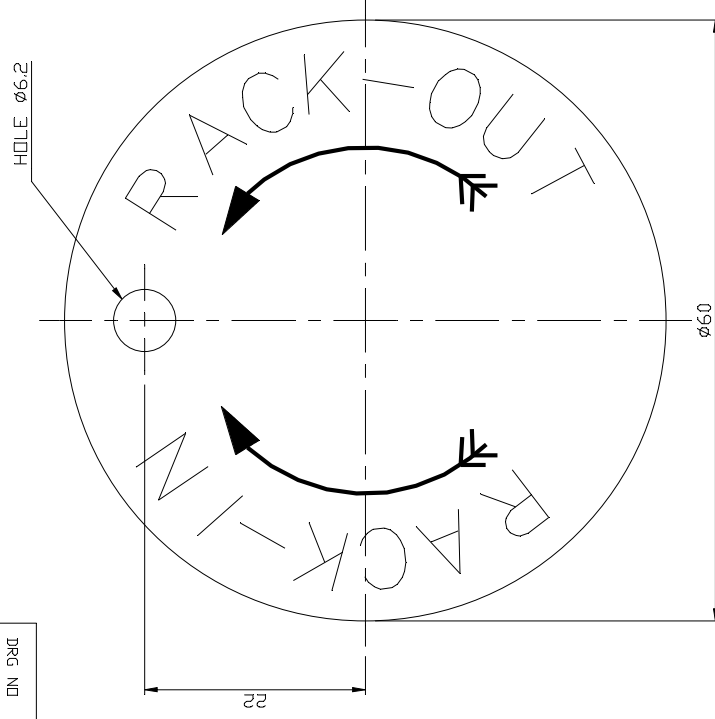
8

REF T  
DE 310

ASSY

[illegible]

ITEM	NO.	QTY.	UNIT	PRICE	TOTAL
1	1	1	EA	10.00	10.00
2	1	1	EA	20.00	20.00
3	1	1	EA	30.00	30.00
4	1	1	EA	40.00	40.00
5	1	1	EA	50.00	50.00
6	1	1	EA	60.00	60.00
7	1	1	EA	70.00	70.00
8	1	1	EA	80.00	80.00
9	1	1	EA	90.00	90.00
10	1	1	EA	100.00	100.00
11	1	1	EA	110.00	110.00
12	1	1	EA	120.00	120.00
13	1	1	EA	130.00	130.00
14	1	1	EA	140.00	140.00
15	1	1	EA	150.00	150.00
16	1	1	EA	160.00	160.00
17	1	1	EA	170.00	170.00
18	1	1	EA	180.00	180.00
19	1	1	EA	190.00	190.00
20	1	1	EA	200.00	200.00
21	1	1	EA	210.00	210.00
22	1	1	EA	220.00	220.00
23	1	1	EA	230.00	230.00
24	1	1	EA	240.00	240.00
25	1	1	EA	250.00	250.00
26	1	1	EA	260.00	260.00
27	1	1	EA	270.00	270.00
28	1	1	EA	280.00	280.00
29	1	1	EA	290.00	290.00
30	1	1	EA	300.00	300.00
31	1	1	EA	310.00	310.00
32	1	1	EA	320.00	320.00
33	1	1	EA	330.00	330.00
34	1	1	EA	340.00	340.00
35	1	1	EA	350.00	350.00
36	1	1	EA	360.00	360.00
37	1	1	EA	370.00	370.00
38	1	1	EA	380.00	380.00
39	1	1	EA	390.00	390.00
40	1	1	EA	400.00	400.00
41	1	1	EA	410.00	410.00
42	1	1	EA	420.00	420.00
43	1	1	EA	430.00	430.00
44	1	1	EA	440.00	440.00
45	1	1	EA	450.00	450.00
46	1	1	EA	460.00	460.00
47	1	1	EA	470.00	470.00
48	1	1	EA	480.00	480.00
49	1	1	EA	490.00	490.00
50	1	1	EA	500.00	500.00
51	1	1	EA	510.00	510.00
52	1	1	EA	520.00	520.00
53	1	1	EA	530.00	530.00
54	1	1	EA	540.00	540.00
55	1	1	EA	550.00	550.00
56	1	1	EA	560.00	560.00
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58	1	1	EA	580.00	580.00
59	1	1	EA	590.00	590.00
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63	1	1	EA	630.00	630.00
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65	1	1	EA	650.00	650.00
66	1	1	EA	660.00	660.00
67	1	1	EA	670.00	670.00
68	1	1	EA	680	

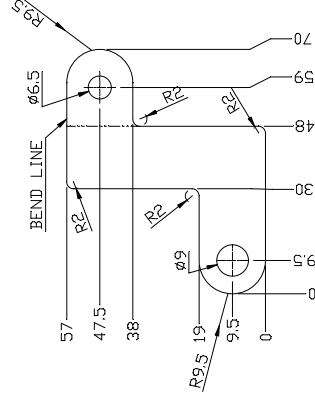
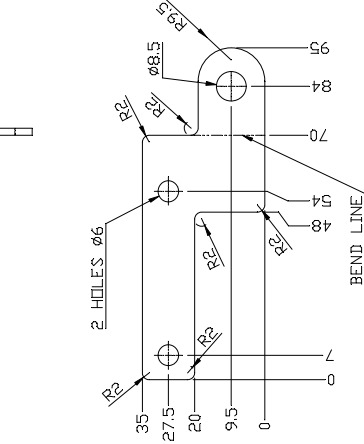
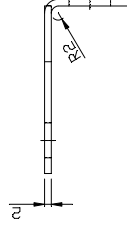
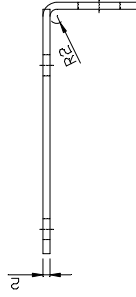
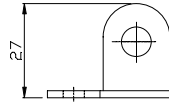
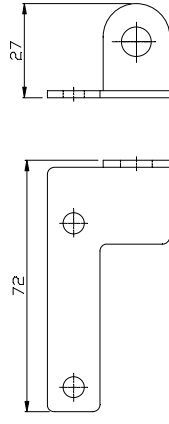


## NOTE

1. ALL LETTERS SHALL BE TO GILLSANS  
SERIES 262 CAPITAL.
2. HEIGHT OF ALL LETTERS & SHALL BE 6 MM
3. LETTERS ARE IN BLACK, ARROW IN RED  
COLOUR ON YELLOW BACK GROUND.

[illegible]

INVENTORY NO.	REV		DATE	DRN	REV		DATE	REV	REF. DR	
				CDK						35219
				APPD						
ADDITIONAL INFORMATION										
STATUS OF DRAWING										
DISTRIBUTION OF PRINTS										
OFFICE COPY - 1										
SWGR SHOPS - 3										
TCX - 1										
TYPE OF PRODUCT OR NAME OF CUST/PROJ										
VM 12 (BT II)										
SIGN. & DATE										
35219										
TITLE										
ADHESIVE LABEL (HANDLE FLAP)										
UN. TOL. DIMGR.										
SCALE 2:1										
WEIGHT (KG.)										
REF TO ASSY										
35219002545										
SIGN										
DATE										
S.U.S.										
CKD										
S.S.A.										
APPD										
J.S.P.										
NO. OF ITEMS										
002										
REV.										
00										
SHT. NO.										
01										
NO. OF SHT.										
01										



## DEVELOPMENT OF IT NO. 001

NOTE:- ZINC PLATED & PASSIVATED TO AA0673603  
& AA0673604 (0.013 TO 0.15TK)

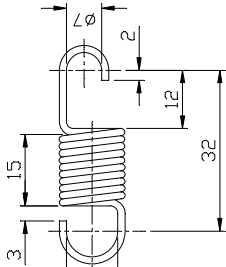
## DEVELOPMENT OF IT NO. 002

[illegible]



FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm)

REV. DATE	ALTERED CHECKED APPROVED	Sd/- Sd/- Sd/-	REV. DATE	ALTERED CHECKED APPROVED	Sd/- Sd/- Sd/-	ADDITIONAL INFORMATION		
04 14.5.94			03 10.2.94					
MOVEMENT WAS 2.67 Kg./CM. & SCALE WAS 20.			DRG. REDRAWN			STATUS OF DRAWING		
(DCA NO. 05838)			(DCA NO. 5453)			DISTRIBUTION OF PRINTS		
						□ C-1    □ SWM-3 TCX-1		
			REV. DATE	ALTERED CHECKED APPROVED	SKG AT	REV. DATE	ALTERED CHECKED APPROVED	SUS SSA MAK
			07 10.2.20			06 11.1.07		
			item 002 added			DRG. REDRAWN		
			(DCA NO. 36399)			(DCA NO. 26545)		



ITEM 001

PARTICULARS	NOM.	MIN.	MAX.
GRADE		C	
INSIDE DIA	10.2		
OUTSIDE DIA	13		
DIRECTION OF WDG		RH	
TOTAL TURN	10		
FREE LENGTH	32		
WORKING LENGTH	45		
MOVEMENT	20		
SCALE	2.67 kg./cm		

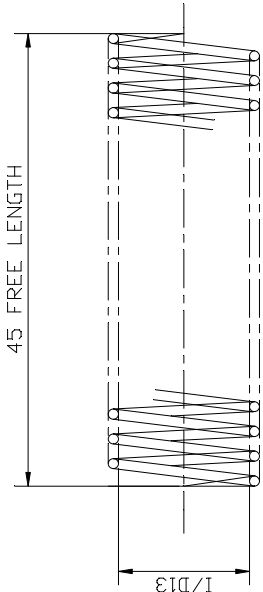
BP9099261420	002	Ø1.422X550 lg. COLD DRAWN SPG. S. WIRE ZICK COATED.	BP9099261420		Kg.	0.0107
BP9099261420	001	Ø1.422X450 lg. COLD DRAWN SPG. S. WIRE ZICK COATED.	BP9099261420		Kg.	0.006
65	REMARKS	ITEM NO. 7525 2729	58 59 46	MATL. CODE	54 55 56 68	UNIT WT. 71
		DESCRIPTION		MATL. SPCN.		QTY.

28 → CARD TYPE-3		28 → CARD TYPE-1		28 → CARD TYPE-2	
HAKJr gsoh bjsdV&hdY1 fyfeVsm HAKsky BHARAT HEAVY ELECTRICALS LTD. BHOPAL		HAKj fd_jk- WEIGHT (KG) 0.006		HAKj fd_jk- ITEM NO. 020	
HAKj fd_jk- SCALE 1:1		HAKj fd_jk- SCALE 1:1		HAKj fd_jk- SCALE 1:1	

INVENTORY NO.	SIGN. & DATE	REF. DRG. NO.
AA0230208		
*An*AZR0E		
SPRING		
45092001507		
i="B d-500". No. 01 i="B d-500". No. 01 i="B d-500". No. 01		

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm)

REV. DATE	ALTERED AKN	REV. DATE	ALTERED RRAJORE	ADDITIONAL INFORMATION
03 18.10.11	CHECKED AKHIL	02 24.05.04	CHECKED HRPAHEL	
	APPROVED MAK		APPROVED DKJIXIT	
WEIGHT UPDATED.				STATUS OF DRAWING B
(DCA NO. 30727)				DISTRIBUTION OF PRINTS O.C.-1 SWM-3 TCX-1

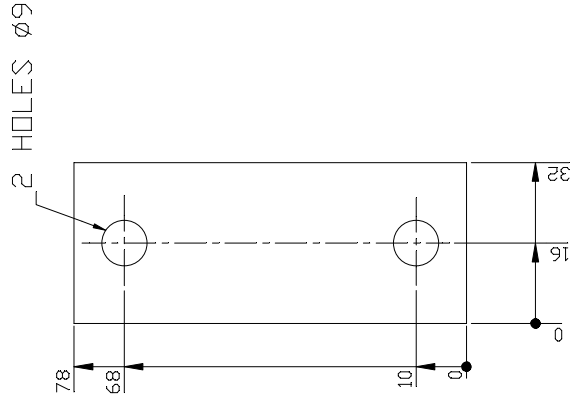


DIA OF WIRE = 1.219  
NO. OF TURNS = 13  
SCALE = 0.61 KG/CM.  
WINDING DIRECTION = R.H.  
BUTT ENDS.

BP9099266162	001	Ø1.219 x 580 L.G. C.D. SPRING STEEL WIRE (Z.C.)	AA1034001205	0.005
REMARKS	ITEM NO.	DESCRIPTION	MATL. CODE	UNIT WT.
	7929 2729		54 55 56 68	71
			MATL. SPCN.	QTY.

28 → CARD TYPE-3		28 → CARD TYPE-1		28 → CARD TYPE-2	
SIGN. & DATE		HAKJr gsoh bjsdV&hdY1 fyfeVsm HAKSiky BHARAT HEAVY ELECTRICALS LTD. BHOPAL		DATE	
INVENTORY NO.		HAKJr fd_xk- WEIGHT (KG)		en d- ITEM NO.	
*An*AZR0E		vgnhr SCALE 1:1		en d- ITEM NO.	
AA0230208		—		003 008	
SPRING		vkjsA d-DRAWING NO.		03	
		45092002523		01	

MPANY.	REV.	DATE	ALTERED CHECKED	REV.	DATE	ALTERED CHECKED	ADDITIONAL INFORMATION
							STATUS OF
							DRAWING
							B
							DISTRIBUTION OF PRINTS
							□/C-1 TCX-1
							SWM- 4



ITEM 001

FINISH:-  
ZINC PLATE & PASSIVATE TO PR. SPEC. NO. AA0673603  
& AA0673604 (0.013 TO 0.015 TK)

[illegible]

SIGN & DATE		BHATAT HEAVY ELECTRICALS LIMITED BHO PAL											
		UN. TOL.DIMGR. M		SCALE 		WEIGHT (kg.)		REF. TO ASSY. DRG.		ITEM NO.		NDF VAR	
DEPT. SWE		AA0230208		1:1						Sd/-		30.04.16	
CODE 409										Sd/-		30.04.16	
								APPD MAK		Sd/-		30.04.16	
						DRN		SKG		Sd/-		30.04.16	

INVENTORY NO.	TITLE <u>PACKER FOR SQUARE NUT</u>	DRAWING NO. 45211001503		REV. 03
		SHEET NO. 01	NO. OF SHEETS 01	

FIRST ANGLE PROJECTION

CALL DIMENSIONS ARE IN mm

REV.	DATE	ALTERED	REV.	DATE	ALTERED	ADDITIONAL INFORMATION	
		CHECKED			CHECKED	STATUS OF	
						DRAWING	
						DISTRIBUTION	
						OF PRINTS	
						O/C-1 SWM-3	
						TCX-1	

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45211001766-R00-S01

REF. DRG. No.

SIGN & DATE

INVENTORY No.



BHARAT HEAVY ELECTRICALS LIMITED  
BHOPAL

DEPT. SVE  
CODE 409

UN. TOL-DIMGR.

DIM. C/M/F

SCALE

1:1

WEIGHT

(Kg)

REF. TO ASSY. DRG.

15211001539

ITEM  
MOL.

010

NODF  
ITEMS

001

TITLE

DRAWING NO.

4 521 10 01766

REV.

00

SHEET NO. 01

NODF SHEETS

01

SIZE A4

FIRST ANGLE PROJECTION

CALL DIMENSIONS ARE IN mm

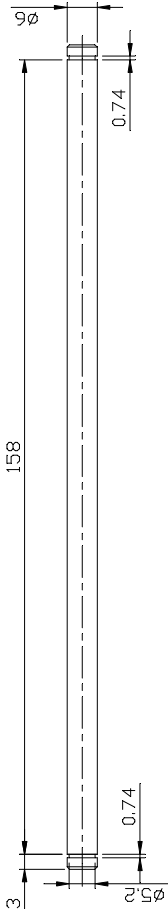
REV.	DATE	ALTERED CHECKED	REV.	DATE	ALTERED CHECKED	ADDITIONAL INFORMATION	
						STATUS OF DRAWING	
						B	
						DISTRIBUTION OF PRINTS	□/C-1 SWM-3 TCX-1

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45211001769-R00-S00  
REF. DRG. No.

SIGN & DATE  
INVENTORY No.

FINISH: - ZINC PLATE & PASSIVAT TO AA0673603  
& AA0673604 (0.013 TO 0.015TK.)



REMARKS	ITEM NO.	DESCRIPTION	SIGN.	DATE	NODF VAR
	001	ø6 x 164 STRL. STEEL ROUND	AA 1010208012 AA 10108	06.10.03 06.10.03	001
			MATL. CODE MATL. SPECN	UNIT WT.	QTY.

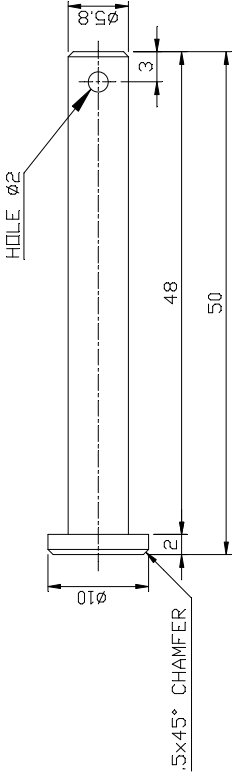
BHARAT HEAVY ELECTRICALS LIMITED BHOPAL		DRN	S.U.S.	06.10.03	06.10.03	06.10.03	06.10.03	06.10.03	06.10.03
UN. TOL-DIMGR.		SCALE	WEIGHT (Kg.)	REF. TO ASSY. DRG.	ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.
DEPT. SVE CODE 409	AA 0230208	1:1		35211001807	003	003	003	003	003
TITLE		PIN		DRAWING NO.		REV.		00	
				4 521 10 01769					
				SHEET NO. 01		NODF SHEETS		01	

FIRST ANGLE PROJECTION

CALL DIMENSIONS ARE IN mm

REV.	DATE	ALTERED	REV.	DATE	ALTERED	ADDITIONAL INFORMATION
		CHECKED			CHECKED	STATUS OF
						DRAWING B
						DISTRIBUTION D/C-1 SWM-3
						OF PRINTS TCX-1


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FINISH

ZINC PLATE & PASSIVATE TO PR.SPEC.AA0673603  
& AA0673604 (0.013 TK) RESPECTIEVELY.

	001	Ø10×50 LG. BRT. ST. ROUND BAR.	AA1010212028	KG 001	0.011
REMARKS	ITEM NO.	DESCRIPTION	MATL. CODE	A	UNIT WT.
			MATL. SPECN	C	QTY.

SIGN & DATE		NAME		SIGN.	DATE	NO OF VAR
		DRN	SUS	Sd/-	2.02.06	
		CHD	SSA	Sd/-	2.02.06	
		APPD	PATEL	Sd/-	2.02.06	
DEPT. SVE	UN. TOL-DINGR.	SCALE	WEIGHT (Kg)	REF. TO ASSY. DRG.		
CODE 409	AA0230208	2:1		35211001774		
INVENTORY No.		TITLE		ITEM NO.	003	NO OF ITEMS
		PIN		REV.	00	
				SHEET NO.	01	NO OF SHEETS
					01	

SIZE A4

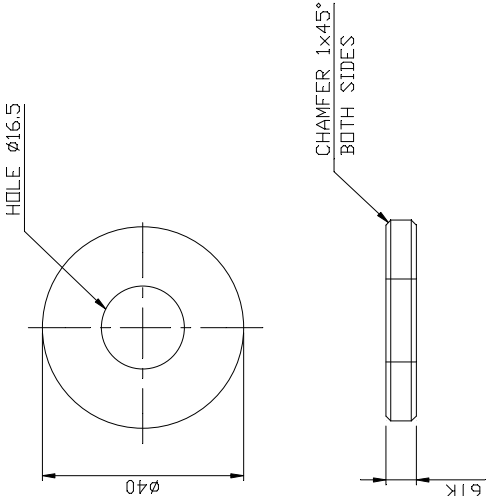
FIRST ANGLE PROJECTION

CALL DIMENSIONS ARE IN mm

REV.	DATE	ALTERED CHECKED	REV.	DATE	ALTERED CHECKED
			B		
			D/C-1 SWM- 4		
			TCX-1		

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NOTE :-

FINISH :- ZINCPLATE & PASSIVATE TO PR. SPEC. NO. AA0673603  
& AA0673604 (0.013 TO 0.015TK)

REMARKS	ITEM NO.	DESCRIPTION	STD.	AA1010212206		UNIT WT.	QTY.
				AA10112			
				MATL. CODE			
				MATL. SPECN			
001	Ø40x6 LG BRT. STEEL BAR ROUND					001	

<div>REF. DPG. No.</div> <div>45219001520-R00-S00</div>		<div>BHARAT HEAVY ELECTRICALS LIMITED</div> <div>BHOPAL</div>													
<div>DEPT. SVE</div> <div>CODE 409</div>		<div>UN. TOL-DIMGR.</div> <div>M</div> <div>AA0230208</div>		<div></div>	<div>SCALE</div> <div>1:1</div>	<div>WEIGHT (Kg)</div> <div>2 5219002528</div>	<div>REF. TO ASSY. DRG.</div> <div>2 5219002528</div>		<div>ITEM NO.</div> <div>MDL.</div> <div>023</div>		<div>NODF</div> <div>ITEMS</div> <div>001</div>				
<div>TITLE</div> <div>WASHER (TRUCK)</div>				<div>DRAWING NO.</div> <div>45219001520</div>		<div>REV.</div> <div>00</div>		<div>NODF</div> <div>SHEETS</div> <div>01</div>		<div>NODF</div> <div>VAR</div> <div>✓</div>					

FIRST ANGLE PROJECTION

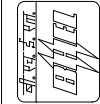
CALL DIMENSIONS ARE IN mm

REV.	DATE	ALTERED	AT	REV.	DATE	ALTERED	SUS	ADDITIONAL INFORMATION	
02	05.06.23	CHECKED	AD	01	25.3.07	CHECKED	MAK	STATUS OF	
FAG MAKE INCLUDED IN ITEM DESCRIPTION								DRAWING	
KDC A NO. 38213								DISTRIBUTION	
KDC A NO. 26738								D/C-1	
								TCX-1	
								SWM- 4	

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REF. DRG. No. 45219001521-R00-500

BP9029108118	001	BEARING NO. 51205 SKF/KG/FAG MAKE							
REMARKS	ITEM NO.	DESCRIPTION	STD.	MATL. CODE		A	UNIT WT.		
				MATL. SPECN			C		
							QTY.		



BHARAT HEAVY ELECTRICALS LIMITED  
BHOPAL

DEPT. SVE	UN. TOL-DIMGR.	SCALE	WEIGHT	REF. TO ASSY. DRG.	ITEM NO.	NODF ITEMS
CODE 409	M AA0230208	1:1	(kg)			

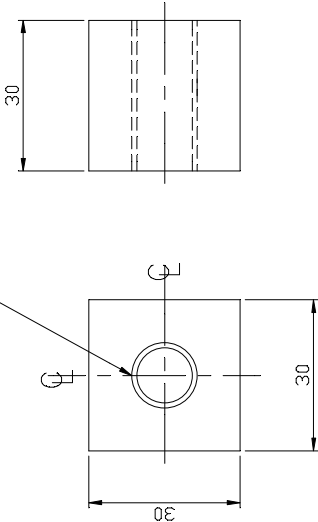
TITLE				DRAWING NO.			
SINGLE ROW THRUST BEARING				45219001521			
SHEET NO. 01		NODF SHEETS		REV.		02	
						01	



REV.	DATE	ALTERED	SUS	REV.	DATE	ALTERED	ADDITIONAL INFORMATION
02	11.12.07	CHECKED	MAK	03	25.02.10	CHECKED	STATUS OF
THREAD DETAILS UPDATED IN LINE WITH BIS & NOTE MODIFIED.				DRAWING B			
(DCA NO. 27130)				D/C-1 SWM- 4			
				DISTRIBUTION OF PRINTS TCX-1			

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DOUBLE START TRAPEZOIDAL  
THREAD TR20X8(P4)-LEFT HAND  
(IS 7008-1999;PART 1 & 2



NOTE:-  
CHECK SQUARE THREAD WITH LEAD SCREW TO DRG.  
35219001525-ITEM-001 OR 35219001549 VAR.00

FINISH:-  
ZINC PLATE & PASSIVATE TO PR. SPEC. ND. AA 0673603  
& AA 0673604 (0.013 TO 0.015 TK)

REF. DRG. No.	45219001522-R00-S01
DEPT.	AA 10101412191
ITEM NO.	AA 10112
DESCRIPTION	30SQ.X30LG. BRT. ST. BAR
REMARKS	MATL. CDDE A MATL. SPECN C
	UNIT WT. 0.200
	QTY. 001

SIGN & DATE		NAME		SIGN.		DATE		ND/OF	
INVENTORY No.		DRN		S. U. S		03.04.01		VAR	
		CHD		S. S. A		03.12.01			
		APPD		J. S. P		03.12.01			
		UN. TOL.DIMGR.		REF. TO ASSY. DRG.		ITEM NO.		ND/OF	
		M		25219002528		012		ITEMS	
		AA0230208		SCALE 1:1				REV.	
				TITLE		DRAWING NO.		03	
				SPECIAL NUT		45219001522			
				SHEET NO. 01		ND/OF		SHEETS 01	



FIRST ANGLE PROJECTION

CALL DIMENSIONS ARE IN mm

REV.	DATE	ALTERED CHECKED	REV.	DATE	ALTERED CHECKED	ADDITIONAL INFORMATION	
						STATUS OF DRAWING	
						DISTRIBUTION	D/C-1 SWM-3
						OF PRINTS	TCX-1

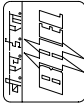
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45219002511-R00-S01

REF. DRG. No.

001	8øx13 Lg. BRT. ST. BAR	AA1010212036	gms.
		AA10112	
		MATL. CODE	A
		MATL. SPECN	C
		UNIT WT.	
		QTY.	

REMARKS



BHARAT HEAVY ELECTRICALS LIMITED  
BHOPAL

DEPT. SVE

CODE 409



TITLE

SPECIAL SCREW

SCALE

2.5:1

REF. TO ASSY. DRG.

35219002594

ITEM

024

NO. OF

ITEMS

REV.

DRAWING NO.

4 521 90 02511

SHEET NO. 01

NO. OF SHEETS 01

SDIS

SIZE A4

FIRST ANGLE PROJECTION

CALL DIMENSIONS ARE IN mm

REV.	DATE	ALTERED	K.S.MANI	REV.	DATE	ALTERED	AKH	ADDITIONAL INFORMATION	
01	25/02/18	CHECKED	MMK.	02	05/12/12	CHECKED	RG	STATUS OF DRAWING	
VT. ADDED.								B	
CDA NO. 29607								DISTRIBUTION OF PRINTS	
CDA NO. 34469								D/C-1 SWM-3	
REV.	DATE	ALTERED		REV.	DATE	ALTERED	AT	TCX-1	
		CHECKED		03	13/07/20	CHECKED	AD		
ITEM 002 ADDED									
CDA-36754									

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FINISH: – ZINC PLATE & PASSIVAT TO PR. SPEC. NO. AA0673603  
& AA0673604 <0.013 TO 0.015TK.>

REMARKS	ITEM NO.	DESCRIPTION	MATL. CDDE	MATL. SPECN	A	C	UNIT WT.	QTY.
	002	Ø10 x 68LG. STRL. STEEL ROUND	AA1010208063	AA10108	E		0.033	002
	001	Ø10 x 84LG. STRL. STEEL ROUND	AA1010208063	AA10108	E		0.040	001

45219002512-R00-S00		REF. DRG. No.		SIGN & DATE		INVENTORY No.	
		BHARAT HEAVY ELECTRICALS LIMITED BHOPAL		NAME		SIGN.	
DEPT. SVE		UN. TOL-DIMGR.		SCALE		WEIGHT (Kg)	
CODE 409		AA 0230208		1:1			
TITLE		PLUNGER		REF. TO ASSY. DRG.		ITEM NO.	
				25219002528		010	
				DRAWING No.		REV.	
				45219002512		03	
				SHEET NO. 01		NO OF SHEETS 01	
						SIZE A4	

















DRG. NO. 51210051252

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ARRGT. DRG NO.-15212001504

023		014	WASHER WCD 6.4-ST				AA7161001048	6x	0.001		
026		013	WASHER SPRING LOCK SC A6-ST				AA7164001049	6x	0.001		
026		012	SCRU HEXL AMX16				AA7121123045	6x	0.05		
002		011	WASHER WCD 10.5-ST				AA7161001064	6x	0.004		
003		010	WASHER				001	6x	0.0032		
002		009	COMPRESSION SPRING				001	6x	0.017		
002		008	PLUMBER				001	6x	0.0419		
001		007	SHUTTER				001	6x	0.341		
001		006	SHUTTER SEATING				001	6x	0.3701		
001		005	BEARING SEATING				001	6x	0.8635		
001		004	LEAD SCREW				00	6x	1.6037		
002		003	SINGLE ROW THRUST BEARING				001	6x			
001		002	BEARING HOUSE				001	6x			
001		001	LEAD SCREW HOUSING TRAY.				001	6x	6.1265		
VAR00	65	75 78 79 25 27 29	DESCRIPTION	58 59 60	77	29 31 34 11.NO.	MATL. CODE	45 55 56 57 A C LIND	58 68 UNIT WT. QTY.	65 72 59 71	
REMARKS			DRAWING NO.			32 33 46 VAR.	MATL. SPON.	54			

28 → CARD TYPE-3

28 → CARD TYPE-1

28 → CARD TYPE-2

REF. DRG. NO. 1

REF. DRG. NO. 1

SIGN. & DATE

SIGN. & DATE

INVENTORY NO.

INVENTORY NO.

ADDITIONAL INFORMATION

STATUS OF DRAWING

DISTRIBUTION OF PRINTS

0 COPY-----1  
SWM-----3  
TCX-----1

REV. DATE

ALTERED  
CHECKED  
APPROVED

DATE

ALTERED  
CHECKED  
APPROVED

REV. DATE

ALTERED  
CHECKED  
APPROVED


INVENTORY NO.

INVENTORY NO.

VM-12 (BT)

MRKTN Dk I-dkj :k  
xx-gd@fj:ktuk dk uke  
TYPE OF PRODUCT OR  
NAME OF CUSTOMER/PROJECT

HAKJr gsoh bysfdV&dYI fyfeVsM  
HAKSiky  
BHARAT HEAVY ELECTRICALS LTD.  
BHOHAL



WJ- Vky- iki dh Jakh  
UNTD.DMS. OR

forHakx  
DPT SIVE  
CODE 409

WAKJr  
SCALE  
1:1

HAKJr Id-xx-  
WEIGHT (K.G.)

vis- M&sdZox dk lqH&Z  
REF. TO ASSY. DRG.

vkjsIA d-~~DRG~~AWING NO.  
35215001715

en d--  
ITEM NO.

en- lq:k  
NO. OF  
VAR

en d--  
ITEM NO.

en- lq:k  
NO. OF  
VAR

en d--  
ITEM NO.

en- lq:k  
NO. OF  
VAR

A3









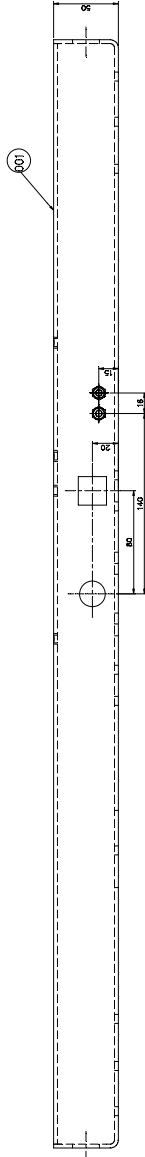
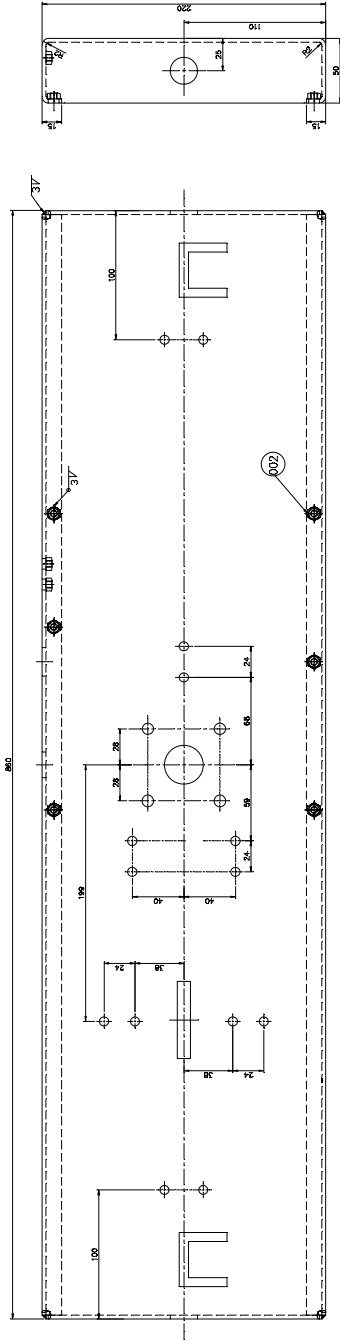




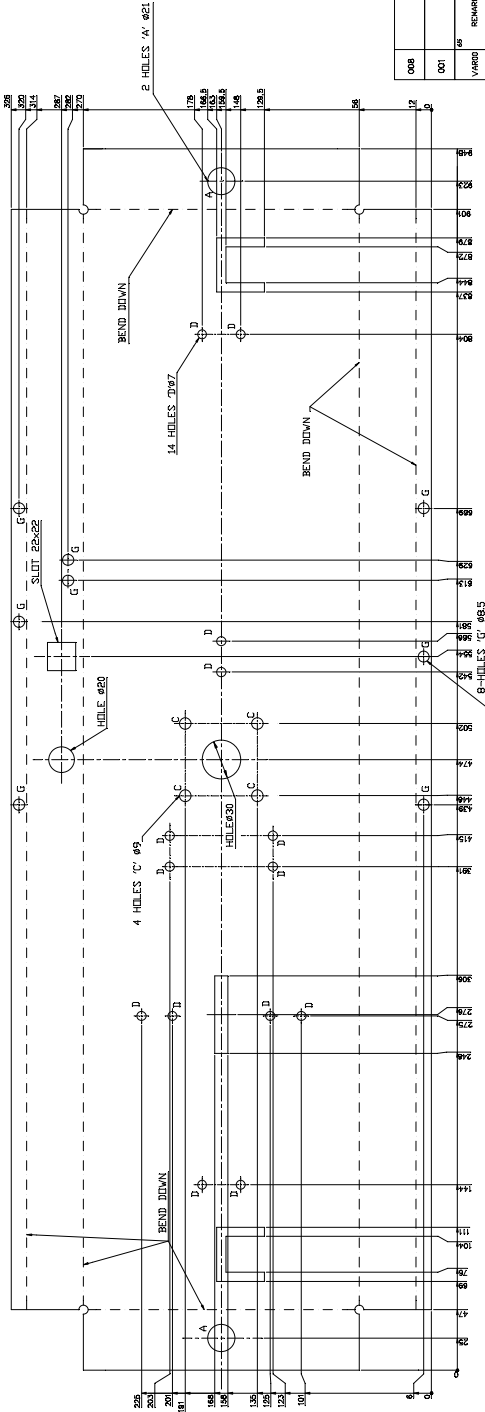


105100Z1ZS1 ON 090

181



ITEM 001 & VAR.00



- NOTE:-
1. CORNERS ARE TO BE WELDED AS SHOWN.
  2. LAYERS ON THE SURFACES ARE TO BE WELDED AS SHOWN.
  3. WELDED SURFACES ARE TO BE GROUND FLUSH.
  4. WELDING GRADE FOR AS PER AA 062E101.

FINISH:-  
EPOXY POLYESTER POWDER COATING TO  
AA 0674124 FOR SHADE REF. PD/MID.

DEVELOPMENT VIEW OF IT\_001

NO	REV	DESCRIPTION	DATE	BY	CHKD	APPD
001	001	ISSUED FOR MANUFACTURE	25.01.19	AAHIL		
002	002	ISSUED FOR MANUFACTURE	25.01.19	AAHIL		
003	003	ISSUED FOR MANUFACTURE	25.01.19	AAHIL		

REVISIONS

REVISIONS

REVISIONS

REVISIONS

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REVISIONS

REVISIONS

REVISIONS

REVISIONS

REVISIONS

REVISIONS

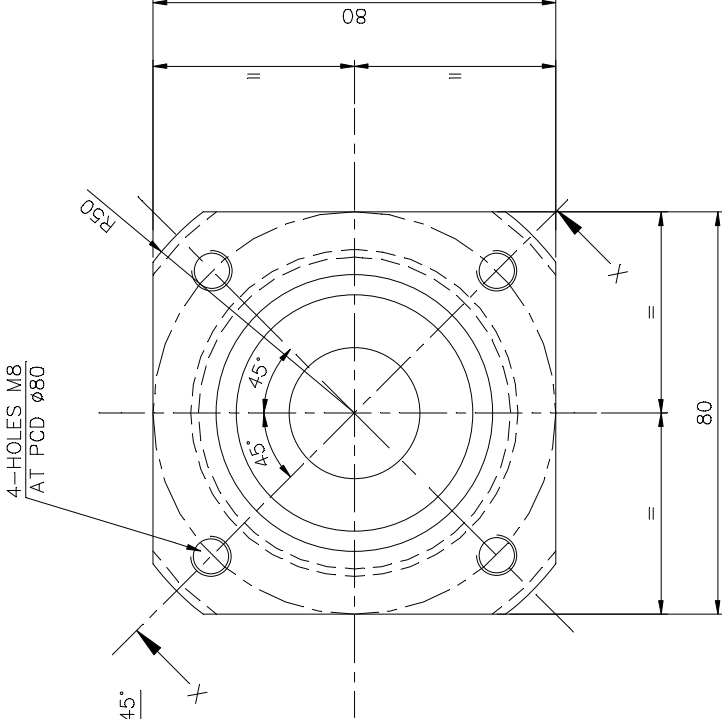
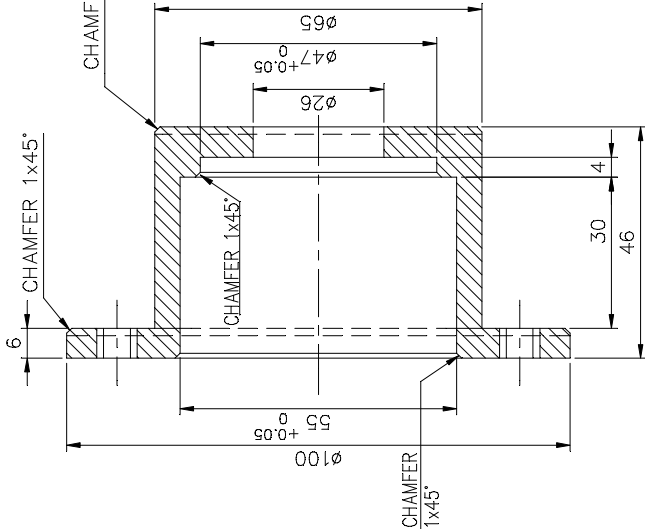
REVISIONS

REVISIONS

REVISIONS



DRG. NO. 001



SECTION 'X-X'

IT.001

NOTES :-

- 1. FINISH :- ZINC PLATE & PASSIVATE TO AA0673603 & AA 0673604 (0.013 TO 0.015 TK)

VM-12(BT)

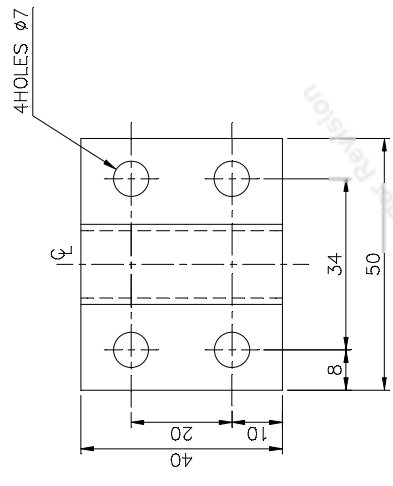
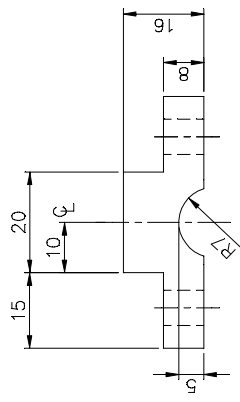
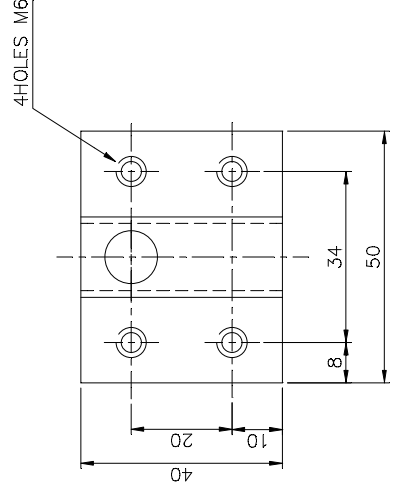
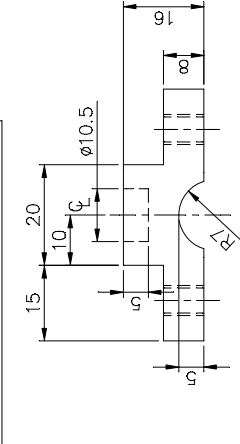
BP9099109369		001		100 DIA X 50 LG. STR.ROUND		AA1010208268		3.0841			
VAR00	REMARKS	75 78 79 25 27 29	58 59 60	77	DRAWING NO.	29 31 34	MATL. CODE	45 55 56 58	UNIT	WT.	65 72
		VAR. NO.	ITEM NO.	DESCRIPTION		ITND.		A 57	C	QTY.	53
						32 33 46	MATL. SPCN.	54			
						VAR.					
</											



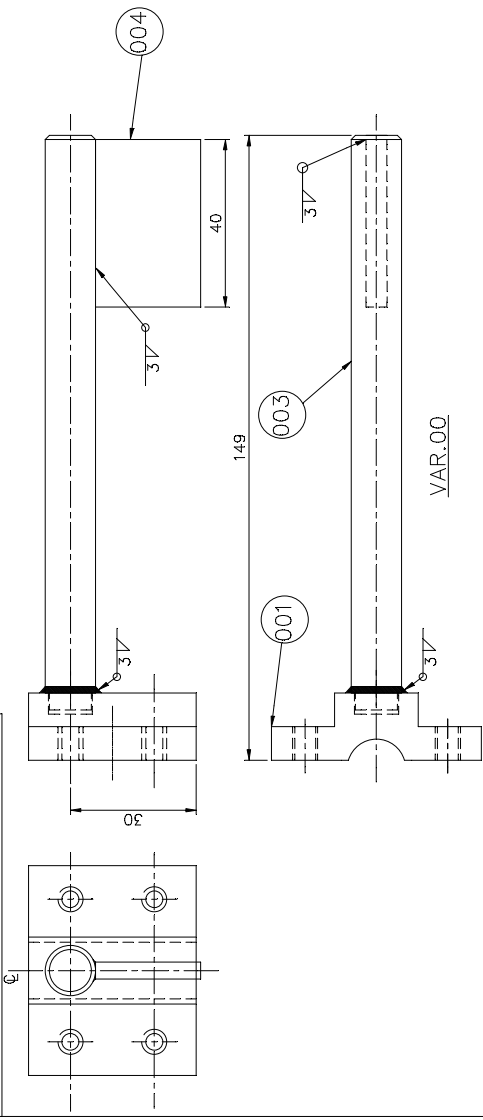








59	64	65	75	76	79	25	27	29	DESCRIPTION			58	60	77	29	31	34	MATL. CODE			45	56	58	UNIT WT.			65	72	QTY.			68	71	69			70	73			74	75			76	77			78	79			80	81			82	83			84	85			86	87			88	89			90	91			92	93			94	95			96	97			98	99			100	101			102	103			104	105			106	107			108	109			110	111			112	113			114	115			116	117			118	119			120	121			122	123			124	125			126	127			128	129			130	131			132	133			134	135			136	137			138	139			140	141			142	143			144	145			146	147			148	149			150	151			152	153			154	155			156	157			158	159			160	161			162	163			164	165			166	167			168	169			170	171			172	173			174	175			176	177			178	179			180	181			182	183			184	185			186	187			188	189			190	191			192	193			194	195			196	197			198	199			200	201			202	203			204	205			206	207			208	209			210	211			212	213			214	215			216	217			218	219			220	221			222	223			224	225			226	227			228	229			230	231			232	233			234	235			236	237			238	239			240	241			242	243			244	245			246	247			248	249			250	251			252	253			254	255			256	257			258	259			260	261			262	263			264	265			266	267			268	269			270	271			272	273			274	275			276	277			278	279			280	281			282	283			284	285			286	287			288	289			290	291			292	293			294	295			296	297			298	299			300	301			302	303			304	305			306	307			308	309			310	311			312	313			314	315			316	317			318	319			320	321			322	323			324	325			326	327			328	329			330	331			332	333			334	335			336	337			338	339			340	341			342	343			344	345			346	347			348	349			350	351			352	353			354	355			356	357			358	359			360	361			362	363			364	365			366	367			368	369			370	371			372	373			374	375			376	377			378	379			380	381			382	383			384	385			386	387			388	389			390	391			392	393			394	395			396	397			398	399			400	401			402	403			404	405			406	407			408	409			410	411			412	413			414	415			416	417			418	419			420	421			422	423			424	425			426	427			428	429			430	431			432	433			434	435			436	437			438	439			440	441			442	443			444	445			446	447			448	449			450	451			452	453			454	455			456	457			458	459			460	461			462	463			464	465			466	467			468	469			470	471			472	473			474	475			476	477			478	479			480	481			482	48		
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NOTE: -  
ITEM 001,003 & 004 ARE TO BE WELDED AS SHOWN.  
FINISH: - FOR IT.002 & VAR.00  
ZINC PLATE & PASSIVATE TO  
AA 0673603 & AA 0673604 (0.013 TO 0.015 TK.)

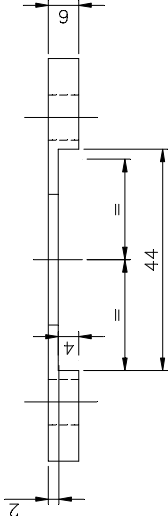
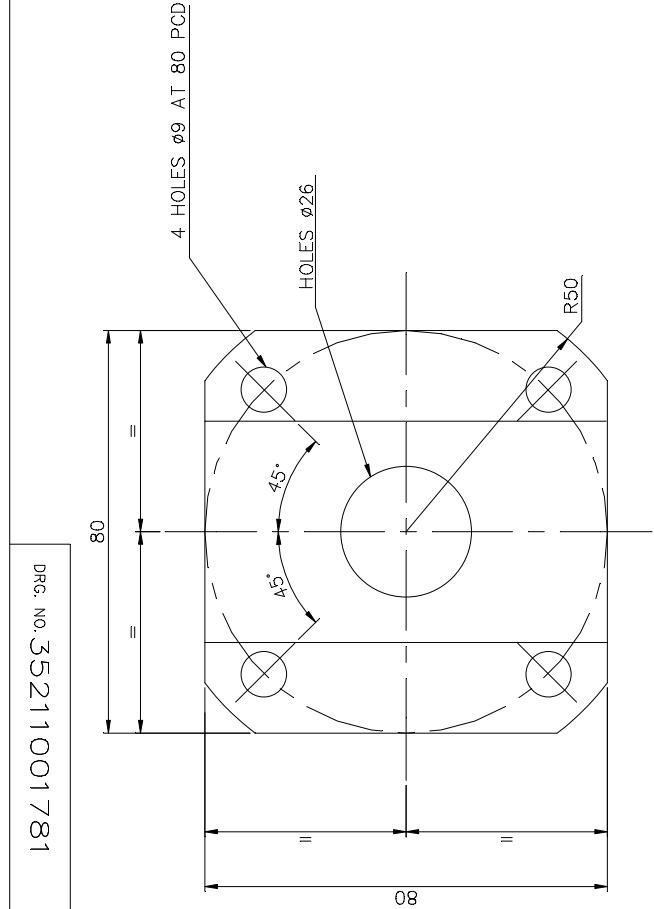
STYLE NO.: - FOR ITEM-002=BP9099111320  
FOR VAR.-00 =BP9099111312

WEIGHT FOR VAR.-00: -0.398 kg.

001					5 TK. x 40 x 41 LG. BRT. ST. BAR				AA 1010312057			0.056
001					12 x 99 LG. BRT. ST. BAR				AA10112			0.117
					5 TK. x 25 x 40 LG. BRT. ST. BAR				AA 1010312057			0.039
					12 x 137 LG. BRT. ST. BAR				AA10112			0.124
					16 TK. x 50 x 40 LG. BRT. ST. FLAT				AA 1010312235			0.251
					16 TK. x 50 x 40 LG. BRT. ST. FLAT				AA 1010312235			0.251
001									AA10112			0.01
VAR01	VAR00	REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	TT.NO.	MATL. CODE	MATL. SPON.	UNIT WT.	QTY.	

REV.		DATE	ALTERED	SKG	REV.	DATE	ALTERED	AT	ADDITIONAL INFORMATION		28 → CARD TYPE-1		28 → CARD TYPE-2	
07		21.06.22	CHECKED	AT	06		26.04.22	AT	mRikn dk i-dkj :k xx-gd@fj.kstut dk uke TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		VM-12 (BT)			
		-LENGTH OF ITEM 005 IS REDUCED BY 5MM VAR01 IS UPDATED ACCORDINGLY. (DCA NO. 37664)			ITEM-006 MODIFIED DIM. 41 WAS 36. (DCA NO. 37526)			STATUS OF DRAWING			B			
								DISTRIBUTION OF PRINTS						
								OC -1 SWGR -3 TCX -1						
REV.		DATE	ALTERED	MKN	REV.	DATE	ALTERED	AT	REV. DATE		REV. DATE		REV. DATE	
03		24.09.12	CHECKED	AKHIL	04		13.02.13	CHECKED	AKHIL	05		04.10.19	CHECKED	AT
		- FOR IT. 003 DIM 133 WAS 140. - FOR IT. 004 DIM 25 WAS 15. - FOR VAR. 00 DIM 149 WAS 156. (DCA NO. 31335)						ITEM-001 HOLE-Ø10.5 ADDED. ITEM-003 DIMN. 137 WAS 133 (DCA NO. 31678)						
SIGN. & DATE														
INVENTORY NO.														





ITEM 001

FINISH: -  
ZINC PLATE & PASSIVATE TO  
AA 0673603 & AA 0673604 (0.013 TO 0.015 TK.)  
RESPECTIVELY.

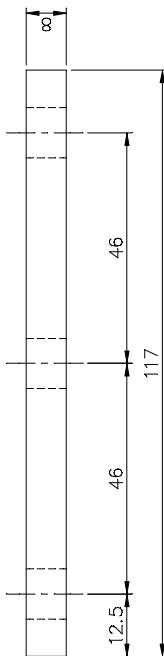
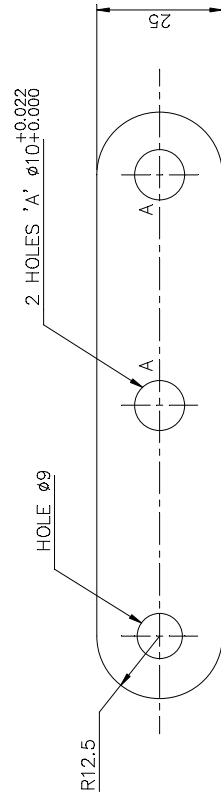
VM-12 (BT)

SIGN. & DATE		35211001781-R02-S01		REF. DRG. NO.		35211001781-R02-S01	
REV.	DATE	ALTERED	SKG	REV.	DATE	ALTERED	SKG
03	19.10.16	CHECKED APPROVED	AKHIL AD	02	25.11.06	CHECKED APPROVED	MAK
-DIM. 44 WAS 40, 2 WAS 3.		HOLES DEGREE ADDED.		HOLE OF DIAMETER 26mm MARKED AT CENTER.		(DCA NO. 26372)	
(DCA NO. 34302)		(DCA NO. 26242)		SHUTTER SEATING		35211001781	
INVENTORY NO.		35211001781		DRAWING NO.		03	
SIGN. & DATE		35211001781-R02-S01		REF. DRG. NO.		35211001781-R02-S01	

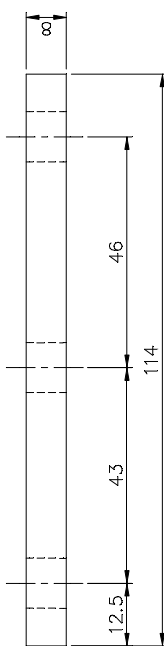
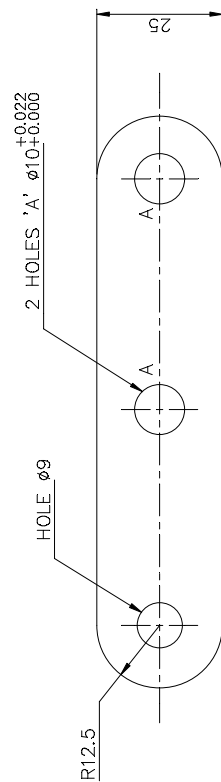


181109112023/HEP-SWM20961  
28/10 01 125 5 ON GRD

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.



ITEM 001



ITEM 002

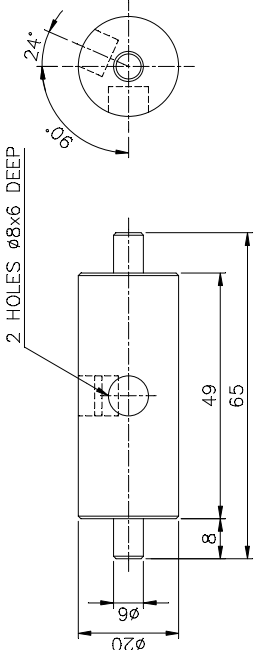
		002	8 Tk. x 25 x 114LG. BRT. ST. FLAT		AA 1010312170	0.178
		001	8 Tk. x 25 x 117LG. BRT. ST. FLAT		AA 1010312170	—
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. MATERIAL CODE A	UNIT WT.
					VAR MATL. SPON. C	QTY

FINISH: —  
ZINC PLATE & PASSIVATE TO PR. SPEC. NO.  
AA 0673603 & AA 0673604 (0.013 TO 0.015 TK.)  
RESPECTIVELY.

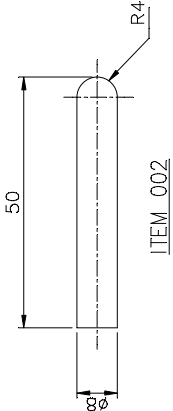
REF.DRG.NO. 35211001787-R00-S01	ADDITIONAL INFORMATION		TYPE OF PRODUCT OR NAME OF CUST/PROJ		VM-12 (BT)			
	STATUS OF DRAWING		BHARAT HEAVY ELECTRICALS LIMITED BHOPAL		DRN S.U.S.	NAME	SIGN	DATE
	DISTRIBUTION OF PRINTS		O.COPY-----1 SWM-----3 TCX-----1		CKD S.S.A.	S.S.A.		10.09.03
					APPD H.R.P.	H.R.P.		10.09.03
INVENTORY NO.	REV	DATE	DRN AT	REV	DATE	ITEM NO.	NO.OF ITEMS	REV.
	02	03.10.19	APPD AD	01	27.03.17	002	002	002
		—ITEM 002 ADDED.		TOLERANCE ADDED ON HOLE DIA TO		REF TO ASSY 35211001811		DRG NO 3 521 10 01787
		CN-36215		CN-34704		SCALE 1:1		UNIT
						UN. TOL.DIM.GR.		NO.OF SHT. 01
						DEPT SWE		NO.OF REV. 02
						CODE 409		REV. 02
						TITLE LEVER		REV. 02

88/10 01 125 £ ON GRD

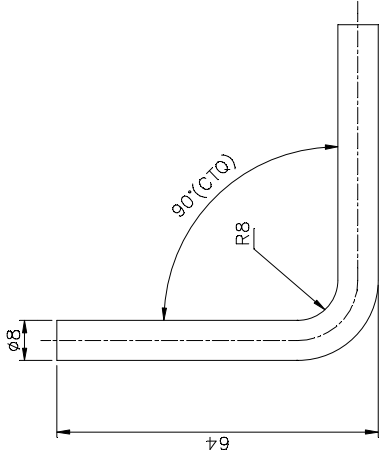
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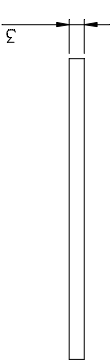
ITEM 001



ITEM 002



ITEM 003

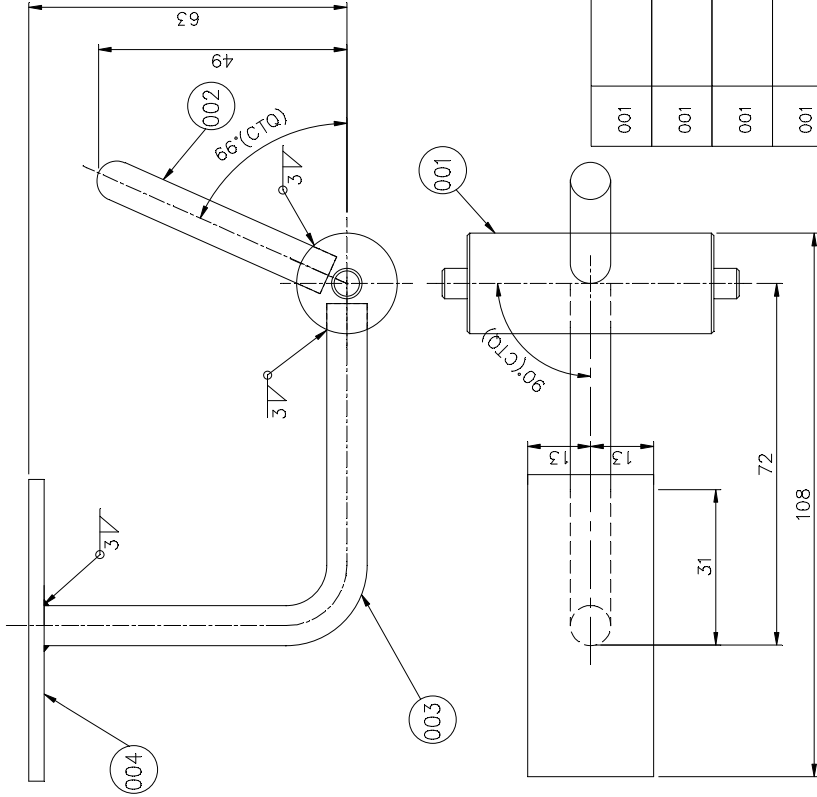


ITEM 004

VAR NO	REMARKS	VAR NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	UNIT	KG.
00						UNIT WT.	
						QTY	

ADDITIONAL INFORMATION										VM-12 (BT)									
STATUS OF DRAWING										TYPE OF PRODUCT OR NAME OF CUST/PROJ									
DISTRIBUTION OF PRINTS										BHARAT HEAVY ELECTRICALS LIMITED BHO PAL									
O.COPY-----1 SWM-----3 TCX-----1										DRN S.U.S. Sd/- CKD S.S.A. Sd/- APPD H.R.P. Sd/-									
REV 03	DATE 9.3.07	DRN CKD APPD	SUS SSA MAK	REV 02	DATE 25.11.06	DRN CKD APPD	SUS SSA MAK	REV 01	DATE 22.01.04	DRN CKD APPD	SUS SSA HRP	DEPT SWE CODE 409	UN. TOL.DIM.GR.	SCALE 1:1	WEIGHT (KG.)	REF TO ASSY 15211001539	ITEM NO. 019	NO.OF ITEMS 004	NO. OF VAR 01
-DIMS 64 FOR IT. 003 WAS 68. -DIMS 108, & 63 FOR VAR. 00 WERE 111, & 66 RESPLY.										DESIGN MODIFIED.									
(DCA NO. 26707)										(DCA NO. 26373)									
INVENTORY NO.										TITLE									
										W.A. OF STRIKER									
										DRG NO 3 521 10 01788									
										REV. 03									
										SHT.NO. 01 NO.OF SHT. 02									

88/10011295



VAR.00

NOTE: -  
ITEM. 001 TO 004 ARE TO BE WELDED AS SHOWN.

FINISH: -  
ZINC PLATE & PASSIVATE TO PR. SPEC. NO.  
AA 0673603 & AA 0673604 (0.013 TO 0.015 TK.)  
RESPECTIVELY.

REV.	DATE	ALTERED	SUS	REV.	DATE	ALTERED	SUS
03	9.3.07	CHECKED APPROVED	SSA MAK	02	25.11.06	CHECKED APPROVED	SSA MAK

-DIMS 64 FOR IT. 003 WAS 68.  
-DIMS. 108, & 63 FOR VAR. 00  
WERE 111, & 66 RESPLY.

(DCA NO. 26707)

(DCA NO. 26373)

DESIGN MODIFIED.

W.A. OF STRIKER

35211001788

1"=1"AZ

W.A. OF STRIKER

35211001788

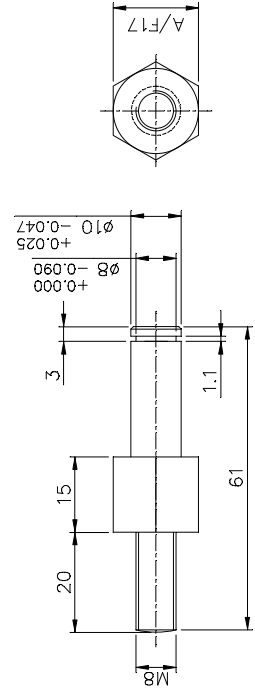
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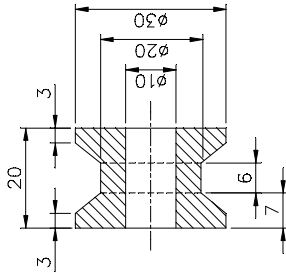
181109112023/HEP-SWM20961

68/10 01 125 5 ON GRD

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ITEM 002



ITEM 001

		003	17 A/F x 51 LG. BRT. ST. BAR HEX.		AA 1010112104	KG.	-
		002	17 A/F x 61 LG. BRT. ST. BAR HEX.		AA 10112	KG.	001
		001	30 x 20 LG. BRT. ST. BAR ROUND		AA 1010112104	KG.	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO.	MATERIAL CODE	UNIT WT.
					VAR	MATL. SPON.	QTY

FINISH: -

ZINC PLATE & PASSIVATE TO  
AA 0673603 & AA 0673604 (0.013 TO 0.015 TK.)  
RESPECTIVELY.

TYPE OF PRODUCT OR  
NAME OF CUST/PROJ

VM-12 (BT)

ADDITIONAL INFORMATION

STATUS OF DRAWING

DISTRIBUTION OF PRINTS  
0 COPY-----1  
SWM-----3  
TCX-----1



BHARAT HEAVY ELECTRICALS LIMITED  
BHOPAL

REV DATE DRN AT  
02 3.10.19 CKD AT  
APPD AD  
-ITEM 003 ADDED.

DEPT SWE  
CODE 409



SCALE  
1:1

WEIGHT  
(KG.)

REF TO ASSY  
35211001811

NO. OF  
ITEMS  
003  
004

REV.  
02

PIN & ROLLER

(DCA NO. 23625)

(DCA NO. 36217)

DRG NO  
3 521 10 01789

NO. OF  
ITEMS  
003  
004

REV.  
02

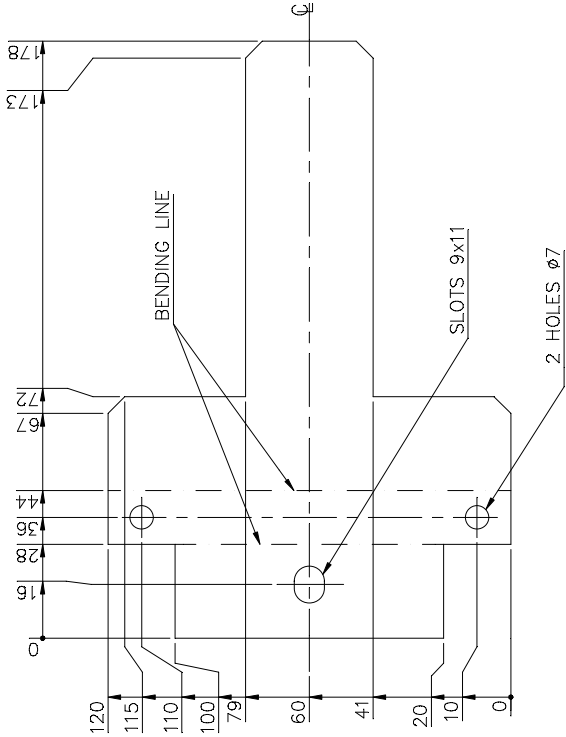
SHT.NO. 01

NO. OF SHT. 01





DRG. NO. 16Z10011255



DEVELOPMENT OF ITEM 002



ITEM 002

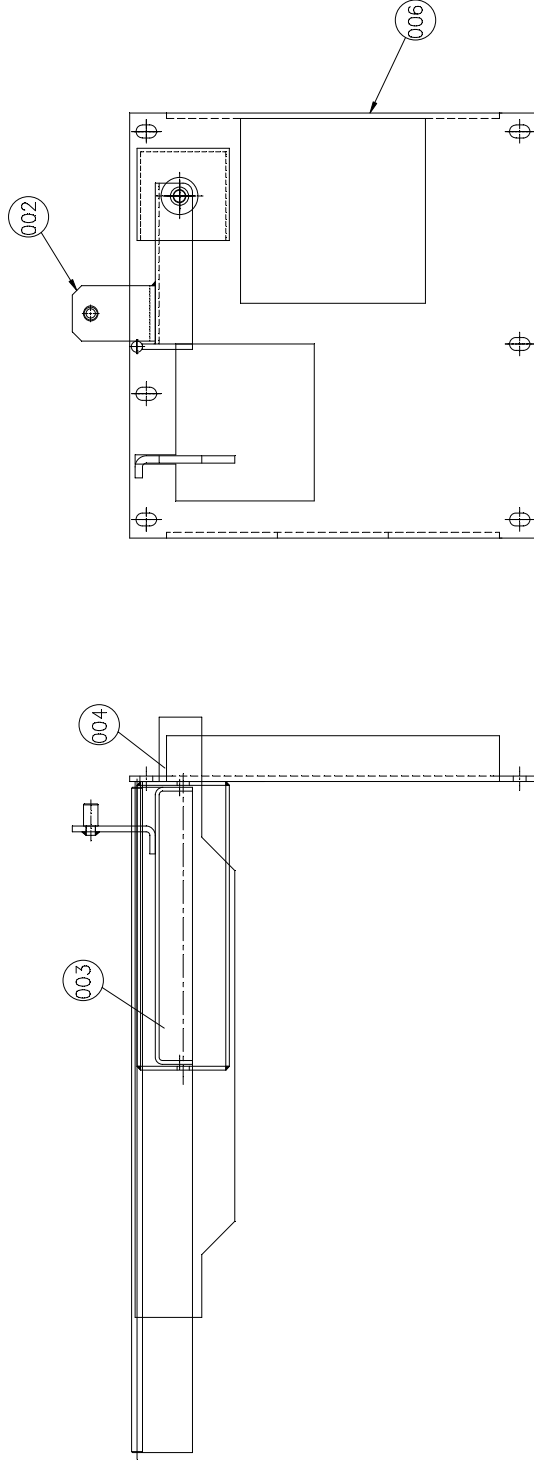
65	75	76	79	25	27	29	58	59	60	77	26	31	34	45	55	56	58	65	72
REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	MATL. CODE	MATL. SPECN.	IT. NO.	VAR.	VAR.	VAR.	VAR.	VAR.	VAR.	VAR.	VAR.	VAR.	VAR.	VAR.	VAR.

28 → CARD TYPE-3		28 → CARD TYPE-1		28 → CARD TYPE-2															
ADDITIONAL INFORMATION																			
STATUS OF DRAWING B																			
DISTRIBUTION OF PRINTS																			
O. COPY-----1																			
SWM-----3																			
TCX-----1																			
REV.	DATE	ALTERED	SKG	REV.	DATE	ALTERED	SKG	REV.	DATE	ALTERED	SKG	REV.	DATE	ALTERED	SKG	REV.	DATE	ALTERED	SKG
02	27.04.19	CHECKED	AT	01	9.3.07	CHECKED	SSA	01	9.3.07	CHECKED	SSA	01	9.3.07	CHECKED	SSA	01	9.3.07	CHECKED	SSA
		APPROVED	AD			APPROVED	MAK			APPROVED	MAK			APPROVED	MAK			APPROVED	MAK
IT.002 ADDED.		-SLOTS CENTRE LINE 16		-SLOTS CENTRE LINE 16		-SLOTS CENTRE LINE 16		-SLOTS CENTRE LINE 16		-SLOTS CENTRE LINE 16		-SLOTS CENTRE LINE 16		-SLOTS CENTRE LINE 16		-SLOTS CENTRE LINE 16		-SLOTS CENTRE LINE 16	
(DCA NO. 35922)		(DCA NO. 26708)		(DCA NO. 26708)		(DCA NO. 26708)		(DCA NO. 26708)		(DCA NO. 26708)		(DCA NO. 26708)		(DCA NO. 26708)		(DCA NO. 26708)		(DCA NO. 26708)	
INVENTORY NO.		SIGN. & DATE		REF. DRG. NO.		35211001791-R01-S01		IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY		THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED		181							





DRG. NO. 35211001807

[illegible]



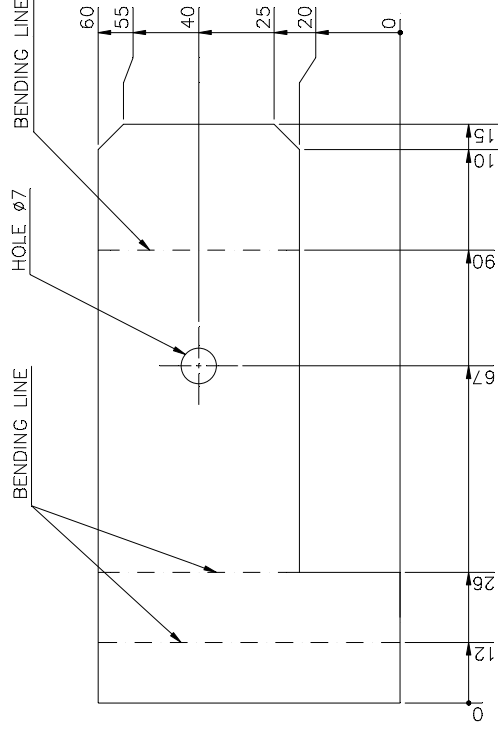
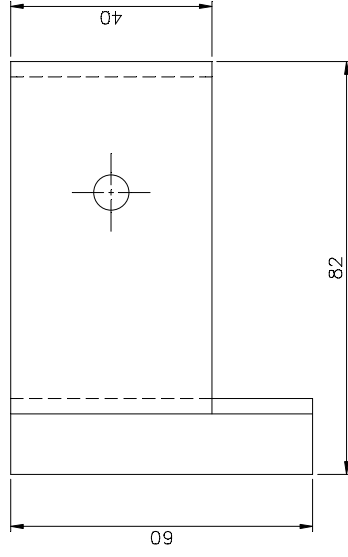
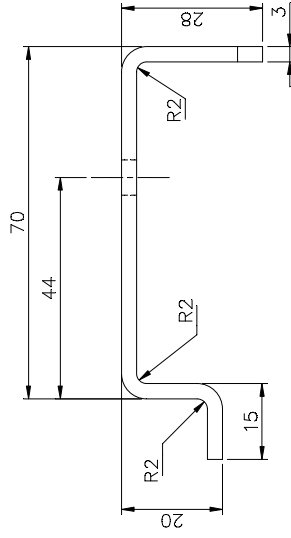


FINISH: —

ZINC PLATE &amp; PASSIVATE TO

AA 0673603 &amp; AA 0673604 (0.013 TO 0.015 TK.)

RESPECTIVELY.



DEVELOPMENT OF ITEM 002

[illegible][illegible]















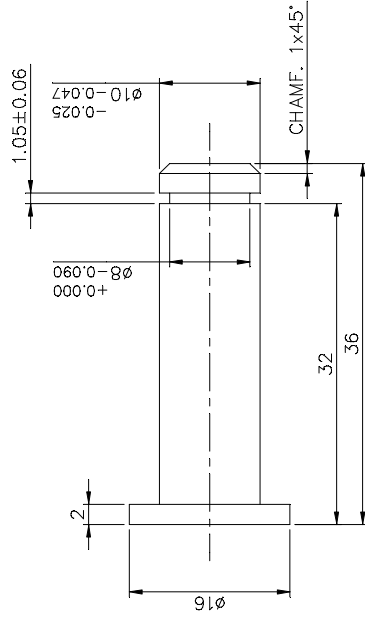




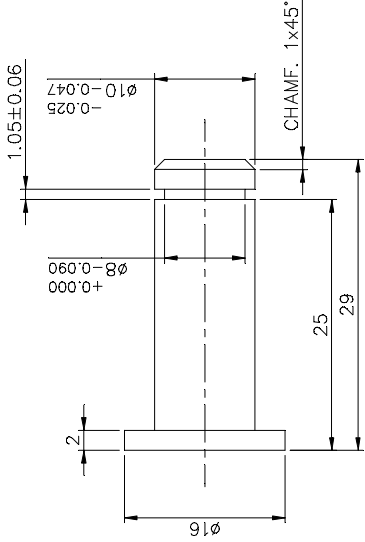


• 人 •

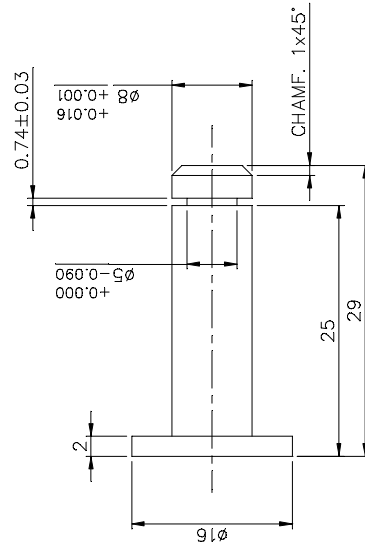
• 人 •



ITEM 002



ITEM 003



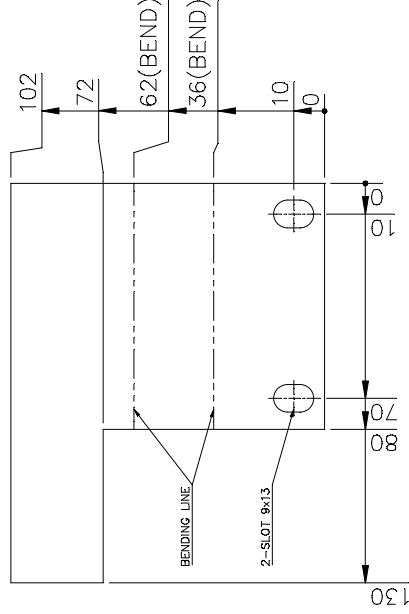
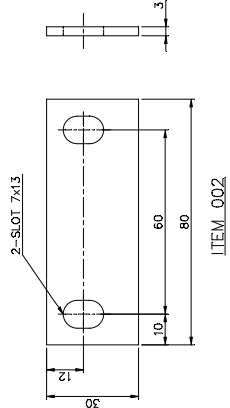
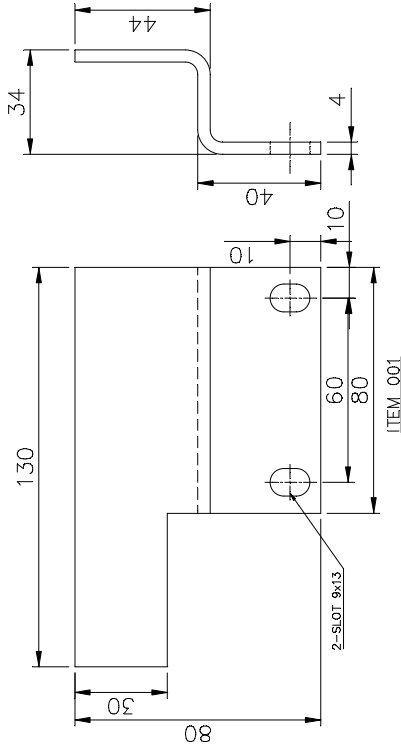
ITEM 004

[illegible]

REF. DR		352120		SIGN. & DATE				INVENTORY NO.			
REV		DATE		DRN		SD/-		REV		DATE	
06		29.11.02		CKD		SD/-		05		27.06.00	
				APPD		SD/-					
DRG. REDRAWN.		DIM 36 & 32 WERE 34 & 30						ITEM 004 ADDED.			
		RESPITLY FOR IT. 002									
		(DCA 12309 )						(DCA 10084)			

SDIS FN: -

1811091/2023/HEP-SWM20961  
DRG NO. 001



DEVELOPMENT OF ITEM\_001

DEVELOPMENT OF ITEM\_002

DEVELOPMENT OF ITEM\_003

FINISH:-  
ZINC PLATE & PASSIVATE TO  
AA 0673603 & AA 0673604 (0.013 TK)  
RESPECTIVELY.

VM-12

REF. DRG. NO. 001

VM-12

SIGN. & DATE

VM-12

INVENTORY NO.

VM-12

REV.

VM-12

DATE

VM-12

ALTERED

VM-12

CHECKED

VM-12

APPROVED

VM-12

REV.

VM-12

DATE

VM-12

ALTERED

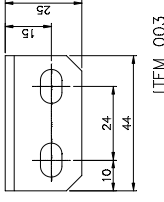
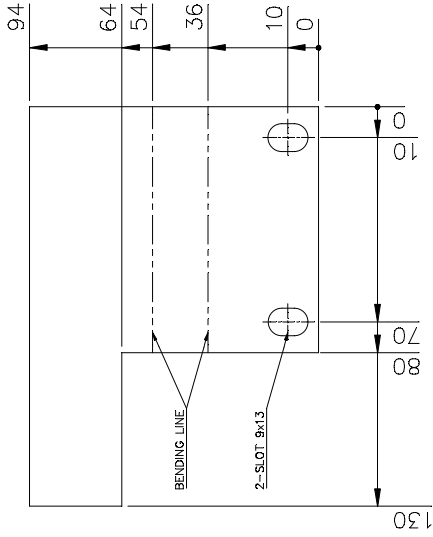
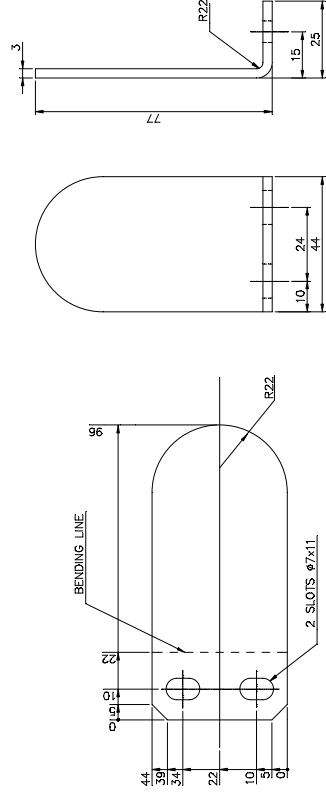
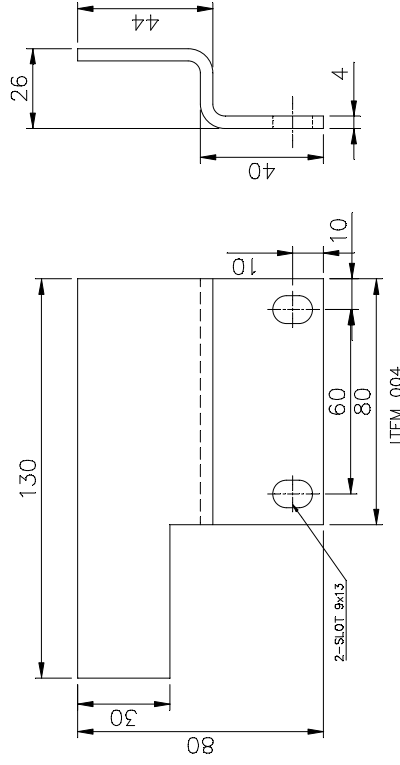
VM-12

CHECKED

VM-12

APPROVED

VM-12

[illegible]











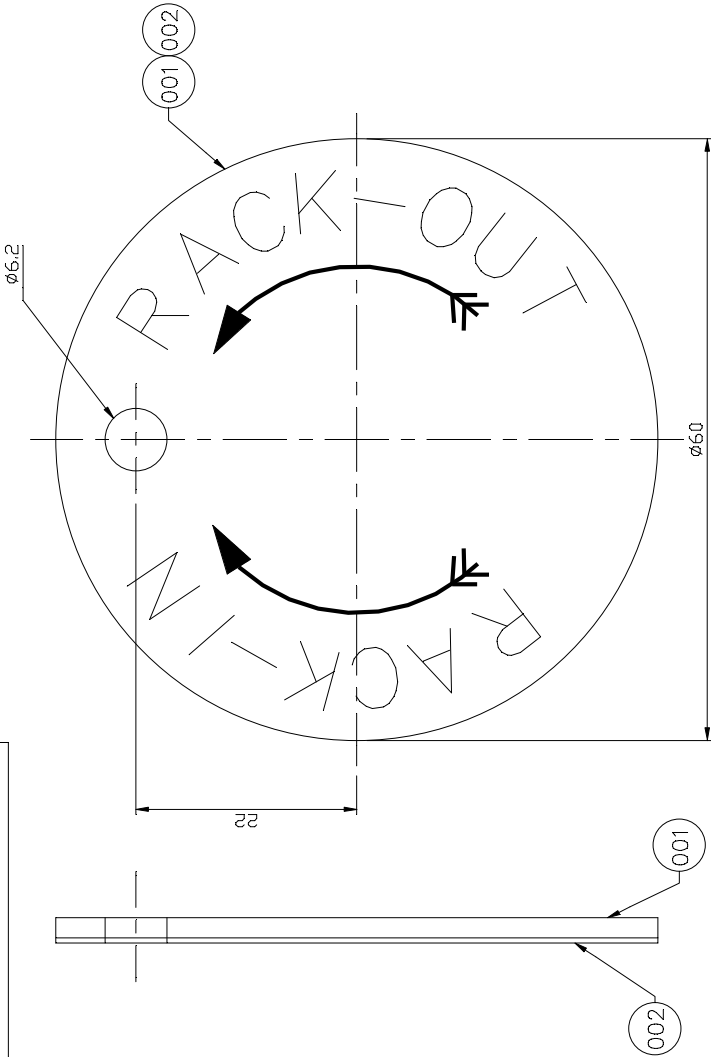




181109112023/HEP-SWM20961

54520 06 125 3 DRG NO

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NOTE : -  
ITEM 001 & 002 ARE TO BE PASTED AS SHOWN.

VAR. 00

001	BP 9029108703	002	ADHEBIVE LABLE	35219002582	001			
001		001	2TK.x60x60 HRCS SHEET			AA 1011713110		
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NL.	MATERIAL CODE	A UNIT WT.	
					VAR	MATL. SPON.	C	QTY

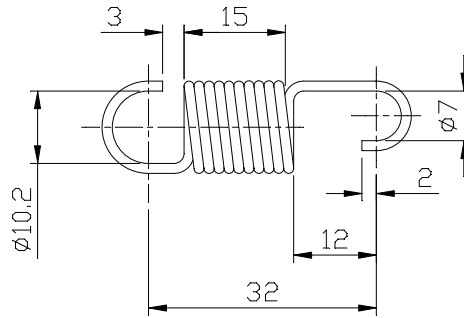
35219002545-R00-S01		REF.DRG.NO.		VM 12 (BT II)		TYPE OF PRODUCT OR NAME OF CUST/PROJ	
SIGN. & DATE		STATUS OF DRAWING		ADDITIONAL INFORMATION		DRN S.U.S.	
INVENTORY NO.		REV DATE		DISTRIBUTION OF PRINTS		NAME SIGN	
		REV DATE		OFFICE COPY - 1		DATE	
		REV DATE		SWGR SHOPS - 3		16-4-02	
		REV DATE		TCX - 1		16-4-02	
		REV DATE		BHARAT HEAVY ELECTRICALS LIMITED		REF TO ASSY	
		REV DATE		BHOUPAL		3 521 90 02594	
		REV DATE		UN. TOL.DIMGR.		ITEM NO.	
		REV DATE		SCALE 2:1		023	
		REV DATE		WEIGHT (KG.)		NODF ITEMS	
		REV DATE		TITLE		002	
		REV DATE		HANDLE FLAP		REV.	
		REV DATE		3 521 90 02545		00	
		REV DATE		SHT.NO.		NODF SHT.	
		REV DATE		01		01	
		REV DATE		CADZONE			



1811091/2023/HEP-SWM20961

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REV. 04	DATE 14.5.94	ALTERED CHECKED APPROVED Sd/- Sd/- Sd/-	REV. 03	DATE 10.2.94	ALTERED CHECKED APPROVED Sd/- Sd/- Sd/-	ADDITIONAL INFORMATION
MOVEMENT WAS 2.67 Kg./CM. & SCALE WAS 20.			DRG. REDRAWN			STATUS OF DRAWING
(DCA NO. 05838)			(DCA NO. 5453)			DISTRIBUTION OF PRINTS □.C.-1 SWM-3 TCX-1
REV. 07			DATE 10.2.20			ALTERED CHECKED APPROVED SKG AT AT
item 002 added			DRG. REDRAWN			
(DCA NO. 36399)			(DCA NO. 26545)			



PARTICULARS	NOM.	MIN.	MAX.
GRADE	C		
INSIDE DIA	10.2		
OUTSIDE DIA	13		
DIRECTION OF WDG	RH		
TOTAL TURN	10		
FREE LENGTH	32		
WORKING LENGTH	45		
MOVEMENT	20		
SCALE	2.67 kg./cm		

BP9099261420	002	Ø1.422X550 lg. COLD DRAWN SPG. S. WIRE ZICK COATED.	BP9099261420	Kg.	0.0107
BP9099261420	001	Ø1.422X450 lg. COLD DRAWN SPG. S. WIRE ZICK COATED.	BP9099261420	Kg.	0.006
65	7525	2729	58	59	46
REMARKS	ITEM NO.	DESCRIPTION	MATL. CODE	54	55
			MATL. SPCN.	56	68
				UNIT	UNIT WT.
					QTY.

28 → CARD TYPE-3

28 → CARD TYPE-1

28 → CARD TYPE-2



HAKjr gsob bysDV&hdYl fyfeVsM  
HAKsiky  
BHARAT HEAVY ELECTRICALS LTD.  
BHOPAL

uke NAME	gLRk SIGN	fnuakd DATE	osfj_ dh
cuk;k DRN	MP	27.5.78	la[k NO. OF VAR.
tkap;k CKD	CRKB		
vugksfmr APPD	RKJ	2.6.78	

foHAKx DEPT SWE	vu_ Vky_ uki dh Js.kh	UNTOL.DIMS. GR.	vugikr SCALE	HAKj fd_xk- WEIGHT (K.G.)	vis_M&kbZax dk lanHAZ REF. TO ASSY. DRG.	en d- ITEM NO.	en la[k NO. OF ITEM
dkSM CODE 409	M	AA0230208	1:1	0.006	15092001505	020	001

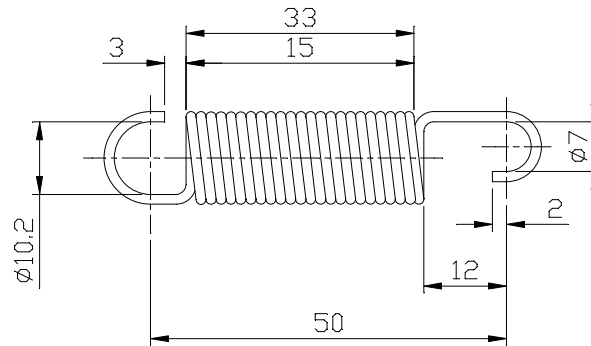
'Ah"AZD@E

SPRING

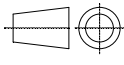
vkjs[A d-DRAWING NO.	iqu@REV.
45092001507	07
i="B d-SHT. No. 01	i="Bkso dh la[k NO. OF SHT. 02

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13/HEP-SWM20961											
REV.	DATE	ALTERED	ALTERED	REV.	DATE	ALTERED	ADDITIONAL				
04	14.5.94	CHECKED	Sd/-	03	10.2.94	CHECKED	Sd/-	INFORMATION			
		APPROVED	Sd/-			APPROVED	Sd/-	STATUS OF			
MOVEMENT WAS 2.67 Kg./CM.				DRG. REDRAWN				DRAWING			
& SCALE WAS 20.								DISTRIBUTION			
(DCA NO. 05838)				(DCA NO. 5453)				OF PRINTS			
								□.C.-1 SWM-3			
								TCX-1			
				REV.	DATE	ALTERED	SKG	REV.	DATE	ALTERED	SUS
				07	10.2.20	CHECKED	AT	06	11.1.07	CHECKED	SSA
						APPROVED	AT			APPROVED	MAK
				item 002 added				DRG. REDRAWN			
				(DCA NO. 36399)				(DCA NO. 26545)			



PARTICULARS	NOM.	MIN.	MAX.
GRADE		C	
INSIDE DIA	10.2		
OUTSIDE DIA	13		
DIRECTION OF WDG		RH	
TOTAL TURN	23		
FREE LENGTH	50		
WORKING LENGTH	85		
MOVEMENT	46		
SCALE	1.19 kg./cm		

65		7525	2729	58		59	46	54		55	56	68	71			
REMARKS		ITEM NO.	DESCRIPTION		STD	MATL. CODE		MATL. SPCN.		UNIT	UNIT	UNIT WT.				
												QTY.				
28 → CARD TYPE-3			28 → CARD TYPE-1			28 → CARD TYPE-2										
<div><div>बी एच ई एल</div><div>BHEL</div></div>			HAKjr gsob bysDV&hdYl fyfeVsM HAKsiky BHARAT HEAVY ELECTRICALS LTD. BHOPAL			uke NAME		qLrk SIGN		fnuakd DATE		osfj_ dh la[k NO. OF VAR.				
						cuk;k DRN		MP		27.5.78		—				
						tkapk CKD		CRKB								
						vuqeksfnr APPD		RKJ		2.6.78		—				
foHAKx DEPT SWE		vu_ Vky_ uki dh Js.kh UNTOL.DIMS. GR. M AA0230208				vuqikr SCALE 1:1		HAKj fd_xk_— WEIGHT (K.G.) 0.006		vis_M&kbZax dk lanHAZ REF. TO ASSY. DRG. 15092001505			en d— ITEM NO. 020		en la[k NO. OF ITEM 001	
dkSM CODE 409										'Ah"AZDLE			SPRING			
										vkjs[A d—DRAWING NO. 45092001507			iqu@REV. 07			
										i="B d—SHT. No. 02			i="Bkso dh la[k NO OF SHT. 02			

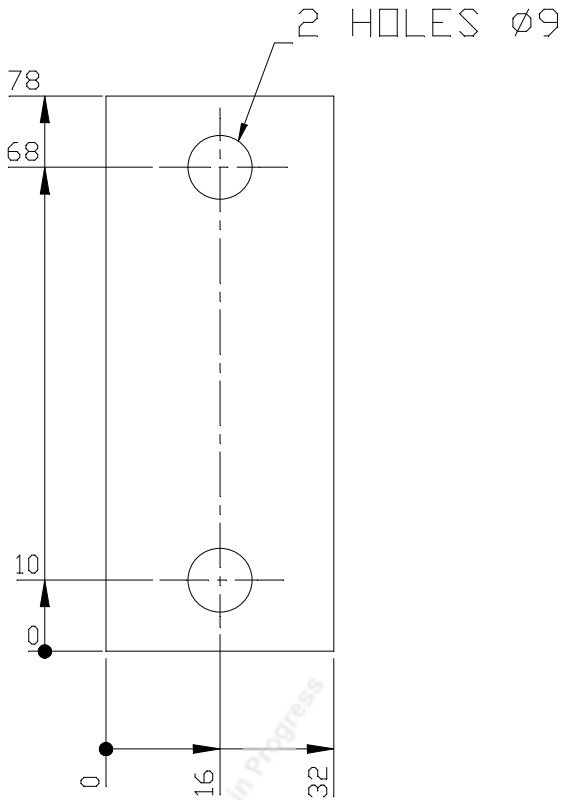




1811091/2023/HEP-SWM20961

3/HEP-SWM20961			REV.	DATE	ALTERED	ADDITIONAL INFORMATION	
		CHECKED			CHECKED		
							STATUS OF DRAWING
							DISTRIBUTION    □/C-1    SWM- 4 OF PRINTS        TCX-1

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


ITEM 001

FINISH:-

ZINC PLATE & PASSIVATE TO PR. SPEC. NO. AA0673603  
& AA0673604 (0.013 TO 0.015 TK)

	001	3.15TKX32X78 LG. H.R.C.S. SHEET	STD.	AA1011713136	A - C	UNITS	0.200
				AA10113			001
REMARKS	ITEM NO.	DESCRIPTION	STD.	MATL. CODE	A - C	UNITS	UNIT WT.
				MATL. SPECN			QTY.

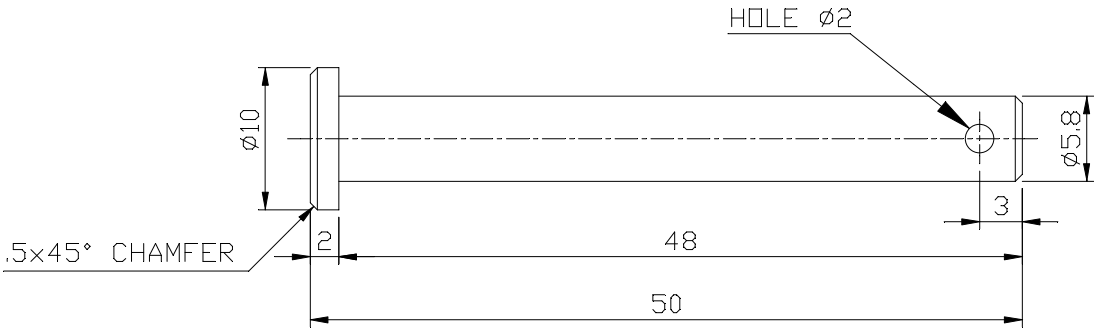
<div><div>बी.सच्.ई.सम.</div><div></div></div>	BHATAT HEAVY ELECTRICALS LIMITED BHOPAL				NAME	SIGN.	DATE	NO.OF VAR	
					DRN	SKG	Sd/-		30.04.16
					CHD	AKHIL	Sd/-		30.04.16
					APPD	MAK	Sd/-		30.04.16
DEPT. SWE	UN. TOL.DIM.GR. M		SCALE	WEIGHT (Kg.)	REF. TO ASSY. DRG.		ITEM NO.	NO.OF ITEMS	
CODE 409	AA0230208		1:1		—		012		
TITLE					DRAWING No.			REV.	
PACKER FOR SQUARE NUT					45211001503				
					SHEET NO. 01		NO.OF SHEETS 01		



1811091/2023/HEP-SWM20961

3/HEP-SWM20961								
REV.	DATE	ALTERED	REV.	DATE	ALTERED	ADDITIONAL INFORMATION		
		CHECKED			CHECKED			
						STATUS OF DRAWING	B	
						DISTRIBUTION OF PRINTS	□/C-1 TCX-1	SWM-3

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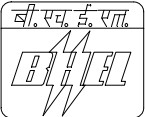

FINISH

ZINC PLATE & PASSIVATE TO PR.SPEC.AA0673603  
& AA0673604 (0.013 TK.) RESPECTIEVELY.

REF. DRG. No.

SIGN & DATE

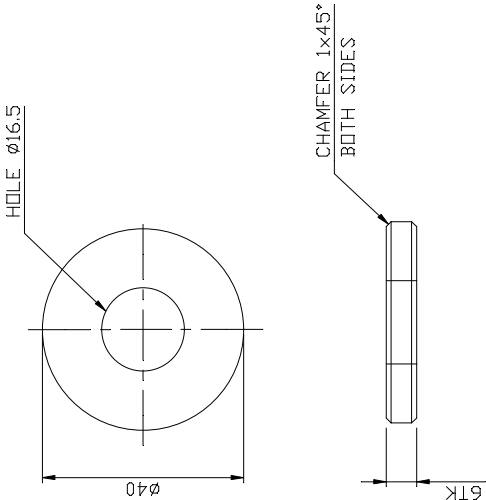
INVENTORY No.

	001	Ø10×50 LG. BRT. ST. ROUND BAR.	AA1010212028 AA10112		KG	0.011 001	
REMARKS	ITEM NO.	DESCRIPTION	STD.	MATL. CODE	A C I	UNITS	UNIT WT.
				MATL. SPECN			QTY.
	BHATAT HEAVY ELECTRICALS LIMITED BHOPAL			NAME	SIGN.	DATE	NO.OF VAR
			DRN	SUS	Sd/-	2.02.06	
			CHD	SSA	Sd/-	2.02.06	
			APPD	PATEL	Sd/-	2.02.06	
DEPT. SWE	UN. TOL.DIM.GR.		SCALE 2:1	WEIGHT (Kg.)	REF. TO ASSY. DRG. 35211001774	ITEM MO. 003	NO.OF ITEMS 001
CODE 409	M AA0230208						
TITLE  PIN				DRAWING No. 45211001774			REV. 00
				SHEET NO. 01		NO.OF SHEETS 01	

REV.	DATE	ALTERED	REV.	DATE	ALTERED	ADDITIONAL INFORMATION	
		CHECKED			CHECKED	STATUS OF	
						DRAWING	
						D/C-1 SWM- 4	
						DISTRIBUTION OF PRINTS	
						TCX-1	

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY TO THE INTEREST OF THE COMPANY.



NOTE :-

FINISH :- ZINCPLATE & PASSIVATE TO PR. SPEC. NO. AA0673603  
& AA0673604 (0.013 TO 0.015TK)

REF. DRG. No.	45219001520-R00-S00	REMARKS	ITEM NO.	DESCRIPTION	S	MATL. SPECN		UNIT WT.	QTY.
						MATL. CODE	A - C		
REF. DRG. No.	45219001520-R00-S00	REMARKS	ITEM NO.	DESCRIPTION	S	MATL. SPECN		UNIT WT.	QTY.
						MATL. CODE	A - C		

<div>SR. PCL. &amp; DATE</div> <div>11/11/17</div>		BHATAT HEAVY ELECTRICALS LIMITED BHOPAL			<div>NAME</div> <div>SUS</div>		<div>SIGN.</div>	<div>DATE</div> <div>3.12.01</div>	<div>NO. OF VAR</div> <div>✓</div>
		<div>DRN</div>	<div>CHD</div>		<div>APPD</div>			<div>3.12.01</div>	
		<div>JSP</div>						<div>3.12.01</div>	

FIRST ANGLE PROJECTION

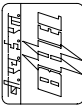
CALL DIMENSIONS ARE IN mm

REV.	DATE	ALTERED	REV.	DATE	ALTERED	SUS	ADDITIONAL INFORMATION	
		CHECKED	01	25.3.07	CHECKED	MAK	STATUS OF DRAWING	
BEARING DETAILS ADDED.							B	
(DCA NO. 26738)							D/C-1 SWM- 4	
							TCX-1	

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45219001521-R00-S00

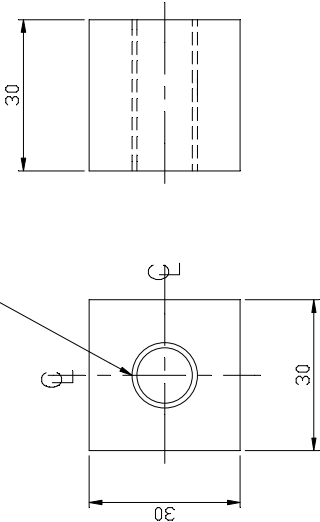
BP9029108118	001	BEARING NO. 51205 SKF/KG MAKE	DESCRIPTION	STD.	MATERIAL CODE		UNIT WT.	
					MATERIAL SPECN			QTY.
REMARKS		ITEM NO.			UNITS			

<div><div><div>SIGNATURE</div><div></div></div><div><div>BHATAT HEAVY ELECTRICALS LIMITED</div><div>BHOPAL</div></div></div>												UN. TOL-DIMGR.		SCALE		WEIGHT (kg)		REF. TO ASSY. DRG.		ITEM NO.		NODF ITEMS
DEPT		SWE		M		1:1				001												
CODE		409		AA0230208						REV.												
TITLE <u>SINGLE ROW THRUST BEARING</u>																						
DRAWING NO. 45219001521										REV. 01												
SHEET NO. 01										NODF SHEETS 01												

REV.	DATE	ALTERED	SUS	REV.	DATE	ALTERED	ADDITIONAL INFORMATION
02	11.12.07	CHECKED	MAK	03	25.02.10	CHECKED	STATUS OF
THREAD DETAILS UPDATED IN LINE WITH BIS & NOTE MODIFIED.				DRAWING B			
(DCA NO. 27130)				D/C-1 SWM- 4			
				DISTRIBUTION OF PRINTS TCX-1			

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DOUBLE START TRAPEZOIDAL  
THREAD TR20X8(P4)-LEFT HAND  
(IS 7008-1999;PART 1 & 2



NOTE:-  
CHECK SQUARE THREAD WITH LEAD SCREW TO DRG.  
35219001525-ITEM-001 OR 35219001549 VAR.00

FINISH:-  
ZINC PLATE & PASSIVATE TO PR. SPEC. NO. AA 0673603  
& AA 0673604 (0.013 TO 0.015 TK)

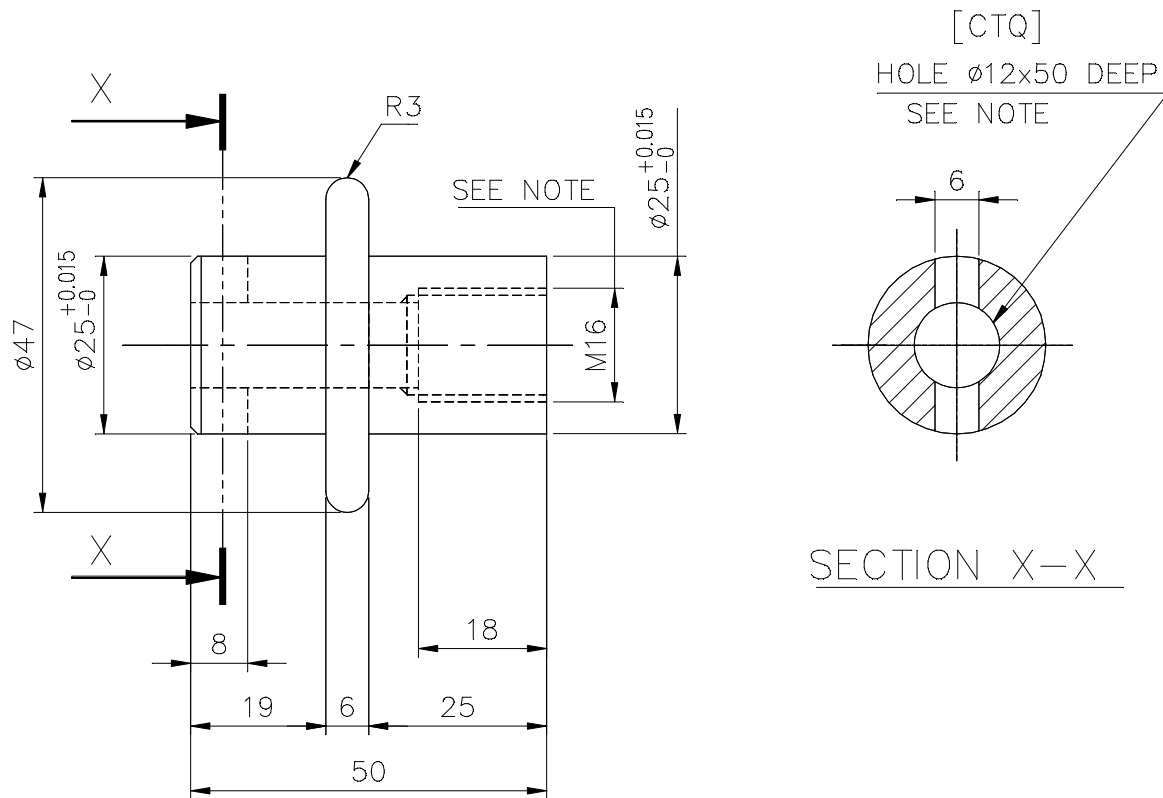
REF. DRG. No. 45219001522-R00-S01	001	30SQ.X30LG. BRT. ST. BAR	AA 10101412191	0.200
			AA 10112	001
REMARKS	ITEM NO.	DESCRIPTION	MATL. CODE	UNIT WT.
			MATL. SPECN	QTY.

SIGN & DATE		NAME		SIGN.	DATE	NO. OF VAR
		DRN	S. U. S	Sd/-	03.04.01	
INVENTORY No.	UN. TOL-DIMGR. M	CHD	S. S. A	Sd/-	03.12.01	
		APPD	J. S. P	Sd/-	03.12.01	
DEPT. SWE CODE 409	AA0230208	SCALE 	1:1	WEIGHT (Kg.)	REF. TO ASSY. DRG.	ITEM NO. ITEMS
		25219002528		012	001	
TITLE		DRAWING No.		REV.		
SPECIAL NUT		45219001522		03		
		SHEET NO.	01	NO. OF SHEETS	01	

1811091/2023/HEP-SWM20961

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REV.	DATE	ALTERED	REV.	DATE	ALTERED	ADDITIONAL INFORMATION
		CHECKED			CHECKED	
		APPROVED			APPROVED	
						STATUS OF DRAWING B
						DISTRIBUTION O/C SWM TCX OF PRINTS 1 3 1



[CTQ] :— CRITICAL TO QUALITY.

NOTE :—

HOLE 12x50 DEEP TO BE DRILLED BEFORE MAKING

M16x18 DEEP TAPING & HOLE 12xM16 TAPING CENTER LINE SHOULD BE SAME

52190-45219001539-R00-SH1  
REF. DRG. NO.

65	REMARKS	75	001	27	29	58	59	46	54	55	56	68	71
		ITEM NO.			DESCRIPTION	STD			MATL. CODE		UNIT	UNIT WT.	
									MATL. SPCN.			QTY.	

28 → CARD TYPE-3

28 → CARD TYPE-1

28 → CARD TYPE-2



HAKjr gsob bysDV&hdYl fyfeVsM  
HAKsiky  
BHARAT HEAVY ELECTRICALS LTD.  
BHOPAL

NAME	SIGN	DATE	dh
R. RAJORE		1/2/02	NO. OF VAR.
S. KUMAR			
INDRAPAL			

foHAKx DEPT SWE	vu_ Vky_ uki dh Js.kh UNTO.L.DIMS. GR. M AA0230208		vugikr SCALE 1:1	HAKj fd_xk— 0.118T (K.G.) 0.071	en d— ITEM NO.	en la[k NO. OF ITEM 001
--------------------	---	--	------------------------	---------------------------------------	-------------------	-------------------------------

TITLE

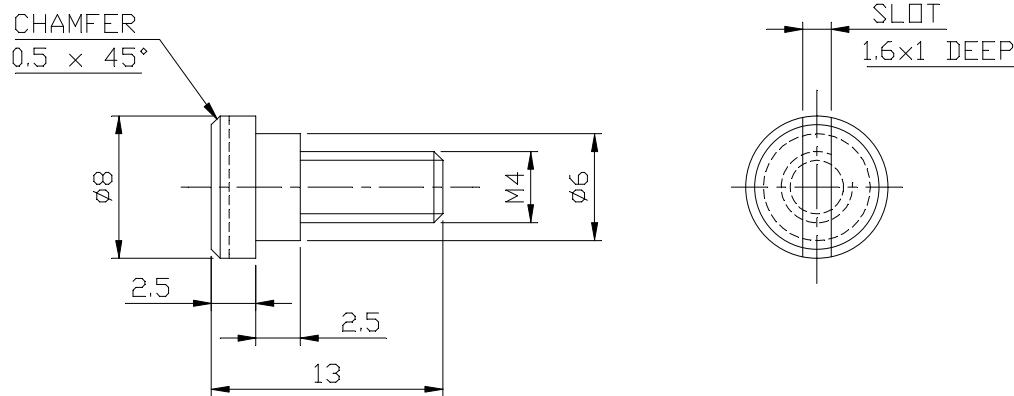
LEAD SCREW COLLER

vkjs[A d—DRAWING NO. 4 521 90 01539	iquREV. 00
i="B d—SHT. No. 01	i="Bkso dh la[kNO OF SHT. 01

**1811091/2023/HEP-SWM20961**

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
REV. DATE ALTERED			REV. DATE	ALTERED	ADDITIONAL INFORMATION
CHECKED				CHECKED	
				STATUS OF DRAWING	
				DISTRIBUTION OF PRINTS <input type="checkbox"/> /C-1 TCX-1 SWM-3	



FINISH : -

ZINC PLATE & PASSIVATE TO PR. SPEC. NO.  
AA0673603 & AA0673604 (0.013 TO 0.015 TK.)

	001	8øx13 Lg. BRT. ST. BAR		AA1010212036		mm	. gms.
				AA10112			.
REMARKS	ITEM NO.	DESCRIPTION	STD.	MATL. CODE	A - C	UNITS	UNIT WT.
				MATL. SPECN			QTY.

<div><div>बी.एच.ई.एल. BHEE</div><div>BHATAT HEAVY ELECTRICALS LIMITED BHOPAL</div></div>			NAME	SIGN.	DATE	NO.OF VAR	
		DRN	S.U.S.		4-12-01		
		CHD	S.S.A.		4-12-01		
		APPD	J.S.P.		4-12-01		
DEPT. SWE	UN. TOL.DIM.GR.		SCALE	WEIGHT (Kg.)	REF. TO ASSY. DRG.	ITEM MO.	NO.OF ITEMS
CODE 409			2.5:1		35219002594	024	001
TITLE					DRAWING No.		REV.
SPECIAL SCREW					4 521 90 02511		00
					SHEET NO. 01		NO.OF SHEETS 01



FIRST ANGLE PROJECTION


CALL DIMENSIONS ARE IN mm

REV.	DATE	ALTERED	KSMANI	REV.	DATE	ALTERED	AKN	ADDITIONAL INFORMATION	
01	25/02/18	CHECKED	MMK.	02	05/12/12	CHECKED	RG	STATUS OF DRAWING	
VT. ADDED.								B	
ODCA NO. 29607								D/C-1 SWM-3	
LENGTH REVISED FROM 68 TO 84								DISTRIBUTION OF PRINTS TCX-1	
ODCA NO. 34659									
REV.	DATE	ALTERED		REV.	DATE	ALTERED	AT		
		CHECKED		03	13/07/20	CHECKED	AD		
ITEM 002 ADDED									
ODCA-36754									

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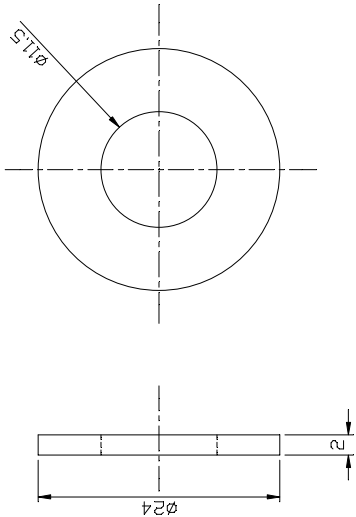
FINISH: - ZINC PLATE & PASSIVAT TO PR. SPEC. NO. AA0673603  
& AA0673604 (0.013 TO 0.015TK.)

45219002512-R00-S00	REF. DRG. No.			AA1010208063			0.033
		002	Ø10 x 68LG. STRL. STEEL ROUND	AA10108			002
		001	Ø10 x 84LG. STRL. STEEL ROUND	AA1010208063			0.040
				AA10108			001
REMARKS	ITEM NO.	DESCRIPTION	MATL. CODE		UNIT WT.		
			MATL. SPECN		QTY.		

SIGN & DATE		NAME		SIGN.	DATE	NO/D/ VAR	
		DRN	S.U.S.		03.12.01		
		CHD	S.S.A.		03.12.01		
		APPD	J.S.P.		03.12.01		
DEPT. SVE	UN. TOL-DIMGR.	SCALE	WEIGHT (kg.)	REF. TO ASSY. DRG.	ITEM NO.	NO/D/ ITEMS	
CODE 409	AA 0230208	1:1		25219002528	010	001	
TITLE			DRAWING No.				REV.
PLUNGER			45219002512				03
INVENTORY No.			SHEET NO.	01	NO/D/ SHEETS	01	SIZE A4

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm)

REV.	DATE	ALTERED	SKG	REV.	DATE	ALTERED	ADDITIONAL
01	04.07.19	CHECKED	AT			CHECKED	INFORMATION
-ITEM 002 ADDED.				STATUS OF			
DCA NO.-36032				DRAWING			
				DISTRIBUTION			
				OF PRINTS			



ITEM-001

002	2TKx24x24 LG.	AA1011713110	0.0090
	H.R.S. SHEET	AA10113	001
001	2TKx24x24 LG.	AA1011713110	0.0090
	H.R.S. SHEET	AA10113	001
65	ITEM NO.	54 55 56 57 58 59 60 61 62 63 64 65	UNIT WT.
REMARKS	DESCRIPTION	MATL. CODE	UNIT WT.
		MATL. SPCN.	QTY.

28 → CARD TYPE-3		28 → CARD TYPE-1		28 → CARD TYPE-2	
HAKJr gsoh bysDV&hdYI fyfeVsm HAKSiky BHARAT HEAVY ELECTRICALS LTD. BHOPAL		HAKJr fd_xk- WEIGHT (KG) 1:2:1		HAKJr fd_xk- ITEM NO. 036	
HAKJr SWE CODE 409		HAKJr SWE CODE 409		HAKJr SWE CODE 409	
INVENTORY NO.		DRAWING NO.		ITEM NO.	
45219008523		45219008523		45219008523	
REF. DRG. NO.		REF. DRG. NO.		REF. DRG. NO.	
45219008523-00-01		45219008523-00-01		45219008523-00-01	







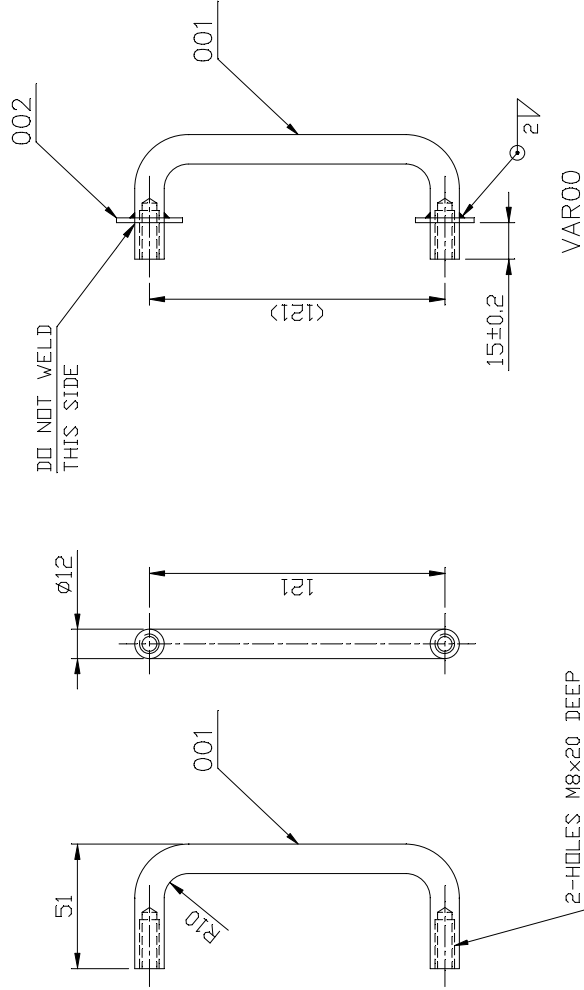
INVENTORY NO.

BHARAT HEAVY ELECTRICALS LIMITED  
DETRIMENTAL TO THE INTEREST OF THE COMPANY

52120\35212001867-R00-\$01  
REF. DRG. NO.

SIGN. & DATE

INVENTORY NO.



TOOL LIST	
TOOL	DESCRIPTION
1497201	BENDING TOOL
1496572M	DRILL JIG.

WELDING GR. IV OF AA0622101.

FINISH

BRIGHT NICKLE PLATING FOLLOWED BY  
FLUSH COAT OF CHROMIUM PLATING & BUFFING.

AREA : - 85 CM<sup>2</sup>

VAR.00 : - BP9089472460

002		002	WASHER MOD 13-ST										AA7161001072	NA	5	0.006	
001		001	-										AA1010208071	NA	5	0.1617	
			12 DIA X 182LG. STRL. ST. BAR										AA10108	NA	5	0.001	
VAR00	REMARKS	75 79 79 25 27 29	VAR. ITEM NLI.	DESCRIPTION	58 59 60	77 79 79 25 27 29	DRAWING NLI.	32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	IT. NLI.	31 34	MATL. CODE	45	55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	UNIT W.T.	65 72		

	28 → CARD TYPE-3	28 → CARD TYPE-1
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mRikn dk i-dkj ; k  
xk-gd@fj;kstuk dk uke  
TYPE OF PRODUCT OR  
NAME OF CUSTOMER/PR

VM12 (BT)

[illegible]

A3