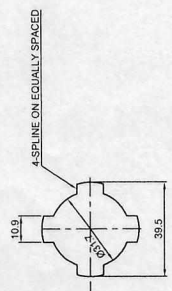


FIRST ANGLE PROJECTION

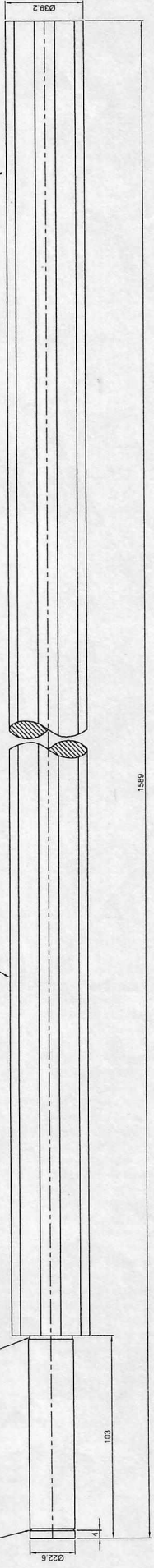
DWG. NO. ISP02002290

(ALL DIMENSIONS ARE IN mm)



UNDER CUT - 1W x 0.8D

UNDER CUT - 1.8W x 0.6D



1- MACHINING ALL OVER
2- MATERIAL - EN24

INVENTORY NO.		SIGN. & DATE		REF. DRG. NO.	
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.					
ADDITIONAL INFORMATION					
STATUS OF DRAWING					
DISTRIBUTION OF PRINTS					
TYPE OF PRODUCT					
NAME OF CUSTOMER/PROJECT					
BHARAT HEAVY ELECTRICALS LTD. BHOPAL					
DEPT. NO. 15.04.13					
DATE 15.04.13					
NAME SON					
DRA. S.K. KIRREEL					
CHK. N. K. PANDIT					
APPD.					
REV. TO ASST. DSG					
SCALE					
UNIT. DMS. OR					
CODE 215					
TITLE					
SPLINE SHAFT WET GEAR COUNTER BORER M/C #4/A/38-457					
DRAWING NO. 1SP02002290					
REV. 00					
SHEET NO. 01					
NO. OF SHEET 12					

SIZE A1

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WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

REV.	DATE	ALTERED	REV.	DATE	ALTERED	ADDITIONAL
		CHECKED		15.04.19	CHECKED	INFORMATION
		APPROVED			APPROVED	
ZONE			ZONE	RE-DRAWN		STATUS OF
						DRAWING
						DISTRIBUTION
						OF PRINTS

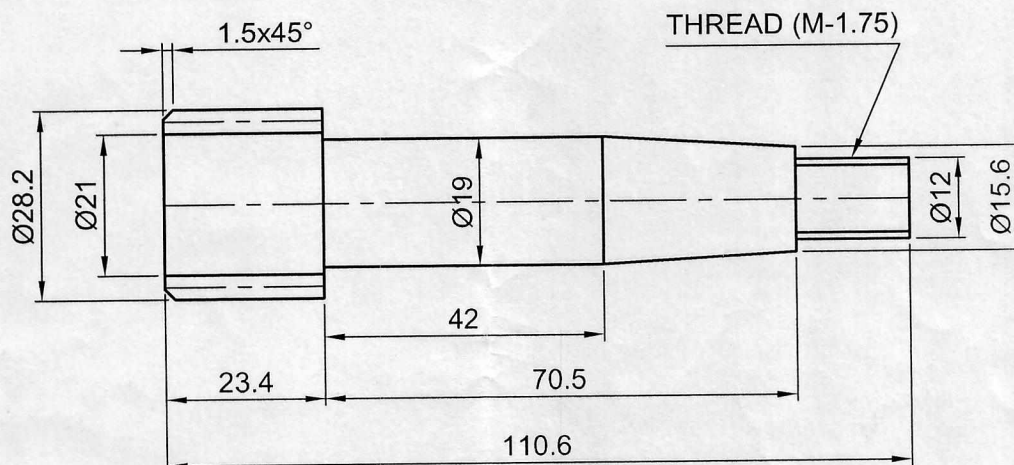
GEAR DATA

OUT SIDE DIA.= Ø28.2

NO. OF TEETH = 14

MODULE / D.P.= 1.76

PRESSURE ANGLE = 20°



1- MACHINING ALL OVER

2- MATERIAL -EN24

REF. DRG. NO.

SIGN. & DATE

TYPE OF PRODUCT
OR
NAME OF CUSTOMER/PRODUCT



BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

	NAME	SIGN	DATE	NO. OF
DRN.	MAHENDRA		09.03.10	VAR.
CHD.				
APPD.				00

INVENTORY NO.	DEPT. WEX CODE 375	UNTOL. DIMS. GR.		SCALE	WEIGHT (K.G.)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
						DRAWING NO. 4SP02002289		REV. 00
						SHT. NO. 01	NO. OF SHT. 01	

TITLE
GEAR SHAFT TOOL POST HANDLE VERT.
BORING M/C #4/A/38 SPEC-2173

SIZE A4

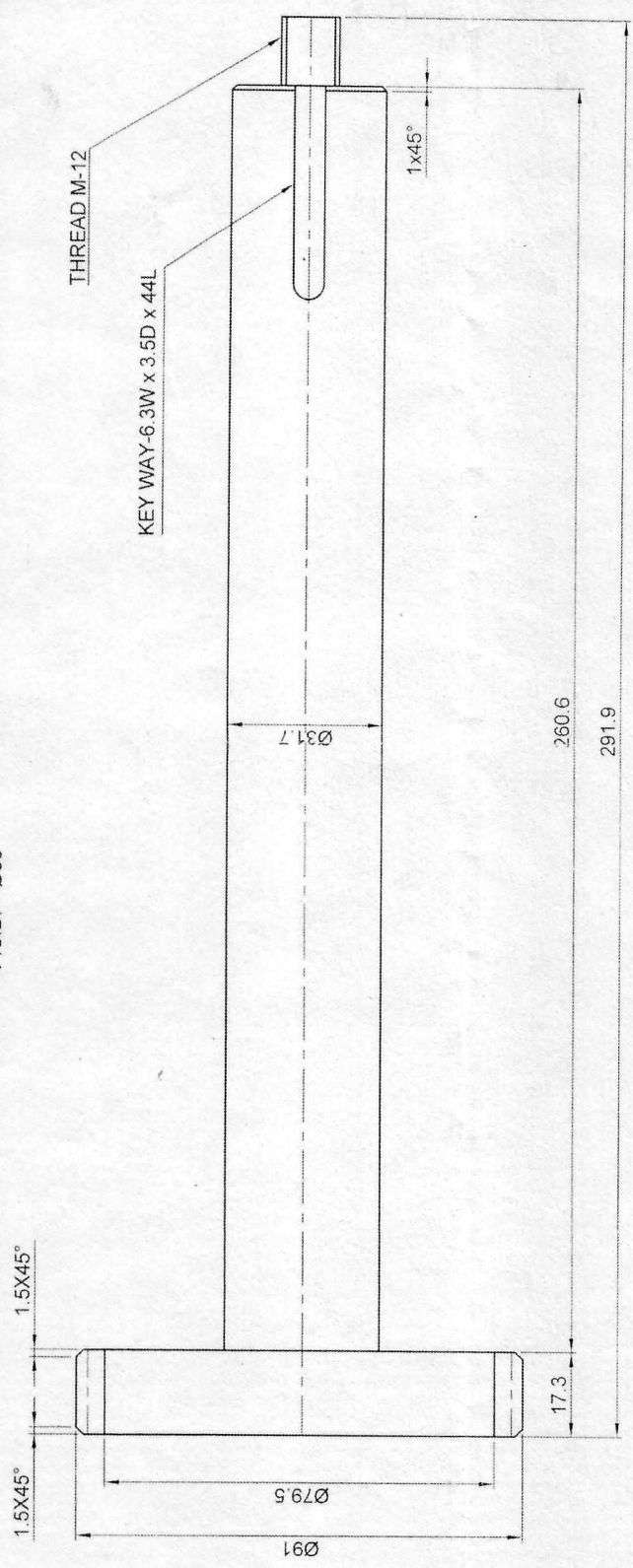
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

DRG. NO. 3SP02002127

SPUR GEAR

OUT SIDE DIA. = Ø91
IN SIDE DIA. = Ø79.5
NO. OF TEETH = 34
MODULE = 2.5
P.C.D. = Ø86



3.2/
1- MACHINING ALL OVER
2- MATERIAL - EN24

INVENTORY NO.	SIGN. & DATE	REF. DRG. NO.	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.									
ADDITIONAL INFORMATION			TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT									
STATUS OF DRAWING			BHARAT HEAVY ELECTRICALS LTD BHOPAL									
DISTRIBUTION OF PRINTS			BHARAT HEAVY ELECTRICALS LTD BHOPAL									
REV.	DATE	ALTERED	DEPT.	WEX	UNTO. DWS. GR.	SCALE	WIGHT (K.G.)	APPD.	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM	
		CHECKED	CODE	375								
		APPROVED										
TITLE			SPUR GEAR SHAFT REM GEAR BOX DOUPLEX BORER M/C ITEM NO.14/A/521A-2173									
DRAWING NO.			3SP02002127									
REV.			00									
SHEET NO.			01									
NO. OF SHEET			01									

SIZE A3

FIRST ANGLE PROJECTION

8822002028PSE ON .DRG

BEVEL GEAR DATA

OUT SIDE DIA. = $\phi 114.2$
 NO. OF TEETH = 35
 MODULE = 3
 CIRCULAR PITCH = 9
 PITCH DIAMETER = $\phi 109.56$
 WORKING DEPTH = 6
 PITCH ANGLE = 63.4°
 CONE DISTANCE = 33.54
 ADDENDUM = 2.20
 DEDENDUM = 4.6
 PRESSURE ANGLE = 20°

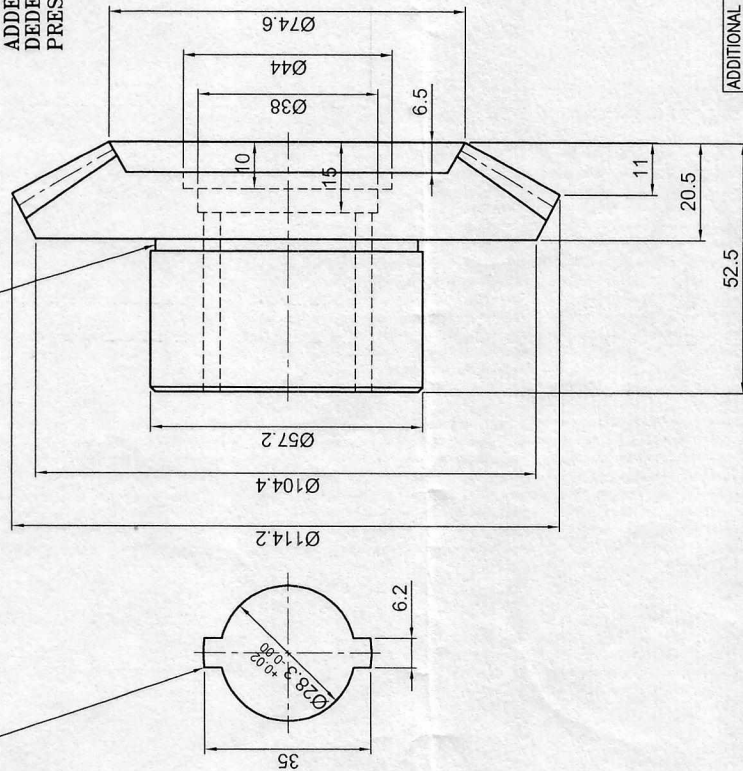
BEVEL GEAR DATA

OUT SIDE DIA. = $\phi 72$
 NO. OF TEETH = 21
 MODULE = 3
 CIRCULAR PITCH = 9.83
 PITCH DIAMETER = $\phi 65.73$
 WHOLE DEPTH = 6.85
 PITCH ANGLE = 26.56°
 CONE DISTANCE = 33.54
 ADDENDUM = 4.05
 DEDENDUM = 2.79
 PRESSURE ANGLE = 20°

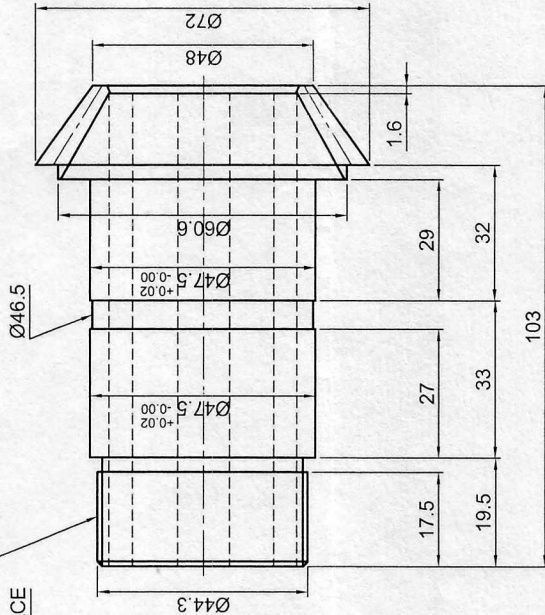
UNDER CUT 1WIDE x 0.5DEEP

2- SPLINE ON FRONT TO FRONT

4- SPLINE ON EQUAL SPACE



THREAD 14 T.P.I.



सर्वत्र मशीनिंग
 पदार्थ : ई.एन.24

NOTES:-

- DO NOT SCALE DRAWING UNLESS SPECIFIED OTHERWISE, ALL DIM. ARE IN mm.
- REMOVE BURRS AND SHARP EDGES AND CORNER'S

SURFACE FINISH 'Ra'	MICRON
▽	N12
▽	N10, N11
▽	N7, N8, N9
▽	N4, N5, N6
▽	N1, N2, N3

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

उत्पाद के प्रकार या ग्राहक/परियोजना का नाम

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
 भोपाल (मध्य प्रदेश)
 (भारत सरकार का उपक्रम)

ADDITIONAL INFORMATION

अतिरिक्त जानकारी

STATUS OF DRAWING

ड्राइंग का प्रारूप

DISTRIBUTION OF PRINTS

प्रतियों का वितरण

REV. पुनः

DATE दिनांक

ALtered/परिवर्तित

CHECKED/जाँचा

APPROVED/अनुमोदित

REV. पुनः

DATE दिनांक

ALtered/परिवर्तित

CHECKED/जाँचा

APPROVED/अनुमोदित

REV. पुनः

DATE दिनांक

ALtered/परिवर्तित

CHECKED/जाँचा

APPROVED/अनुमोदित

REV. पुनः

DATE दिनांक

ALtered/परिवर्तित

CHECKED/जाँचा

APPROVED/अनुमोदित

REV. पुनः

DATE दिनांक

ALtered/परिवर्तित

CHECKED/जाँचा

APPROVED/अनुमोदित

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APPROVED/अनुमोदित

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DATE दिनांक

ALtered/परिवर्तित

CHECKED/जाँचा

APPROVED/अनुमोदित

REV. पुनः

DATE दिनांक

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CHECKED/जाँचा

APPROVED/अनुमोदित

REV. पुनः

DATE दिनांक

ALtered/परिवर्तित

CHECKED/जाँचा

APPROVED/अनुमोदित

REV. पुनः

DATE दिनांक

ALtered/परिवर्तित

CHECKED/जाँचा

APPROVED/अनुमोदित

REV. पुनः

DATE दिनांक

ALtered/परिवर्तित

CHECKED/जाँचा

APPROVED/अनुमोदित

REV. पुनः

DATE दिनांक

ALtered/परिवर्तित

CHECKED/जाँचा

APPROVED/अनुमोदित

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REF. DRG. NO.

SIGN. & DATE

INVENTORY NO.

REV. पुनः

NO. OF SHEET

01

SIZE A3

DRG. NO. 2SP02002284

PINION GEAR DETAIL
OUT SIDE DIA. = Ø91
NO. OF TEETH = 34
D.P. = 0.4
P.C.D. = 85.96

$$\frac{\text{NO. OF TEETH} = 141}{\text{PITCH} = 8}$$

2-HOLES Ø13.4

$$\frac{\text{NO. OF TEETH} = 141}{\text{PITCH} = 8}$$

2-HOLES Ø13.4

7-HOLES Ø13.4 & C/BORE Ø20.2x13.4D

3.2/ ~~3.2~~

1 - MACHINING ALL OVER

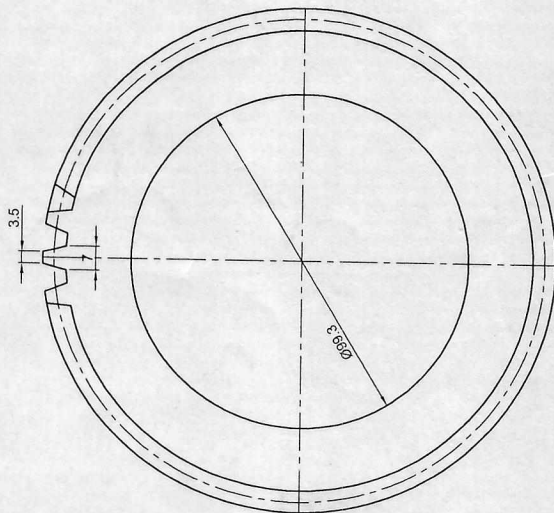
2 - MATERIAL - EN24

[illegible]

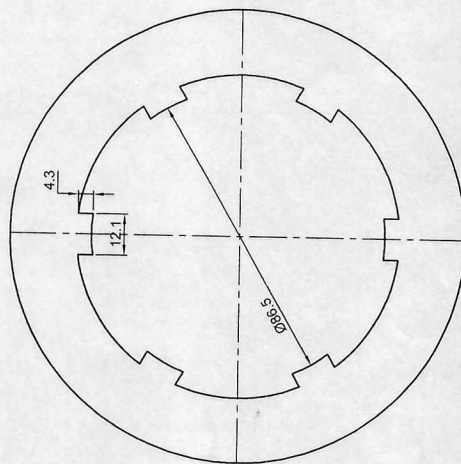
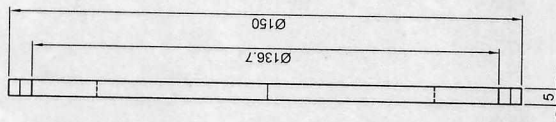
SIZE: A1

DRG. NO. 2SP02002292

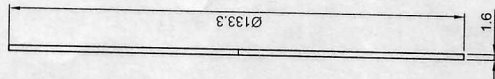
SPUR GEAR
OUT SIDE DIA.=150
NO. OF TEETH = 40
P.C.D. = 142.86
MODULE = 3.57
PRESSURE ANGLE = 14 1/2°



ITEM-01 MATERIAL-FEROBESTOS



ITEM-02 MATERIAL-SPRING STEEL



3.2/  1- MACHINING ALL OVER

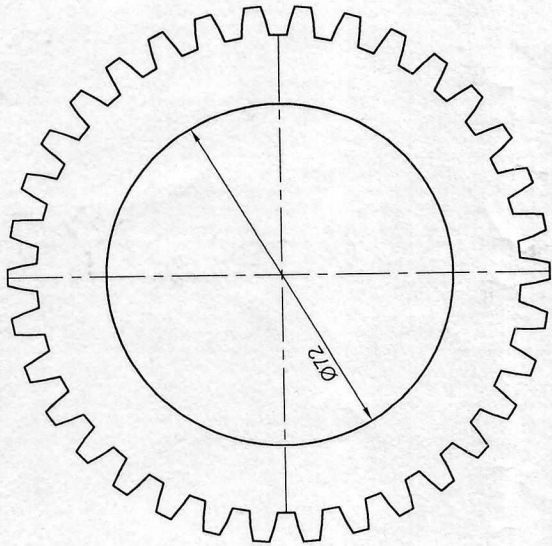
[illegible]

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WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

DRG. NO. 3SP02002297

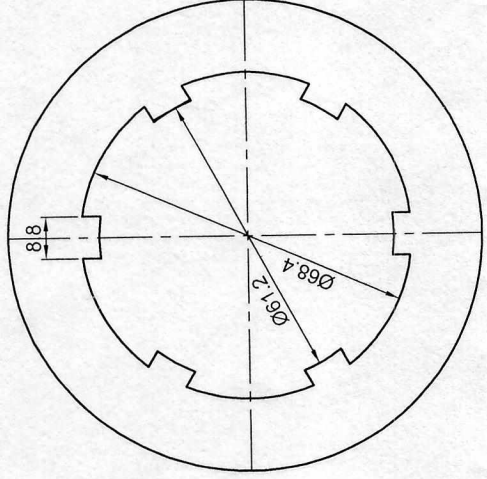
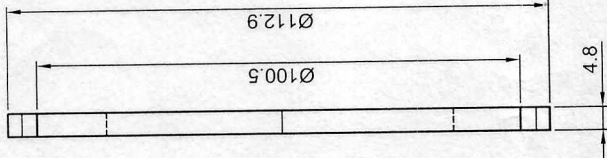
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)



ITEM-1 MATERIAL - FERROBESTOS

SPUR GEAR
OUT SIDE DIA = Ø112.9
NO. OF TEETH = 34
MODULE = 3.2
P.C.D. = Ø106.5
PRESSURE ANGLE = 20°



ITEM-2 MATERIAL -SPRING STEEL

3.2/
1- MACHINING ALL OVER

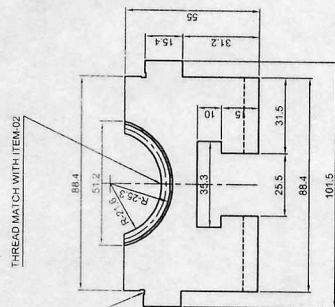
INVENTORY NO. SIGN. & DATE REF. DRG. NO.

ADDITIONAL INFORMATION		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT	
STATUS OF DRAWING		NAME SIGN DATE NO. OF VAR.	
DISTRIBUTION OF PRINTS		DRN. S.K.KUREEL 22.04.19	
		CHD. B.S.PHOGAT	
		APPD. 00	
REV. DATE		REF. TO ASSY. DRG.	
ALTERED		ITEM NO.	
CHECKED		NO. OF ITEM	
APPROVED		REV. 00	
ZONE		DRAWING NO.	
		3SP02002297	
		CLUTCH PLATE RAPID TRAVERSE DUPLEX	
		BORER M/C #4/A/38 SPEC-457	
		SHT. NO. 01 NO. OF SHT. 01	

SIZE A3

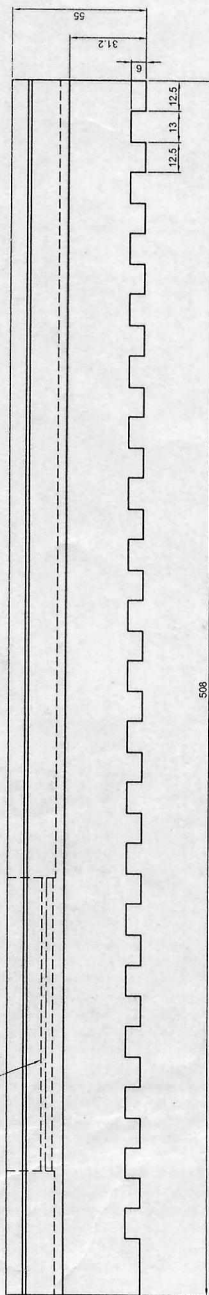
Handwritten signature

(ALL DIMENSIONS ARE IN mm)

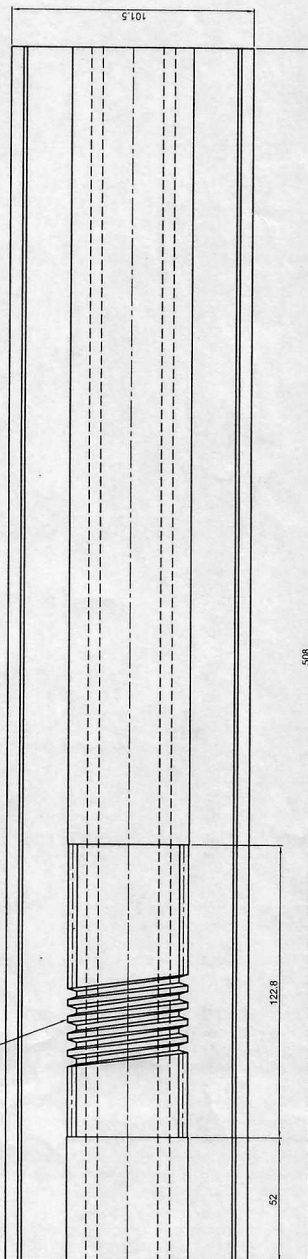


THREAD MATCH WITH ITEM-02

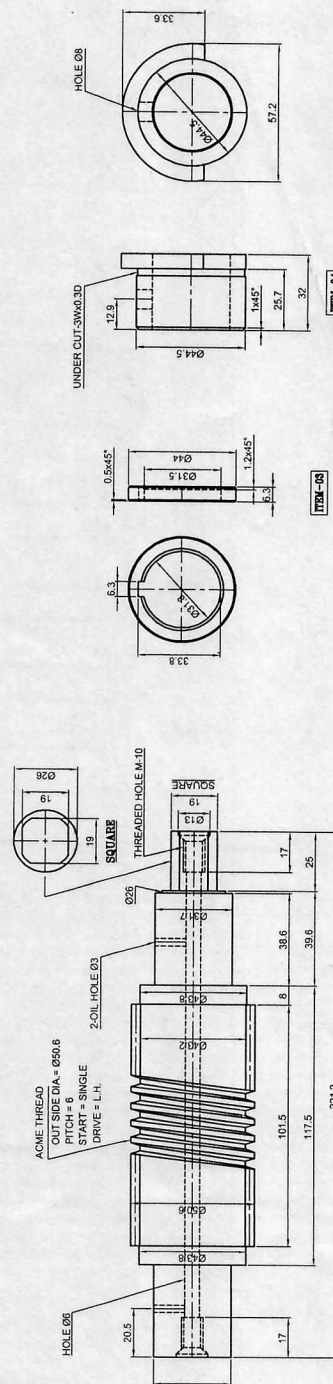
UNDER CUT-1.5 & 1.5W x 0.4D



THREAD MATCH WITH ITEM-02
(SHOWS THE DETAIL IN SIDE VIEW)



THREAD MATCH WITH ITEM-02



ACME THREAD
OUT SIDE DIA. = Ø50.6
PITCH = 6
START = SINGLE
DRIVE = L.H.

OUT SIDE DIA. = Ø30.6
PITCH = 6
START = SINGLE
DRIVE = L.H.
2-OIL HOLE Ø3

UNDER CUT-3Wx0.3D

HOLE Ø8

1- MACHINING ALL OVER

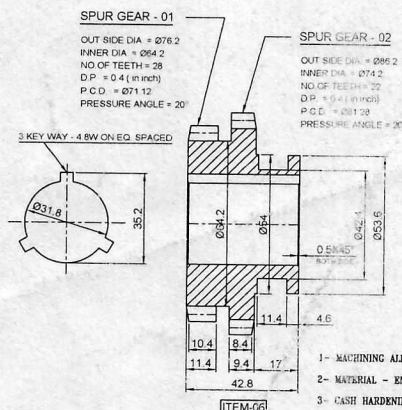
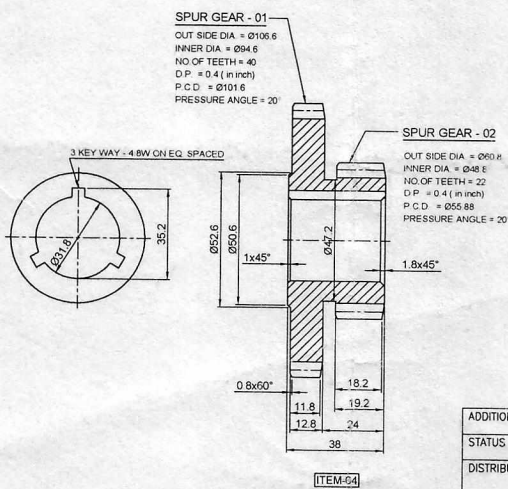
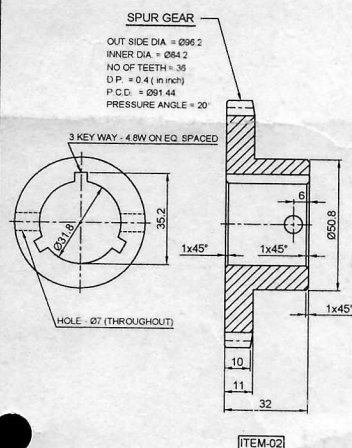
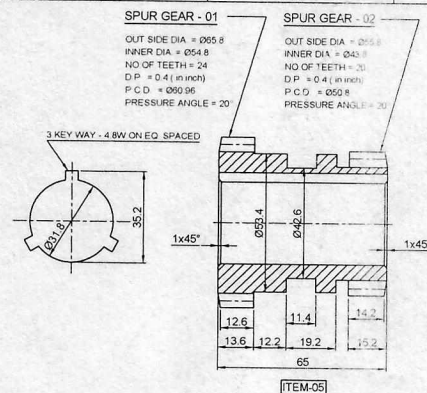
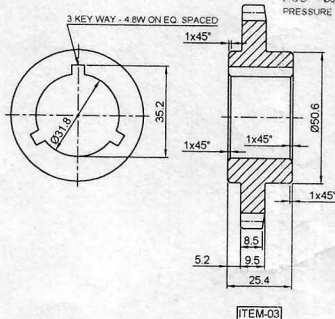
REF.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
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TITLE										DRAWING NO.		REV.
SPUR GRAB (COMBINE) SPINDLE DRIVE										ESP14013748		
CINCINNATI CNC MILLING M/C #15A/2004-1921										S&T. NO. 01 NO. OF SH.		01

SIZE A2

[Signature]