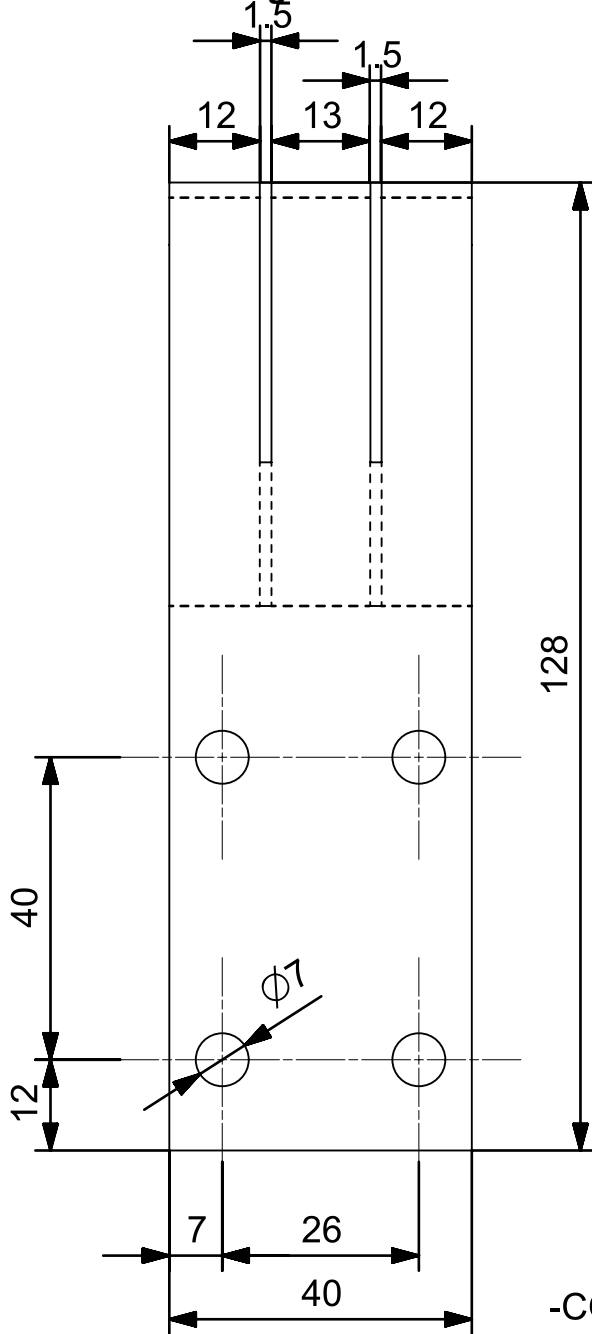









3745709/2025/O/o WM/Design/DMW/PTA

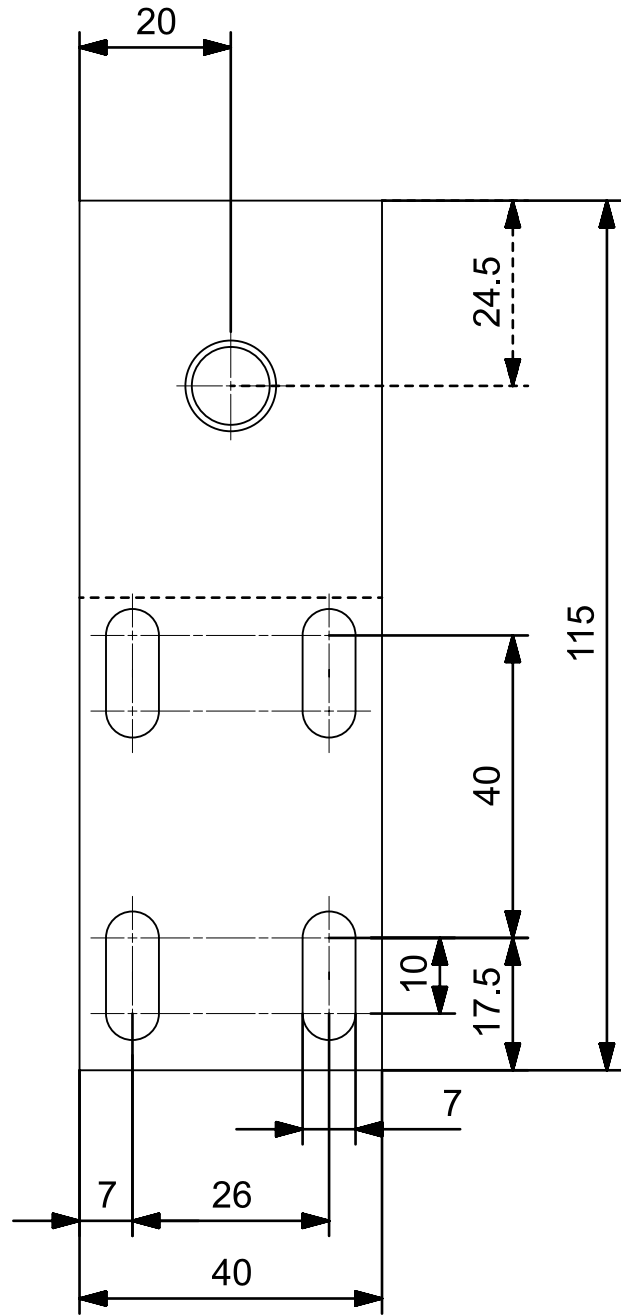
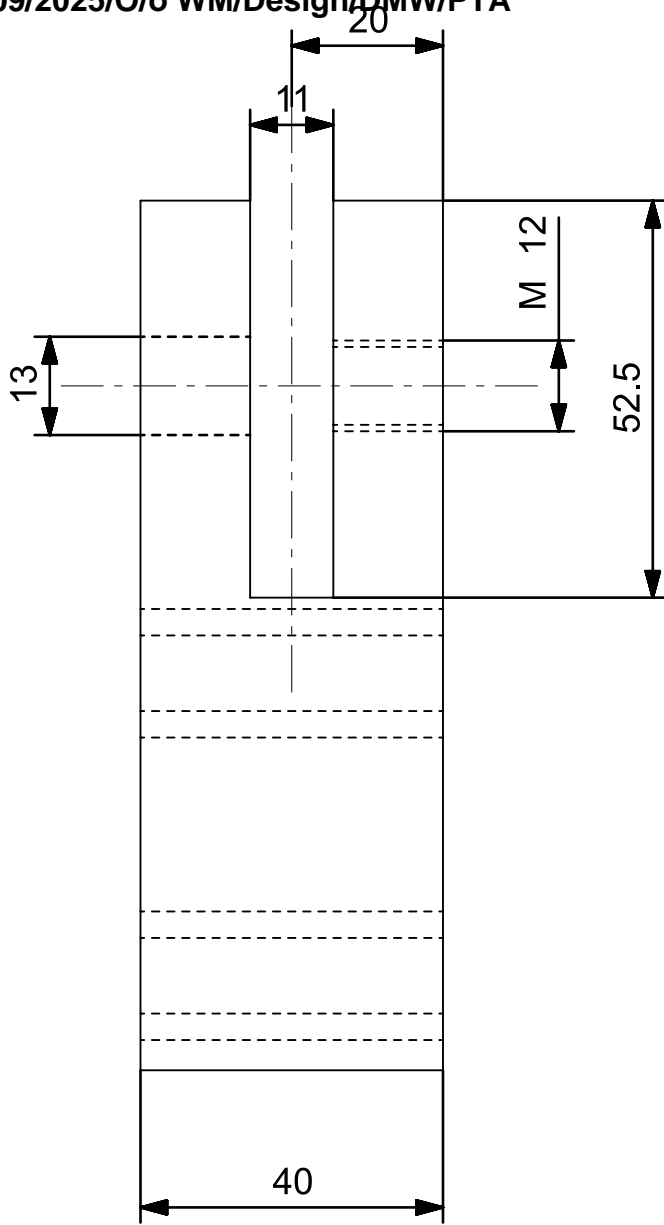


-CONTACT SPRING-








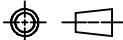
| REF. NO. | DESCRIPTION | IDENT NO. | QTY. | MATERIAL |
|----------|----------------|-----------------|--------|-------------------|
| 6 | CONTACT SPRING | 3EHP400507P0002 | 2 NOS. | STRIP 40X2 CU-ETP |
| 8 | -DO- | 3EHP431179P0001 | 4 NOS. | -DO- |
| 9 | -DO- | 3EHP431179P0002 | 2 NOS. | SPRING STEEL |

| | | | | | | | | | | | | |
|----------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------|-------------|
| परिवर्तन संख्या ALT.NO. | | प्राधिकार AUTHY | वर्णन DESCRIPTION | | दिनांकित बाह्य DATED INITIAL | अभिलेखित DGN | समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE | |  चित्तरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA | | | |
| सतह - रूखाता का मान मा. मा. 3073 / अ. मा. सं. 1302 | | अनिर्दिष्ट सद्य - सीमा मा. मा. : 2102 / अ. मा. सं. : 2768 | | TOL. C.L.S. | | अनुमोदित स.पु.वि.अ. APPROVED DYCEE | | वर्णन DESCRIPTION | | प्रति भार कि. ग्रा. WT. EACH IN KG | | |
| SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302 | | धातु-वेल्डन चिन्ह मा. मा. : 813 / अ. मा. सं. : 2553 | | WELDING SYMBOLS TO IS:813 / ISO:2553 | | दिनांक DATE | | PANTOGRAPH DISCONNECTING + EARTHING DEVICE | | | | |
| पदांक GRADE NO. | सं1 N1 | सं2 N2 | सं3 N3 | सं4 N4 | सं5 N5 | सं6 N6 | सं7 N7 | सं8 N8 | सं9 N9 | सं10 N10 | सं11 N11 | सं12 N12 |
| Rz | 0.16-0.3 | 0.5-0.7 | 0.9-1.1 | 1.5-2.0 | 2.5-3.8 | 5.0-6.3 | 9.0-12 | 16-25 | 30-40 | 50-63 | 75-100 | 160-250 |
| Ra μm | 0.025 | 0.05 | 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 6.3 | 12.5 | 25 | 50 |
| चिन्ह SYMBOL |  | |  | |  | |  | |  | |  | |
| रैखिक अनुपात SCALE | | | | | | N.T.S | | आरेखण संख्या DRAWING NO. | | परिवर्तन संख्या ALTERATION. NO. | | |
| संदर्भ / REF. | | | | | | ALT.- | | परिचय 1 OF 1 | | A4 | | |

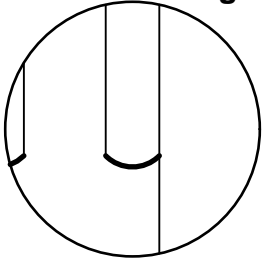
3745709/2025/O/o WM/Design/DMW/PTA



PIVOT SUPPORT MATERIAL SST-304

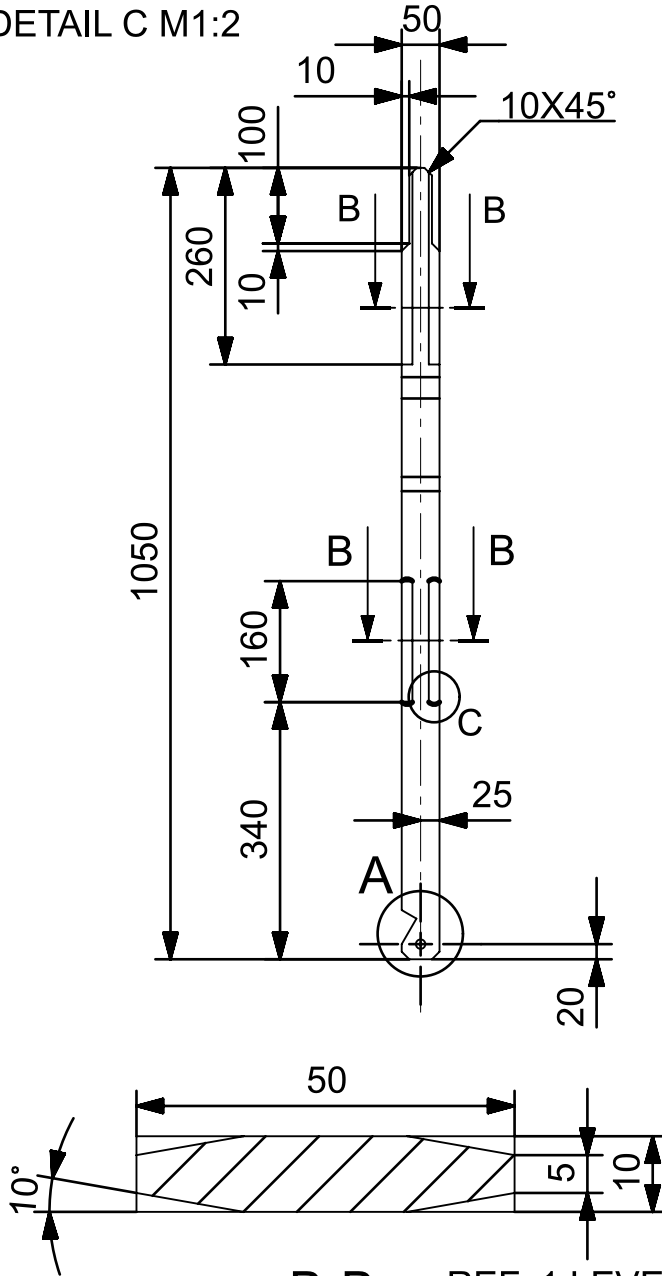
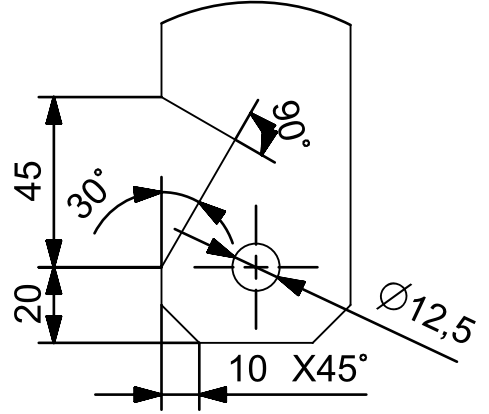
| | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------|--------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------|--------|----|
| | | | | | | | | | | | | अभिकल्पित DGN | |  <div>चित्तरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA</div> | | | | |
| | | | | | | | | | | | | जॉचा व.अ.अ. CHD SSE | | | | | | |
| परिवर्तन संख्या ALT.NO. | प्राधिकार AUTHY | | वर्णन DESCRIPTION | | | | | | | दिनांकित बाह्य DATED INITIAL | | समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE | | पदार्थ MATL | प्रति भार कि. ग्रा. WT. EACH IN KG | | | |
| सतह — रूखाता का मान मा. मा. 3073 / अ. मा. सं. 1302 SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302 | | | अनिर्दिष्ट सद्य — सीमा मा. मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768 धातु-वेल्डन चिन्ह मा. मा. : 813 / अ. मा. सं. : 2553 WELDING SYMBOLS TO IS:813 / ISO:2553 | | | | | | | TOL. CLS. | | अनुमोदित स.यु.वि.अ. APPROVED DYCEE | | विशिष्ट SPECN | | | | |
| पदांक GRADE NO. | | | सं1 N1 | सं2 N2 | सं3 N3 | सं4 N4 | सं5 N5 | सं6 N6 | सं7 N7 | सं8 N8 | सं9 N9 | सं10 N10 | सं11 N11 | सं12 N12 | वर्णन DESCRIPTION | | | |
| Rz | | | 0.16-0.3 | 0.5-0.7 | 0.9-1.1 | 1.5-2.0 | 2.5-3.8 | 5.0-6.3 | 9.0-12 | 16-25 | 30-40 | 50-63 | 75-100 | 160-250 | + EARTHING DEVICE | | | |
| Ra μm | | | 0.025 | 0.05 | 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 6.3 | 12.5 | 25 | 50 | आरेखण संख्या DRAWING NO. | | | |
| चिन्ह SYMBOL | | |  | |  | |  | |  | |  | |  | | परिवर्तन संख्या ALTERATION. NO. | | | |
| संदर्भ / REF. | | | | | | | | | | | | ALT. - | |  | | पर्ण SHEET | 1 OF 1 | A4 |

3745709/2025/O/o WM/Design/DMW/PTA



DETAIL C M1:2

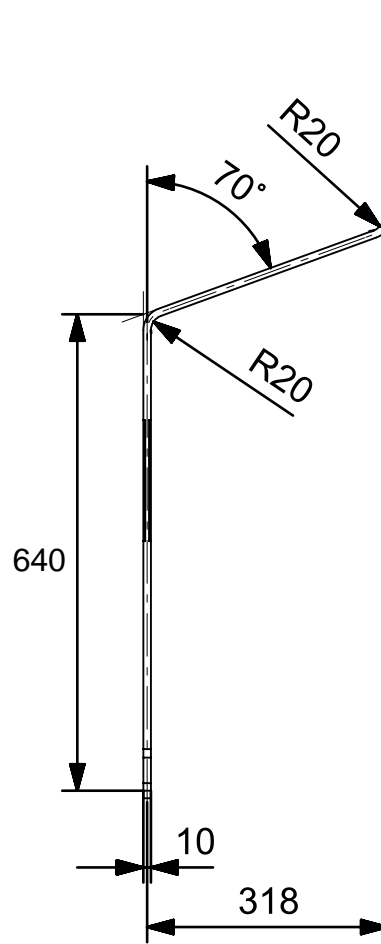
DETAIL A M1:2



SECTION B-B

REF.-1 LEVER

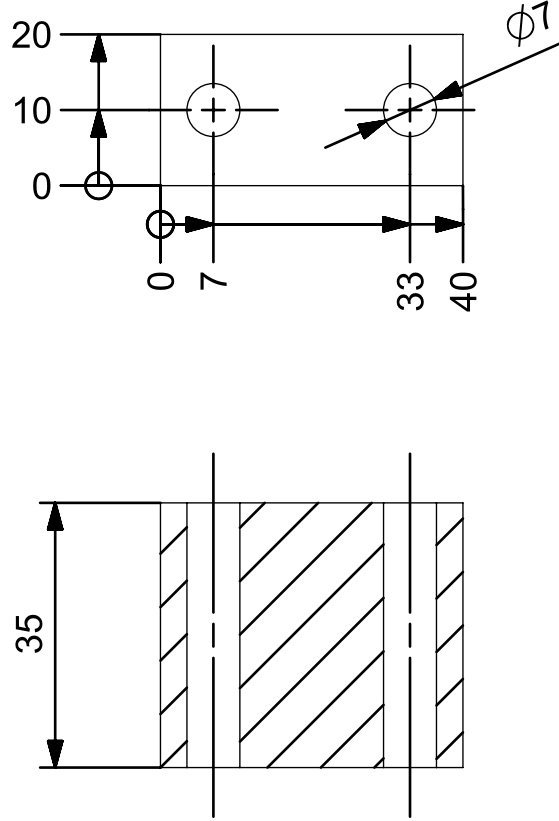
M1:1



MATERIAL:-
BAR 50X10CU ETP








| | | | | | | | | | | | | | | | | | |
|----------------------------------------------------|--|-----------------------------------------------------------|---------|----------------------|---------|--------------------------------------|---------|---------------------------------------|-------|--------------------------------------------------|-------|--------|---------|-----------------------------------------------------|--|---------------------------------------|--|
| | | | | | | | | | | CHD 33E | | | | पदार्थ: MATL | | प्रति भार कि. ग्रा. WT. EACH IN KG | |
| परिवर्तन संख्या ALT.NO. | | प्राधिकार AUTHY | | वर्णन DESCRIPTION | | | | दिनांकित बाह्य DATED INITIAL | | समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE | | | | | | विशिष्ट SPECN | |
| सतह - रूखाता का मान मा. मा. 3073 / अ. मा. सं. 1302 | | अनिर्दिष्ट सद्य - सीमा मा. मा. : 2102 / अ. मा. सं. : 2768 | | | | TOL. CLS. | | अनुमोदित उ.मु.वि.अ. APPROVED DYCEE | | | | | | वर्णन PANTOGRAPH DISCONNECTING + EARTHING DEVICE | | | |
| SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302 | | धातु-वेल्डन चिन्ह मा. मा. : 813 / अ. मा. सं. : 2553 | | | | WELDING SYMBOLS TO IS:813 / ISO:2553 | | दिनांक DATE | | | | | | DESCRIPTION | | | |
| पदार्थ | | सं1 | सं2 | सं3 | सं4 | सं5 | सं6 | सं7 | सं8 | सं9 | सं10 | सं11 | सं12 | रेखिक अनुपात SCALE | | आरेखण संख्या DRAWING NO. | |
| GRADE NO. | | N1 | N2 | N3 | N4 | N5 | N6 | N7 | N8 | N9 | N10 | N11 | N12 | N.T.S | | CLW/ES/3/SK-6/0008 ALT.-B | |
| Rz | | 0.16-0.3 | 0.5-0.7 | 0.9-1.1 | 1.5-2.0 | 2.5-3.8 | 5.0-6.3 | 9.0-12 | 16-25 | 30-40 | 50-63 | 75-100 | 160-250 | | | | |
| Ra μm | | 0.025 | 0.05 | 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 6.3 | 12.5 | 25 | 50 | | | | |
| चिन्ह SYMBOL | | | | | | | | | | | | | | संदर्भ / REF. ALT. - | | | |
| | | | | | | | | | | | | | | | | परिवर्तन संख्या ALTERATION. NO. | |
| | | | | | | | | | | | | | | | | पृष्ठ SHEET 1 OF 1 | |
| | | | | | | | | | | | | | | | | A4 | |

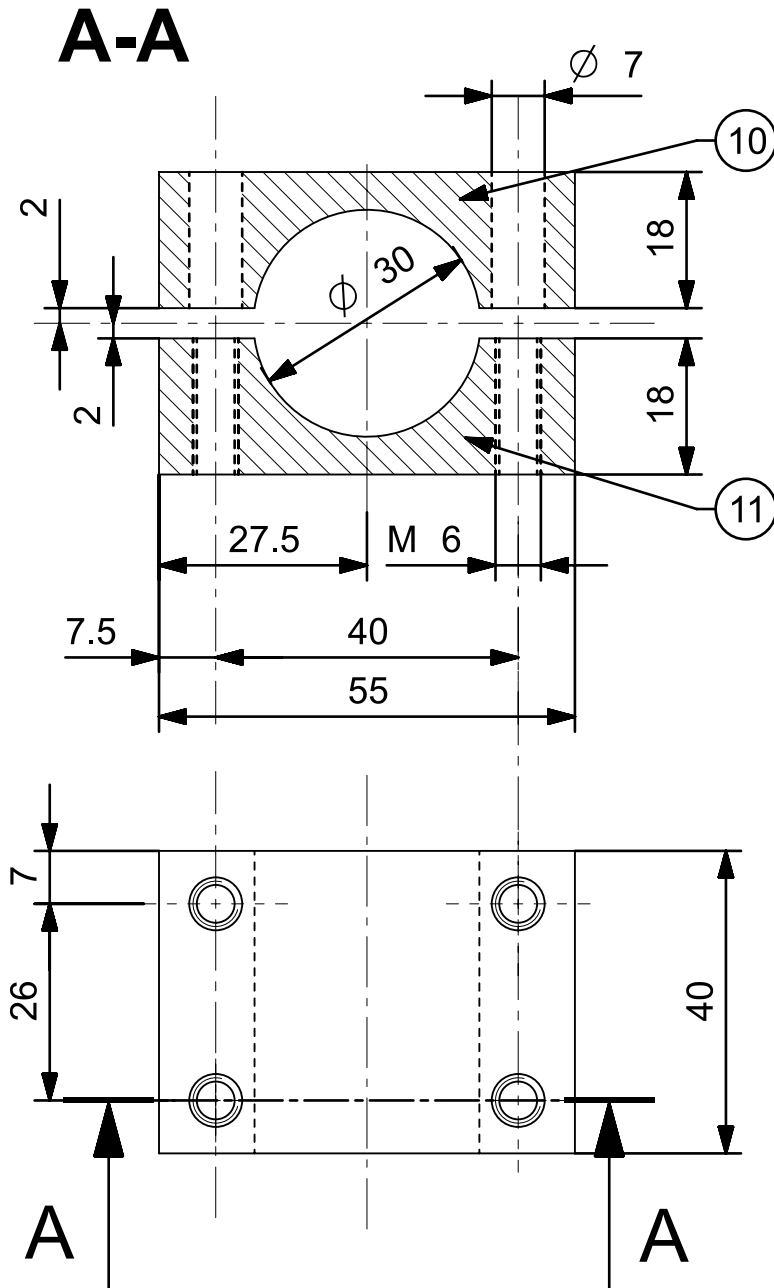
3745709/2025/O/o WM/Design/DMW/PTA



SPACER

MATERIAL-SST GR. 304








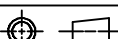
| | | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------|---------------------------------------|-------------------------|
| अभिकल्पित DGN | | | | | | | | | | | |  चिततरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA | | | | |
| जॉचा व.अ.अ. CHD SSE | | | | | | | | | | | | | | | | |
| परिवर्तन संख्या ALT.NO. | प्राधिकार AUTHY | वर्णन DESCRIPTION | | | | | | | | | | दिनांकित बाधक DATED INITIAL | समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE | पदार्थ MATL | प्रति भार कि. ग्रा. WT. EACH IN KG | |
| सतह - रूखाता का मान मा. 3073 / अ. मा. सं. 1302 SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302 | | अनिर्दिष्ट सद्य - सीमा मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768 | | | | | | | | | | TOL. CLS. | अनुमोदित स.यु.वि.अ. APPROVED DYCEE | वर्णन DESCRIPTION | | |
| | | धातु-वेल्डन चिन्ह मा. : 813 / अ. मा. सं. : 2553 WELDING SYMBOLS TO IS:813 / ISO:2553 | | | | | | | | | | | दिनांक DATE | वर्णन DESCRIPTION | | |
| पदांक GRADE NO. | सं1 N1 | सं2 N2 | सं3 N3 | सं4 N4 | सं5 N5 | सं6 N6 | सं7 N7 | सं8 N8 | सं9 N9 | सं10 N10 | सं11 N11 | सं12 N12 | रैखिक अनुपात SCALE | N.T.S | आरेखण संख्या DRAWING NO. | |
| Rz | 0.16-0.3 | 0.5-0.7 | 0.9-1.1 | 1.5-2.0 | 2.5-3.8 | 5.0-6.3 | 9.0-12 | 16-25 | 30-40 | 50-63 | 75-100 | 160-250 | | | परिवर्तन संख्या ALTERATION. NO. | |
| Ra μ m | 0.025 | 0.05 | 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 6.3 | 12.5 | 25 | 50 | | | परिपत्र संख्या SHEET | |
| चिन्ह SYMBOL |  | |  | |  | |  | |  | |  | | संदर्भ / REF. ALT.- | | परिपत्र संख्या SHEET | |
| | | | | | | | | | | | | | | परिपत्र संख्या SHEET | परिपत्र संख्या SHEET | परिपत्र संख्या SHEET |



REF:-10-TUBE CLIP INNER PART-3EHP431037 P0003

REF:-11-TUBE CLIP OUTER PART-3EHP431037 P0004

MATERIAL-SST-304

| | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------|------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|
| MATERIAL-SST-304 | | | | | | | | | | | | | अधिकल्पित DGN | |  <div>चितरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA</div> | | |
| | | | | | | | | | | | | | जॉचा व.अ.अ. CHD SSE | | | | |
| परिवर्तन संख्या ALT.NO. | | प्राधिकार AUTHY | | वर्णन DESCRIPTION | | | | दिनांकित आरम्भ INITIAL | | समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE | | पदार्थ MATL | | प्रति भार कि. ग्रा. WT. EACH IN KG | | | |
| सतह - रूखा का मान मा. मा. 3073 / अ. मा. सं. 1302 SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302 | | अनिर्दिष्ट सघ - सीमा मा. मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768 | | | | TOL. CLS. | | अनुमोदित उ.यु.वि.अ. APPROVED DYCEE | | विशिष्ट SPECN | | PANTOGRAPH DISCONNECTING + EARTHING DEVICE | | | | | |
| | | धातु-वेल्डन चिन्ह मा. मा. : 813 / अ. मा. सं. : 2563 WELDING SYMBOLS TO IS:813 / ISO:2553 | | | | | | दिनांक DATE | | | | | | | | | |
| पदांक GRADE NO. | सं1 N1 | सं2 N2 | सं3 N3 | सं4 N4 | सं5 N5 | सं6 N6 | सं7 N7 | सं8 N8 | सं9 N9 | सं10 N10 | सं11 N11 | सं12 N12 | रेखिक अनुपात SCALE | | N.T.S | | |
| Rz | 0.16-0.3 | 0.5-0.7 | 0.9-1.1 | 1.5-2.0 | 2.5-3.8 | 5.0-6.3 | 9.0-12 | 16-25 | 30-40 | 50-63 | 75-100 | 160-250 | | | | | |
| Ra μm | 0.025 | 0.05 | 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 6.3 | 12.5 | 25 | 50 | | | | | |
| चिन्ह SYMBOL |  | |  | |  | |  | |  | |  | | संदर्भ / REF. ALT - | |  | | |
| परिवर्तन संख्या ALTERATION NO. | | | | | | | | | | | | पर्ण SHEET | | 1 OF 1 | | A4 | |