

# **Odborný výcvik**

## **4. ročník**

Bc. Hlinčík Miroslav

Považská Bystrica 2011

**Názov:** Odborný výcvik 4. ročník

**Autor:** Bc. Biernát Jozef, Bc. Hlinčík Miroslav,  
Bc. Hrabovský Stanislav, Bc. Kresáň Jozef

**Vydavateľ:** Stredná odborná škola strojnícka, Považská Bystrica

## OBSAH

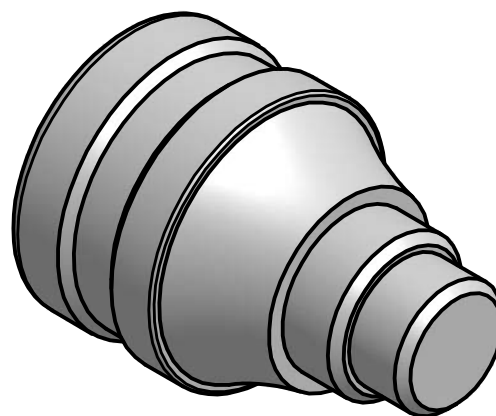
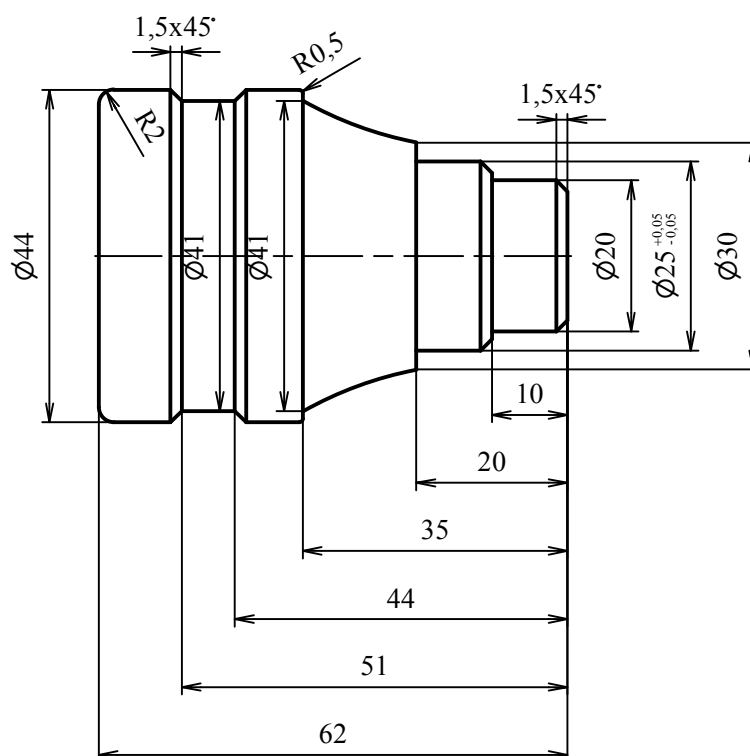
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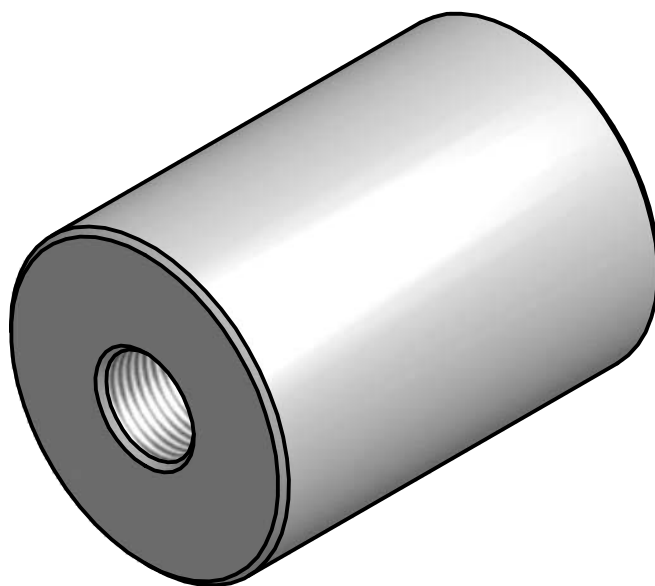
# Úvod

Technický výkres je základným dorozumievacím prostriedkom medzi konštruktérom a výrobou v strojárskom odvetví. Obsahuje všetky potrebné údaje a názorné zobrazenie potrebné k zhotoveniu daného výrobku. Od neho sa odvíja kvalita a presnosť hotového výrobku. Preto je potrebné, aby súčiastky na technickom výkrese boli bezchybne nakreslené na požadovanom formáte (najčastejšie na formátoch A3,A4). Dobre nakreslená súčiastka na technickom výkrese značne uľahčuje programátorovi výrobu danej súčiastky. Veľmi dôležité je, aby mal technický výkres správne vyplnenú rohovú pečiatku. Výkres musí byť nakreslený tak, aby pracovník nemusel používať výpočty pri určovaní rozmerov. Nesprávne nakresleným výkresom môžu nastať vo výrobe značné škody. Preto je vhodné zložitejšie výkresy prekontrolovať zodpovedným pracovníkom. Dnes sa zväčša výkresy kreslia v konštrukčných kanceláriách na počítačoch za pomoci špeciálnych programov (Autocad Inventor). Pre dobrú názornosť hlavne u žiakov je vhodné používať inventor.

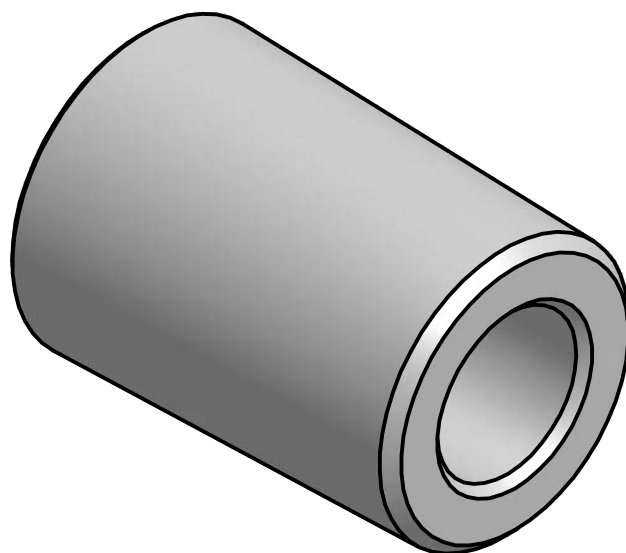
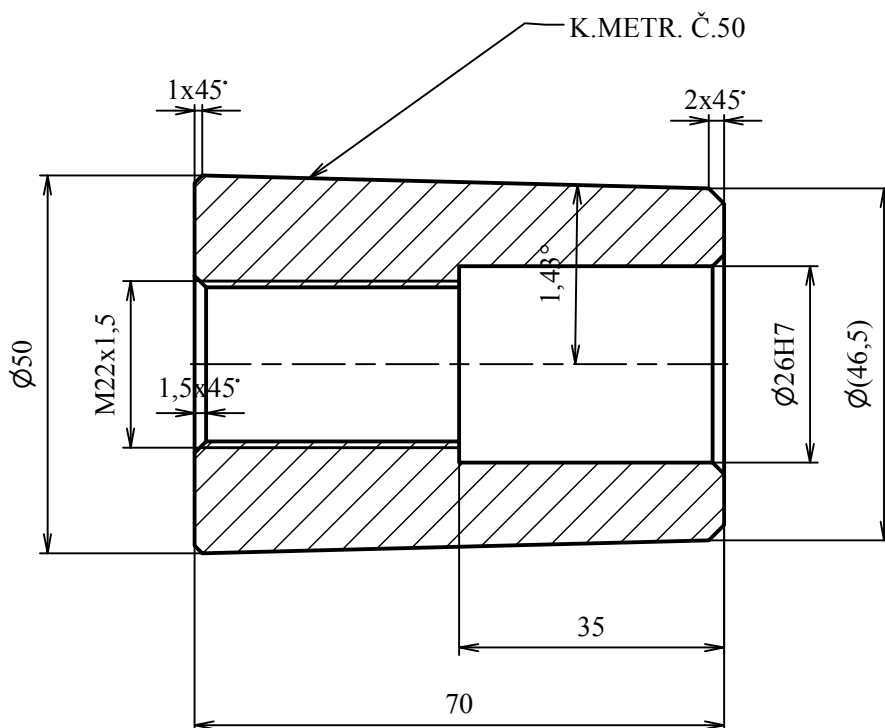
√ Ra 3,2



|                         |       |            |          |                   |        |
|-------------------------|-------|------------|----------|-------------------|--------|
| INDEX                   | ZMENA | DATUM      | PODPIS   | SOŠ - Strojnícka  |        |
|                         |       |            |          | POVAŽSKÁ BYSTRICA |        |
| ZNACKA MATERIALU Ø45x67 |       |            | T.O.     | HMOTNOST kg       | MIERKA |
| ZNACKA MATERIALU 11370  |       |            |          | hr.hmotnosť       | 1:1    |
| POM.ZARIADENIE          |       |            |          | STN STN polotovar | TR.C.  |
| VYPRACOVAL : BC.HLINČIK |       | NORM. REF. | POZNAMKA |                   |        |
| PRESKUSAL :             |       | dátum      |          |                   |        |
| TECHNOLOG :             |       | SCHVALIL:  | STARY V. | C. v. MN 4 S 001  |        |
| NAZOV                   |       |            |          |                   |        |
| ČAP NA POISTNÚ SKRUTKU  |       |            |          | LISTOV            | LIST   |

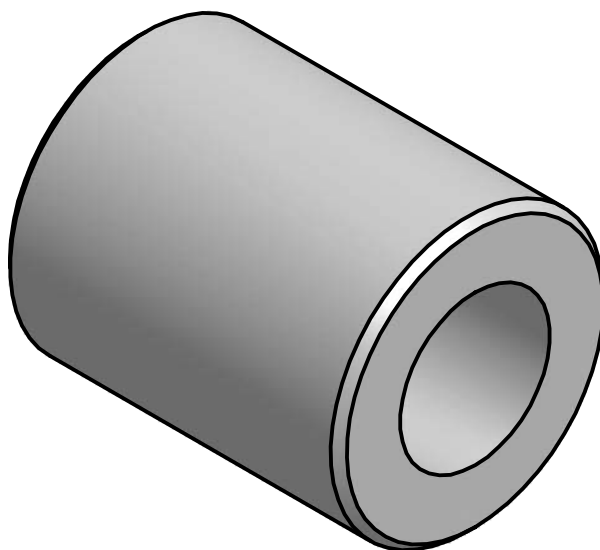
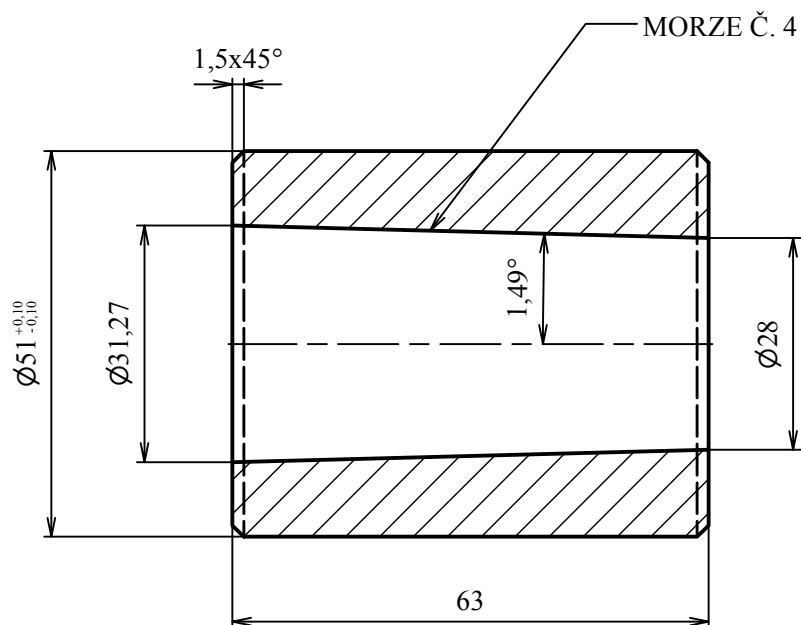


|                         |       |            |        |                                       |                  |
|-------------------------|-------|------------|--------|---------------------------------------|------------------|
| INDEX                   | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
| ZNACKA MATERIÁLU Ø55x76 |       |            | T.O.   | HMOTNOST kg                           | MIERKA           |
| ZNACKA MATERIÁLU 11600  |       |            |        | hr.hmotnosť                           | 1:1              |
| POM.ZARIADENIE          |       |            |        | STN STN polotovár                     | TR.C.            |
| VYPRACOVAL : BC.HLINČIK |       | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :             |       | dátum      |        |                                       |                  |
| TECHNOLOG :             |       | SCHVALIL:  |        | STARY V.                              | C. V. MN 4 S 002 |
| NAZOV                   |       |            |        |                                       |                  |
| DORAZ -1                |       |            |        | LISTOV                                | LIST             |

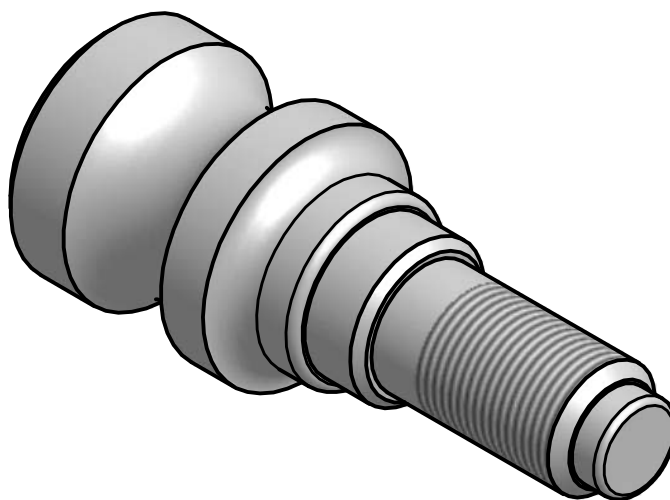


| INDEX                   | ZMENA   | DATUM      | PODPIS | SOŠ-Strojnícka    |                  |
|-------------------------|---------|------------|--------|-------------------|------------------|
|                         |         |            |        | POVAZSKA BYSTRICA |                  |
| ZNACKA MATERIALU        | Ø55x76  |            | T.O.   | HMOTNOST kg       | MIERKA           |
| ZNACKA MATERIALU        | 11600   |            |        | hr.hmotnosť       | 1:1              |
| POM.ZARIADENIE          |         |            |        | STN STN polotovar | TR.C.            |
| VYPRACOVAL : BC.HLINČIK |         | NORM. REF. |        | POZNAMKA          | C.KUSOVNIKU      |
| PRESKUSAL :             |         | dátum      |        |                   |                  |
| TECHNOLOG :             |         | SCHVALIL:  |        | STARY V.          | C. V. MN 4 S 003 |
| NAZOV                   | DORAZ 2 |            |        | LISTOV            | LIST             |

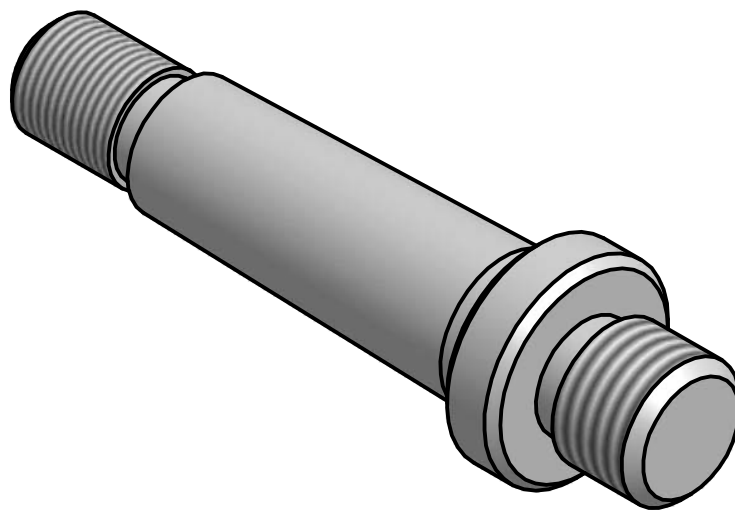
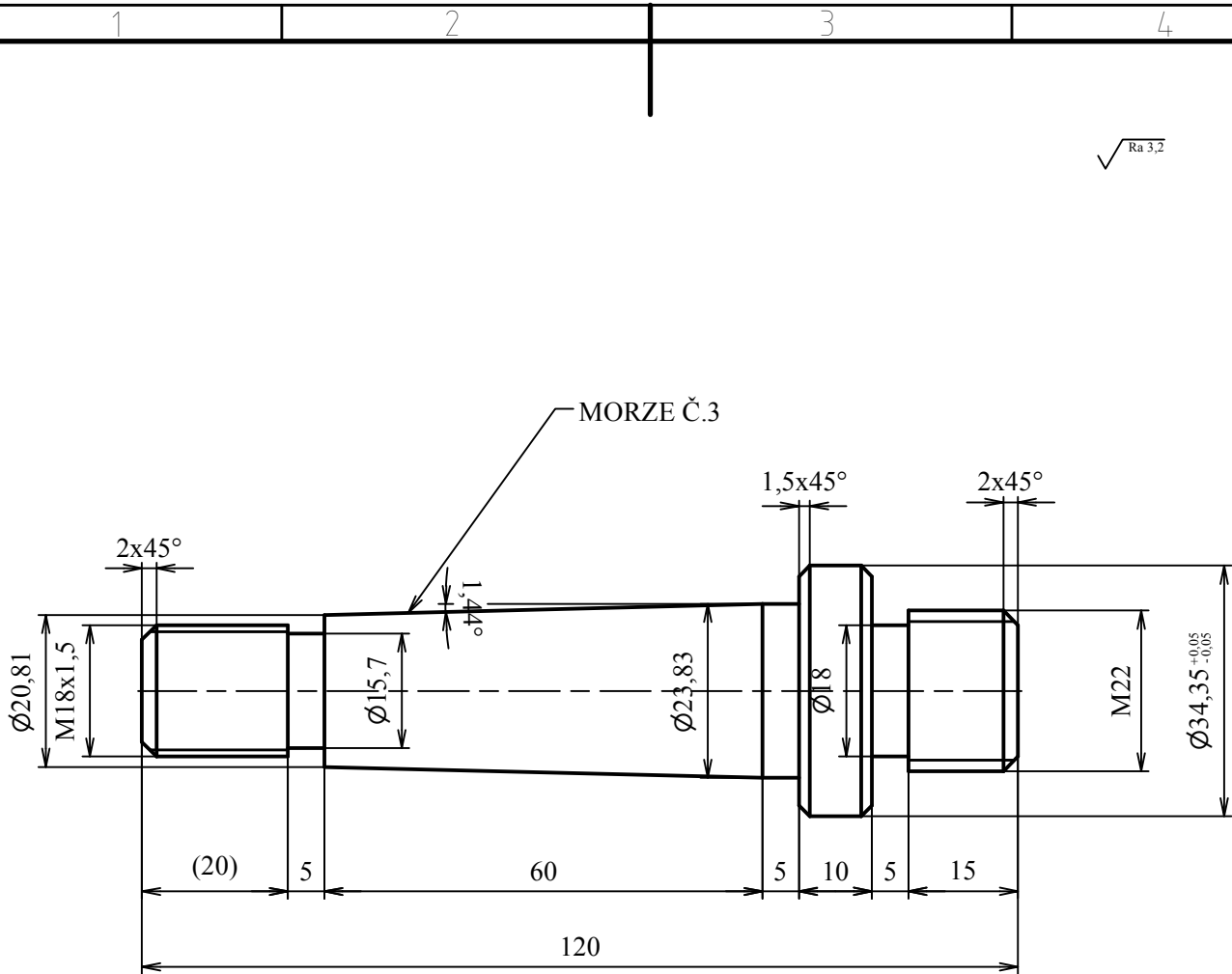
√ Ra 3,2



|                         |       |            |        |                   |                  |
|-------------------------|-------|------------|--------|-------------------|------------------|
| INDEX                   | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka  |                  |
|                         |       |            |        | POVAŽSKÁ BYSTRICA |                  |
| ZNACKA MATERIALU Ø52x68 |       |            | T.O.   | HMOTNOST kg       | MIERKA           |
| ZNACKA MATERIALU 11070  |       |            |        | hr.hmotnosť       | 1:1              |
| POM.ZARIADENIE          |       |            |        | STN STN polotovar | TR.C.            |
| VYPRACOVAL : BC.HLINČIK |       | NORM. REF. |        | POZNAMKA          | C.KUSOVNIKU      |
| PRESKUSAL :             |       | dátum      |        |                   |                  |
| TECHNOLOG :             |       | SCHVALIL:  |        | STARY V.          | C. v. MN 4 S 004 |
| NAZOV                   |       |            |        |                   |                  |
| RED. VLOŽKA 3           |       |            |        | LISTOV            | LIST             |



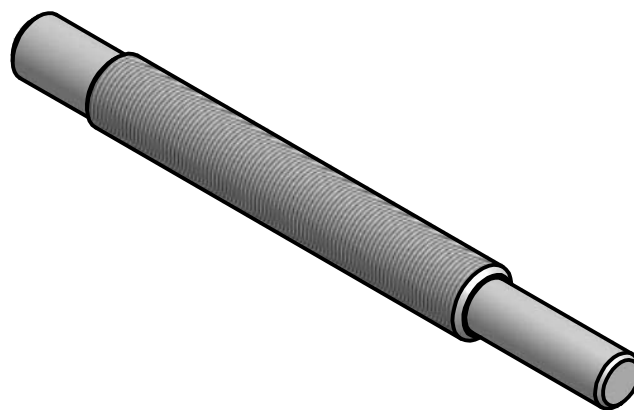
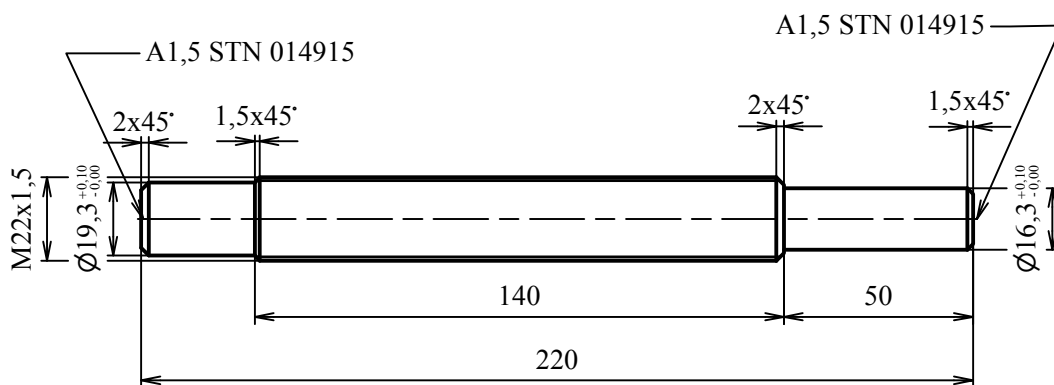
|                          |       |            |        |                                       |                  |
|--------------------------|-------|------------|--------|---------------------------------------|------------------|
| INDEX                    | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
| ZNACKA MATERIALU Ø40x105 |       | T.O.       |        | HMOTNOST kg                           | MIERKA           |
| ZNACKA MATERIALU 11370   |       |            |        | hr.hmotnosť                           | 1:1              |
| POM.ZARIADENIE           |       |            |        | STN STN polotovár                     | TR.C.            |
| VYPRACOVAL : BC.HLINČIK  |       | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :              |       | dátum      |        |                                       |                  |
| TECHNOLOG :              |       | SCHVALIL:  |        | STARY V.                              | C. V. MN 4 S 005 |
| NAZOV<br>ČAP 1           |       |            |        | LISTOV                                | LIST             |



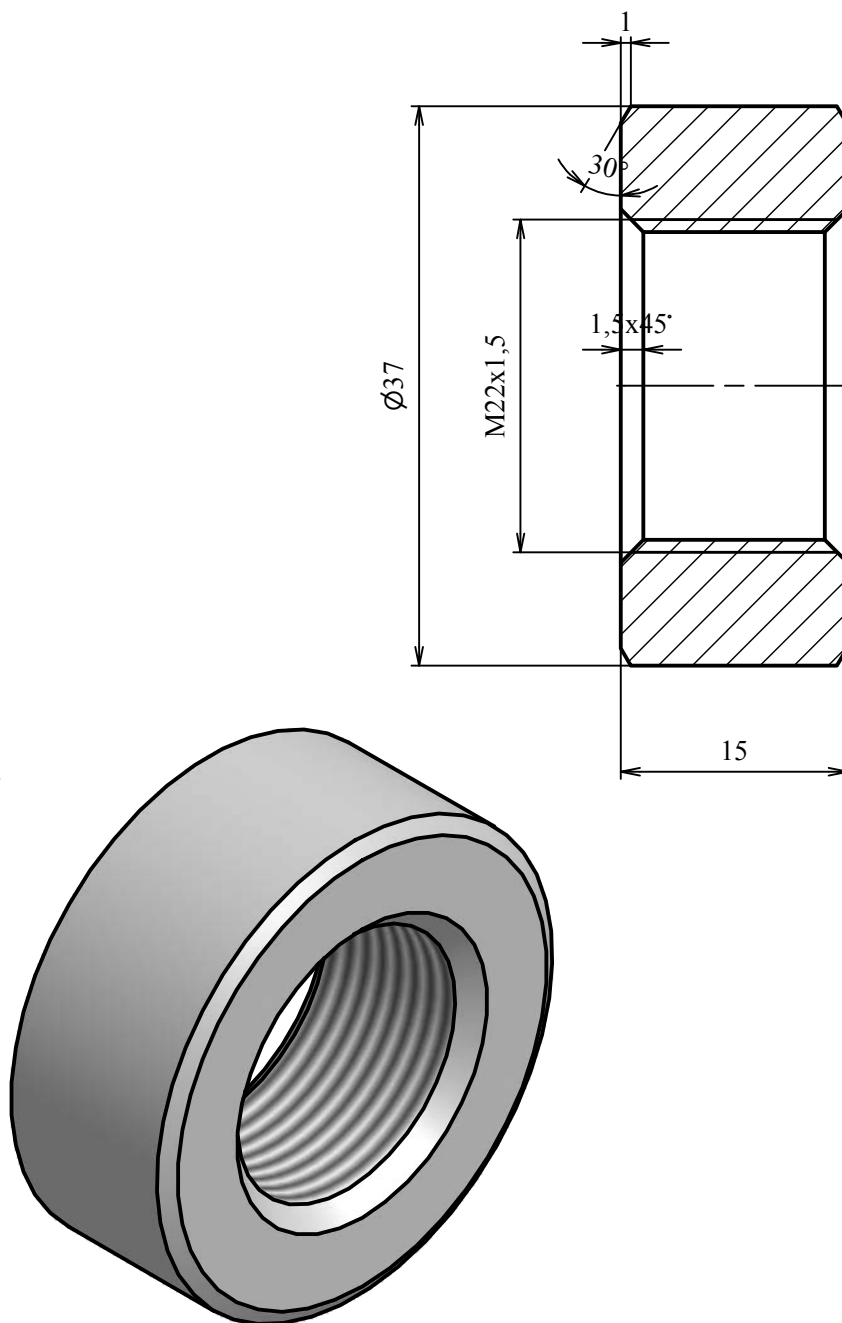
| INDEX                    | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka  |                  |
|--------------------------|-------|------------|--------|-------------------|------------------|
|                          |       |            |        | POVAŽSKÁ BYSTRICA |                  |
| ZNACKA MATERIALU Ø35x125 |       | T.O.       |        | HMOTNOST kg       | MIERKA           |
| ZNACKA MATERIALU 11600   |       |            |        | hr.hmotnosť       | 1:1              |
| POM.ZARIADENIE           |       |            |        | STN STN polotovar | TR.C.            |
| VYPRACOVAL : BC.HLINČIK  |       | NORM. REF. |        | POZNAMKA          | C.KUSOVNIKU      |
| PRESKUSAL :              |       | dátum      |        |                   |                  |
| TECHNOLOG :              |       | SCHVALIL:  |        | STARY V.          | C. v. MN 4 S 006 |
| NAZOV                    |       |            |        |                   |                  |
| OSKA                     |       |            |        | LISTOV            | LIST             |

1 2 3 4

$\sqrt{Ra3,2}$

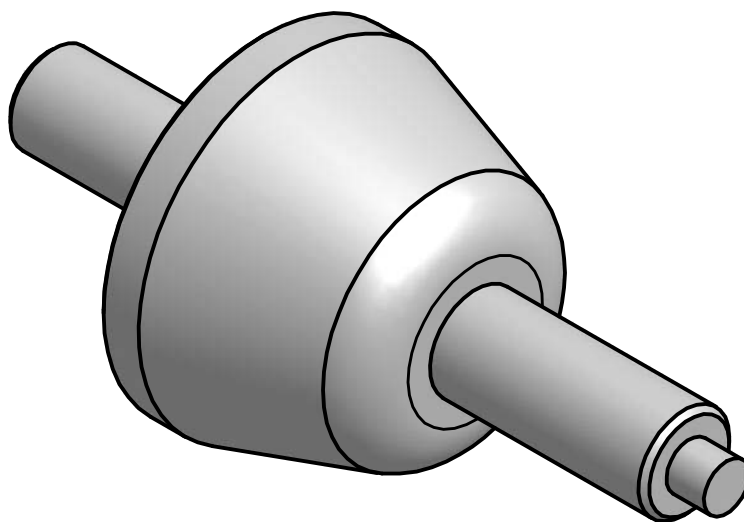
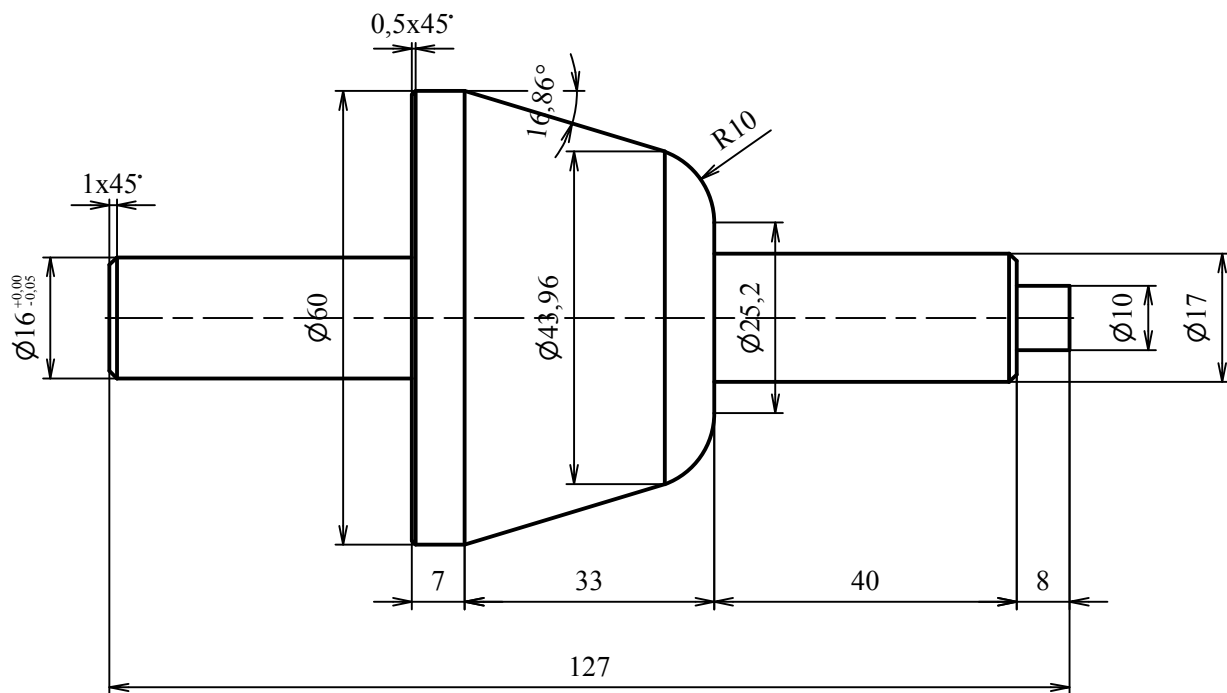


| INDEX                   | ZMENA            | DATUM | PODPIS | SOŠ-Strojnícka    |                  |
|-------------------------|------------------|-------|--------|-------------------|------------------|
|                         |                  |       |        | POVAZSKA BYSTRICA |                  |
| ZNACKA MATERIALU        | Ø25x225          | T.O.  |        | HMOTNOST kg       | MIERKA           |
| ZNACKA MATERIALU        | 11600            |       |        | hr.hmotnosť       | 1:1              |
| POM.ZARIADENIE          |                  |       |        | STN STN polotovar | TR.C.            |
| VYPRACOVAL : BC.HLINČIK | NORM. REF.       |       |        | POZNAMKA          | C.KUSOVNIKU      |
| PRESKUSAL :             | dátum            |       |        |                   |                  |
| TECHNOLOG :             | SCHVALIL:        |       |        | STARY V.          | C. v. MN 4 S 007 |
| NAZOV                   | SKRUTKA NA DORAZ |       |        | LISTOV            | LIST             |

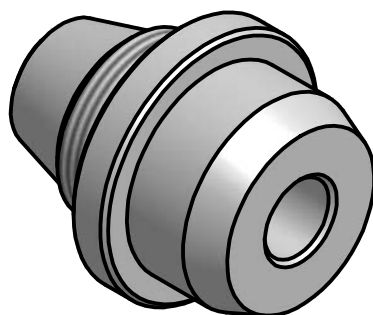
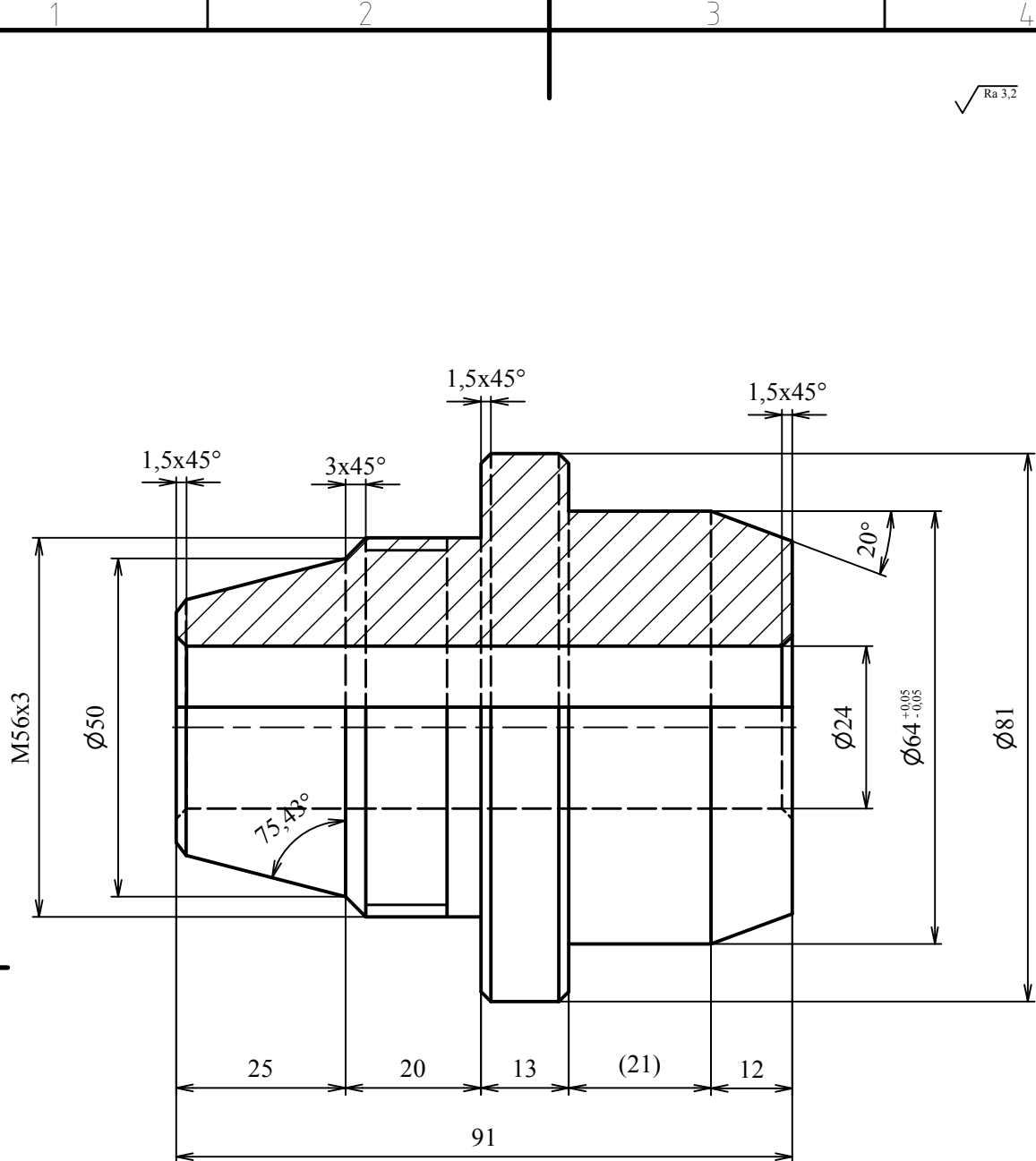


| INDEX                   | ZMENA          | DATUM      | PODPIS | SOŠ-Strojnícka    |                  |
|-------------------------|----------------|------------|--------|-------------------|------------------|
|                         |                |            |        | POVAZSKA BYSTRICA |                  |
| ZNACKA MATERIALU        | Ø40x20         |            | T.O.   | HMOTNOST kg       | MIERKA 2:1       |
| ZNACKA MATERIALU        | 11600          |            |        | hr.hmotnosť       |                  |
| POM.ZARIADENIE          |                |            |        | STN STN polotovár | TR.C.            |
| VYPRACOVAL : BC.HLINČIK |                | NORM. REF. |        | POZNAMKA          | C.KUSOVNIKU      |
| PRESKUSAL :             |                | datum      |        |                   |                  |
| TECHNOLOG :             |                | SCHVALIL:  |        | STARY V.          | C. v. MN 4 S 008 |
| NAZOV                   | DORAZ - MATICA |            |        | LISTOV            | LIST             |

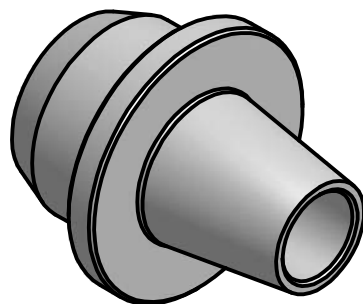
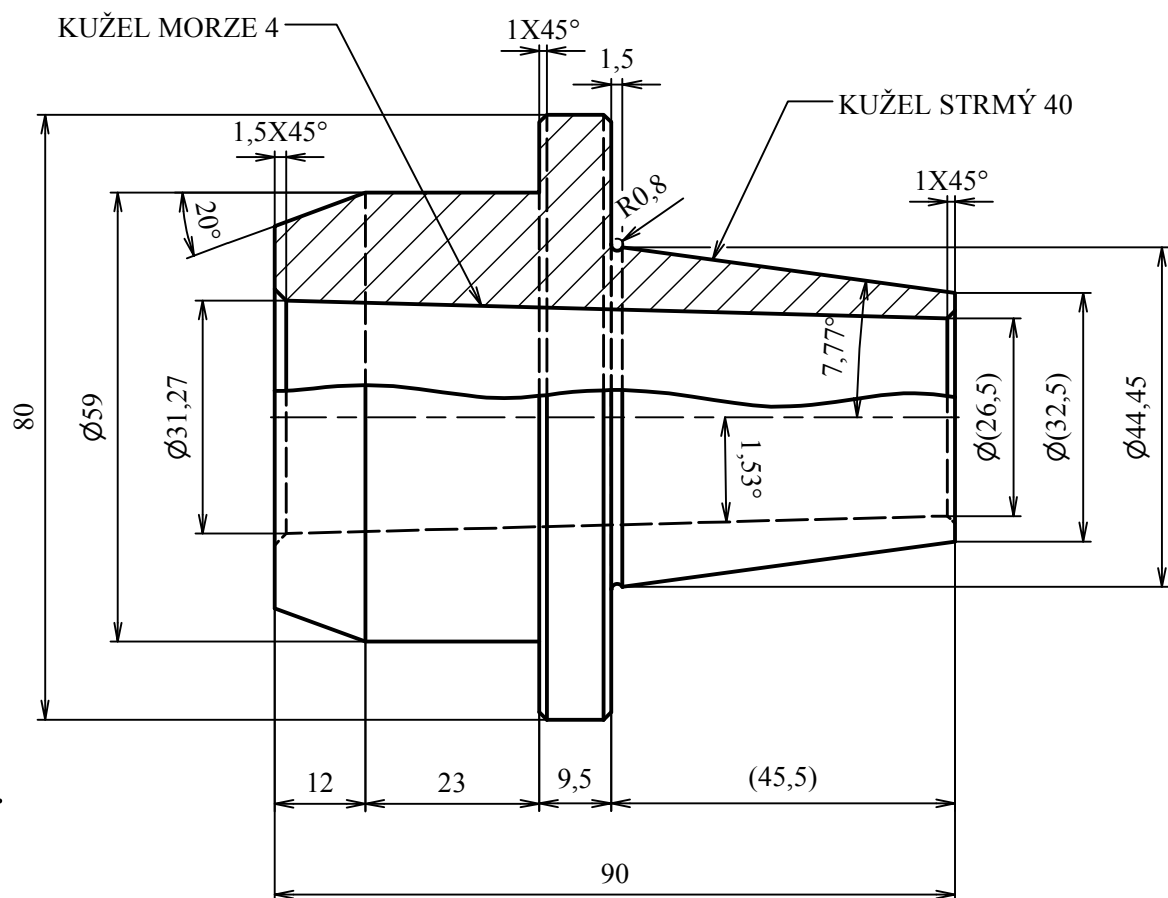




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|-----------------------------|-------|------------|--------|---------------------|--------------------|
| INDEX                       | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka    |                    |
|                             |       |            |        | POVAŽSKÁ BYSTRICA   |                    |
| ZNACKA MATERIALU    Ø62x132 |       |            | T.O.   | HMOTNOST kg         | MIERKA             |
| ZNACKA MATERIALU    11600   |       |            |        | hr.hmotnosť         | 1:1                |
| POM.ZARIADENIE              |       |            |        | STN   STN polotovar | TR.C.              |
| VYPRACOVAL : BC.HLINČIK     |       | NORM. REF. |        | POZNAMKA            | C.KUSOVNIKU        |
| PRESKUSAL :                 |       | dátum      |        |                     |                    |
| TECHNOLOG :                 |       | SCHVALIL:  |        | STARY V.            | C. V.   MN 4 S 010 |
| NAZOV                       |       |            |        |                     |                    |
| KOVADLINKA 4                |       |            |        |                     |                    |
|                             |       |            |        | LISTOV              | LIST               |

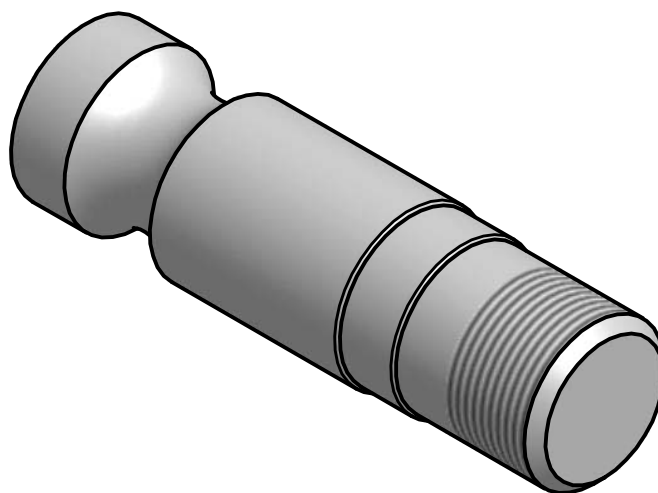
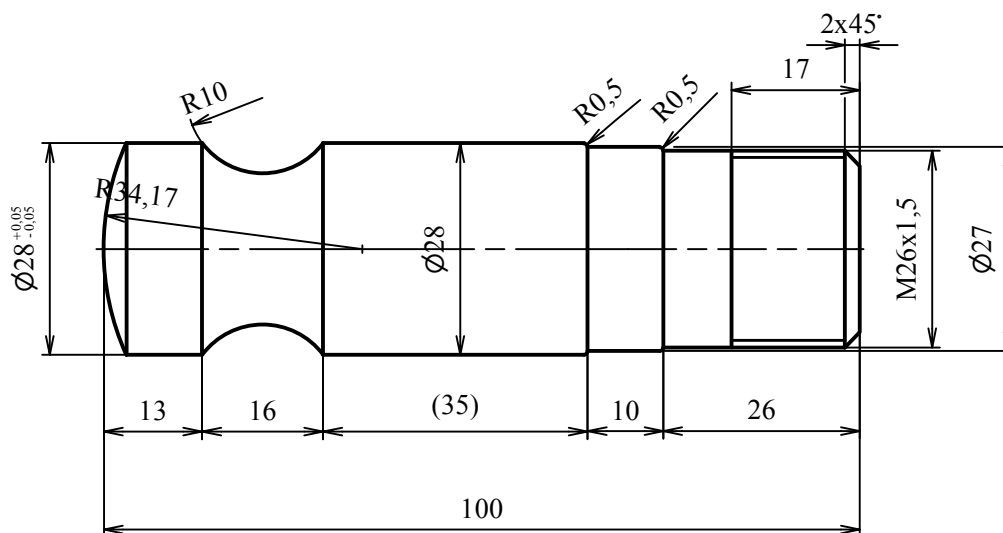


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|-------------------------|-------|------------|--------|-------------------|------------------|
| INDEX                   | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka  |                  |
|                         |       |            |        | POVAŽSKÁ BYSTRICA |                  |
| ZNACKA MATERIALU Ø82x96 |       |            | T.O.   | HMOTNOST kg       | MIERKA           |
| ZNACKA MATERIALU 11600  |       |            |        | hr.hmotnosť       | 1:1              |
| POM.ZARIADENIE          |       |            |        | STN STN polotovár | TR.C.            |
| VYPRACOVAL : BC.HLINČIK |       | NORM. REF. |        | POZNAMKA          | C.KUSOVNIKU      |
| PRESKUSAL :             |       | dátum      |        |                   |                  |
| TECHNOLOG :             |       | SCHVALIL:  |        | STARY V.          | C. v. MN 4 S 011 |
| NAZOV                   |       |            |        |                   |                  |
| RED. VLOŽKA 1           |       |            |        |                   |                  |
|                         |       |            |        | LISTOV            | LIST             |



|                            |       |            |        |                     |                    |
|----------------------------|-------|------------|--------|---------------------|--------------------|
| INDEX                      | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka    |                    |
|                            |       |            |        | POVAŽSKÁ BYSTRICA   |                    |
| ZNACKA MATERIALU    Ø82x95 |       |            | T.O.   | HMOTNOST kg         | MIERKA             |
| ZNACKA MATERIALU    12020  |       |            |        | hr.hmotnosť         | 1:1                |
| POM.ZARIADENIE             |       |            |        | STN   STN polotovár | TR.C.              |
| VYPRACOVAL :    BC.HLINČIK |       | NORM. REF. |        | POZNAMKA            | C.KUSOVNIKU        |
| PRESKUSAL :                |       | dátum      |        |                     |                    |
| TECHNOLOG :                |       | SCHVALIL:  |        | STARY V.            | C. v.   MN 4 S 012 |
| NAZOV                      |       |            |        |                     |                    |
| RED. VLOŽKA 2              |       |            |        | LISTOV              | LIST               |

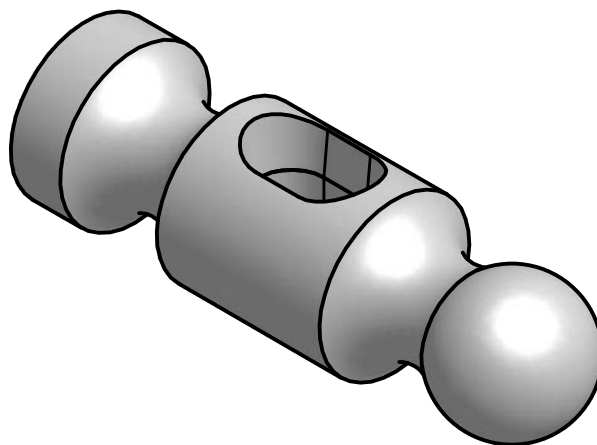
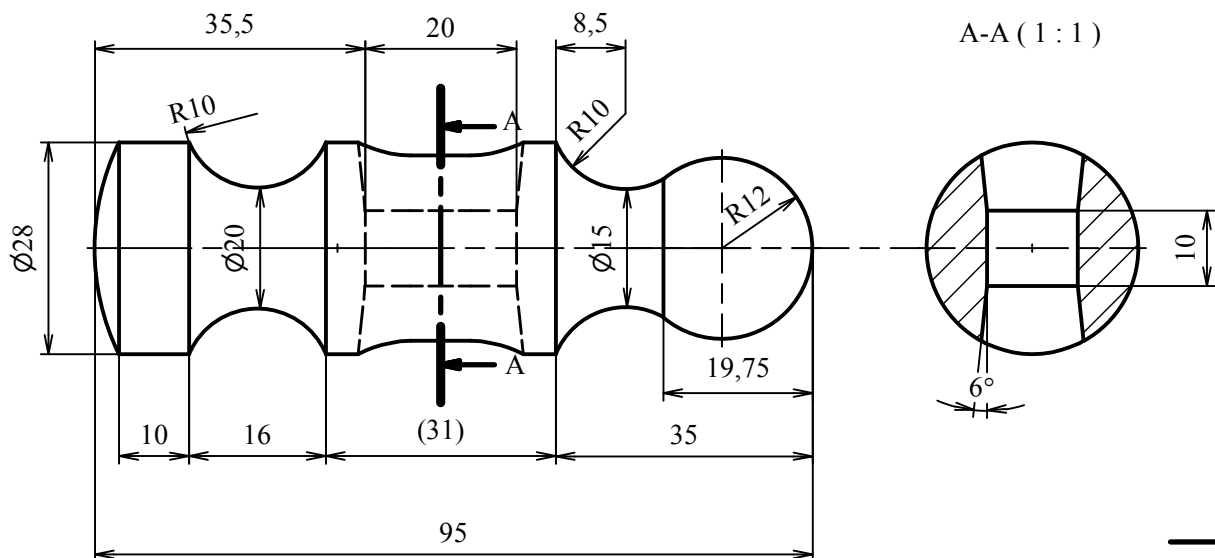
√ Ra 3,2



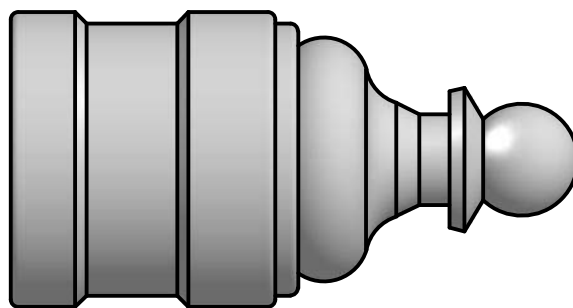
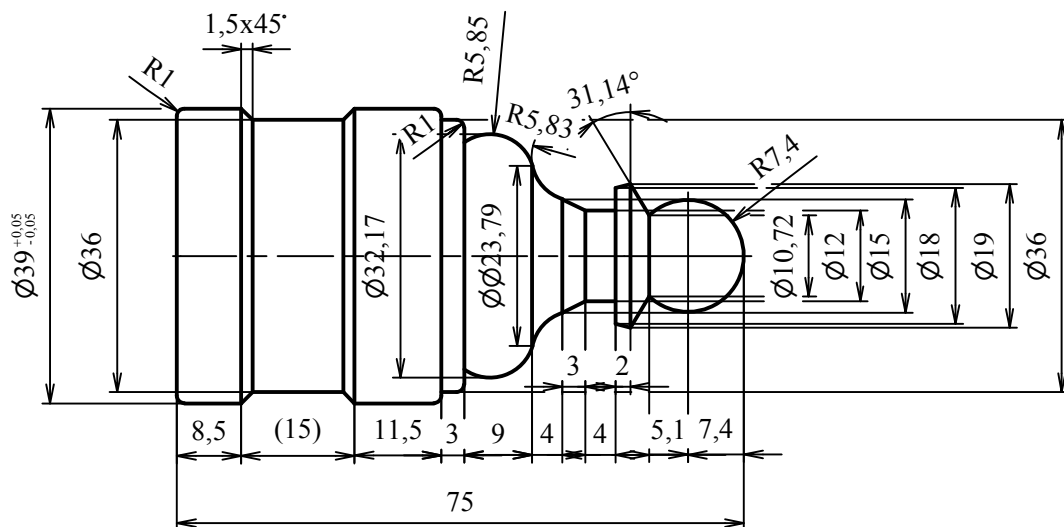
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|-----------------------------|-------|------------|--------|-------------------|---------------------|
| INDEX                       | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka  |                     |
|                             |       |            |        | POVAŽSKÁ BYSTRICA |                     |
| ZNACKA MATERIALU    Ø30x105 |       |            | T.O.   | HMOTNOST kg       | MIERKA              |
| ZNACKA MATERIALU    11600   |       |            |        | hr.hmotnosť       | 1:1                 |
| POM.ZARIADENIE              |       |            |        | STN STN polotovar | TR.C.               |
| VYPRACOVAL : BC.HLINČIK     |       | NORM. REF. |        | POZNAMKA          | C.KUSOVNIKU         |
| PRESKUSAL :                 |       | dátum      |        |                   |                     |
| TECHNOLOG :                 |       | SCHVALIL:  |        | STARY V.          | C. v.    MN 4 S 013 |
| NAZOV                       |       |            |        |                   |                     |
| KLADIVO 1                   |       |            |        |                   |                     |
|                             |       |            |        | LISTOV            | LIST                |

1 2 3 4

$\sqrt{Ra\ 3,2}$

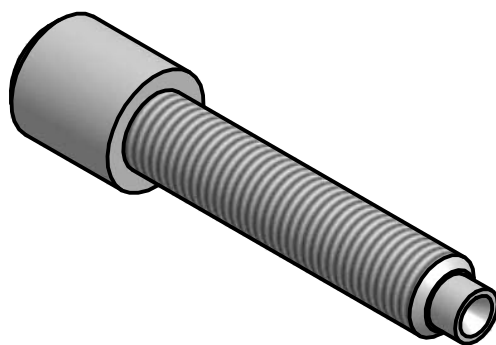
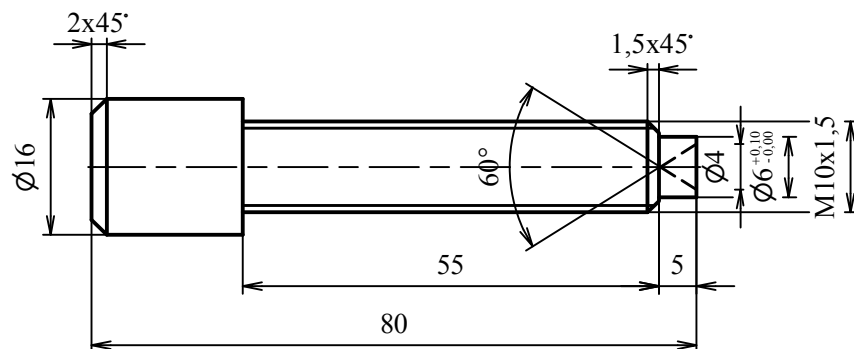


|                             |       |            |        |                   |                     |
|-----------------------------|-------|------------|--------|-------------------|---------------------|
| INDEX                       | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka  |                     |
|                             |       |            |        | POVAŽSKÁ BYSTRICA |                     |
| ZNACKA MATERIALU    Ø30x100 |       |            | T.O.   | HMOTNOST kg       | MIERKA              |
| ZNACKA MATERIALU    11600   |       |            |        | hr.hmotnosť       | 1:1                 |
| POM.ZARIADENIE              |       |            |        | STN STN polotovar | TR.C.               |
| VYPRACOVAL : BC.HLINČIK     |       | NORM. REF. |        | POZNAMKA          | C.KUSOVNIKU         |
| PRESKUSAL :                 |       | dátum      |        |                   |                     |
| TECHNOLOG :                 |       | SCHVALIL:  |        | STARY V.          | C. v.    MN 4 S 014 |
| NAZOV                       |       |            |        |                   |                     |
| KLADIVO 2                   |       |            |        | LISTOV            | LIST                |



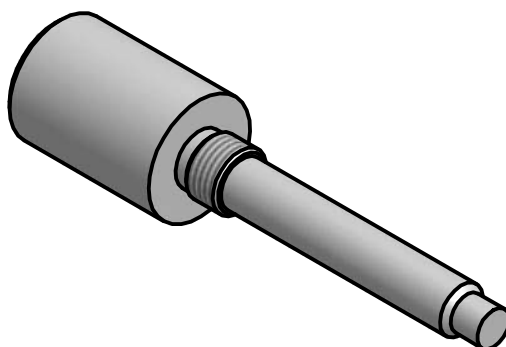
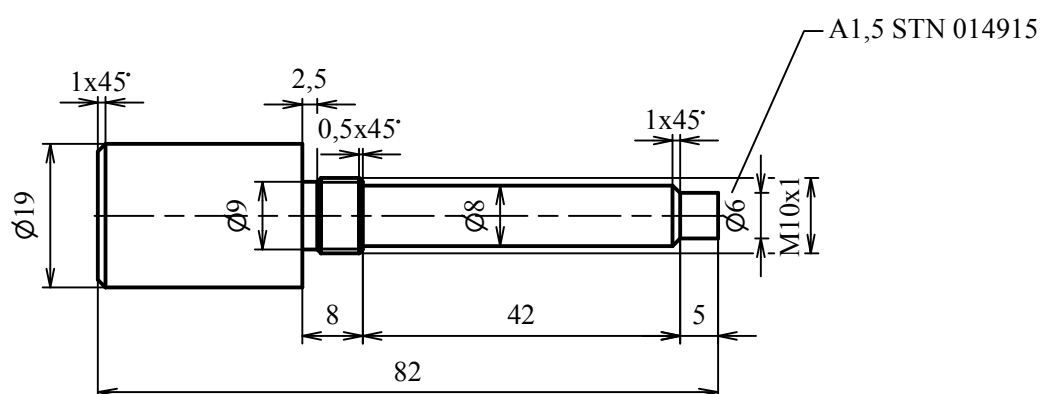
| INDEX                   | ZMENA          | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
|-------------------------|----------------|------------|--------|---------------------------------------|------------------|
| ZNACKA MATERIÁLU        | Ø40x80         |            | T.O.   | HMOTNOST kg                           | MIERKA           |
| ZNACKA MATERIÁLU        | AL - 424005.10 |            |        | hr.hmotnosť                           | 1:1              |
| POM.ZARIADENIE          |                |            |        | STN STN polotovár                     | TR.C.            |
| VYPRACOVAL : BC.HLINČIK |                | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :             |                | dátum      |        |                                       |                  |
| TECHNOLOG :             |                | SCHVALIL:  |        | STARY V.                              | C. v. MN 4 S 015 |
| NAZOV                   | PEŠIAK         |            |        | LISTOV                                | LIST             |

√ Ra 3,2



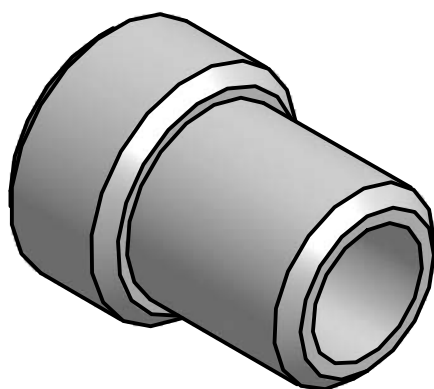
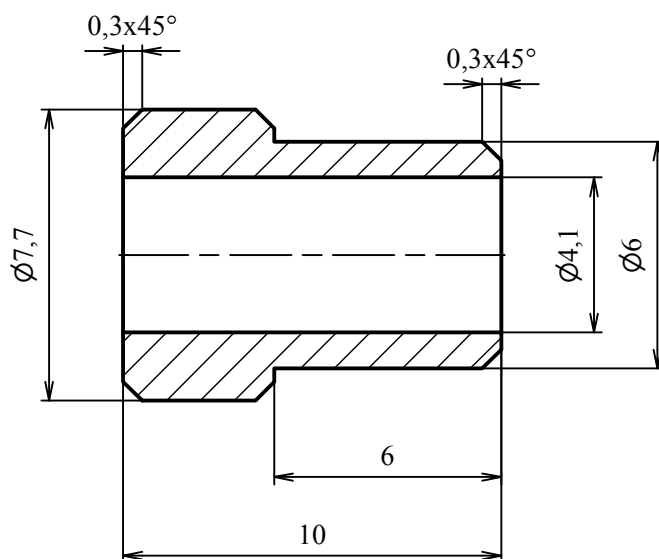
| INDEX                                       | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka  |                  |
|---------------------------------------------|-------|------------|--------|-------------------|------------------|
|                                             |       |            |        | POVAŽSKÁ BYSTRICA |                  |
| ZNACKA MATERIALU $\varnothing 18 \times 85$ |       | T.O.       |        | HMOTNOST kg       | MIERKA           |
| ZNACKA MATERIALU 11600                      |       |            |        | hr.hmotnosť       | 1:1              |
| POM.ZARIADENIE                              |       |            |        | STN STN polotovár | TR.C.            |
| VYPRACOVAL : BC.HLINČIK                     |       | NORM. REF. |        | POZNAMKA          | C.KUSOVNIKU      |
| PRESKUSAL :                                 |       | dátum      |        |                   |                  |
| TECHNOLOG :                                 |       | SCHVALIL:  |        | STARY V.          | C. V. MN 4 S 016 |
| NAZOV                                       |       |            |        |                   |                  |
| SKRUTKA ZVERÁKA                             |       |            |        |                   |                  |
|                                             |       |            |        | LISTOV            | LIST             |

√ Ra1,6

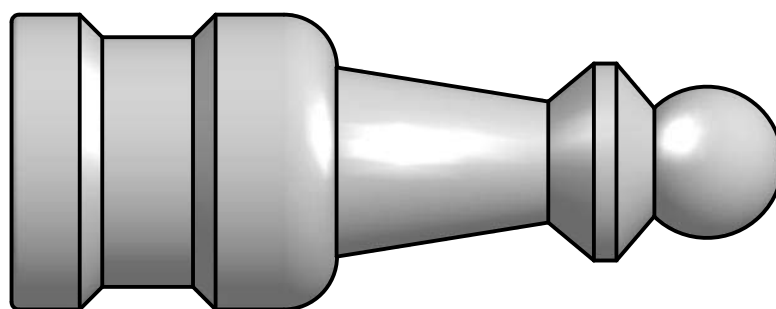


| INDEX                   | ZMENA       | DATUM      | PODPIS | SOŠ-Strojnícka    |                  |
|-------------------------|-------------|------------|--------|-------------------|------------------|
|                         |             |            |        | POVAZSKA BYSTRICA |                  |
| ZNACKA MATERIALU        | Ø20x87      |            | T.O.   | HMOTNOST kg       | MIERKA           |
| ZNACKA MATERIALU        | 11600       |            |        | hr.hmotnosť       | 1:1              |
| POM.ZARIADENIE          |             |            |        | STN STN polotovar | TR.C.            |
| VYPRACOVAL : Bc.HLINČÍK |             | NORM. REF. |        | POZNAMKA          | C.KUSOVNIKU      |
| PRESKUSAL :             |             | dátum      |        |                   |                  |
| TECHNOLOG :             |             | SCHVALIL:  |        | STARY V.          | C. v. MN 4 S 017 |
| NAZOV                   | KLÚČENKA -1 |            |        |                   |                  |
|                         |             |            |        | LISTOV            | LIST             |

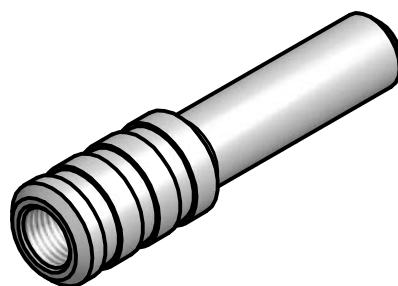
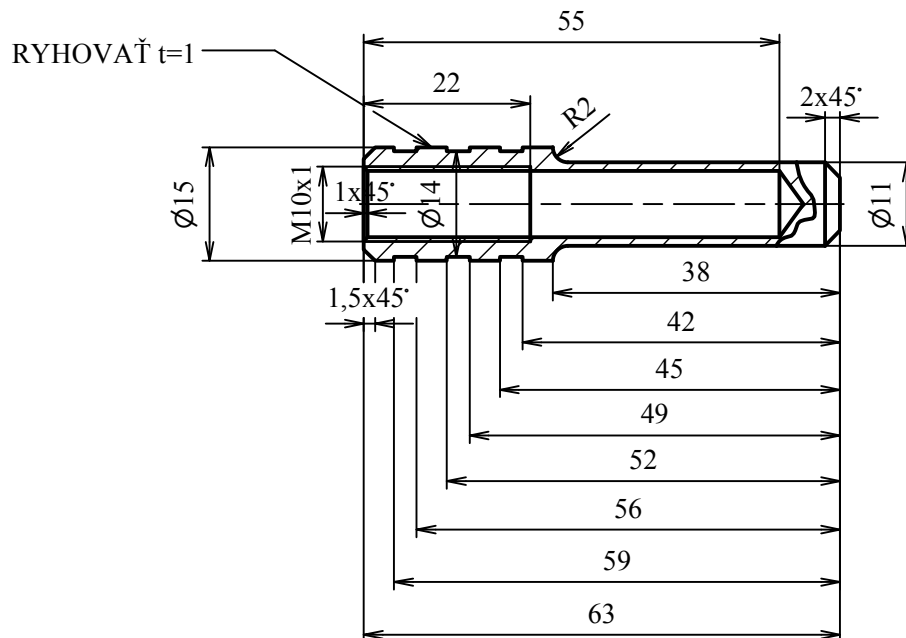
√ Ra3,2



| INDEX                                       | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka  |                  |
|---------------------------------------------|-------|------------|--------|-------------------|------------------|
|                                             |       |            |        | POVAŽSKÁ BYSTRICA |                  |
| ZNACKA MATERIALU $\varnothing 8 \times 100$ |       |            | T.O.   | HMOTNOST kg       | MIERKA           |
| ZNACKA MATERIALU AL-424005.10               |       |            |        | hr.hmotnosť       | 5:1              |
| POM.ZARIADENIE                              |       |            |        | STN STN polotovár | TR.C.            |
| VYPRACOVAL : Bc.HLINČÍK                     |       | NORM. REF. |        | POZNAMKA          | C.KUSOVNIKU      |
| PRESKUSAL :                                 |       | dátum      |        |                   |                  |
| TECHNOLOG :                                 |       | SCHVALIL:  |        | STARY V.          | C. v. MN 4 S 018 |
| NAZOV                                       |       |            |        |                   |                  |
| PÚZDRO 3                                    |       |            |        | LISTOV            | LIST             |

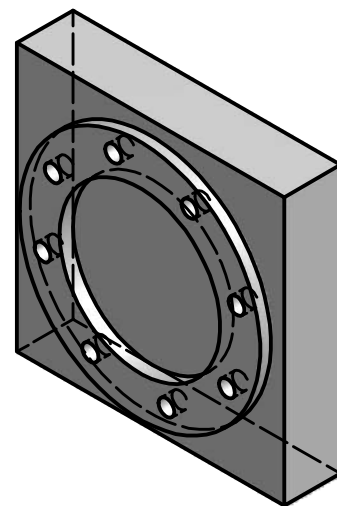
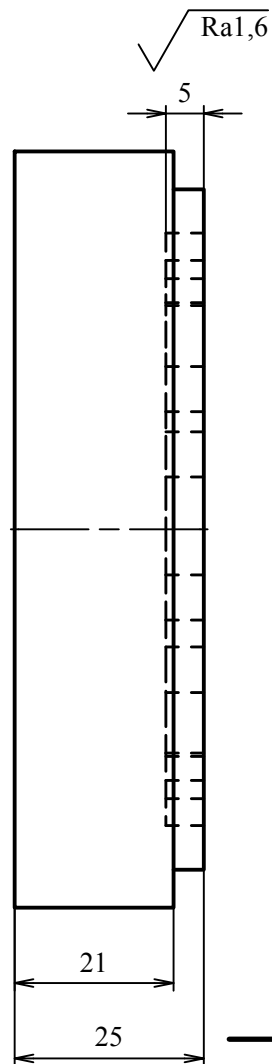
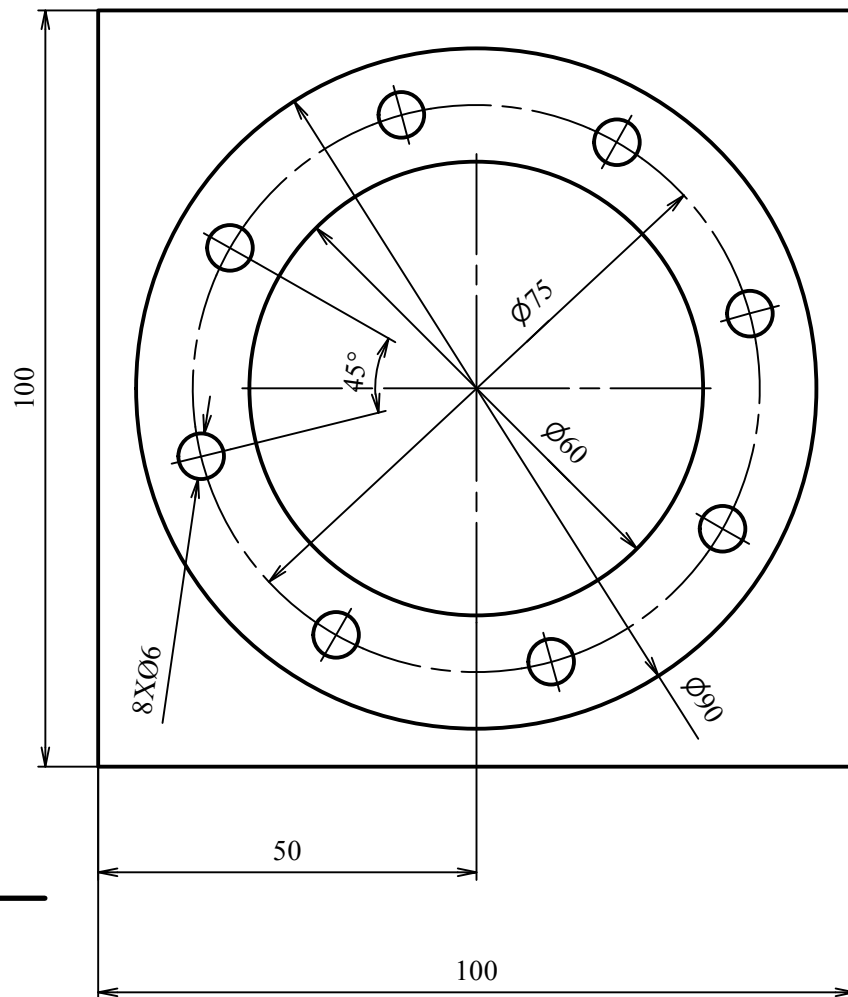


|                                 |       |            |        |                                       |                  |
|---------------------------------|-------|------------|--------|---------------------------------------|------------------|
| INDEX                           | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
| ZNACKA MATERIALU Ø20x55         |       | T.O.       |        | HMOTNOST kg                           | MIERKA           |
| ZNACKA MATERIALU AL - 424005.10 |       |            |        | hr.hmotnosť                           | 2:1              |
| POM.ZARIADENIE                  |       |            |        | STN STN polotovár                     | TR.C.            |
| VYPRACOVAL : Bc.HLINČÍK         |       | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :                     |       | dátum      |        |                                       |                  |
| TECHNOLOG :                     |       | SCHVALIL:  |        | STARY V.                              | C. V. MN 4 S 019 |
| NAZOV                           |       |            |        |                                       |                  |
| FIGURKA                         |       |            |        | LISTOV LIST                           |                  |

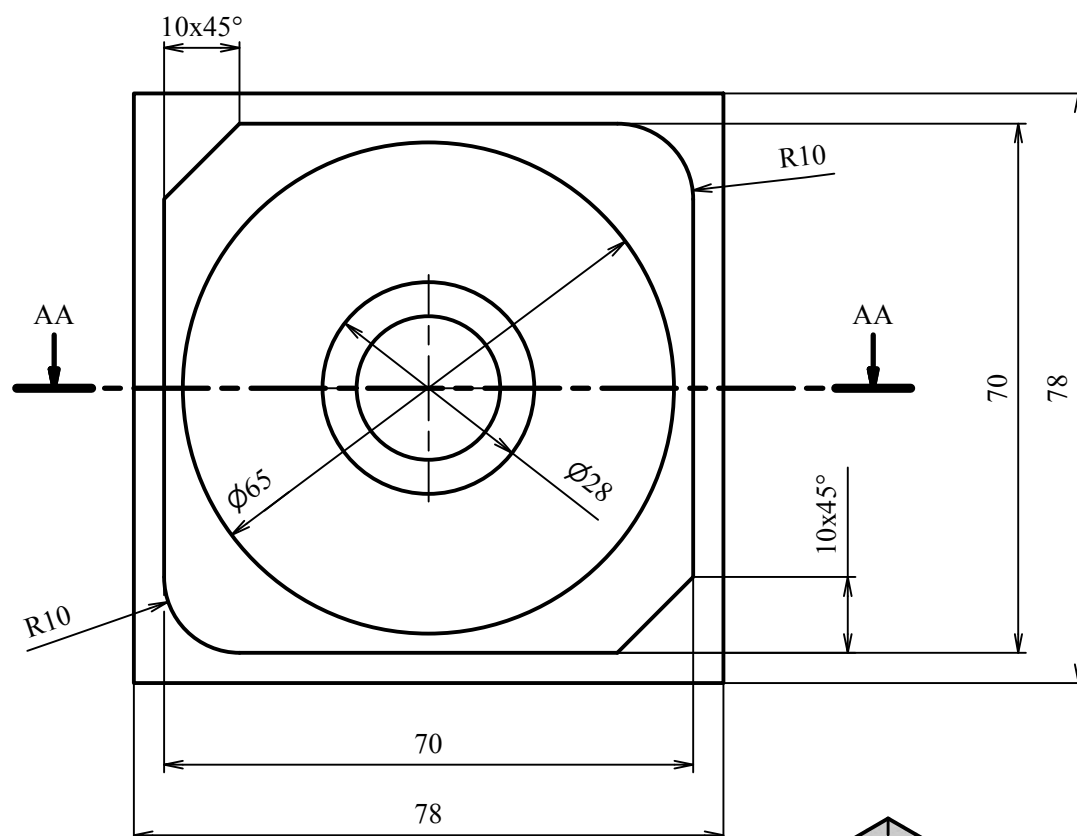


|                                 |       |            |        |                   |                  |
|---------------------------------|-------|------------|--------|-------------------|------------------|
| INDEX                           | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka  |                  |
|                                 |       |            |        | POVAŽSKÁ BYSTRICA |                  |
| ZNACKA MATERIALU Ø16x68         |       |            | T.O.   | HMOTNOST kg       | MIERKA           |
| ZNACKA MATERIALU AL - 424005 10 |       |            |        | hr.hmotnosť       | 1:1              |
| POM.ZARIADENIE                  |       |            |        | STN STN polotovar | TR.C.            |
| VYPRACOVAL : BC.HLINČIK         |       | NORM. REF. |        | POZNAMKA          | C.KUSOVNIKU      |
| PRESKUSAL :                     |       | dátum      |        |                   |                  |
| TECHNOLOG :                     |       | SCHVALIL:  |        | STARY V.          | C. v. MN 4 S 020 |
| NAZOV                           |       |            |        |                   |                  |
| KĽÚČENKA -2                     |       |            |        | LISTOV            | LIST             |

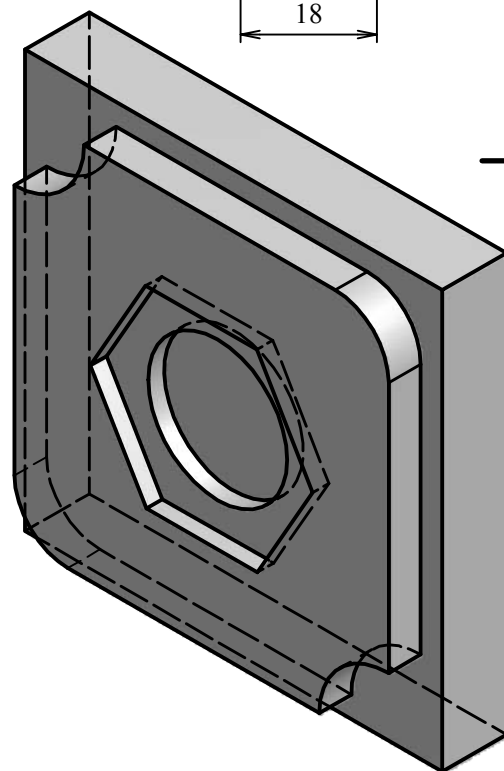
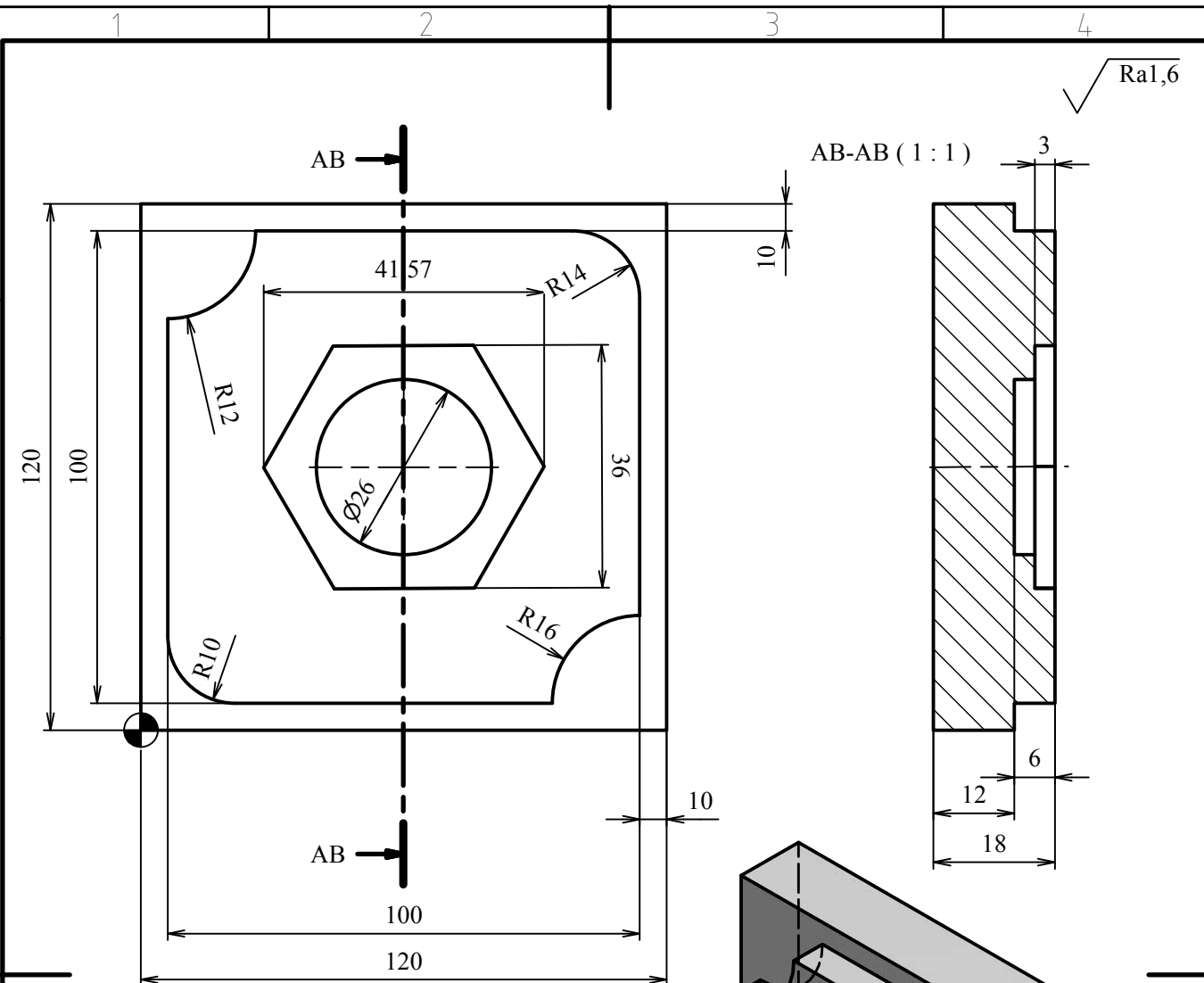




| INDEX                       | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAŽSKÁ BYSTRICA</b> |                  |
|-----------------------------|-------|------------|--------|-----------------------------------------------------|------------------|
|                             |       |            |        |                                                     |                  |
| ZNACKA MATERIALU AL         |       | T.O.       |        | HMOTNOST kg                                         | MIERKA           |
| ZNACKA MATERIALU 105X105X30 |       |            |        |                                                     | 1:1              |
| POM.ZARIADENIE              |       |            |        | STN                                                 | TR.C.            |
| VYPRACOVAL : Biernat Jozef  |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU      |
| PRESKUSAL :                 |       |            |        |                                                     |                  |
| TECHNOLOG :                 |       | SCHVALIL:  |        | STARÝ V.                                            | C. V. MN4FR- 002 |
| NAZOV                       |       |            |        |                                                     |                  |
| PRÍRUBA                     |       |            |        | LISTOV                                              | LIST             |

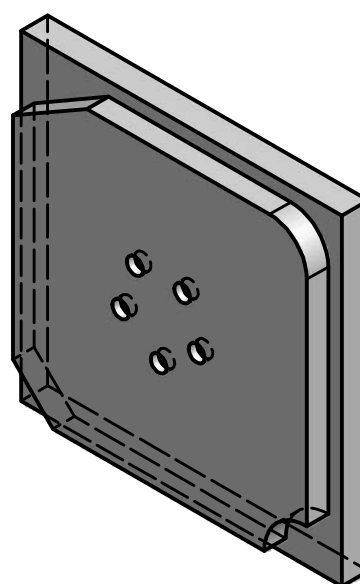
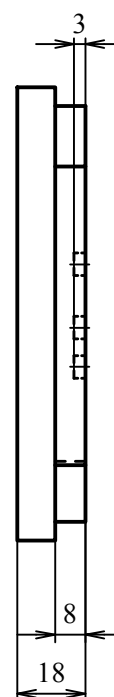


|                               |       |            |        |                                                     |                    |
|-------------------------------|-------|------------|--------|-----------------------------------------------------|--------------------|
| INDEX                         | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAŽSKÁ BYSTRICA</b> |                    |
|                               |       |            |        |                                                     |                    |
| ZNACKA MATERIÁLU    AL        |       |            | T.O.   | HMOTNOST kg                                         | MIERKA             |
| ZNACKA MATERIÁLU    20x80x80  |       |            |        |                                                     | 1:1                |
| POM.ZARIADENIE                |       |            |        | STN                                                 | TR.C.              |
| VYPRACOVAL :    Biernat Jozef |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU        |
| PRESKUSAL :                   |       |            |        |                                                     |                    |
| TECHNOLOG :                   |       | SCHVALIL:  |        | STARY V.                                            | C. V.    MN4FR-003 |
| NAZOV                         |       |            |        |                                                     |                    |
| <b>Doska</b>                  |       |            |        | LISTOV                                              | LIST               |



| INDEX                         | ZMENA | DATUM      | PODPIS   | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |        |
|-------------------------------|-------|------------|----------|---------------------------------------|--------|
|                               |       |            |          | HMOTNOST kg                           | MIERKA |
| ZNACKA MATERIÁLU   AL         |       |            | T.O.     |                                       | 1:1    |
| ZNACKA MATERIÁLU   18x120x120 |       |            |          |                                       |        |
| POM.ZARIADENIE                |       |            | STN      | TR.C.                                 |        |
| VYPRACOVAL :   Biernat Jozef  |       | NORM. REF. | POZNAMKA | C.KUSOVNIKU                           |        |
| PRESKUSAL :                   |       |            |          |                                       |        |
| TECHNOLOG :                   |       | SCHVALIL:  | STARÝ V. | C. V.   MN4FR-004                     |        |
| NAZOV                         |       |            |          |                                       |        |
| PODLOŽKA 1                    |       |            |          | LISTOV                                | LIST   |



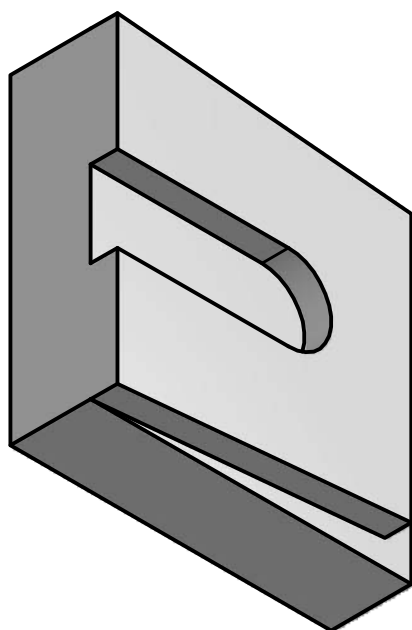


|                                                |       |            |        |                                                     |                    |
|------------------------------------------------|-------|------------|--------|-----------------------------------------------------|--------------------|
| INDEX                                          | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAŽSKÁ BYSTRICA</b> |                    |
|                                                |       |            |        |                                                     |                    |
|                                                |       |            |        |                                                     |                    |
| ZNACKA MATERIÁLU    Tvrdé drevo                |       | T.O.       |        | HMOTNOST kg                                         | MIERKA             |
| ZNACKA MATERIÁLU    120x120x18                 |       |            |        |                                                     | 1:2                |
| POM.ZARIADENIE                                 |       |            |        | STN                                                 | TR.C.              |
| VYPRACOVAL :    Biernat Jozef                  |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU        |
| PRESKUSAL :                                    |       |            |        |                                                     |                    |
| TECHNOLOG :                                    |       | SCHVALIL:  |        | STARY V.                                            | C. V.    MN4FR-003 |
| NAZOV                                          |       |            |        |                                                     |                    |
| <div> <div>PODLOŽKA 2</div> <div></div> </div> |       |            |        | LISTOV                                              | LIST               |

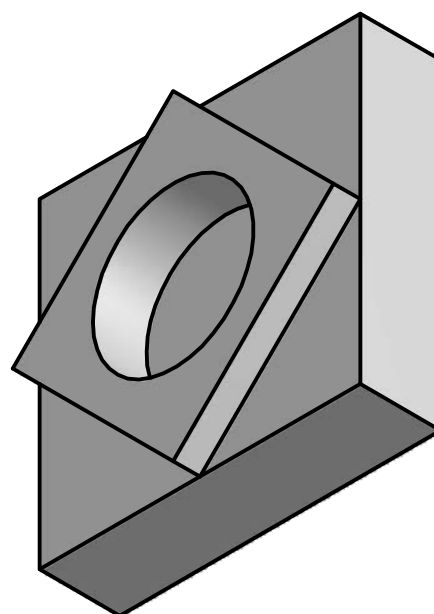
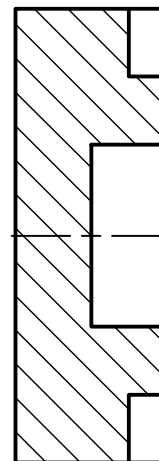
F

|                              |       |            |        |                                                     |                 |
|------------------------------|-------|------------|--------|-----------------------------------------------------|-----------------|
| INDEX                        | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAŽSKÁ BYSTRICA</b> |                 |
| ZNACKA MATERIÁLU AL- 42 4201 |       |            | T.O.   | HMOTNOST kg                                         | MIERKA<br>1:1   |
| ZNACKA MATERIÁLU 60x60x25    |       |            |        |                                                     |                 |
| POM.ZARIADENIE               |       |            |        | STN                                                 | TR.C.           |
| VYPRACOVAL : Bc. Biernat     |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU     |
| PRESKUSAL :                  |       |            |        |                                                     |                 |
| TECHNOLOG :                  |       | SCHVALIL:  |        | STARÝ V.                                            | C. V. MN4FR-007 |
| NAZOV                        |       |            |        | LISTOV                                              | LIST            |
| PRIZMA 1                     |       |            |        |                                                     |                 |

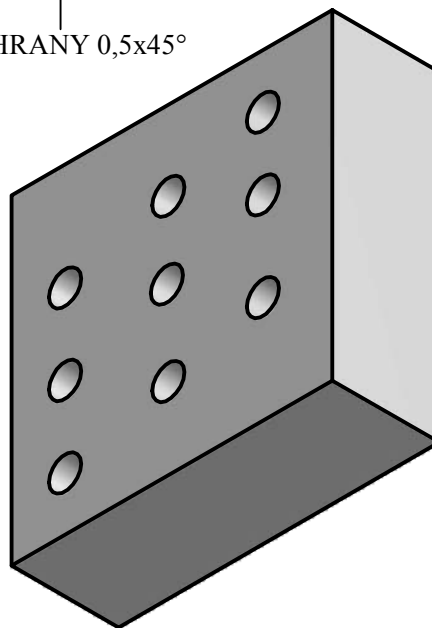
F



|                             |       |            |        |                                                     |                 |
|-----------------------------|-------|------------|--------|-----------------------------------------------------|-----------------|
| INDEX                       | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAŽSKÁ BYSTRICA</b> |                 |
| ZNACKA MATERIÁLU AL 22 4201 |       |            | T.O.   | HMOTNOST kg                                         | MIERKA<br>1:1   |
| ZNACKA MATERIÁLU 60x60x20   |       |            |        |                                                     |                 |
| POM.ZARIADENIE              |       |            |        | STN                                                 | TR.C.           |
| VYPRACOVAL : Bc. Biernat    |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU     |
| PRESKUSAL :                 |       |            |        |                                                     |                 |
| TECHNOLOG :                 |       | SCHVALIL:  |        | STARÝ V.                                            | C. V. MN4FR-008 |
| NAZOV                       |       |            |        | LISTOV                                              | LIST            |
| PRIZMA 2                    |       |            |        |                                                     |                 |



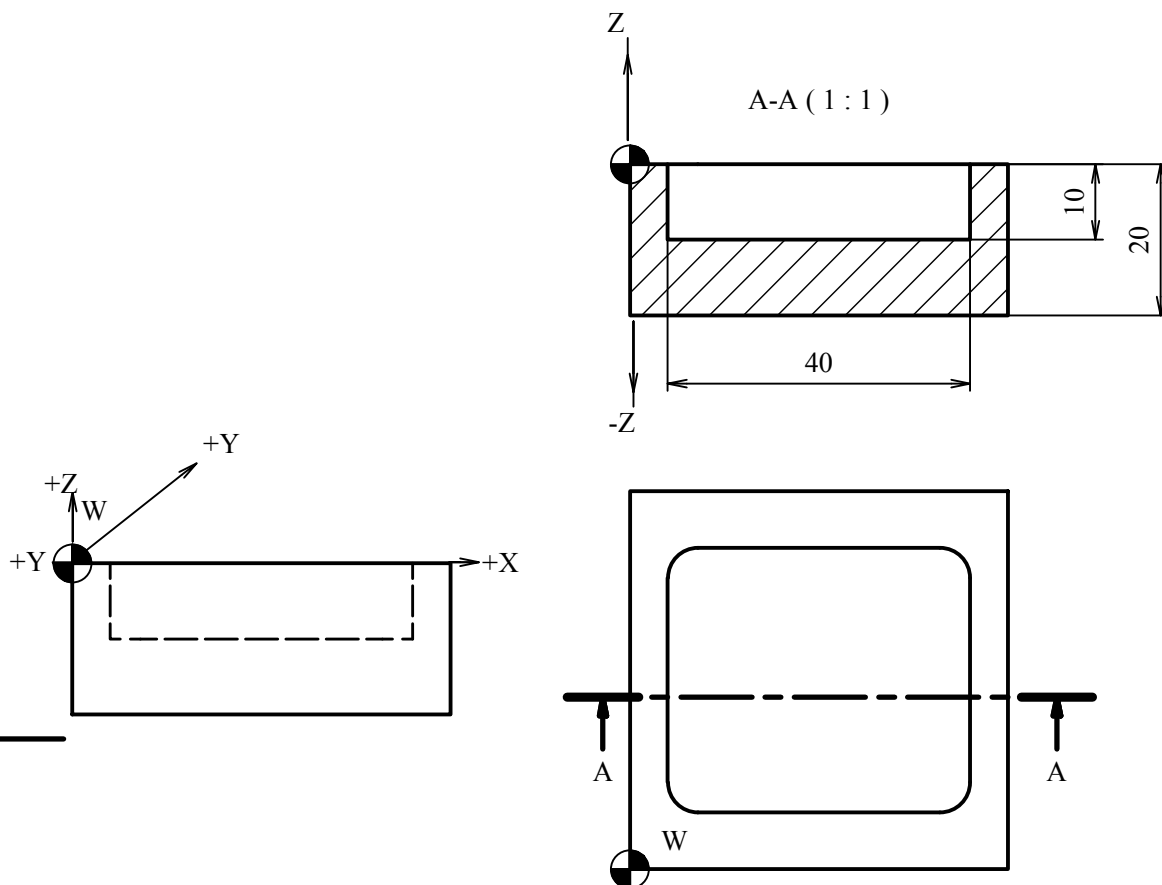
|                             |       |            |        |                                                     |                 |
|-----------------------------|-------|------------|--------|-----------------------------------------------------|-----------------|
| INDEX                       | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAŽSKÁ BYSTRICA</b> |                 |
| ZNACKA MATERIALU AL 22 4201 |       |            | T.O.   | HMOTNOST kg                                         | MIERKA<br>1:1   |
| ZNACKA MATERIALU 60x60x20   |       |            |        |                                                     |                 |
| POM.ZARIADENIE              |       |            |        | STN                                                 | TR.C.           |
| VYPRACOVAL : Bc. Biernat    |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU     |
| PRESKUSAL :                 |       |            |        |                                                     |                 |
| TECHNOLOG :                 |       | SCHVALIL:  |        | STARÝ V.                                            | C. V. MN4FR-009 |
| NAZOV                       |       |            |        | LISTOV                                              | LIST            |
| PRIZMA 3                    |       |            |        |                                                     |                 |



|                             |       |            |        |                                                     |                 |
|-----------------------------|-------|------------|--------|-----------------------------------------------------|-----------------|
| INDEX                       | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAŽSKÁ BYSTRICA</b> |                 |
| ZNACKA MATERIALU AL 42 4201 |       |            | T.O.   | HMOTNOST kg                                         | MIERKA<br>1:1   |
| ZNACKA MATERIALU 60x60x20   |       |            |        |                                                     |                 |
| POM.ZARIADENIE              |       |            |        | STN                                                 | TR.C.           |
| VYPRACOVAL : Bc. Biernat    |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU     |
| PRESKUSAL :                 |       |            |        |                                                     |                 |
| TECHNOLOG :                 |       | SCHVALIL:  |        | STARY V.                                            | C. V. MN4FR-010 |
| NAZOV                       |       |            |        | LISTOV                                              | LIST            |
| PRIZMA 4                    |       |            |        |                                                     |                 |



F

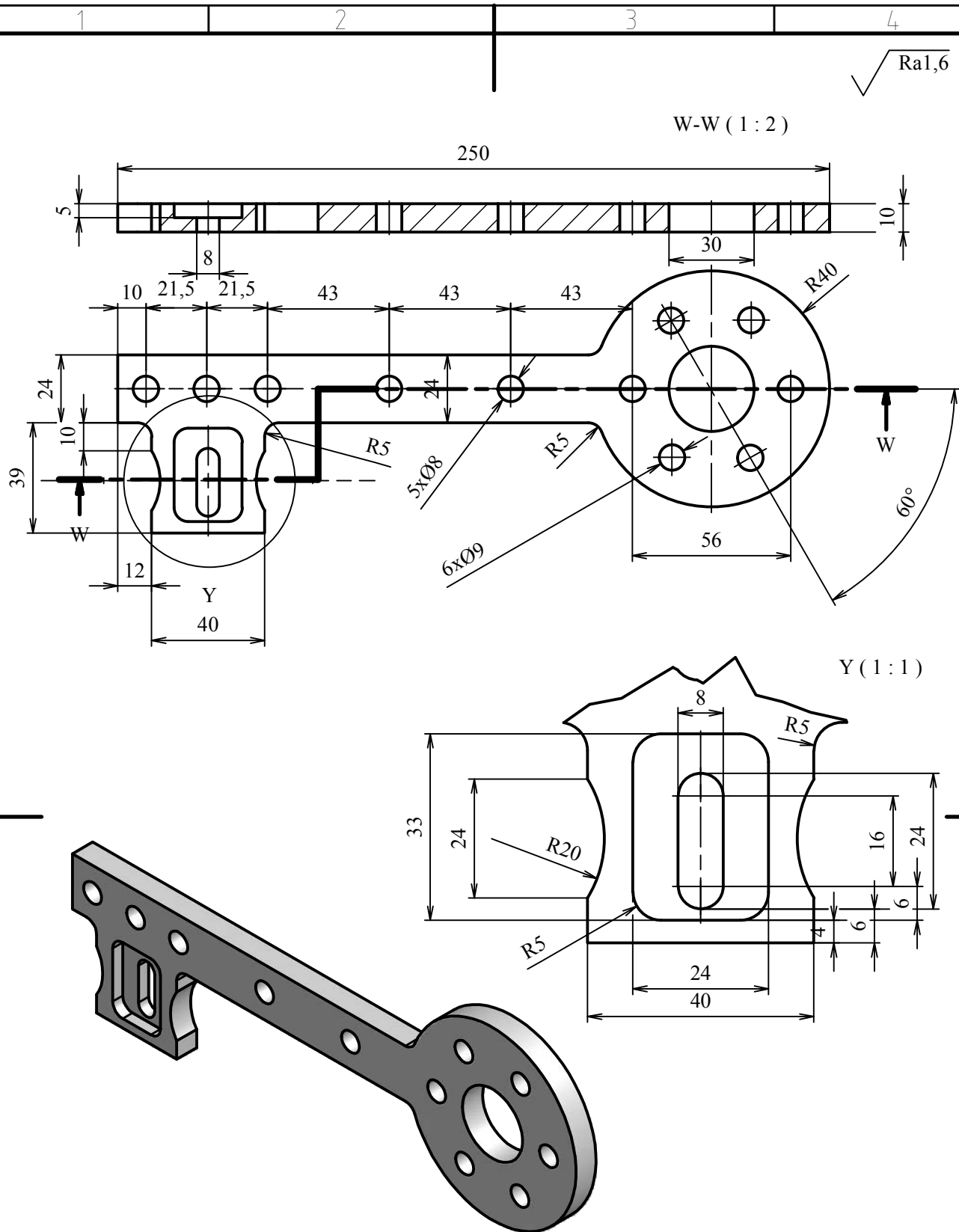


|                             |       |            |        |                                                     |                 |
|-----------------------------|-------|------------|--------|-----------------------------------------------------|-----------------|
| INDEX                       | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAŽSKÁ BYSTRICA</b> |                 |
| ZNACKA MATERIÁLU AL 22 4201 |       |            | T.O.   | HMOTNOST kg                                         | MIERKA<br>1:1   |
| ZNACKA MATERIÁLU 20x60x60   |       |            |        |                                                     |                 |
| POM.ZARIADENIE              |       |            |        | STN                                                 | TR.C.           |
| VYPRACOVAL : Bc. Biernat    |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU     |
| PRESKUSAL :                 |       |            |        |                                                     |                 |
| TECHNOLOG :                 |       | SCHVALIL:  |        | STARÝ V.                                            | C. V. MN4FR-012 |
| NAZOV                       |       |            |        | LISTOV                                              | LIST            |
| PODLOŽKA 11                 |       |            |        |                                                     |                 |

|                                                                                        |       |            |        |                                                     |                 |
|----------------------------------------------------------------------------------------|-------|------------|--------|-----------------------------------------------------|-----------------|
| INDEX                                                                                  | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAŽSKÁ BYSTRICA</b> |                 |
| ZNACKA MATERIALU AL 42 4201                                                            |       |            | T.O.   | HMOTNOST kg                                         | MIERKA<br>1:1   |
| ZNACKA MATERIALU 45x45x25                                                              |       |            |        |                                                     |                 |
| POM.ZARIADENIE                                                                         |       |            |        | STN                                                 | TR.C.           |
| VYPRACOVAL : Bc. Biernat                                                               |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU     |
| PRESKUSAL :                                                                            |       |            |        |                                                     |                 |
| TECHNOLOG :                                                                            |       | SCHVALIL:  |        | STARY V.                                            | C. V. MN4FR-013 |
| NAZOV                                                                                  |       |            |        |                                                     |                 |
| <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> OPIERKA |       |            |        | LISTOV                                              | LIST            |

|                                                |       |            |        |                                                     |                   |
|------------------------------------------------|-------|------------|--------|-----------------------------------------------------|-------------------|
| INDEX                                          | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAŽSKÁ BYSTRICA</b> |                   |
| ZNACKA MATERIALU    Tvrdé drevo                |       |            | T.O.   | HMOTNOST kg                                         | MIERKA<br>1:1     |
| ZNACKA MATERIALU    10x30x50                   |       |            |        |                                                     |                   |
| POM.ZARIADENIE                                 |       |            |        | STN                                                 | TR.C.             |
| VYPRACOVAL :    Bc. Biernat                    |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU       |
| PRESKUSAL :                                    |       |            |        |                                                     |                   |
| TECHNOLOG :                                    |       | SCHVALIL:  |        | STARY V.                                            | C. V.   MN4FR-014 |
| NAZOV                                          |       |            |        | LISTOV                                              | LIST              |
| <div style="text-align: center;">ŠABLONA</div> |       |            |        |                                                     |                   |

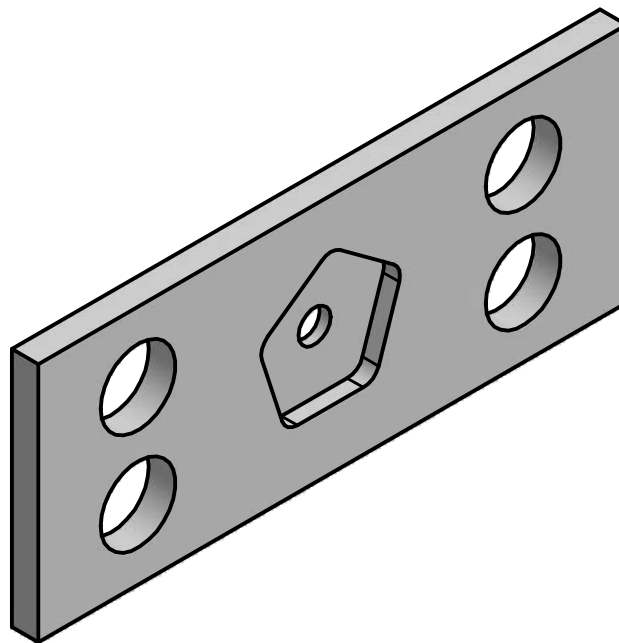
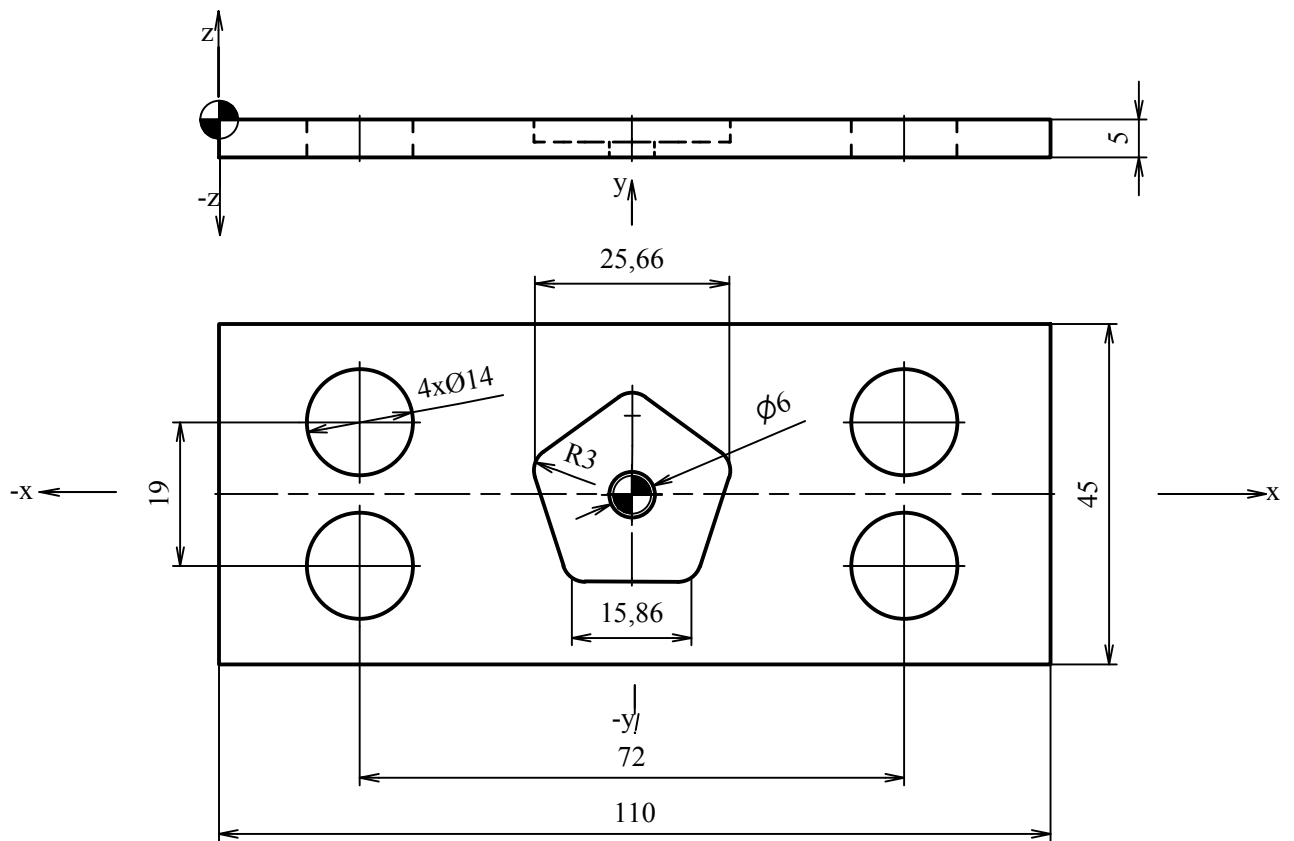




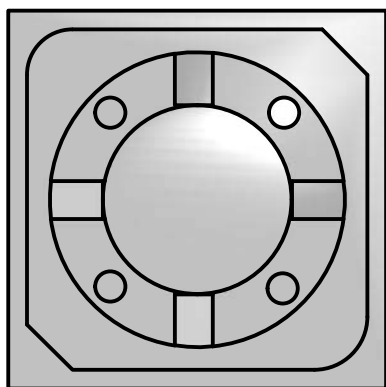
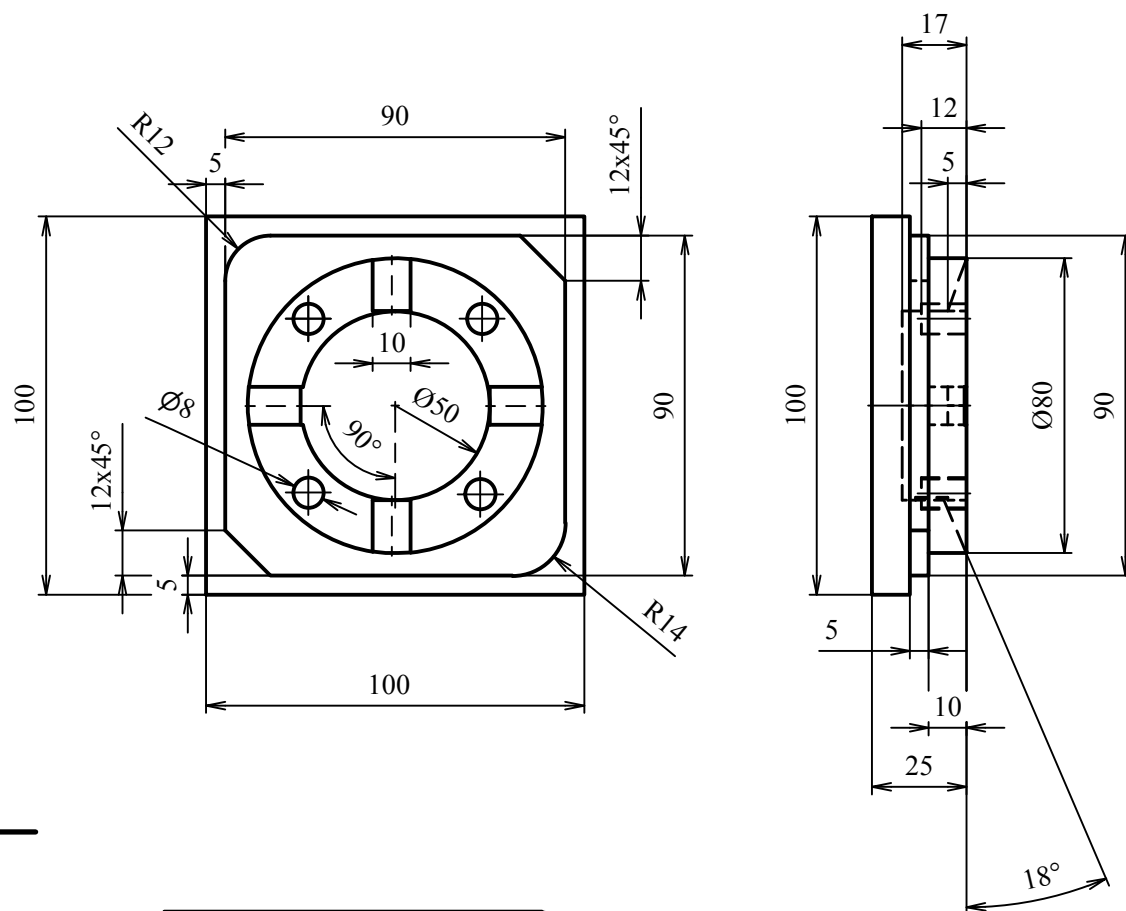
| INDEX            | ZMENA       | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                 |
|------------------|-------------|------------|--------|---------------------------------------|-----------------|
| ZNACKA MATERIALU | Tvrdé drevo |            | T.O.   | HMOTNOST kg                           | MIERKA          |
| ZNACKA MATERIALU | 10x100x260  |            |        |                                       | 1:2             |
| POM.ZARIADENIE   |             |            |        | STN                                   | TR.C.           |
| VYPRACOVAL :     | Bc. Biernat | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU     |
| PRESKUSAL :      |             |            |        |                                       |                 |
| TECHNOLOG :      |             | SCHVALIL:  |        | STARÝ V.                              | C. V. MN4FR-016 |
| NAZOV            | KLÚČ 1      |            |        | LISTOV                                | LIST            |

1 2 3 4

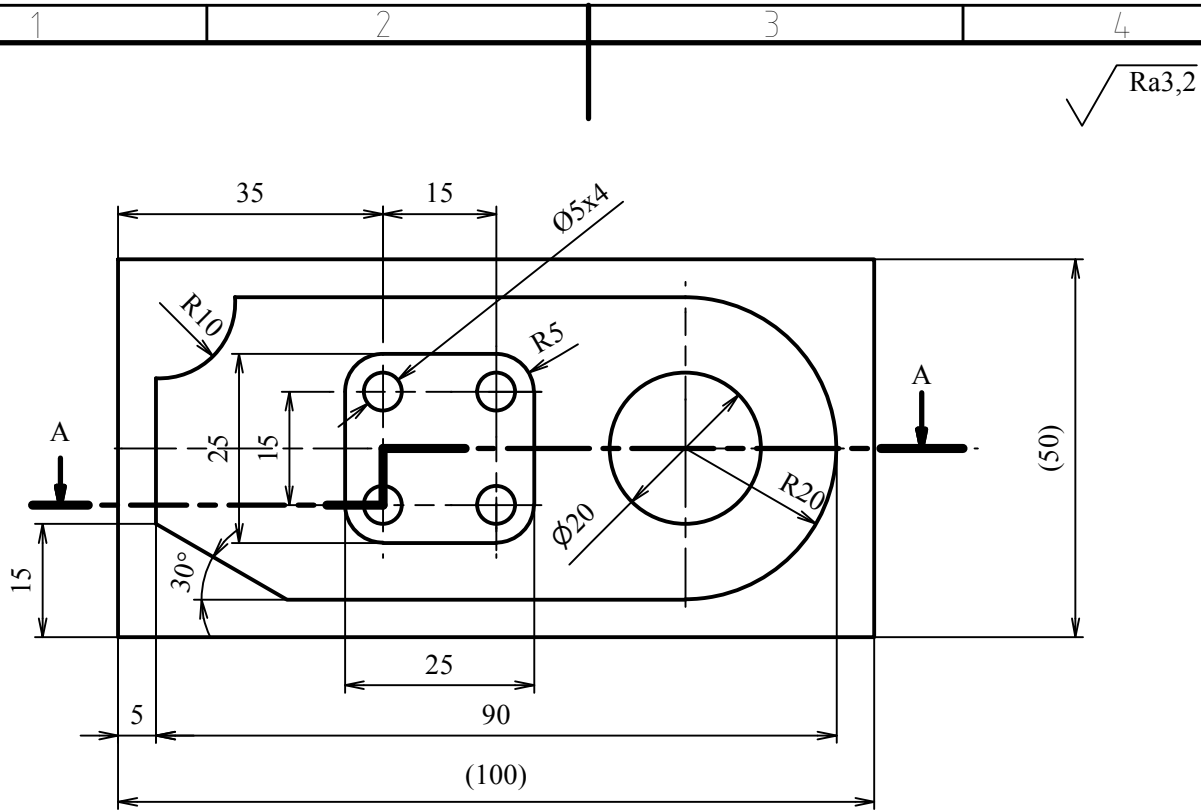
√ Ra3,2



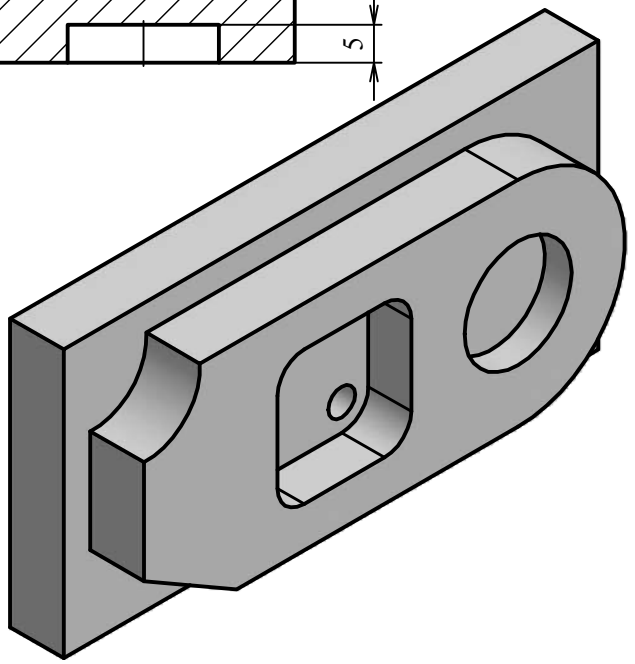
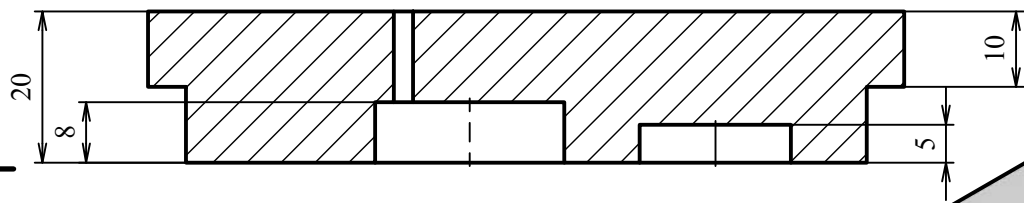
| INDEX            | ZMENA       | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                 |
|------------------|-------------|------------|--------|---------------------------------------|-----------------|
| ZNACKA MATERIALU | AL 42 4201  |            | T.O.   | HMOTNOST kg                           | MIERKA          |
| ZNACKA MATERIALU | 5x50x115    |            |        |                                       | 1:1             |
| POM.ZARIADENIE   |             |            |        | STN                                   | TR.C.           |
| VYPRACOVAL :     | Bc. Biernat | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU     |
| PRESKUSAL :      |             |            |        |                                       |                 |
| TECHNOLOG :      |             | SCHVALIL:  |        | STARÝ V.                              | C. V. MN4FR-017 |
| NAZOV            | PRIZMA 2    |            |        | LISTOV LIST                           |                 |



|                                                                                             |       |            |        |                                                                                              |                 |
|---------------------------------------------------------------------------------------------|-------|------------|--------|----------------------------------------------------------------------------------------------|-----------------|
| INDEX                                                                                       | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAŽSKÁ BYSTRICA</b>                                          |                 |
|                                                                                             |       |            |        |                                                                                              |                 |
| ZNACKA MATERIÁLU 11 600                                                                     |       |            | T.O.   | HMOTNOST kg                                                                                  | MIERKA<br>1:1   |
| ZNACKA MATERIÁLU 30x1110x110                                                                |       |            |        |                                                                                              |                 |
| POM.ZARIADENIE                                                                              |       |            |        | STN                                                                                          | TR.C.           |
| VYPRACOVAL : Bc. Biernat                                                                    |       | NORM. REF. |        | POZNAMKA                                                                                     | C.KUSOVNIKU     |
| PRESKUSAL :                                                                                 |       |            |        |                                                                                              |                 |
| TECHNOLOG :                                                                                 |       | SCHVALIL:  |        | STARY V.                                                                                     | C. V. MN4FR-018 |
| NAZOV<br><br><div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> |       |            |        | LISTOV<br><br><div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> |                 |



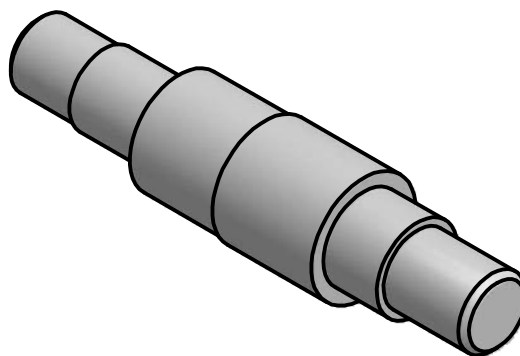
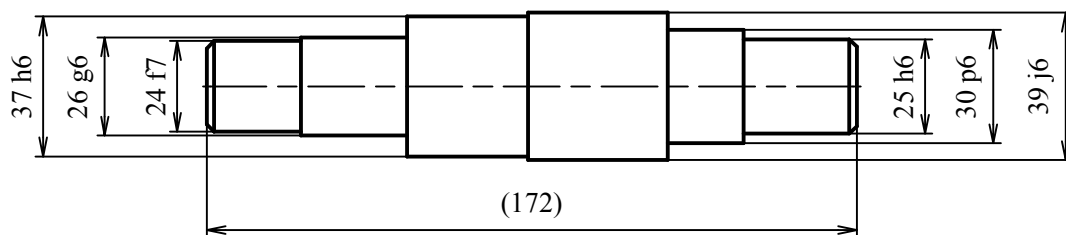
A-A (1:1)



| INDEX                    | ZMENA       | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                 |
|--------------------------|-------------|------------|--------|---------------------------------------|-----------------|
| ZNACKA MATERIALU         | Tvrdé drevo |            | T.O.   | HMOTNOST kg                           | MIERKA          |
| ZNACKA MATERIALU         | 25x50x100   |            |        |                                       | 1:1             |
| POM.ZARIADENIE           |             |            |        | STN                                   | TR.C.           |
| VYPRACOVAL : Bc. Biernat |             | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU     |
| PRESKUSAL :              |             |            |        | STARY V.                              | C. V. MN4FR-019 |
| TECHNOLOG :              |             | SCHVALIL:  |        |                                       |                 |
| NAZOV                    |             |            |        |                                       |                 |
| PODLOŽKA 3               |             |            |        | LISTOV                                | LIST            |

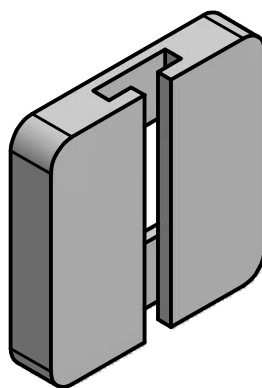
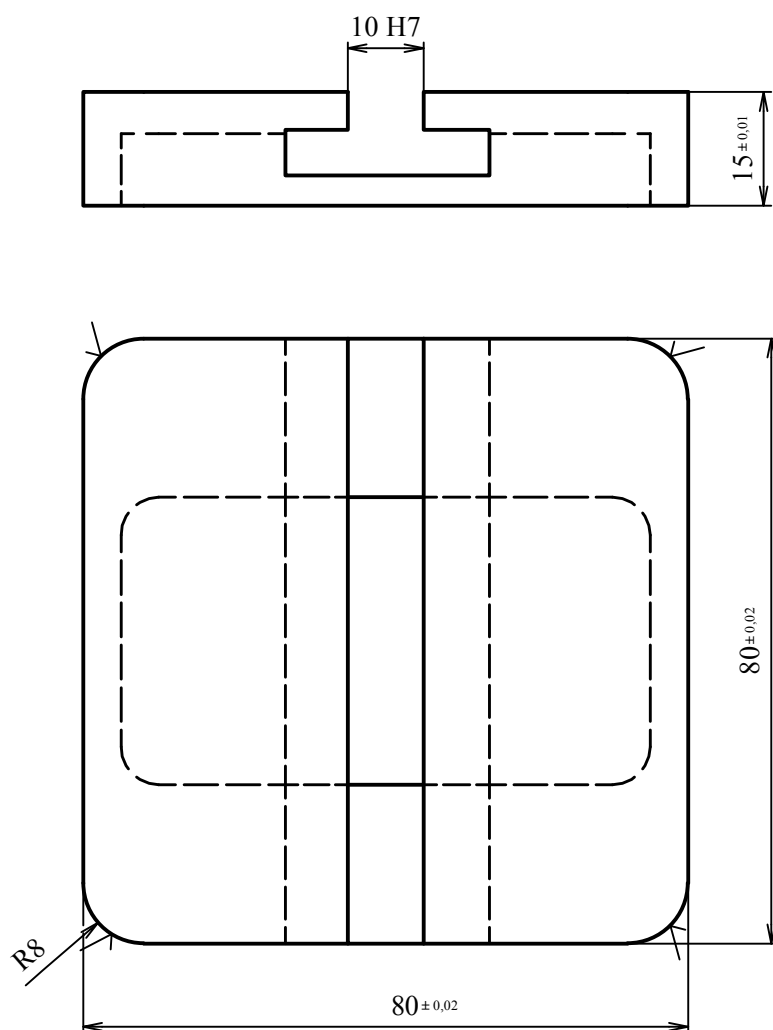
1 2 3 4

$\sqrt{Ra\ 0,8}$



| INDEX                      | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
|----------------------------|-------|------------|--------|---------------------------------------|------------------|
| ZNACKA MATERIALU 11 600    |       |            | T.O.   | HMOTNOST kg                           | MIERKA 1:1       |
| ZNACKA MATERIALU           |       |            |        |                                       |                  |
| POM.ZARIADENIE             |       |            |        | STN                                   | TR.C.            |
| VYPRACOVAL : Bc. Hrabovsky |       | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :                |       |            |        |                                       |                  |
| TECHNOLOG :                |       | SCHVALIL:  |        | STARY V.                              | C. v. MN 4 B 001 |
| NAZOV                      | Trn   |            |        | LISTOV                                | LIST             |

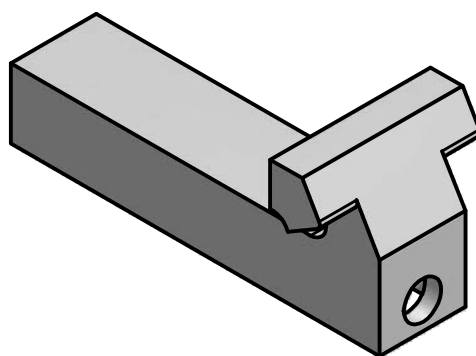
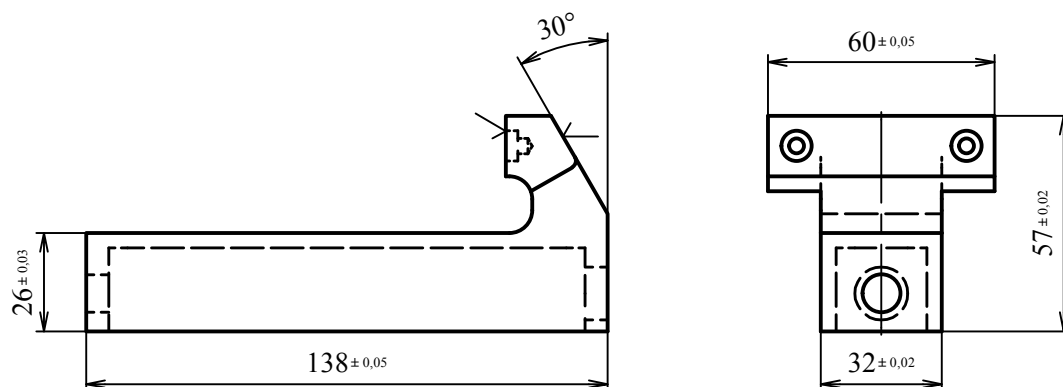
√ Ra 0,8



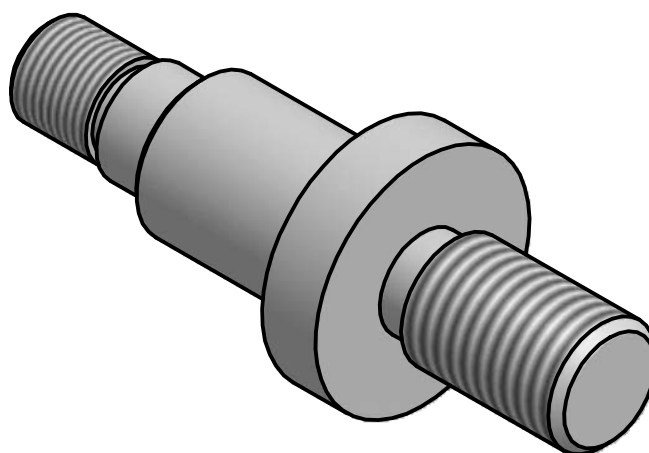
| INDEX                      | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
|----------------------------|-------|------------|--------|---------------------------------------|------------------|
|                            |       |            |        | HMOTNOST kg                           | MIERKA 1:1       |
| ZNACKA MATERIALU 11 600    |       |            | T.O.   |                                       |                  |
| ZNACKA MATERIALU           |       |            |        |                                       |                  |
| POM.ZARIADENIE             |       |            |        | STN                                   | TR.C.            |
| VYPRACOVAL : Bc. Hrabovský |       | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :                |       |            |        |                                       |                  |
| TECHNOLOG :                |       | SCHVALIL:  |        | STARY V.                              | C. V. MN 4 B 002 |
| NAZOV                      |       |            |        |                                       |                  |
| Upínacia doska             |       |            |        |                                       |                  |
|                            |       |            |        | LISTOV                                | LIST             |

1 2 3 4

$\sqrt{Ra\ 0,8}$



| INDEX                      | ZMENA            | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
|----------------------------|------------------|------------|--------|---------------------------------------|------------------|
| ZNACKA MATERIALU           | 11 600           |            | T.O.   | HMOTNOST kg                           | MIERKA 1:2       |
| ZNACKA MATERIALU           |                  |            |        |                                       |                  |
| POM.ZARIADENIE             |                  |            |        | STN                                   | TR.C.            |
| VYPRACOVAL : Bc. Hrabovský |                  | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :                |                  |            |        |                                       |                  |
| TECHNOLOG :                |                  | SCHVALIL:  |        | STARY V.                              | C. V. MN 4 B 003 |
| NAZOV                      | Pohyblivá čelusť |            |        |                                       |                  |
|                            |                  |            |        | LISTOV                                | LIST             |



|                            |       |            |        |                                                     |                  |
|----------------------------|-------|------------|--------|-----------------------------------------------------|------------------|
| INDEX                      | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAŽSKÁ BYSTRICA</b> |                  |
| ZNACKA MATERIALU 11 600    |       |            | T.O.   | HMOTNOST kg                                         | MIERKA 1:1       |
| ZNACKA MATERIALU           |       |            |        |                                                     |                  |
| POM.ZARIADENIE             |       |            |        | STN                                                 | TR.C.            |
| VYPRACOVAL : Bc. Hrabovsky |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU      |
| PRESKUSAL :                |       |            |        |                                                     |                  |
| TECHNOLOG :                |       | SCHVALIL:  |        | STARY V.                                            | C. V. MN 4 B 004 |
| NAZOV ČAP                  |       |            |        | LISTOV                                              | LIST             |

1

2

3

4

 $\sqrt{Ra\ 0,8}$ 

A

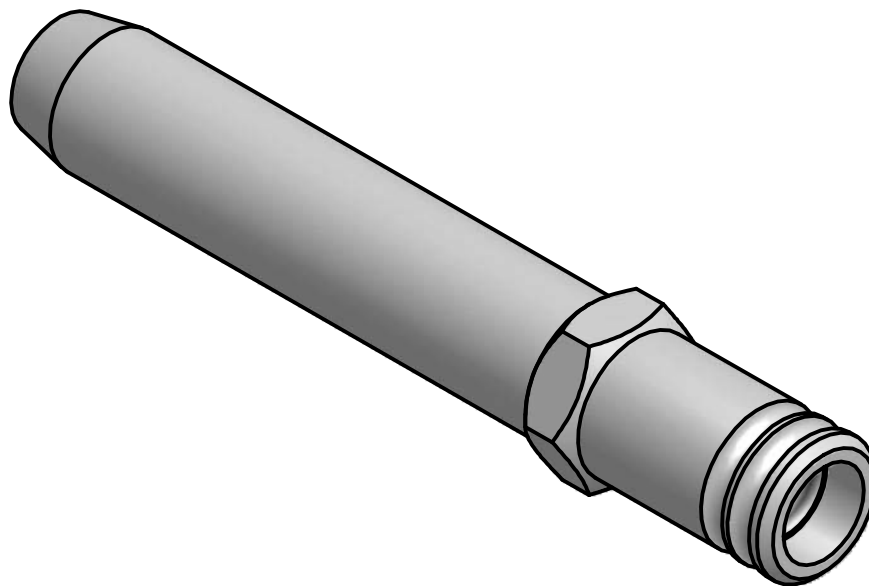
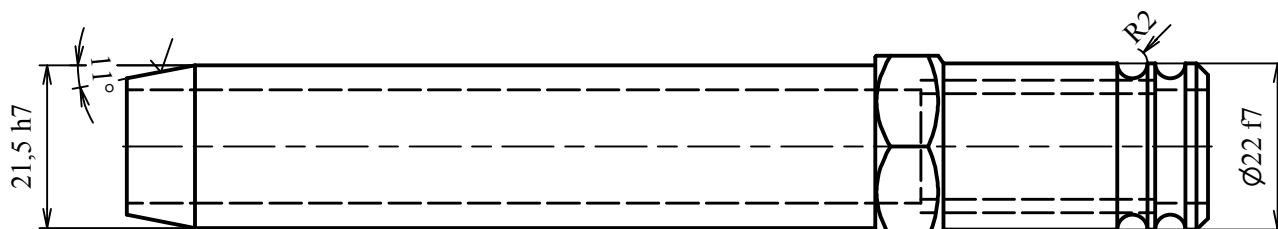
B

C

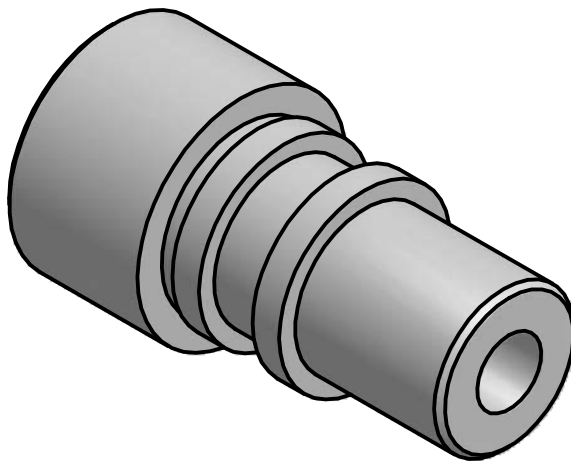
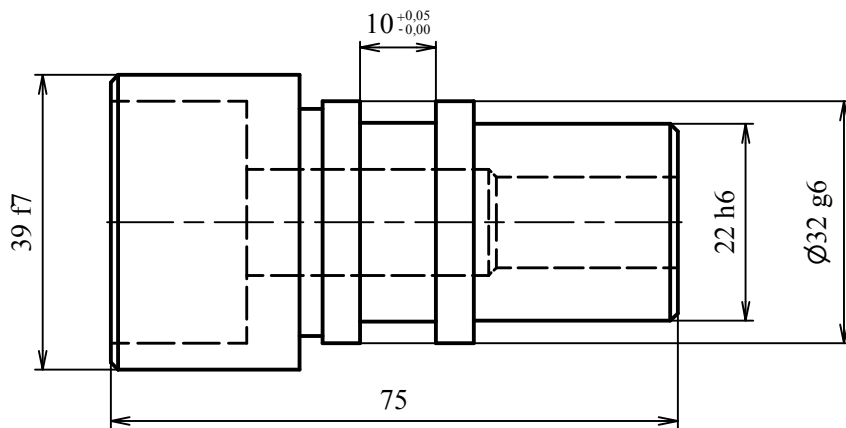
D

E

F



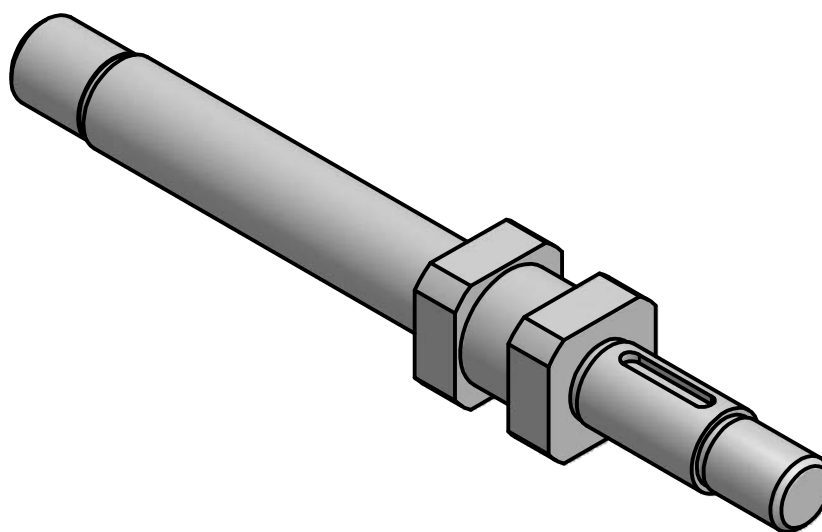
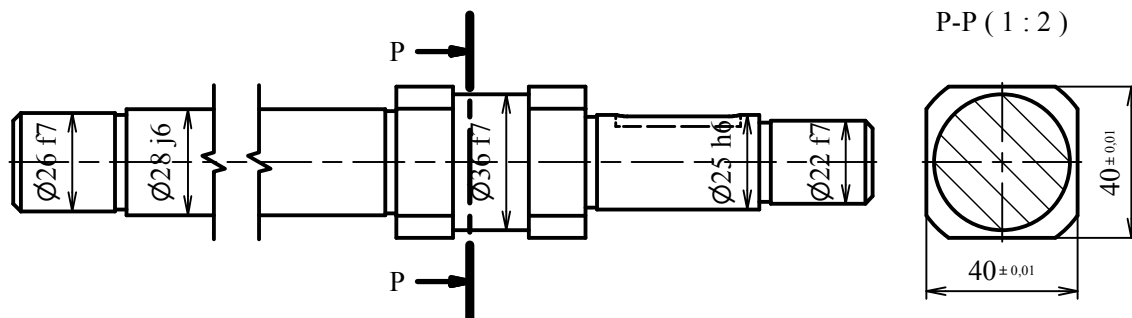
| INDEX                      | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
|----------------------------|-------|------------|--------|---------------------------------------|------------------|
| ZNACKA MATERIALU 11 600    |       |            | T.O.   | HMOTNOST kg                           | MIERKA 1:1       |
| ZNACKA MATERIALU           |       |            |        |                                       |                  |
| POM.ZARIADENIE             |       |            |        | STN                                   | TR.C.            |
| VYPRACOVAL : Bc. Hrabovsky |       | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :                |       |            |        |                                       |                  |
| TECHNOLOG :                |       | SCHVALIL:  |        | STARÝ V.                              | C. V. MN 4 B 005 |
| NAZOV                      |       |            |        |                                       |                  |
| Rukovät'                   |       |            |        | LISTOV                                | LIST             |



| INDEX                      | ZMENA  | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
|----------------------------|--------|------------|--------|---------------------------------------|------------------|
| ZNACKA MATERIALU           |        |            | T.O.   | HMOTNOST kg                           | MIERKA 1:1       |
| ZNACKA MATERIALU           |        |            |        |                                       |                  |
| POM.ZARIADENIE             |        |            |        | STN                                   | TR.C.            |
| VYPRACOVAL : Bc. Hrabovský |        | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :                |        |            |        |                                       |                  |
| TECHNOLOG :                |        | SCHVALIL:  |        | STARY V.                              | C. V. MN 4 B 006 |
| NAZOV                      | Púzdro |            |        | LISTOV LIST                           |                  |

1 2 3 4

$\sqrt{Ra\ 0,8}$



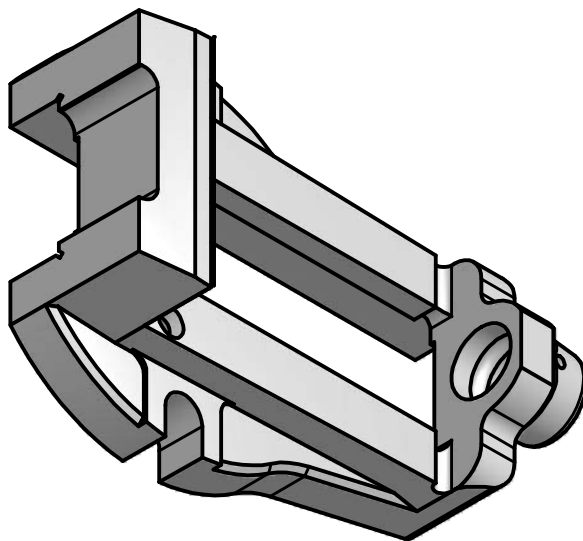
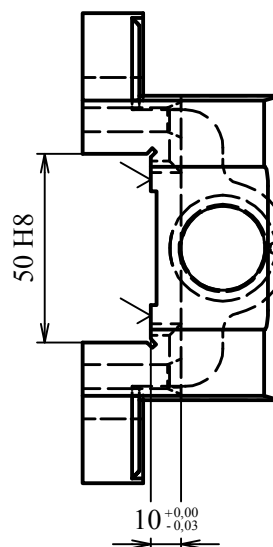
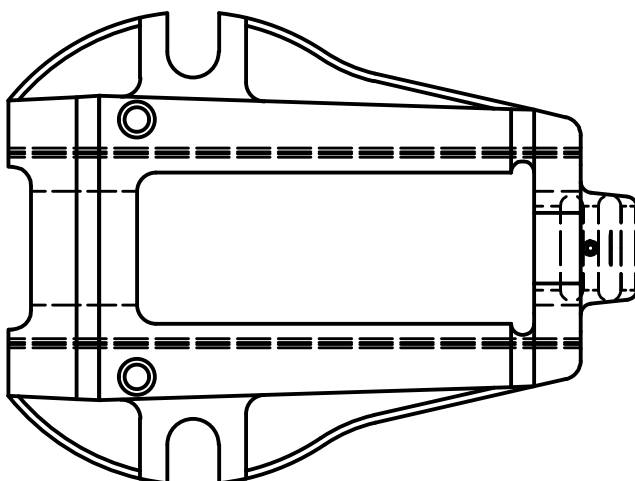
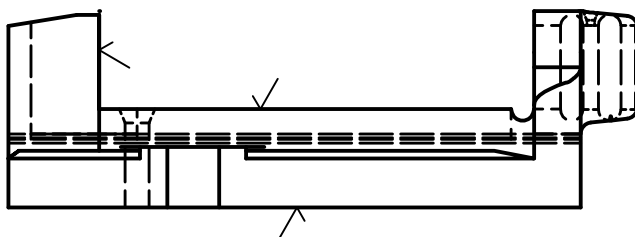
| INDEX                      | ZMENA    | DATUM      | PODPIS | <b>SOŠ - Strojnícka<br/>POVAŽSKÁ BYSTRICA</b> |                  |
|----------------------------|----------|------------|--------|-----------------------------------------------|------------------|
| ZNACKA MATERIALU           | 11 600   |            | T.O.   | HMOTNOST kg                                   | MIERKA 1:2       |
| ZNACKA MATERIALU           |          |            |        |                                               |                  |
| POM.ZARIADENIE             |          |            |        | STN                                           | TR.C.            |
| VYPRACOVAL : Bc. Hrabovský |          | NORM. REF. |        | POZNAMKA                                      | C.KUSOVNIKU      |
| PRESKUSAL :                |          |            |        |                                               |                  |
| TECHNOLOG :                |          | SCHVALIL:  |        | STARY V.                                      | C. V. MN 4 B 007 |
| NAZOV                      | Hriadel' |            |        |                                               |                  |
|                            |          |            |        | LISTOV                                        | LIST             |

1

2

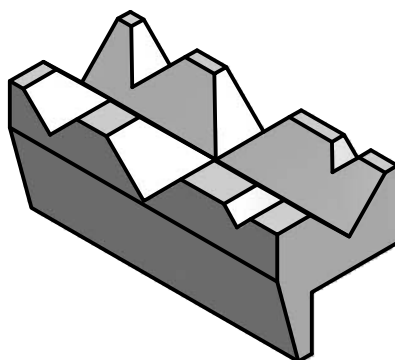
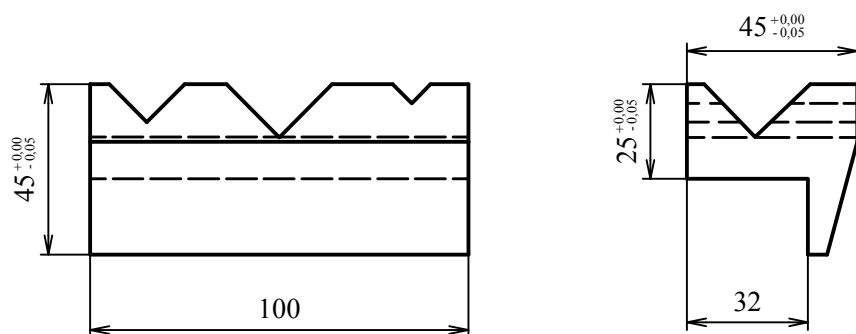
3

4

 $\sqrt{Ra\ 0,8}$ 


| INDEX                      | ZMENA          | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
|----------------------------|----------------|------------|--------|---------------------------------------|------------------|
| ZNACKA MATERIALU           | 11 600         |            | T.O.   | HMOTNOST kg                           | MIERKA 1:2       |
| ZNACKA MATERIALU           |                |            |        |                                       |                  |
| POM.ZARIADENIE             |                |            |        | STN                                   | TR.C.            |
| VYPRACOVAL : Bc. Hrabovsky |                | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :                |                |            |        |                                       |                  |
| TECHNOLOG :                |                | SCHVALIL:  |        | STARY V.                              | C. V. MN 4 B 008 |
| NAZOV                      | Teleso zveráka |            |        |                                       |                  |
|                            |                |            |        | LISTOV                                | LIST             |

√ Ra 0,8



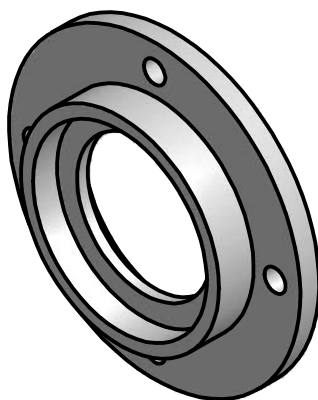
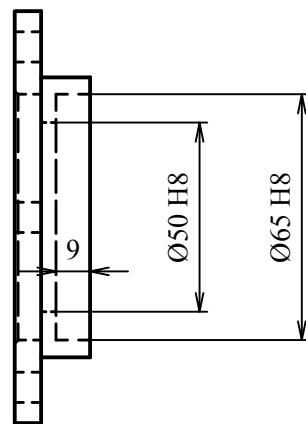
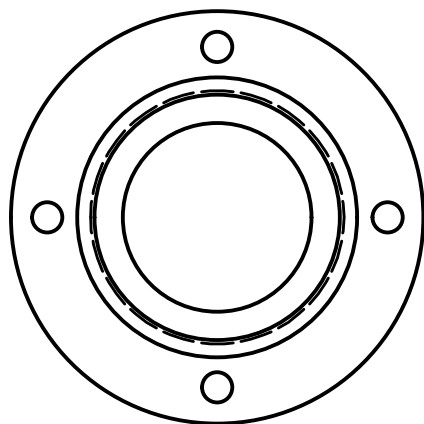
| INDEX                      | ZMENA          | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
|----------------------------|----------------|------------|--------|---------------------------------------|------------------|
| ZNACKA MATERIALU           | 11 600         |            | T.O.   | HMOTNOST kg                           | MIERKA 1:2       |
| ZNACKA MATERIALU           |                |            |        |                                       |                  |
| POM.ZARIADENIE             |                |            |        | STN                                   | TR.C.            |
| VYPRACOVAL : Bc. Hrabovsky |                | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :                |                |            |        |                                       |                  |
| TECHNOLOG :                |                | SCHVALIL:  |        | STARY V.                              | C. v. MN 4 B 009 |
| NAZOV                      | Prizm. čelust' |            |        | LISTOV                                | LIST             |

1

2

3

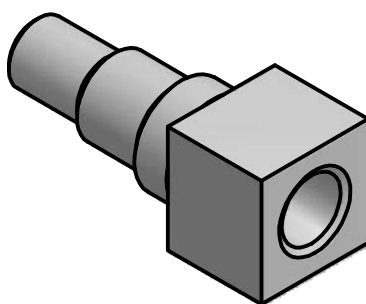
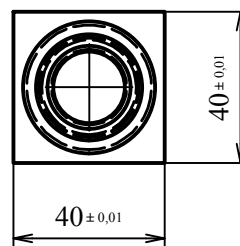
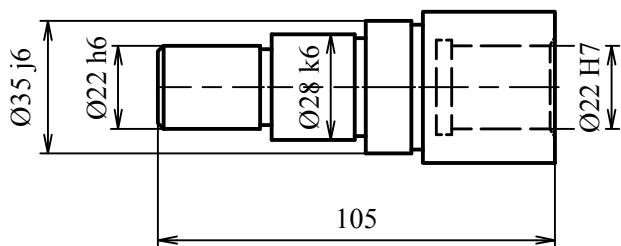
4

 $\sqrt{Ra\ 0,8}$ 

| INDEX                      | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
|----------------------------|-------|------------|--------|---------------------------------------|------------------|
| ZNACKA MATERIALU 11 600    |       |            | T.O.   | HMOTNOST kg                           | MIERKA 1:2       |
| ZNACKA MATERIALU           |       |            |        |                                       |                  |
| POM.ZARIADENIE             |       |            |        | STN                                   | TR.C.            |
| VYPRACOVAL : Bc. Hrabovsky |       | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :                |       |            |        |                                       |                  |
| TECHNOLOG :                |       | SCHVALIL:  |        | STARY V.                              | C. v. MN 4 B 010 |
| NAZOV<br>Základňa          |       |            |        | LISTOV                                | LIST             |

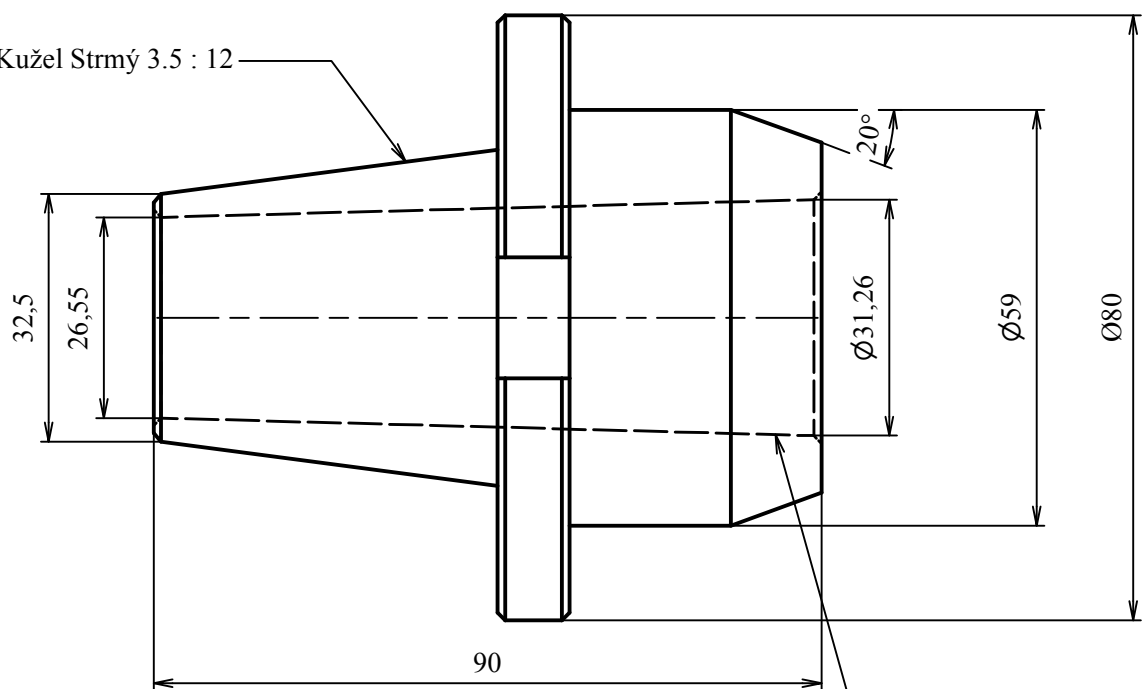
1 2 3 4

$\sqrt{Ra\ 0,8}$

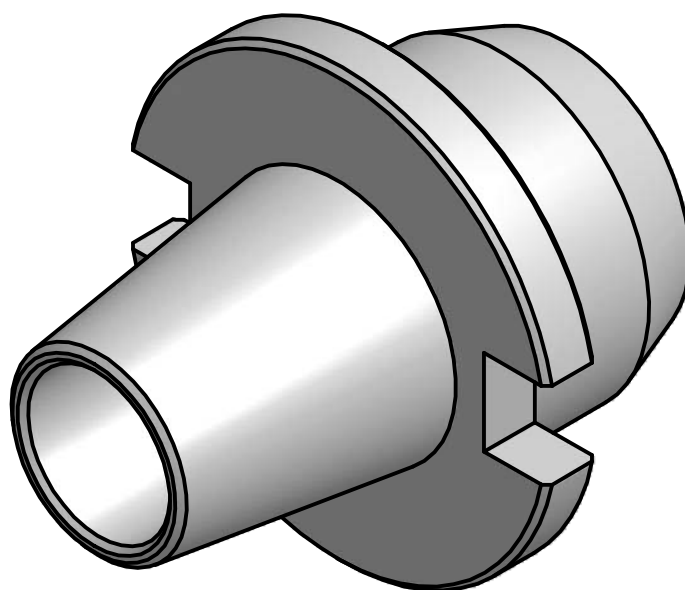


| INDEX                      | ZMENA | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
|----------------------------|-------|------------|--------|---------------------------------------|------------------|
| ZNACKA MATERIALU           |       |            | T.O.   | HMOTNOST kg                           | MIERKA 1:2       |
| ZNACKA MATERIALU           |       |            |        |                                       |                  |
| POM.ZARIADENIE             |       |            |        | STN                                   | TR.C.            |
| VYPRACOVAL : Bc. Hrabovsky |       | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :                |       |            |        |                                       |                  |
| TECHNOLOG :                |       | SCHVALIL:  |        | STARÝ V.                              | C. v. MN 4 B 011 |
| NAZOV                      | Čap   |            |        | LISTOV                                | LIST             |

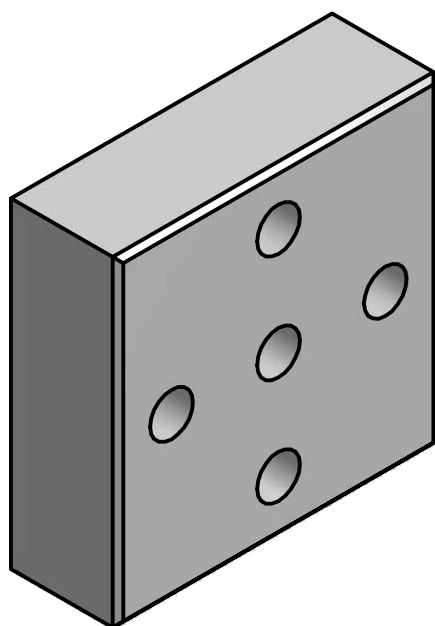
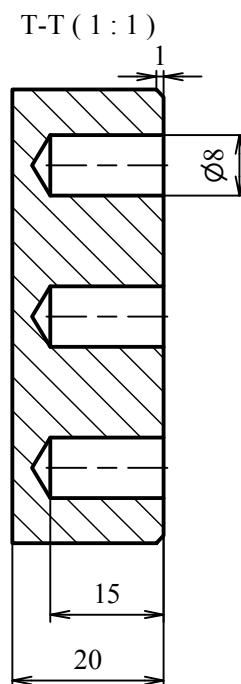
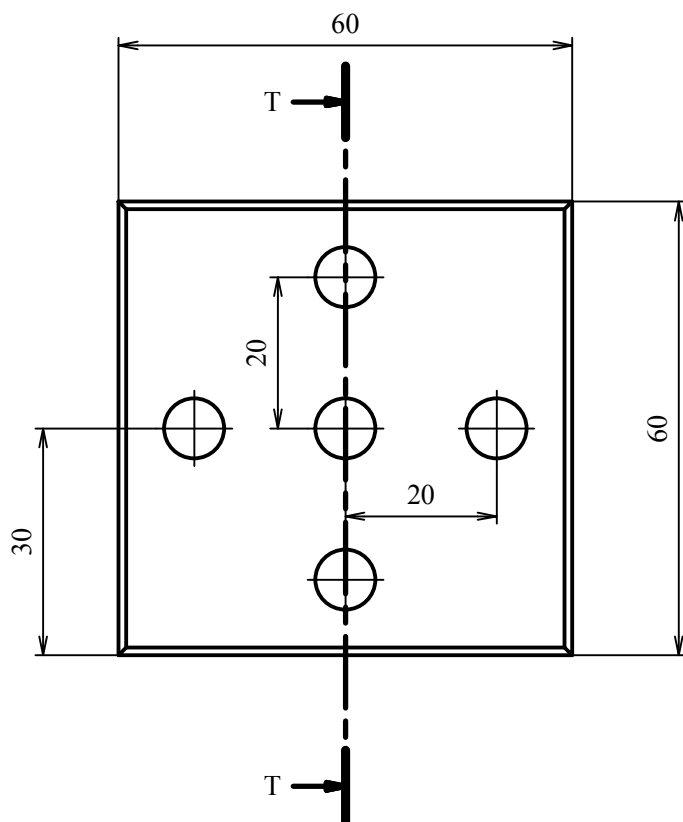
Kužel Strmý 3.5 : 12



Kužel Morse 4

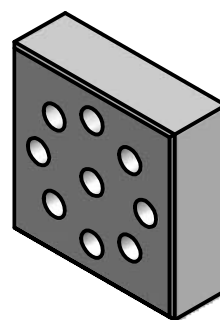
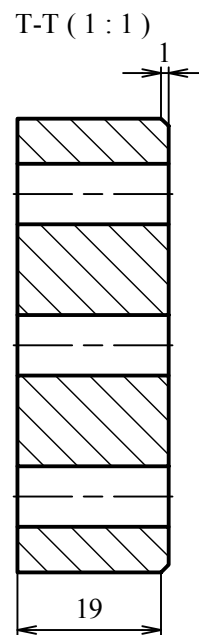
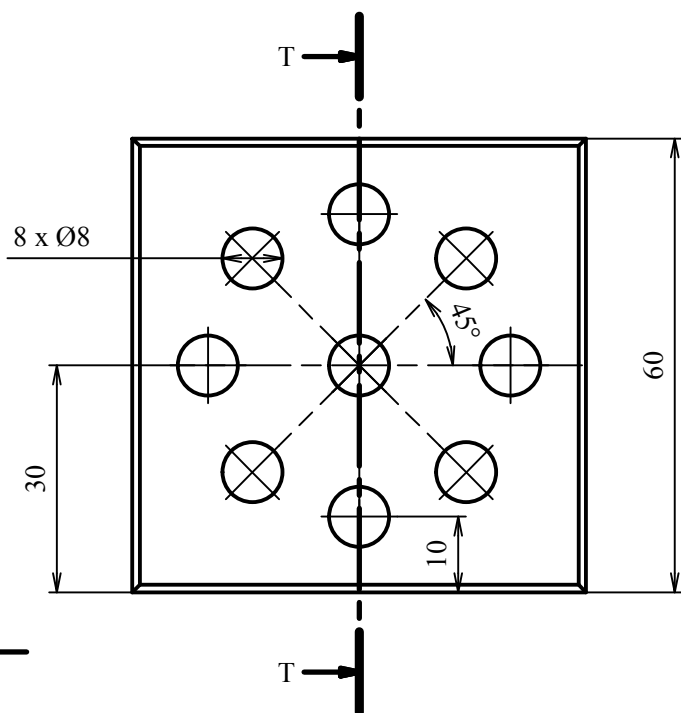


| INDEX                      | ZMENA           | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAŽSKÁ BYSTRICA |                  |
|----------------------------|-----------------|------------|--------|---------------------------------------|------------------|
| ZNACKA MATERIALU           |                 |            | T.O.   | HMOTNOST kg                           | MIERKA 1:1       |
| ZNACKA MATERIALU           |                 |            |        |                                       |                  |
| POM.ZARIADENIE             |                 |            |        | STN                                   | TR.C.            |
| VYPRACOVAL : Bc. Hrabovsky |                 | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU      |
| PRESKUSAL :                |                 |            |        |                                       |                  |
| TECHNOLOG :                |                 | SCHVALIL:  |        | STARÝ V.                              | C. V. MN 4 B 012 |
| NAZOV                      | Redukčná vložka |            |        |                                       |                  |
|                            |                 |            |        | LISTOV                                | LIST             |

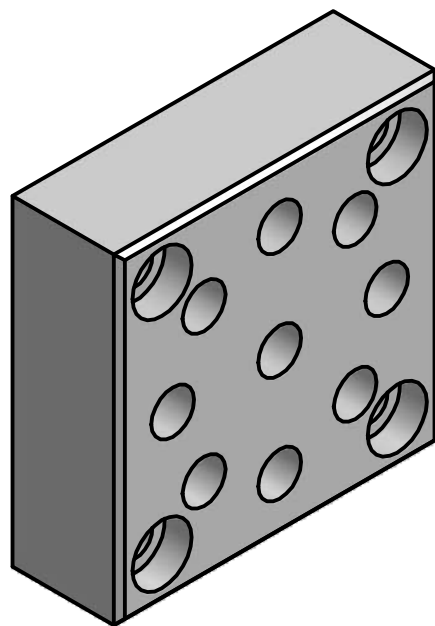
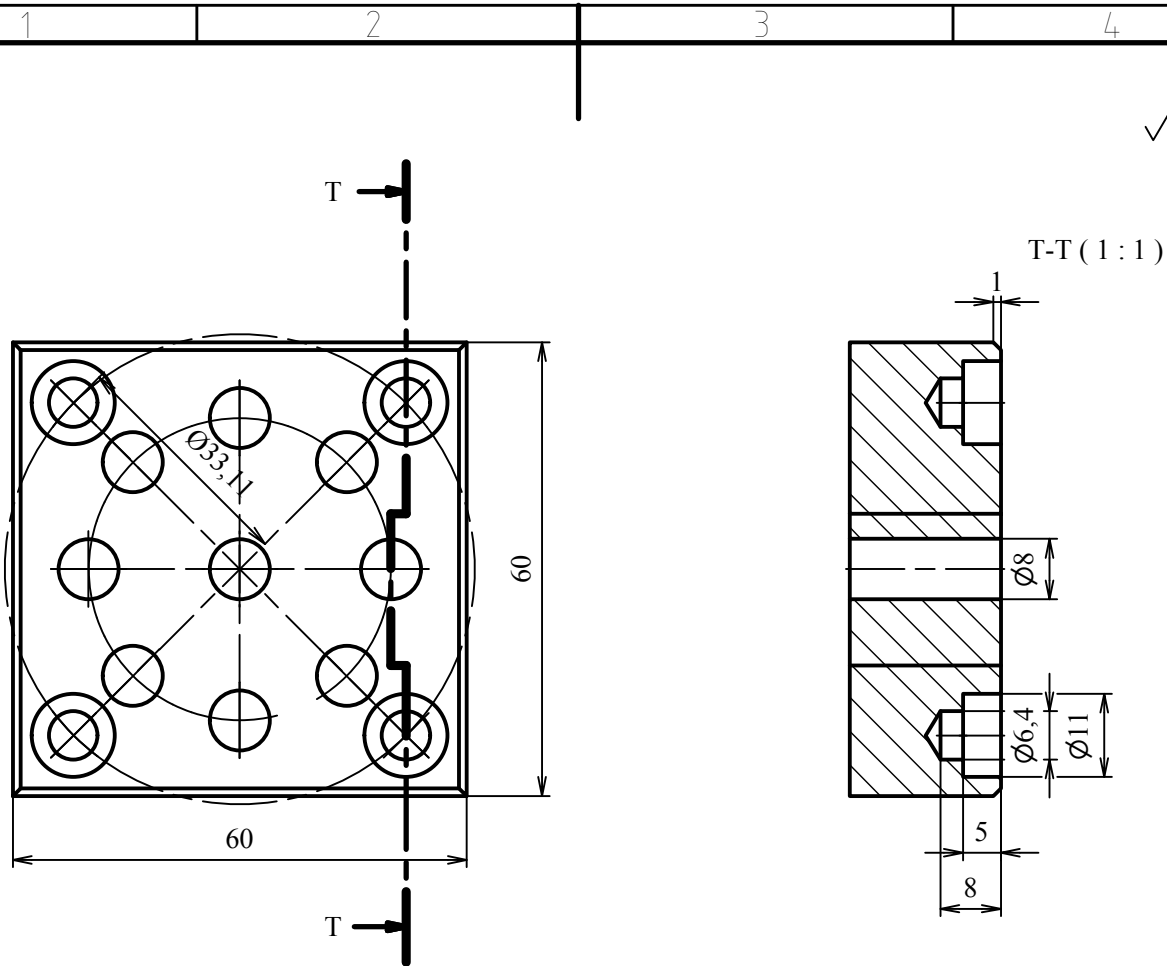


|                               |       |            |        |                                                     |                   |
|-------------------------------|-------|------------|--------|-----------------------------------------------------|-------------------|
| INDEX                         | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAZSKA BYSTRICA</b> |                   |
|                               |       |            |        |                                                     |                   |
| ZNACKA MATERIALU 11.600       |       | T.O.       |        | HMOTNOST kg                                         | MIERKA 1 : 1      |
| ZNACKA MATERIALU 60x60x20     |       |            |        |                                                     |                   |
| POM.ZARIADENIE                |       |            |        | STN                                                 | TR.C.             |
| VYPRACOVAL : Bc. Kresáň Jozef |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU       |
| PRESKUSAL :                   |       |            |        |                                                     |                   |
| TECHNOLOG :                   |       | SCHVALIL:  |        | STARY V.                                            | C. V. MN-4-VR-001 |
| NAZOV                         |       |            |        |                                                     |                   |
| <b>KOCKA</b>                  |       |            |        |                                                     |                   |
|                               |       |            |        |                                                     |                   |
|                               |       |            |        | LISTOV                                              | LIST              |

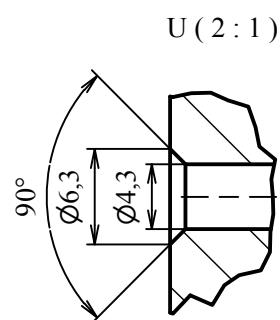
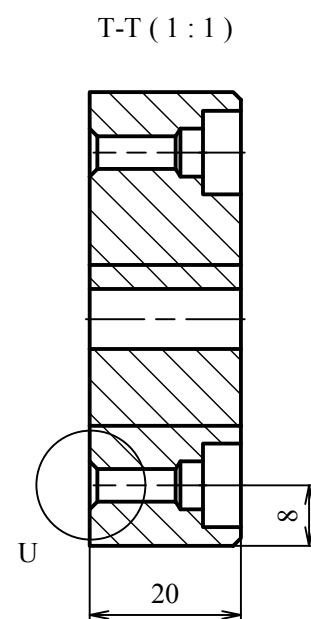
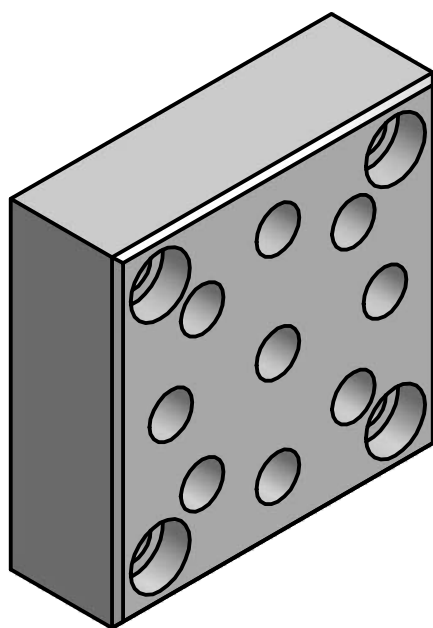
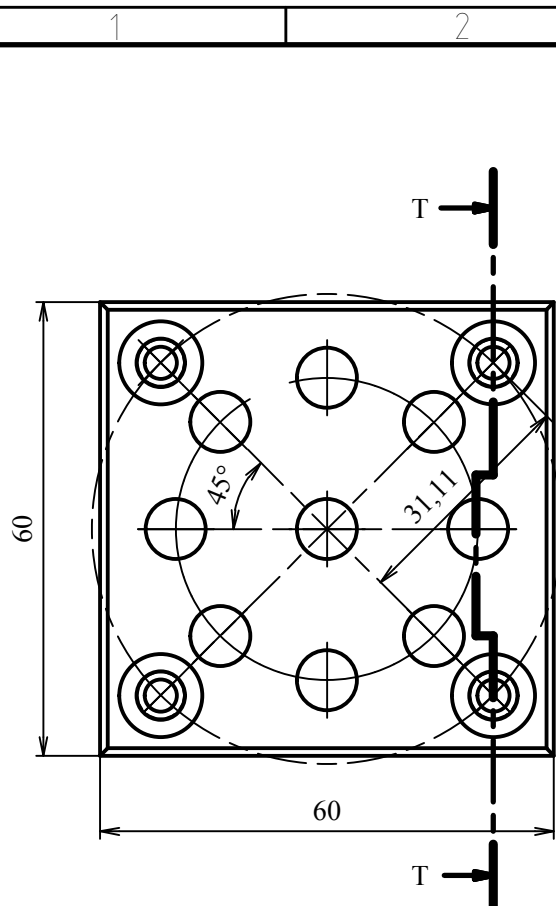
√ Ra 1.6



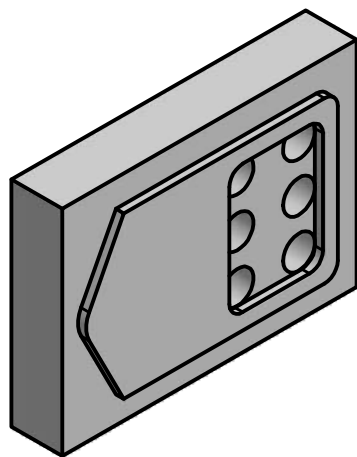
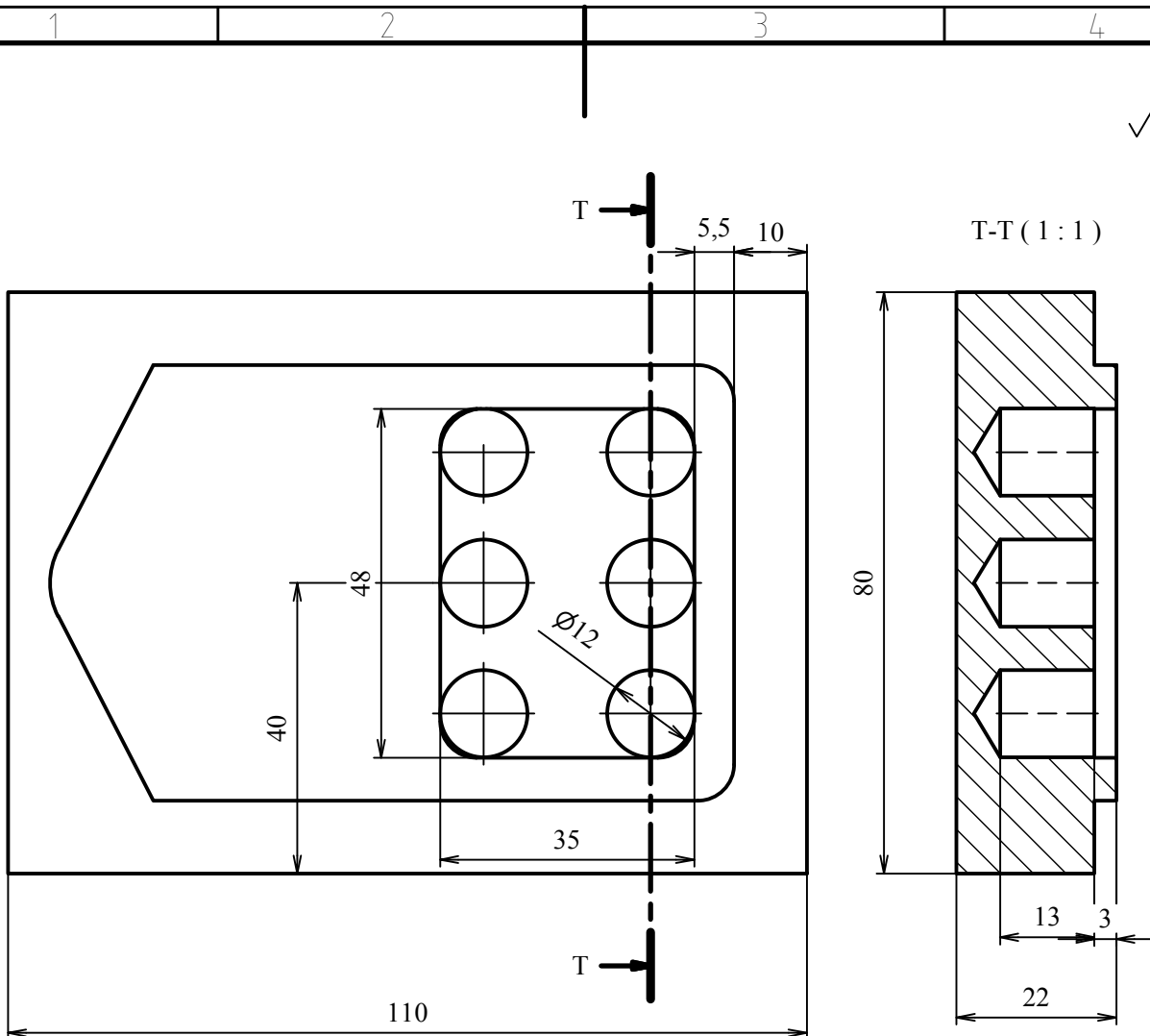
|                               |       |            |        |                                                     |                   |
|-------------------------------|-------|------------|--------|-----------------------------------------------------|-------------------|
| INDEX                         | ZMENA | DATUM      | PODPIS | <b>SOŠ - Strojnícka</b><br><b>POVAZSKA BYSTRICA</b> |                   |
|                               |       |            |        |                                                     |                   |
| ZNACKA MATERIALU 11.600       |       | T.O.       |        | HMOTNOST kg                                         | MIERKA 1 : 1      |
| ZNACKA MATERIALU 60x60x20     |       |            |        |                                                     |                   |
| POM.ZARIADENIE                |       |            |        | STN                                                 | TR.C.             |
| VYPRACOVAL : Bc. Kresáň Jozef |       | NORM. REF. |        | POZNAMKA                                            | C.KUSOVNIKU       |
| PRESKUSAL :                   |       |            |        |                                                     |                   |
| TECHNOLOG :                   |       | SCHVALIL:  |        | STARY V.                                            | C. V. MN-4-VR-002 |
| NAZOV                         |       |            |        |                                                     |                   |
| <b>KOCKA</b>                  |       |            |        |                                                     |                   |
|                               |       |            |        |                                                     |                   |
|                               |       |            |        | LISTOV                                              | LIST              |



| INDEX            | ZMENA            | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAZSKA BYSTRICA |                   |
|------------------|------------------|------------|--------|---------------------------------------|-------------------|
| ZNACKA MATERIALU | 11.600           |            | T.O.   | HMOTNOST kg                           | MIERKA 1 : 1      |
| ZNACKA MATERIALU | 60x60x20         |            |        |                                       |                   |
| POM.ZARIADENIE   |                  |            |        | STN                                   | TR.C.             |
| VYPRACOVAL :     | Bc. Kresáň Jozef | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU       |
| PRESKUSAL :      |                  |            |        |                                       |                   |
| TECHNOLOG :      |                  | SCHVALIL:  |        | STARY V.                              | C. V. MN-4-VR-003 |
| NAZOV            | KOCKA            |            |        | LISTOV                                | LIST              |



| INDEX            | ZMENA            | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAZSKA BYSTRICA |                        |
|------------------|------------------|------------|--------|---------------------------------------|------------------------|
| ZNACKA MATERIALU | 11.600           |            | T.O.   | HMOTNOST kg                           | MIERKA<br><b>1 : 1</b> |
| ZNACKA MATERIALU | 60x60x20         |            |        |                                       |                        |
| POM.ZARIADENIE   |                  |            |        | STN                                   | TR.C.                  |
| VYPRACOVAL :     | Bc. Kresáň Jozef | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU            |
| PRESKUSAL :      |                  |            |        |                                       |                        |
| TECHNOLOG :      |                  | SCHVALIL:  |        | STARY V.                              | C. V. MN-4-VR-004      |
| NAZOV            | <b>KOCKA</b>     |            |        |                                       |                        |
|                  |                  |            |        | LISTOV                                | LIST                   |



| INDEX            | ZMENA            | DATUM      | PODPIS      | <b>SOŠ - Strojnícka<br/>POVAZSKA BYSTRICA</b> |       |
|------------------|------------------|------------|-------------|-----------------------------------------------|-------|
| ZNACKA MATERIALU | DREVO            | T.O.       | HMOTNOST kg | MIERKA                                        | 1 : 1 |
| ZNACKA MATERIALU | 25x90x120        |            |             |                                               |       |
| POM.ZARIADENIE   |                  |            | STN         | TR.C.                                         |       |
| VYPRACOVAL :     | Bc. Kresák Jozef | NORM. REF. | POZNAMKA    | C.KUSOVNIKU                                   |       |
| PRESKUSAL :      |                  |            |             |                                               |       |
| TECHNOLOG :      | SCHVALIL:        | STARY V.   | C. V.       | MN-4-VR-005                                   |       |
| NAZOV            | <b>PODLOŽKA</b>  |            |             | LISTOV                                        | LIST  |

1

2

3

4

 $\sqrt{Ra\ 1.6}$ 

A

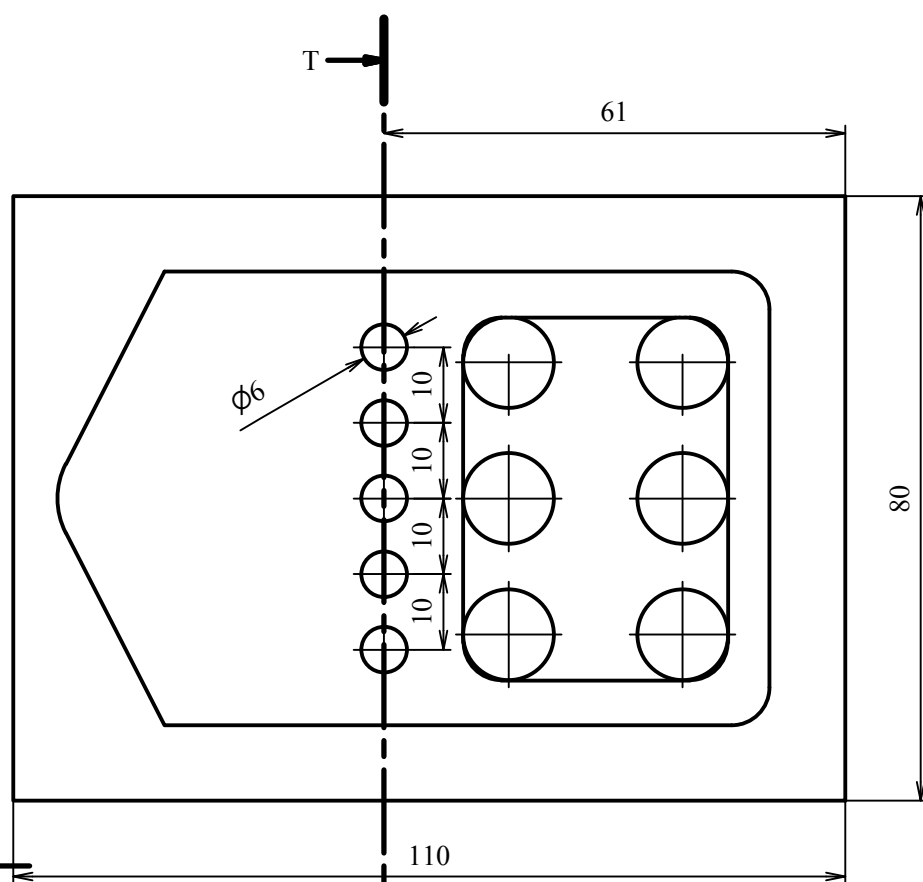
B

C

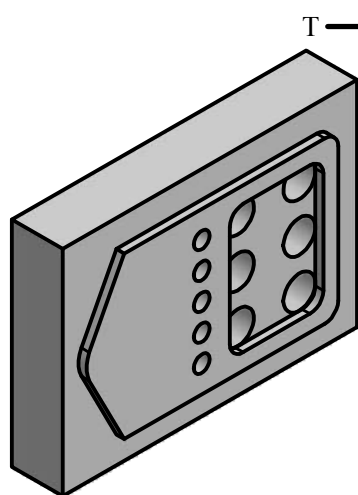
D

E

F



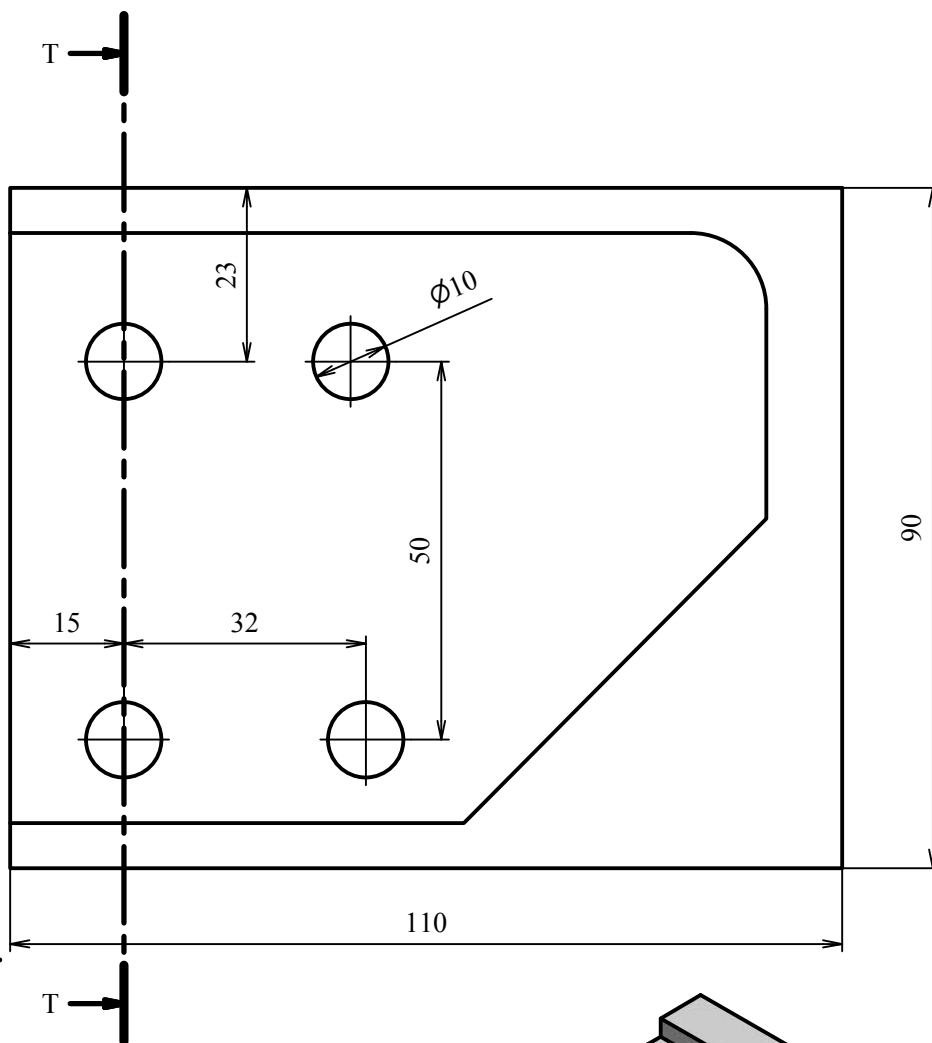
T-T (1 : 1)



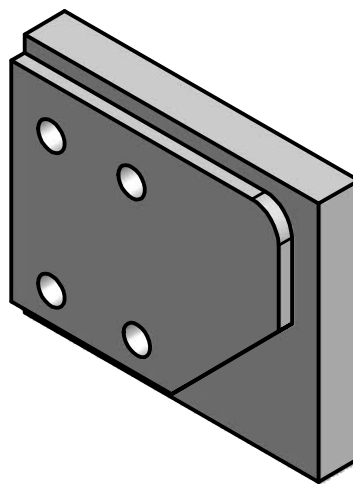
|                  |                  |            |             |                                                     |              |
|------------------|------------------|------------|-------------|-----------------------------------------------------|--------------|
| INDEX            | ZMENA            | DATUM      | PODPIS      | <b>SOŠ - Strojnícka</b><br><b>POVAZSKA BYSTRICA</b> |              |
| ZNACKA MATERIALU | DREVO            | T.O.       | HMOTNOST kg | MIERKA                                              | <b>1 : 1</b> |
| ZNACKA MATERIALU | 25x90x120        |            |             |                                                     |              |
| POM.ZARIADENIE   |                  |            | STN         | TR.C.                                               |              |
| VYPRACOVAL :     | Bc. Kresán Jozef | NORM. REF. | POZNAMKA    | C.KUSOVNIKU                                         |              |
| PRESKUSAL :      |                  |            |             |                                                     |              |
| TECHNOLOG :      | SCHVALIL:        | STARY V.   | C. V.       | MN-4-VR-006                                         |              |
| NAZOV            | <b>PODLOŽKA</b>  |            |             | LISTOV                                              | LIST         |

1 2 3 4

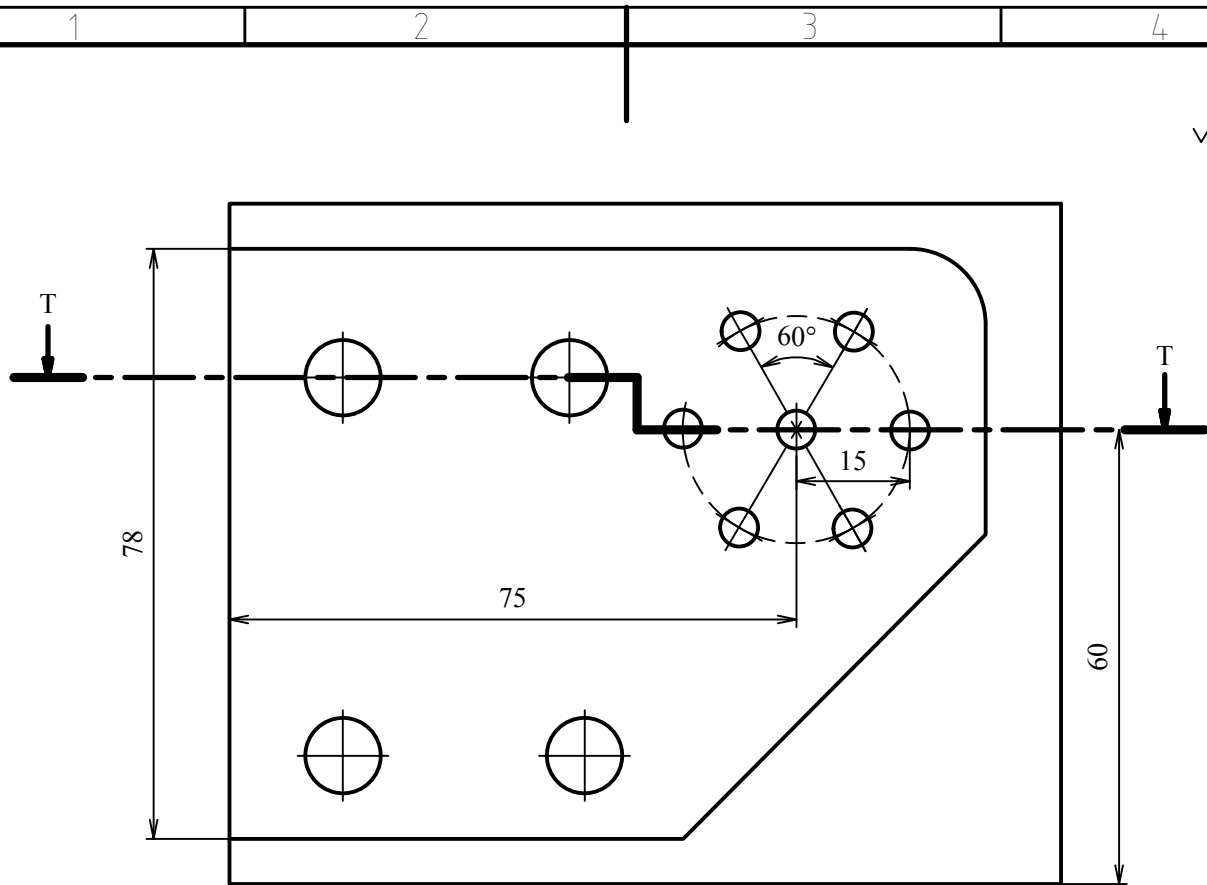
√ Ra 1.6



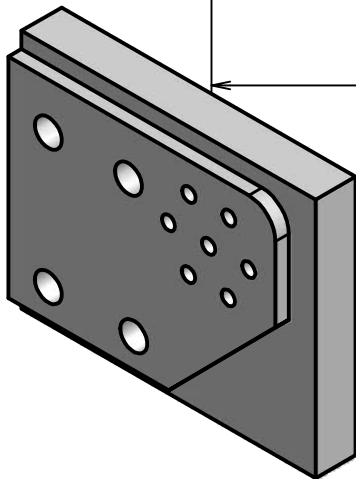
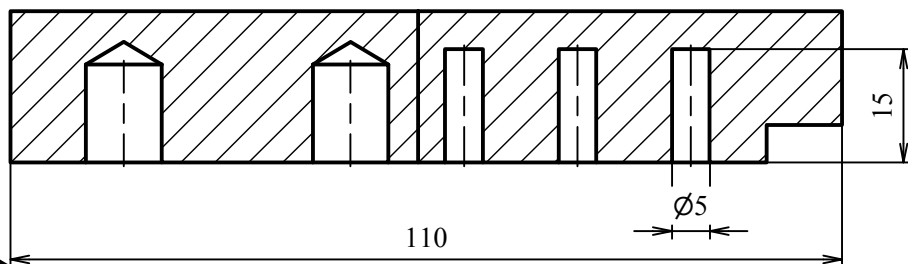
T-T (1 : 1)



|                               |       |       |            |                                                     |                   |
|-------------------------------|-------|-------|------------|-----------------------------------------------------|-------------------|
| INDEX                         | ZMENA | DATUM | PODPIS     | <b>SOŠ - Strojnícka</b><br><b>POVAZSKA BYSTRICA</b> |                   |
|                               |       |       |            |                                                     |                   |
| ZNACKA MATERIALU DREVO        |       |       |            | HMOTNOST kg                                         | MIERKA 1 : 1      |
| ZNACKA MATERIALU 95x105x22    |       |       |            | T.O.                                                |                   |
| POM.ZARIADENIE                |       |       |            | STN                                                 | TR.C.             |
| VYPRACOVAL : Bc. Kresáň Jozef |       |       | NORM. REF. | POZNAMKA                                            | C.KUSOVNIKU       |
| PRESKUSAL :                   |       |       |            |                                                     |                   |
| TECHNOLOG :                   |       |       | SCHVALIL:  | STARY V.                                            | C. V. MN-4-VR-007 |
| NAZOV                         |       |       |            |                                                     |                   |
| <b>VLOŽKA</b>                 |       |       |            | LISTOV                                              | LIST              |
|                               |       |       |            |                                                     |                   |

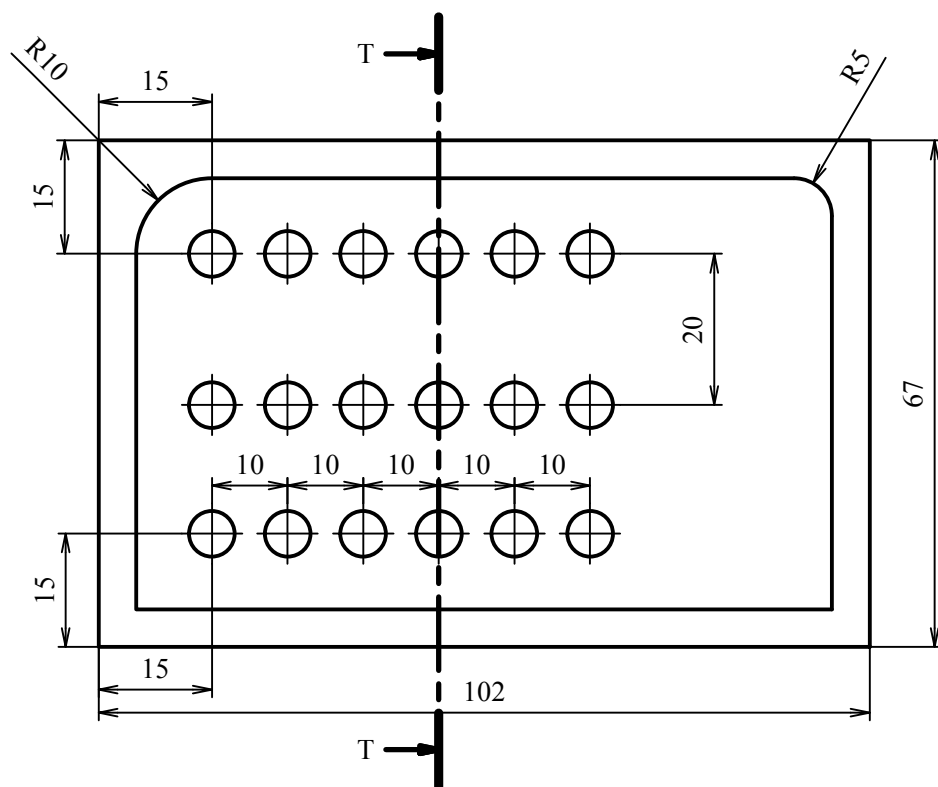


T-T (1 : 1)

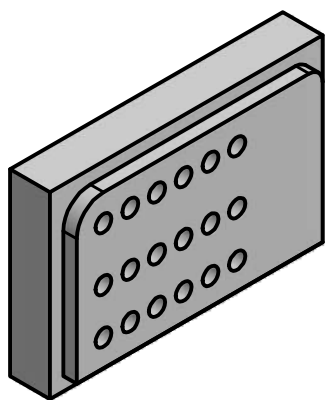
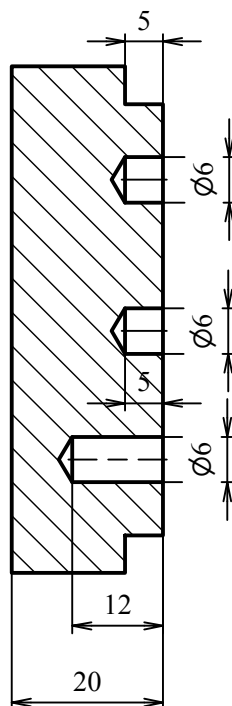


| INDEX            | ZMENA            | DATUM      | PODPIS | SOŠ - Strojnícka<br>POVAZSKA BYSTRICA |             |
|------------------|------------------|------------|--------|---------------------------------------|-------------|
| ZNACKA MATERIALU | DREVO            | T.O.       |        | HMOTNOST kg                           | MIERKA      |
| ZNACKA MATERIALU | 95x115x22        |            |        |                                       | 1 : 1       |
| POM.ZARIADENIE   |                  |            |        | STN                                   | TR.C.       |
| VYPRACOVAL :     | Bc. Kresáň Jozef | NORM. REF. |        | POZNAMKA                              | C.KUSOVNIKU |
| PRESKUSAL :      |                  |            |        | STARY V.                              | C. V.       |
| TECHNOLOG :      |                  | SCHVALIL:  |        |                                       | MN-4-VR-008 |
| NAZOV            |                  |            |        | LISTOV                                | LIST        |

√ Ra 1.6



T-T (1 : 1)



|                               |       |       |            |                                                     |                   |
|-------------------------------|-------|-------|------------|-----------------------------------------------------|-------------------|
| INDEX                         | ZMENA | DATUM | PODPIS     | <b>SOŠ - Strojnícka</b><br><b>POVAZSKA BYSTRICA</b> |                   |
|                               |       |       |            |                                                     |                   |
| ZNACKA MATERIALU DREVO        |       |       |            | HMOTNOST kg                                         | MIERKA 1 : 1      |
| ZNACKA MATERIALU 70x105x22    |       |       |            |                                                     |                   |
| POM.ZARIADENIE                |       |       |            | STN                                                 | TR.C.             |
| VYPRACOVAL : Bc. Kresáň Jozef |       |       | NORM. REF. | POZNAMKA                                            | C.KUSOVNIKU       |
| PRESKUSAL :                   |       |       |            |                                                     |                   |
| TECHNOLOG :                   |       |       | SCHVALIL:  | STARY V.                                            | C. V. MN-4-VR-009 |
| NAZOV                         |       |       |            |                                                     |                   |
|                               |       |       |            | LISTOV                                              | LIST              |