Serie **Extend**









Extend 800.620

Operating instructions

Before transporting and using the machine, please read the instructions thoroughly!



Service and information

Your BOMAR dealer:	

Direct BOMAR contact: BOMAR spol. s r.o. telefon: +420 - 533 426 100 Těžební 1236/1 +420 - 533 426 109 62700 Brno e-mail: info@bomar.cz Czech Republic, EU www: http://www.bomar.cz We are available: $7^{00} - 16^{00}$ Mondays to Fridays Version: 2.06 / Feb. 2013 rev. 1 **BOMAR, spol. s r.o.** © – Subject to modifications and amendments.



EC Declaration of Conformity

1) We

BOMAR, spol. s r.o. Těžební 1236/1 627 00 Brno, The Czech Republic Id.no: 48908827

declare herewith,

that the following designated device based on its conception and construction as well as the design launched by us meets the relevant basic safety requirements of the decrees of the government. In the event of any device modification not approved by us this declaration shall lose its validity.

Manufacturer: BOMAR, spol. s r.o., Těžební 1236/1, 627 00 Brno

Product data

Determination: for cross dividing and cutting of rolled and towed bars and profiles made of steel,

stainless steel, non-ferrous metals and plastics.

Description: stand, table, cutting unit with the saw band and drive, clamping device, Hydraulic, cooling

system, el. switch board with control panel.

Technical data: Cutting rate 15–90.m.min⁻¹, cutting angle 0°

Total dimensions in mm (I × w × h) 3500×1000×2330 mm,

Supply voltage 3×400(230) V, total power requirement 8,2 (10,1) kW, weight 4200 kg

The applied decrees of governments: No. 17/2003 Coll. (Directive 73/23/EEC)

No. 616/2006 Coll. (Directive 2004/108/EC) No. 17/2003 Coll. (Directive 2006/95/EC)

The applied harmonized standards,

National standards and technical specifications: ČSN EN ISO 12 100-2:2004, ČSN EN 13 898 + A1:2009, ČSN EN ISO 13857:2008, ČSN EN 982 + A1:2008, ČSN EN 61000-6-2 ed.3:2006, ČSN EN 61000-6-4 ed.2:2007, ČSN EN 60204-1 ed.2:2007

The product is safe on condition of the common and determined usage.

The conformity judging was performed according to §12, par. 3, let. a), of the Law no. 22/1997 Coll. as amended

2) ²⁾ The declaration of conformity was carried out in the cooperation with the TÜV CZ s.r.o., Novodvorská 994, 142 21

Prague 4 – Czech Republic, Identification number: 63987121 - Inspection body no. 4002

The inspection certificate no . 01.125.728/09/07/02/0 was issued.

BOMAR, spol. s r.o. Těžební 1236/1, 627 00 Bmo Czech Republic IČO: 48908827 DIČ: CZ48908827

Alfred Pichlmann, Managing Director

Point of issue, datum Name and function Signature

of the responsible subject
1] Name, address and identification number of the subject issuing the conformity declaration (producer of importer)

2) The authorized or accredited body co-operating on the conformity judging





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AS	7.1. Extend 800.620. 7.2. Kusovník / Stückliste / Piece list — Extend 800.620. 7.3. Rameno / Sägerahmen / Saw arm - 1. 7.4. Kusovník / Stückliste / Piece list — Extend 800.620. 7.5. Rameno / Sägerahmen / Saw arm - 1. 7.6. Kusovník / Stückliste / Piece list — Rameno / Sägerahmen / Saw arm - 1. 7.7. Podstavec / Untersatz / Base. 7.7. Podstavec / Untersatz / Base. 7.8. Kusovník / Stückliste / Piece list — Podstavec / Untersatz / Base. 7.9. Pohon / Antrieb / Drive. 7.10. Kusovník / Stückliste / Piece list — Pohon / Antrieb / Drive. 7.11. Svěrák / Schraubstock / Vice. 7.13. Válec svěráku / Schraubstock / Vice. 7.14. Kusovník / Stückliste / Piece list — Válec svěrák / Schraubstock / Vice . 7.15. Válec svěráku / Schraubstockzylinder / Vice cylinder. 7.16. Kusovník / Stückliste / Piece list — Válec svěrák / Schraubstockzylinder / Vice cylinder. 7.17. Napínání / Spannung / Tensioning. 7.18. Kusovník / Stückliste / Piece list — Válec zvedací / Hebezylinder / Lifting cylinder. 7.19. Vedení pásu / Sägebandführung / Belt guide. 7.20. Kusovník / Stückliste / Piece list — Vedení pásu / Sägebandführung / Belt guide. 7.21. Vodící kostka / Führungsklotz / Guiding cube - 1. 7.22. Kusovník / Stückliste / Piece list — Vodící kostka / Führungsklotz / Guiding cube - 2. 7.24. Kusovník / Stückliste / Piece list — Vodící kostka / Führungsklotz / Guiding cube - 2. 7.24. Kusovník / Stückliste / Piece list — Vodící kostka / Führungsklotz / Guiding cube - 2. 7.24. Kusovník / Stückliste / Piece list — Vodící kostka / Führungsklotz / Guiding cube - 2.	93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 118 119 111 112 113 114 115 116
AS	7.1. Extend 800.620. 7.2. Kusovník / Stückliste / Piece list – Extend 800.620. 7.3. Rameno / Sägerahmen / Saw arm - 1. 7.4. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 1. 7.5. Rameno / Sägerahmen / Saw arm - 2. 7.6. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 2. 7.7. Podstavec / Untersatz / Base. 7.8. Kusovník / Stückliste / Piece list – Podstavec / Untersatz / Base. 7.9. Pohon / Antrieb / Drive. 7.10. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive. 7.11. Svěrák / Schraubstock / Vice. 7.12. Kusovník / Stückliste / Piece list – Válec svěrák / Schraubstock / Vice. 7.13. Válec svěráku / Schraubstockzylinder / Vice cylinder. 7.14. Kusovník / Stückliste / Piece list – Válec svěráku / Schraubstockzylinder / Vice cylinder. 7.15. Válec zvedací / Hebezylinder / Lifting cylinder. 7.16. Kusovník / Stückliste / Piece list – Válec zvedací / Hebezylinder / Lifting cylinder. 7.17. Napínání / Spannung / Tensioning. 7.18. Kusovník / Stückliste / Piece list – Napínání / Spannung / Tensioning. 7.19. Vedení pásu / Sägebandführung / Belt guide. 7.20. Kusovník / Stückliste / Piece list – Vedení pásu / Sägebandführung / Belt guide. 7.21. Vodící kostka / Führungsklotz / Guiding cube - 1. 7.22. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 2. 7.23. Vodící kostka / Führungsklotz / Guiding cube - 2. 7.24. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 2. 7.25. Třískový vynašeč / Spanabführung / Chip extractor.	93 94 95 96 97 98 99 99 100 101 102 103 104 105 106 1107 118 111 112 113 114 115 116 116 117
AS 77 77 77 77 77 77 77 77 77 77 77 77 77	7.1. Extend 800.620. 7.2. Kusovník / Stückliste / Piece list – Extend 800.620. 7.3. Rameno / Sägerahmen / Saw arm - 1. 7.4. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 1. 7.5. Rameno / Sägerahmen / Saw arm - 2. 7.6. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 2. 7.7. Podstavec / Untersatz / Base. 7.8. Kusovník / Stückliste / Piece list – Podstavec / Untersatz / Base. 7.9. Pohon / Antrieb / Drive. 7.10. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive. 7.11. Svěrák / Schraubstock / Vice. 7.12. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive. 7.13. Válec svěráku / Schraubstockzylinder / Vice cylinder. 7.14. Kusovník / Stückliste / Piece list – Válec svěráku / Schraubstockzylinder / Vice cylinder. 7.15. Válec zvedací / Hebezylinder / Lifting cylinder. 7.16. Kusovník / Stückliste / Piece list – Válec zvedací / Hebezylinder / Lifting cylinder. 7.17. Napínání / Spannung / Tensioning. 7.18. Kusovník / Stückliste / Piece list – Napínání / Spannung / Tensioning. 7.19. Vedení pásu / Sägebandführung / Belt guide. 7.20. Kusovník / Stückliste / Piece list – Vedení pásu / Sägebandführung / Belt guide. 7.21. Vodící kostka / Führungsklotz / Guiding cube - 1. 7.22. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 1. 7.23. Válocí kostka / Führungsklotz / Guiding cube - 2. 7.24. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 2. 7.25. Třískový vynašeč / Spanabführung / Chip extractor. 7.26. Kusovník / Stückliste / Piece list – Třískový vynašeč / Spanabführung / Chip extractor.	93 94 95 96 97 98 99 99 100 101 102 103 104 105 106 117 118 111 111 112 113 114 115 116 117 118
AS 77 77 77 77 77 77 77 77 77 77 77 77 77	7.1. Extend 800.620. 7.2. Kusovník / Stückliste / Piece list – Extend 800.620. 7.3. Rameno / Sägerahmen / Saw arm - 1. 7.4. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 1. 7.5. Rameno / Sägerahmen / Saw arm - 2. 7.6. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 2. 7.7. Podstavec / Untersatz / Base. 7.8. Kusovník / Stückliste / Piece list – Podstavec / Untersatz / Base. 7.9. Pohon / Antrieb / Drive. 7.10. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive. 7.11. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive. 7.12. Kusovník / Stückliste / Piece list – Svěrák / Schraubstock / Vice. 7.13. Válec svěráku / Schraubstock / Vice. 7.14. Kusovník / Stückliste / Piece list – Válec svěráku / Schraubstockzylinder / Vice cylinder. 7.15. Válec zvedací / Hebezylinder / Lifting cylinder / Lifting cylin	93 9495969697989999100101102103104105106107108110111112113114115116117118118119119
AS 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7.1. Extend 800.620. 7.2. Kusovník / Stückliste / Piece list – Extend 800.620. 7.3. Rameno / Sägerahmen / Saw arm - 1. 7.4. Kusovník / Stückliste / Piece list – Bameno / Sägerahmen / Saw arm - 1. 7.5. Rameno / Sägerahmen / Saw arm - 2. 7.6. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 2. 7.7. Podstavec / Untersatz / Base. 7.8. Kusovník / Stückliste / Piece list – Podstavec / Untersatz / Base. 7.9. Pohon / Antrieb / Drive. 7.10. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive. 7.11. Svěrák / Schraubstock / Vice. 7.13. Válec svěráku / Schraubstock / Vice. 7.14. Kusovník / Stückliste / Piece list – Svěrák / Schraubstock / Vice. 7.15. Válec svěráku / Schraubstockzylinder / Vice cylinder. 7.16. Kusovník / Stückliste / Piece list – Válec svěráku / Schraubstockzylinder / Vice cylinder. 7.17. Napínání / Spannung / Tensioning. 7.18. Kusovník / Stückliste / Piece list – Válec zvedací / Hebezylinder / Lifting cylinder. 7.19. Vedení pásu / Sägebandführung / Belt guide. 7.20. Kusovník / Stückliste / Piece list – Vedení pásu / Sägebandführung / Belt guide. 7.21. Kusovník / Stückliste / Piece list – Vedení pásu / Sägebandführung / Belt guide. 7.22. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 1. 7.23. Vodící kostka / Führungsklotz / Guiding cube - 2. 7.24. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 2. 7.25. Třískový vynáše / Spanabführung / Chip extractor. 7.26. Kusovník / Stückliste / Piece list – Třískový vynáše / Spanabführung / Chip extractor. 7.27. Ovladací pult / Bedienpult / Control panel.	93 949596969697989900101102103104105106107108109111112113114115116117118118119119119
AS 77 77 77 77 77 77 77 77 77 77 77 77 77	7.1. Extend 800.620. 7.2. Kusovník / Stückliste / Piece list – Extend 800.620. 7.3. Rameno / Sägerahmen / Saw arm - 1. 7.4. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 1. 7.5. Rameno / Sägerahmen / Saw arm - 2. 7.6. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 2. 7.7. Podstavec / Untersatz / Base. 7.8. Kusovník / Stückliste / Piece list – Podstavec / Untersatz / Base. 7.9. Pohon / Antrieb / Drive. 7.10. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive. 7.11. Svěrák / Schraubstock / Vice. 7.12. Kusovník / Stückliste / Piece list – Válec svěrák / Schraubstock / Vice. 7.13. Válec svěráku / Schraubstockzylinder / Vice cylinder. 7.14. Kusovník / Stückliste / Piece list – Válec svěráku / Schraubstockzylinder / Vice cylinder. 7.15. Válec zvedací / Hebezylinder / Lifting cylinder. 7.16. Kusovník / Stückliste / Piece list – Válec zvedací / Hebezylinder / Lifting cylinder. 7.17. Napínání / Spannung / Tensioning. 7.18. Kusovník / Stückliste / Piece list – Napínání / Spannung / Tensioning. 7.19. Vedení pásu / Sägebandführung / Belt guide. 7.20. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 1. 7.22. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 1. 7.23. Vodící kostka / Führungsklotz / Guiding cube - 2. 7.24. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 2. 7.25. Třískový vynašeč / Spanabführung / Chip extractor. 7.26. Kusovník / Stückliste / Piece list – Třískový vynašeč / Spanabführung / Chip extractor. 7.27. Ovladací pult / Bedienpult / Control panel. 7.29. Chlazení / Kühlung / Cooling.	93 94 95 96 97 98 99 99 100 101 102 103 104 105 106 117 118 119 119 120 121
AS 77 77 77 77 77 77 77 77 77 77 77 77 77	7.1. Extend 800.620. 7.2. Kusovník / Stückliste / Piece list – Extend 800.620. 7.3. Rameno / Sägerahmen / Saw arm - 1. 7.4. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 1. 7.5. Rameno / Sägerahmen / Saw arm - 2. 7.6. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 2. 7.7. Podstavec / Untersatz / Base. 7.8. Kusovník / Stückliste / Piece list – Podstavec / Untersatz / Base. 7.9. Pohon / Antrieb / Drive. 7.10. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive. 7.11. Svěrák / Schraubstock / Vice. 7.12. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive. 7.13. Válec svěráku / Schraubstockzylinder / Vice cylinder. 7.14. Kusovník / Stückliste / Piece list – Válec svěráku / Schraubstockzylinder / Vice cylinder. 7.15. Válec zvedací / Hebezylinder / Lifting cylinder. 7.16. Kusovník / Stückliste / Piece list – Válec zvedací / Hebezylinder / Lifting cylinder. 7.17. Napínání / Spannung / Tensioning. 7.18. Kusovník / Stückliste / Piece list – Válec zvedací / Hebezylinder / Lifting cylinder. 7.19. Vedení pásu / Sägebandführung / Belt guide. 7.20. Kusovník / Stückliste / Piece list – Vedení pásu / Sägebandführung / Belt guide. 7.21. Vodící kostka / Führungsklotz / Guiding cube - 1. 7.22. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 2. 7.24. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 1. 7.25. Třískový vynašeč / Spanabführung / Chip extractor. 7.26. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 2. 7.27. Ovladací pult / Bedienpult / Control panel. 7.28. Kusovník / Stückliste / Piece list – Ovladací pult / Bedienpult / Control panel. 7.29. Chlazení / Kühlung / Cooling.	93 94 95 96 97 98 99 99 100 101 102 103 104 105 106 117 118 111 111 112 113 114 115 116 117 118 119 120 121
AS 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7.1. Extend 800.620. 7.2. Kusovník / Stückliste / Piece list – Extend 800.620. 7.3. Rameno / Sägerahmen / Saw arm - 1. 7.4. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 1. 7.5. Rameno / Sägerahmen / Saw arm - 2. 7.6. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 2. 7.7. Podstavec / Untersatz / Base. 7.8. Kusovník / Stückliste / Piece list – Podstavec / Untersatz / Base. 7.9. Pohon / Antrieb / Drive. 7.10. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive. 7.11. Svérák / Schraubstock / Vice. 7.12. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive. 7.13. Válec svéráku / Schraubstock / Vice. 7.14. Kusovník / Stückliste / Piece list – Válec svěrák / Schraubstockzylinder / Vice cylinder. 7.15. Válec zvedací / Hebezylinder / Lifting cylinder. 7.16. Kusovník / Stückliste / Piece list – Válec zvedací / Hebezylinder / Vice cylinder. 7.17. Napínání / Spannung / Tensioning. 7.18. Kusovník / Stückliste / Piece list – Válec zvedací / Hebezylinder / Lifting cylinder. 7.19. Vedení pásu / Sägebandführung / Belt guide. 7.20. Kusovník / Stückliste / Piece list – Vedení pásu / Sägebandführung / Belt guide. 7.21. Vodící kostka / Führungsklotz / Guiding cube - 1. 7.22. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 2. 7.24. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 2. 7.25. Tíškový vynašeč / Spanabführung / Chip extractor. 7.26. Kusovník / Stückliste / Piece list – Tíškový vynašeč / Spanabführung / Chip extractor. 7.27. Ovladací pult / Bedienpult / Control panel. 7.28. Kusovník / Stückliste / Piece list – Ovladací pult / Bedienpult / Control panel. 7.29. Chlazení / Kühlung / Cooling. 7.30. Kusovník / Stückliste / Piece list – Chlazení / Kühlung / Cooling. 7.31. Válec / Roller / Zvlinder	93 9495969697989999100101102103104105106107108109110111112113114115116117118119120121121122123
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1. Safety notes



8



The operating instructions must be read by the person, who keeps in touch with the machine before transportation, installation, using, servicing, reparation, stocking or removal!

The operating instructions include relevant information. The operator must familiarise himself with the install and operation, safety notes and machine servicing, because reliability and service life must be reached. The operating instructions must avoid risks, which are linked to work on the machine. Before transporting and using of the machine, please read the instructions thoroughly!

Attention!

The operating instructions must be available at the machine! Keep the operating instructions in good condition!

1.1. Machine determination

The band saw **Extend 800.620** is determined for cutting and shortening of rolled bars and drawn bars and profiles from steels, stainless steels, non-ferrous metals and plastics **without cutting angle**.

Combustible materials are excepted for cutting! Any other usage and operation outside this range are unauthorized and the manufacturer/supplier does not accept any responsibility for any damages resulting from such misuse. The operator has full responsibility!

The machine is equipped with safety and protective guarding for operator and machine protection. Nevertheless, this safety and protective guarding cannot prevent injury. Service personnel must read this chapter and comprehend it, before he starts to work on the machine. **Always keep instructions about work safety!** Service personnel must take into account other aspects of the risk, which refer to the ambient conditions and the material.

Attention!

Consider the safety signs on the machine. Do not remove or damage them!

1.2. Protective suit and personal safety

Wear tight fitting overalls! Loose fitting clothes may be caught with machine parts and cause serious injury.

Wear protective gloves! Material cuts and saw band have sharp edges and may cause serious injuries.

Attention!

Gloves you can use only at working material replacement (saw band)! The machine and accessories must be inactive! If the machine is running, you must not wear gloves! It is dangerous, because some parts of the machine can catch gloves!

Wear protective shoes with non-skid soles! The unsuitable shoes may cause balance loss and following injury. Falling work pieces may cause serious injuries too.

Wear protective goggles! Chips and cooling liquid may damage your eyes.

Always wear ear protections! Most of the machines emit up to 80 dB and may damage your hearing.

Do not wear jewellery and always tie back long hair! Moving machine parts can catch jewellery or loose hair and may cause serious injuries.

Operate the machine only when you are fit enough to work. Illnesses or injuries diminish concentration. Avoid machine work, which may compromise the safety of you and your colleagues!



1.3. Safety notes for machine operator

Attention!

Machine can be operated by person older than 18 years! Machine can be operated only person physically and mentally fit for this activity

Machine can be operated only by one person. Machine operator is responsible for presence of other persons by the machine.

Keep instructions and orders about work safety!

Read the operating instructions, before you start to work on the machine! Keep the operating instructions in good condition!

Close covers before the machine starting and check, if the covers are not damaged. Damaged covers must be repaired or changed. Do not start the machine, if the cover is removed! Check, if the electric cables are not damaged.

Attention!

Do not connect the machine to electricity if the covers are removed. Do not touch the electrical equipment.

- Do not hold the material for clamping to the vice and for cutting!
- Do not operate with the buttons and the switches on the control panel, when you have gloves!
- For machine starting take care, that there is nobody in the working area of the machine (it means in the working area of the vice, the saw band, the saw arm etc.).
- In no circumstances touch the rotating elements.
- Work on the machine only when the machine is in good condition!
- Check at least once in a shift, if the machine is not damaged. If the machine is damaged, you must bring the machine in order and you must inform your superior!
- Keep your working area clean! Ensure sufficient lighting in the working area.
- Take off the spilt water or the oil from the floor and dry it. Do not touch the
 cooling liquid with bare hands! Do not set the nozzle of the cooling liquid, when
 the machine is started on
- Do not remove the chips from the working area of the machine, when the machine is started on!
- Do not use the compressed air for the machine cleaning or for the chips removing!
- Use the protective instruments for chips removal!

1.4. Safety notes for the servicing and repairs

Attention!

Only a qualified professional can carry out the servicing and repairs of the electric equipment! Take special care during the work with electrical equipment. High voltage shock can have fatal consequences! Always keep notes about work safety! Otherwise, there is possibility of heavy injury!

Switch off the main switch and lock it, before you start service work! Otherwise, there is possibility of hazardous machine starting.

Only qualified person can do the servicing and repairs. For parts changing, use only parts, which are identical with the originals. Otherwise, there is possibility of health hazard. Use only recommended type of the hydraulic oils and oils and lubricants!

10

Manual version: 2.06 / Feb. 2013

Manual rev.:



Do not remove or do not lock the limit switches or safety equipments! Any use of the saw, accessories or machine parts other than that intended by the BOMAR, spol. s r.o. company is not permitted. The guarantee on this product will be afterward lost and BOMAR, spol. s r.o. takes no responsibility for caused damages.

1.5. Safety machine accessories

The machine is equipped with safety accessories. It protects the operator from injuries and the machine before damage. The safety accessories are blocking accessories, emergency switches and covers. Check once in a week the function of the safety accessories. If the safety accessories are functionless, you must stop work and repair or change the safety accessories.

Enhanced risk!

Do not come into or intervene in the cutting area. Otherwise, there is possibility of heavy injury.

1.5.1. Total Stop

TOTAL STOP button is used for emergency switching – off the machine in case defect or health hazard. By pressing **TOTAL STOP** button is interrupted the supply of the electrical power.

If any damages or fault appears, immediately press TOTAL STOP button! Release the pressing button is possible by twisting of the upper part of the button.

1.5.2. Arm covers

Left cover – It covers tightening wheel. If the cover is opened during operation, the limit switch is opened and the band saw is stopped. The band saw is not possible start in set mode.

Right cover – It covers driving wheel. If the cover is opened during operation, the limit switch is opened and the band saw is stopped. The band saw is not possible start in set mode.





The band saw is stated to the operation, when the covers is closed!

1.5.3. Band saw cover

It covers the visible area of the saw band from left guiding cube to the frame.



Never switch on the saw band driver if this cover is not mounted!



1.5.4. Saw band stretching and rupture inspection

This device checks the saw band stretching and causes immediate machine shut – down in the event the band ruptures.



The device contains limit switch. Check the stretching carefully and periodically – eventually adjust.

1.6. Safety notes for the cooling

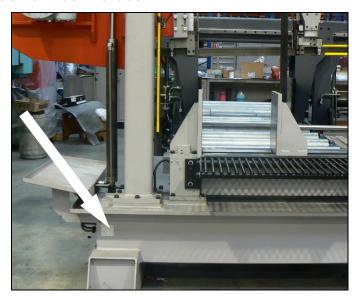
Attention!

- When handling cooling agents always wear hazardous fluid-proof gloves!
- Wear protective goggles!
- Cooling liquid can get in contact with your eyes and may cause permanent severe injuries

1.6.1. Instructions for first help

- 1. Pull off and safely remove polluted, soaked clothing.
- 2. For breathing, go out in the fresh air or look for first aid treatment.
- 3. Wash with water or use crèmes for contact with the skin.
- 4. Flush with water for eyes and look for first aid treatment.
- 5. For swallowing, drink a lot of water and induce vomiting. Look for medical help.

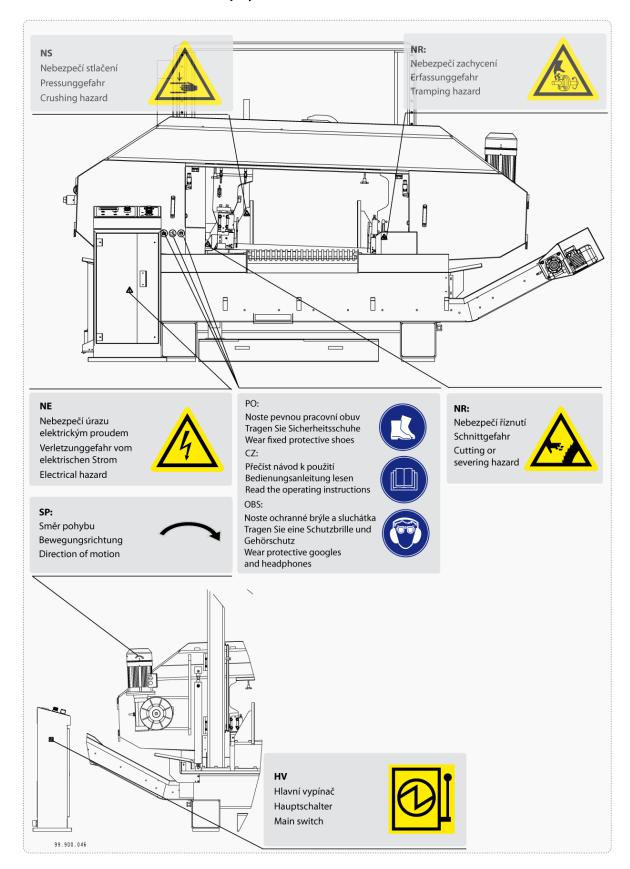
1.7. Umístění štítku stroje / Maschinenschild position / Position of machine label



Machine label is placed on base.



1.8. Umístění bezpečnostních značek / Verteilung der Sicherheitszeichen / Position of safety symbols





Dokumentation der Maschinen Machine documentation



Machine documentation



Dokumentation der Maschinen Machine documentation



2.1. Technická data / Technische Daten / Technical data

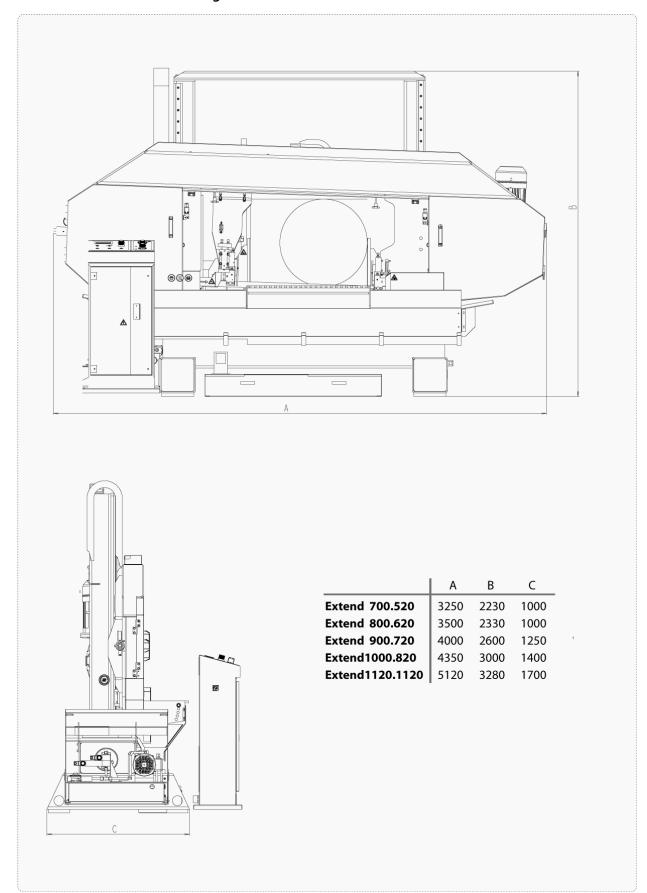
Hmotnost stroje / Maschir	engewicht / Machi	ne weight:		
Hmotnost / Gewicht / V	Veight			4200 kg
Rozměry stroje / Maschine	engröße / Machine s	size:		
 Délka / Länge / Lenght Šířka / Breite / Width Výška / Höhe / Height 				3500 mm 1000 mm 2330 mm
Elektrické vybavení / Elekt	rische Ausrüstung	['] Electical equipment	:	
 Napájení / Versorgungs Příkon / Gesamptschlus Max.jištění / Max. Vorscl Krytí / Schutzart / Protes 	swert / Total Input naltsicherung / Max.	, and the second	~3 x 400V, 50Hz, Ti 8,2kW (motor 5,5 kW	
Akustický tlak / Schalldruc	kpegel / Acoustic p	ressure:		
• Extend 800.620			L	- _{Aeqv} =86 dE
Pohon / Atrieb / Drive:				
Typ / Typ / TypeNapájení / VersorgungsVýkon / Leistung / OutpJmenovité otáčky / Mot	put	, and the second		
Hydraulické zařízení / Küh	lmiteleinrichtung /	Hydraulic equipmen	t:	
Typ / Typ / TypeVýkon / Leistung / Outp	out		,	7)/870-2038 MPa/2,2 kW
Chladící zařízení / Kühlmit	eleinrichtung / Coo	ling equipment:		
Typ / Typ / TypeVýkon / Leistung / OutpObsah nádrže / Volume		apacity	3-CC	0,05 kW 50,05 kW
Rozměr pásu / Sägebandd	imension / Band siz	re:		
	7300>	<41 (54)×1,30 mr	n	
Řezná rychlost / Schnittge	schwindigkeit / Cut	ting speed:		
15–	90 m/min. (spec	ial 10-70 m.min ⁻¹ ,	20-120 m.min ⁻¹)	
Řezné rozsahy / Schnittbe	reiche / Cutting size	: :		
0°	0			
0°	Ø620 mm	800×620 mm	800×620 mm 620×	620 mm

Level of acoustic pressure:

Equivalent level of acoustic pressure A (noise) at operator position are L_{Aeqv} =86 dB. Mentioned values are levels of emission which doesn't have to represent safe levels. Factors which influence real level of acoustic pressure on machine operator are: working place characteristics, cut material, saw band. These factors have significantly influence on acoustic pressure.

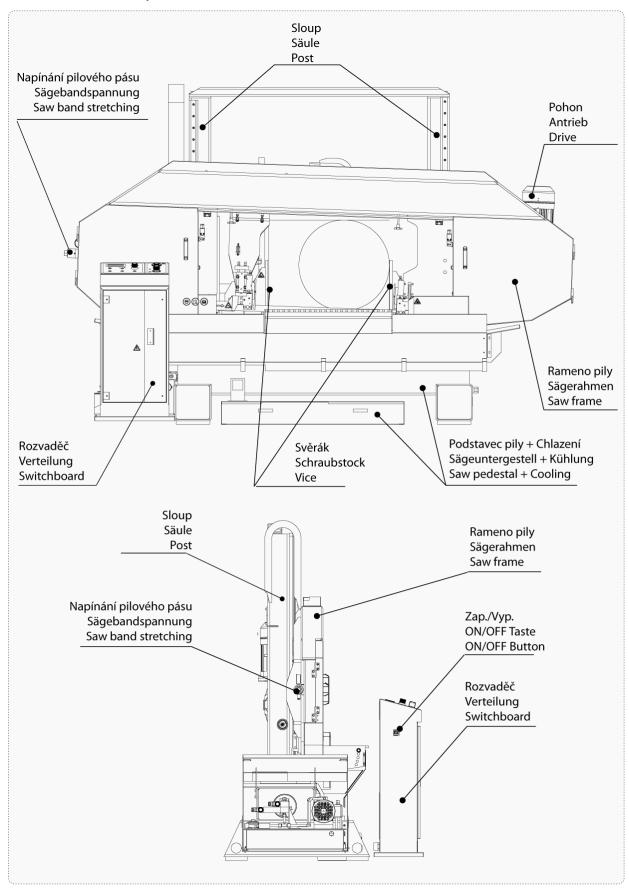


2.2. Rozměrové schéma / Aufstellzeichnung / Installation diagram





2.3. Popis / Beschreibung / Description





2.4. Transportation and stocking

2.4.1. Conditions for transportation and stocking

Keep recommendations for the manufacturers for transportation and stocking! If the recommendations are not kept, damage can occur to the machine.

- Don't use a forklift truck for handling the machine, if you do not have license for it!
- Don't move under suspended loads! Fault in lifting device may cause serious injury.
- Keep a safe distance from the machine during the transport.
- Temperature of the air from -25°C to 55°C, for a short term (max. 24 hours) temperature of the air until 70°C
- Do not expose the machine to radiation (for example microwave radiation, ultraviolet radiation, laser radiation, x-ray radiation). Radiation can cause problems with the machine function and deteriorating condition of the isolation.
- Take measures, to prevent damage by dampness, by vibrations and by shakes.

2.4.2. Transport and stocking preparations

Close the vice and thoroughly oil all blank surfaces.

Lower the saw frame to the lowest position.

Make sure to empty the machine of all traces of the cooling agent.

Fasten all loose parts securely to the machine.

Pack and wrap the control desk securely to avoid damage during transport.

Fix the stickers stating the minimum approximate machine weight to at least five well visible places.

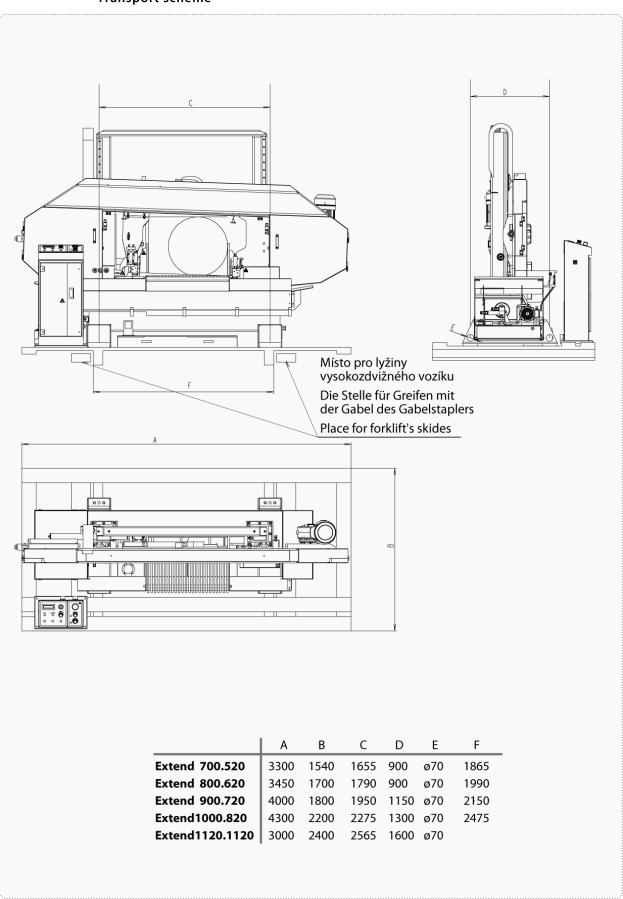
2.4.3. Transport and stocking

The machine must be secured during transportation. Screw on the palette to the floor of the van or the trailer. Be careful that the machine is not damaged during transportation. Store the machine only under conditions mentioned in the manual, to avoid damage of the machine.

It is forbidden to handle the machine any other way, than it is written in this operating instructions, the machine can be damaged.



2.4.4. Transportní schéma / Transport schema / Transport scheme





2.5. Activation

2.5.1. Machine working conditions

Keep the conditions of the manufacturer for machine operating! If recommendations are not kept, damage can occur to the machine.

The manufacturer warrants the correct function of the machine for these conditions:

- At temperature air from 5°C to 40°C, the temperature average during 24 hours must not exceed over 35°C.
- At relative dampness of the air in the extend from 30% to 95% (not concentrate)
- Altitude lower than 1000 metres.
- Do not expose the machine to the radiation (for example microwave radiation, ultra-violet radiation, laser radiation, x-ray radiation). Radiation can cause problems with the machine function and deteriorating condition of the isolation.

2.6. Band saw unpacking and assembling

Remove the packing from the machine and unpack all parts.

Attention!

Switch off the main switch and lock it, before you start assembly! Otherwise, there is possibility of hazardous machine starting.

2.6.1. Machine installing and levelling

Check the floor supporting capacity before machine installing. If the floor capacity does not agree with requirements, you must prepare the necessary base for the machine.

Minimal requirement:

machine weight - Extend 800.620 - 4200 kg

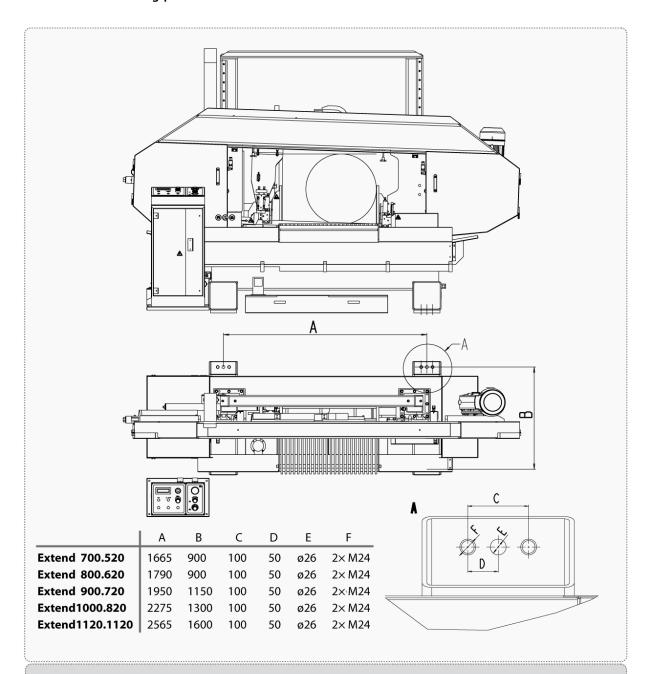
- + weight of accessories
- + maximum weight of material
- The machine must be levelled at the horizontal position. All feet of the machine must touch with the floor after levelling
- The machine must be levelled by means of the calibrated spirit level. Spirit level is put on the vice area. Set the roller conveyors according to the spirit level.
- For machine levelling, take care that there is sufficient available space for operation, repair work, servicing of the machine and handling the material.
- The machine including appended parts and accessories must be visible from the place of operation.

2.6.2. Machine disposal after lifetime

Blown out all service fluids (cooling liquid, hydraulic oil) into designated reservoir. Dismantle machine into separate parts and dispose them in accordance with valid directives.



2.6.3. Kotevní plan / Verankerungsplan / Grounding plan



Kotvící materiál / Verankerungsmaterial / Grouding material

- 4× Kotvící šroub / Verankerungsschraube / Grounding screw
- 8× Stavěcí šroub / Stellschraube / Set-screw
- Do hloubky / In die Tiefe / Into deep

M24, pos. E

M24, pos. F 150 mm

Šrouby podložit deskami o min. rozměrech P10×100-100

• Die Schrauben mit Platten mit Minimaldimensionen P10×100-100 unterlegen Screew must be bottomed with plates (minimal dimensions P10×100-100)

Požadavky na rovinnost podlahy / Anforderungen an die Bodenebenheit / Requirements for floor flatness

 \pm 10 mm / 1 m



2.7. Electrical connection

Attention!

Only a qualified professional must carry out the servicing and repairs of the electric equipment! Take special care during work with electrical equipment. High voltage shock can have fatal consequences! Always keep notes about work safety.

Electrical parameters of the machine:

Service voltage: ~ 3×400 V, 50 Hz, TN-C-S

• Total input / Max. fuse: 8,2 (10,1) KW

Before connecting switch off the main switch of the power supply circuit for the machine and ensure dry place when doing connecting works!

Service voltage must agree with the line voltage! Crosscut of the supply line must respond with rated current for max. machine load.

Note:

The values of the crosscut of the conductor and the rated current are in the norms.

Note:

The socket with the fork can be used only at the machines with the rated current less than 16 A and total input less than 3 kW.

In case the machine is connected with a direct connection, an extra main switch must be added which can be locked in zero position.

Attention!

In this case the extra main switch becomes primary and the main switch on the machine has only secondary function.

2.7.1. Check the direction of the saw band



After the machine has been successfully connected, briefly switch on the machine and put the driving engine of the band in the running position. The direction must be in accordance with the arrow direction on the saw band cover. In case the direction of the saw band does not match, two phases at the terminal strip must be switched.

2.8. Filling of the cooling system

Prepare the mixture of the water and the cooling liquid. Keep the concentration specified by manufacturer. Shift away the cover from the drainage hole. Fill the mixture of the water and the cooling liquid to the tank of the cooling system. Area of the tank for the cooling liquid is discovered from the chapter *Technical data*.

Let the drainage hole opened and with the sieve during operation, because it secures the right work of the cooling system. Filling the tank with the cooling liquid, take care that the liquid does not drip out of the tank and the tank does not overflowed.



2.9. Check machine function

Check, if the machine or some parts of the machine were not damaged during transport.

Check, if covers are installed and functional. Check by means of the Tenzomat if the saw band is correctly stretched. If it is necessary, you can stretch the saw band according to chapter *Selection and replacement of the saw band*. Values of the saw band stretching are on the Tenzomat. Switch on the main switch and check the motors and systems (saw band drive, hydraulic pump, cooling pump, chips conveyor).

Open and close the main vice. Turn the saw frame of the band saw from one outer position to other outer position. Raise the saw frame to the top position and drop the saw frame to the lowest position.

Start the machine with the cooling pump and let it run without load until the cooling system will be filled with cooling liquid. As soon as the cooling liquid starts to escape from the nozzles of the cooling system, the cooling system is ready for the operation. Carry one cycle of cutting without material. Check, if the machine runs with no irregularities. If all machine functions are right, the machine is ready for operation.

2.10. Saw band

Refit the saw band cover only after you have installed and tightened the saw band.



2.10.1. Saw band size

7300×41 (54)×1,30 mm

2.10.2. Selection of the saw band tooth system

The manufacturers provide the saw bands with constant and variable tooth system. The important factor for selection of the tooth system is length of the cutting canal with respect to the size of the product

6. Constant tooth system – the saw band has parallel tooth pitch all over length. This way is suitable for cutting of solid material.

${\it BOMAR}$ for recommended Variable tooth system for band saw.

7. Variable tooth system – tooth pitch is variable. Variable tooth system is used for profiled materials and bundle cutting. Variable tooth pitch lowers vibration of the saw band, increases service life of the saw band and quality of the cutting area.

In tables, there are advised type of the tooth system depending on sizes and form of the cutting material.

Footnotes:

 Z_pZ – teeth number on one inch S – tooth with zero angle of the teeth K – tooth with positive angle of the teeth

Examples of the tooth system marking:

32 S – number "32" means 32 teeth on one inch (that means constant tooth system), letter "S" marks teeth with zero angle of the tooth.

 $4\!-\!6$ K – number "4–6" means 4 till 6 teeth on one inch (that means variable tooth system); letter "K" marks teeth with positive angle of the teeth.



2.10.3. Saw band running-in

Running-in: Cut the material with the frame lowering reduced to 50% only. When vibrations occur increase or decrease the band speed.

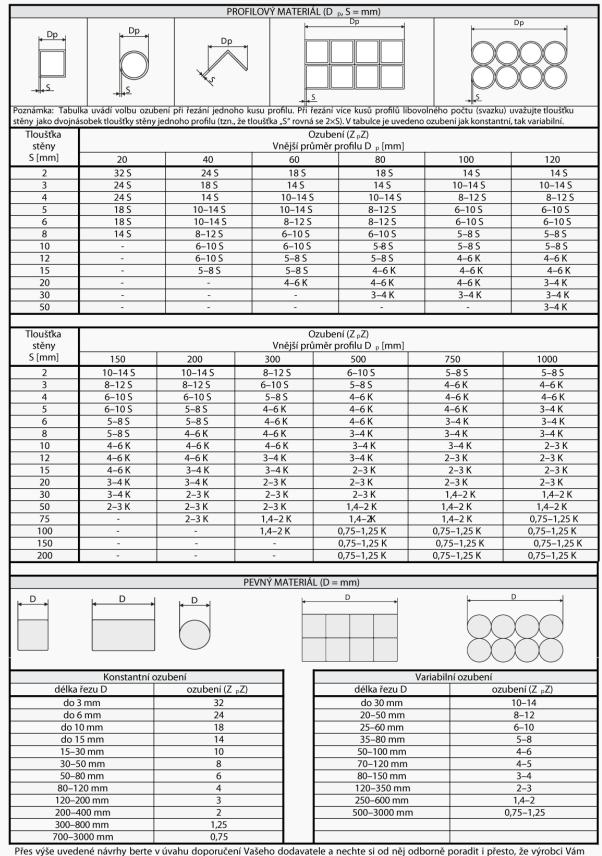
When cutting small pieces run the band until approximately 300 cm² of material has been cut. When cutting large pieces run the band for 15 minutes approximately. When the band has been run, increase the lowering-speed to normal speed. The running in of the saw band avoids micro-breaks on the cutting edges of new saw band ensuing from first excessive stress. This would decrease service life substantially. The optimal running in of the saw band produces ideal rounded cutting edges and therefore the conditions for an optimal service life.





Note: Run regrinding saw bands too.





Přes výše uvedené návrhy berte v úvahu doporučení Vašeho dodavatele a nechte si od něj odborně poradit i přesto, že výrobci Ván často doporučí vlastní pilové pásy.



Ovládání stroje Bedienung der Maschine Machine control



3. Machine control



Ovládání stroje Bedienung der Maschine Machine control



3.1. Starting the band saw

1. Switch on the main switch of the band saw. The main switch is situated on the side of the switchboard.

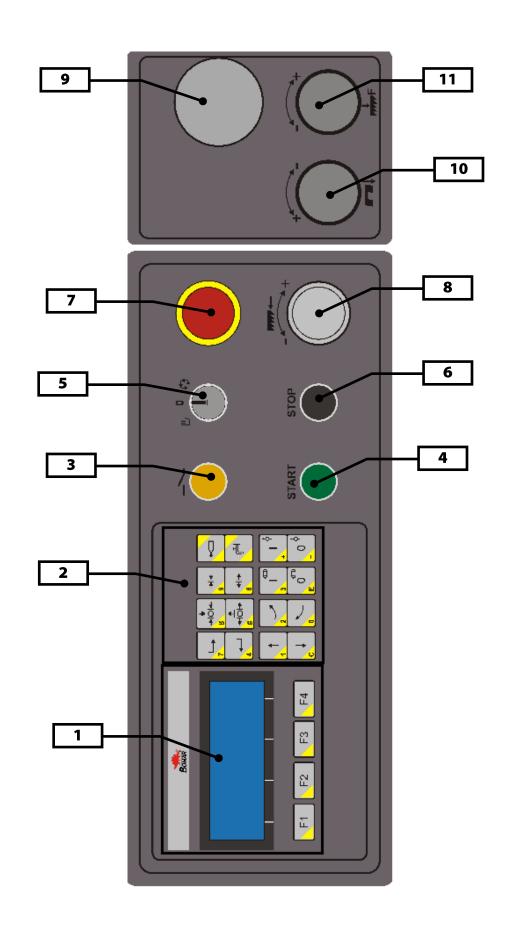


2. Switch on the safety circuit of the band saw **Safety circuit** (button 2) on control panel of the band saw.





Control panel 3.2.





3.2.1. Control panel description

	·
1	LCD Display Onto display are described all runnind processes, control with functional buttons F1-F4
2	Control buttons / numeric keypad
7	No function
± → O + 8 ± + O + 5	Clamp / release vice clamp
→ + 9 ← → 6	Clamp / release vice In manual cycle pressing and holding the button allows you to release pressure or clamping vise
	Cooling system selection Cooling with Microniser (optional cccessories) Cooling with water cooling pump runs even when the saw band drive isswitch off.
1 + c	Movement of the arm Pressing and holding a button or trigger arm lifts the lifting hydraulic cylinder. When lifting the arm using the arm can be lifted in its entirety lifting cylinder. On the down can be activated by simultaneously pressing the rapid move functional button F1.
2	No function
	Turn on / off the band drive In manual mode the button is displayed "I" switched band drive, the button with the symbol "0" switch off
1 ¢	Turn on / off the hydraulic circuit Button with the symbol "I" turns the hydraulic circuit, the button with the symbol "0" disables the hydraulic circuit is automatically switched on when needed.
3	Safety circuit Switch on the safety circuit by pressing button.
4	Button START - Switch on the semi-automatic cycle After pressing the button will start the cutting cycle



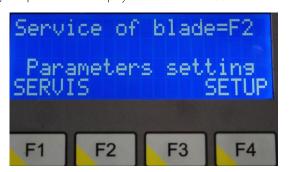
Selecting a mode machines of or servicing and settings manual mode semi-automatic mode Note: The functions performed in both manual and semi-automatic mode are the same, but only in semi-automatic cycle it is possible to use the START / STOP (ie start / off cycle)
Button STOP - Switch off on the semi-automatic cycle After pressing the button will turn off the interruption or of cutting cycle
TOTAL – STOP button In emergency causes the machine must be immediately switched off.
Frequency convertor Turn to change the speed of the saw band in the range of 20-120 m / min
Cutting pressure manometer Pointer to cut pressure adjustment
Cutting pressure regulation Adjust the arm pressure to the cut.
Notice : If you keep closing the throttle valve too tightly, the valve seat may wear off which causes its leakage. Therefore, close the valve always gently.
Governing valve Adjust the speed of the arm sinking to the cut by governing valve.
Notice : If you keep closing the throttle valve too tightly, the valve seat may wear off which causes its leakage. Therefore, close the valve always gently.

3.3. Machine setup

Machine setup mode is activated by switch on control panel. Switch must be in "0" position.



After swiching into position "0" is displayed on LCD this screen.





3.3.1. **SERVIS**

After pressing the **F1** functional key can be set servis parameters that are password protected (947).



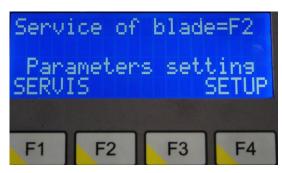
Control and movement in SERVIS can be set using the function keys **F1 - F4.**

On display	Descriptiom
SETUP: Blade speed correct. 253 < <0K> >	Blade speed correction Constant for calculation of blade speed display values from analog input. F1 go back, F4 next menu screen, F2 enter value
SETUP: Sensor Ø imp. (Sensor Display variable sensor arm (optional accessories) Use to check the functionality of the sensor on the arm Read only F1 go back, F4 next menu screen
SETUP: Vice clamping time 100 [x10ms] < <0K> F1 F2 F3 F4	Vice clamping time Watch vice clamping time in ms. F1 go back, F4 next menu screen, F2 enter value
INDIVIDUAL 520.360 (D)GH (F2) F1 F2 F3 F4	The type of machine. Display the machine type (the value set by the manufacturer) Read only



3.3.2. SETUP

After pressing the **F4** functional key can be set setup parameters that are not password protected.



Control and movement in SETUP can be set using the function keys **F1 - F4.**

On display	Description
Finish of cycle: *at the top at the bottom <esc><f2> F1 F2 F3 F4</f2></esc>	 Finish of cycle At the top – arm after cut starts above the material and cutting cycle ends Athe the bottom – arm after cut remains in the lower position, the above material does not exit F1 go back, F4 next menu screen, F2 enter value
Switch off motor: *Up. position Down position (ESC) F1 F2 F3 F4	 Turn off motor after cut Up position – saw arm move up after cut and then turn off drive of saw blade. Down position – drive of saw band turn off immediately after cut. F1 go back, F4 next menu screen
Upper vice disable (F2)	 Upper vice Allows to able / disable the upper vice in the cutting process F1 go back, F4 next menu screen, F2 enter value
Vice opening time 100 [x10ms] (\(\) (0K\) F1 F2 F3 F4	Vice mening time Watch vice opening time in ms. F1 go back, F4 next menu screen, F2 enter value





Upper vice opening time

- Watch upper vice opening time in ms.
- **F1** go back, **F4** next menu screen, **F2** enter value



Switch off hydraulic

- Setting the hydraulic unit off when idle machines
- **F1** go back, **F4** next menu screen, **F2** enter value



Language

- Choose menu language
- **F1** go back, **F4** next menu screen, **F2** enter value



Displaying of speed

- Displaying of band speed according to the selected units (m / min or ft / min)
- **F1** go back, **F4** next menu screen, **F2** enter value



3.4. Machine error messages

Error	Information
SAFETY BUTTON is OFF	Saffety button (pos. 2 on kontrol panel) is not ON. Press F4 to confirm error.
F1 F2 F3 F4	
TOTALSTOP pressed	Total Stop button is active. Turn button TOTAL STOP according to the arrows. Press F4 to confirm error.
F1 F2 F3 F4	
Blade tension faulty	Saw blade in properly tensioned. Press F4 to confirm error.
F1 F2 F3 F4	
Faulty motor protec.	Engine temperature protection is active. Do not overload saw! Press F4 to confirm error.
F1 F2 F3 F4	



3.5. Machine control

3.5.1. Semi-automatic cycle

- 1. Lift the saw arm to the top position by pressing button
- 2. Open the vice by pressing button 6
- 3. Clamp material to the vice by pressing button
- 4. Lower the frame about 10 mm above the material by button

Attention!

Do not move the saw frame to the material, when the saw band driving is not running! Do not move the saw frame to the material with accelerated motion! The saw band can be damaged!

5. Select the max. height of the arm with limit switch.

You can clear the register of the performed cycles by button and stop on 5 seconds.

6. Press button **START** (position **4**) of semi-automatic cycle.

Set the saw band speed according to the kind of the cutting material.

Set the speed of the arm sinking by adjust governing valve (position 10).

Attention!

Press button "5" (STOP of semi-automatic cycle). In risk of injury or damage of the band saw, press the emergency button TOTAL STOP "10"!

- 7. The band saw clamps the material to the vice and it makes the cut.
- 8. Open the vice. If the vice is not opened, you can open it by button Remove the blank ((cut off a piece of material).
- 9. You can repeat whole process.



3.5.2. Cycle breaking

STOP button

Semi-automatic cycle is interrupted by pressing button **STOP** (position **6**) of the semi-automatic cycle.

The arm is lifted to the top position and the saw band drive is stopped..

By pressing button **START** (position **4**) of the semi-automatic cycle, you can start the cycle.

TOTAL STOP button

In case of the risk, press button **TOTAL STOP** (position **7**).

After pressing **TOTAL STOP** button, saw band drive is immediately broken and the arm sinking is stopped.

Reactivation

- 1. Turn button **TOTAL STOP** according to the arrows (on the button).
- 2. Switch on the **Safety circuit** by button (position **3**).
- 3. By pressing button **START** (position **4**) of the semi-automatic cycle), you can start the cycle. The arm is lifted to the top position and the saw band starts the cycle.

3.6. Band saw adjusting

3.6.1. Adjusting band guides

If you want to achieve a smooth and precise cut, it is helpful to position the guide cube as close as possible to the material.



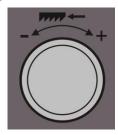
- 1. Press button **STOP** (pozice **6**) to switch off the hydraulics and stop on 2 second.
- 2. Release the stopping lever of the listel (see picture).
- 3. Move the left part of the guide apparatus so that the left guide cube edge is as close to the cut material as possible.
- 4. Tighten the lever of the gib and check the guide cube setting for possible collision with binding table or vice jaw.

Note:

Position of the guiding cubes is secure by the limit switch. The limit switch is activated after switch lever hits the listel.



3.6.2. Cutting speed adjusting



Speed of the saw band is possible change from **15 to 90 m/min**. You can effect to adjusting speed of the saw band following.

Use the frequency convertor by button **8** (position on control panel) to adjust requested speed of the saw band. You can see the speed on display. Band speed is displayed on the screen **1** (position on control panel) during one semi-automatic cycle.

3.6.3. Adjustment of pressure to the cut

The band saw *Extend 800.620* is equipped with cutting pressure regulation on the both quiding cubes.

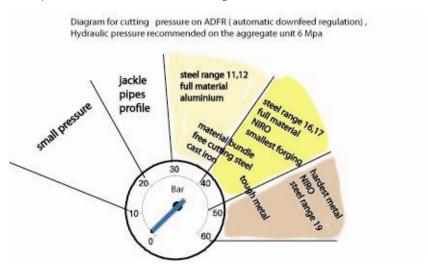
Pressure adjusting is performed with governing valve **11** (position on control panel). The pressure to the cut is displayed on the cutting pressure manometer **9** (position on control panel).



Notice:

If you keep closing the throttle valve too tightly, the valve seat may wear off which causes its leakage. Therefore, close the valve always gently.

Lower pressure to the cut – turn the wheel against the clock's direction.



Higher pressure to the cut – turn the wheel to the clock's direction.



3.6.4. Speed adjustment of the arm lowering

Set the speed of the arm lowering to the cut by control valve for Cutting pressure regulation **10** (position on control panel).

- Set the lower speed of the arm lowering to the cut by turning the switch clockwise.
- Set the higher speed of the arm lowering to the cut by turning the switch anticlockwise.

Notice:

If you keep closing the throttle valve too tightly, the valve seat may wear off which causes its leakage. Therefore, close the valve always gently.

3.6.5. Saw frame lift stop setting

Notice:

Arm Position is monitored by a limit switch. If the limit switch lever hits the bar and goes, then you can not run a semiautomatic cycle.

If you want to shorten the time of operations in automatic cycle, you have to adjust the height of the saw arm according to the height of the cutting material.



- 1. Height adjustment is sensed by a limit switch
- 2. Press button and lift the saw arm to the upper position.
- 3. Insert a material into the vice. Carefully lower the saw arm button to the material
- 4. Stop the saw arm 10mm above the material.
- 5. The lift stop setting is sensed by the limit switch
 Set the stop just above arm height sensor slide stop turning the locking knob close to the limit switch



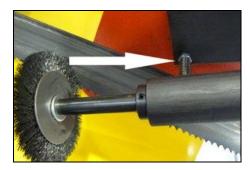
3.6.6. Setting the upper camping

The band saw *Extend 800.620* is equipped with upper clamping on the main vice of the band saw.

The upper clamping operates automatically with the main vice. Use the valve to switch off the upper clamping.

3.6.7. Brush adjustment

The brush for chip removal from the saw band influences cutting durability, saw band lifetime and wheels lifetime, hard metal guides and finally the cut accuracy. Brush adjustment must be checked every shift.



- 1. Release the fixative screw of the brush. It is possible to move with the brush.
- 2. Set the brush to the saw band according to the picture.

Attention!

The brush must not touch the bottom of the saw teeth!

- 3. Tighten the fixative screw.
- 4. In case, that the brush is not turned right (driving wheel slips on the driving wheels of the saw band), push by means of the screw (see arrow) driving wheel of the brush to the driving wheel of the saw band.

3.7. Material insertion

- Never walk under a suspended load!
- Never climb onto the gravity-roller conveyor!
- Do not hold the material for clamping material to the vice! The vice can cause injur

3.7.1. Handling agent selection

- Use the strong handling agents to lift and transfer the material!
- Handle with the material only with the lift truck or use the suspension strands and the crane!
- Do not use the lift truck or crane in case that you do not have the license to handle with it!

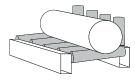


3.7.2. Insertion

Insert material to the vice and ensure that the material cannot move in the vice or fall from the vice after the clamping. If you cut long pieces of the material (for example rod, tube), you must use the roller conveyors for material shifting to the band saw. Contact Bomar for more information about roller conveyors

Make sure the conveyor is long enough and the material cannot tip off the conveyor.

Be especially careful with round materials that it always stays on two vertical rollers and that it cannot fall off the conveyor!



3.7.3. Bundle material cutting

If you want to cut the material in the bundle, there are suggestions for the positioning of bundles

Round material bundle: Take care especially with round material that the bars are put according to the picture. If the bars are put differently, you may have problems with movement.

Always weld the material at the rear end of the bundle to secure it from moving.

Before welding always, switch the machine off at the main switch! The magnetic fields, which often occur during welding, may damage the controls!

Square material bundle:







Attention:

Not all material shapes are suitable for bundle cuts. Keep the recommendation of your supplier of the saw bands for material insertion to the bundle.

4. Machine service



Údržba stroje Wartung/ Machine service



4.1. Saw band dismantling

- 1. Press button **8** to lift the saw arm to maximum position.
- 2. **STOP hydraulic** with button **5**.



3. Open the covers of both driving wheels.



- 4. Dismantle left protective cover of the band (arrow). Cover is fastened by screws..
- 5. Release the screw holding the brush. Turn the brush to the side



- 6. Release the saw band stretching by means of screw (arrow), until it is possible to remove the band off the wheel.
- 7. Pull down the band from the wheels.
- 8. Pull up the saw band from the guiding cubes.

4.2. Saw band installation

- 1. Prior to installation, clean all track wheels, guide cubes and inner side of the arm thoroughly of all traces of chips and dirt. *Keep in mind the teeth direction when installing the saw band.*
- 2. Insert new saw band in the guide cubes. Make sure the saw band runs between both guide rollers and it is pushed all the way to the top.
- 3. Put the saw band on both guide wheels. Make sure that the saw band ridge fits tightly to the wheel rim. Then push the saw band as far back as possible.
- 4. Stretch the saw band by means of the screw, that the band did not falls from wheels.



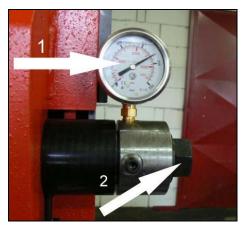
- Install yellow protective cover of the band. 5.
- 6. Move the brush to the saw band. Tighten the securing screw.
- 7. Close the covers of both driving wheels.
- Saw band installation is finished.

4.3. Saw band stretching and inspection

Right saw band stretching is one of the most important criteria's, which influents accuracy and saw band service life. Stretch the saw bands according to the selected saw band and the band saw. Keep the recommendation of your manufacturer.

4.3.1. Saw band stretching

Switch on the hydraulic aggregate after the saw band installation check the saw band stretching on the manometer (arrow 1).



Use the screw (arrow 2) to stretch the saw band until it is stretched to the recommended value.

4.3.2. Saw band inspection

Check the saw band in the guiding cubes and on the wheels

- Check, if the saw band is right in the guiding cubes..
- Switch on the saw band drive and then after 10 seconds switch off saw band drive. If the saw band drive is not possible to switch on, set the limit switch of the saw band stretching.
- Switch off the main switch.
- Open cover(s) of the wheels and check position of the saw band on the both wheels..
- If the distance between backside of the saw band and the offset wheel is **1 mm**, setting is right...
- If the distance is bigger than 1 mm, or the saw band is on the offset of the wheel, set the saw band.
- Close cover of the saw band.

4.3.3. Saw band run setting



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Saw band run is set with screw (arrow) in the stretching cube on the saw arm. Right distance rear part of the saw band from wheel rim is **1 – 3 mm**.

- Turn with the screw to the right, the saw band is closer to the stretching wheel rim.
- Turn with the screw to the left, the saw band is far from the stretching wheel rim Check saw band run adjustment again.

4.4. Adjusting of the limit switch of the saw band stretching

After the saw band is replaced, the saw band stretching must be checked. If the limit switch is not adjusted correctly, the band is stretched too little or too much.

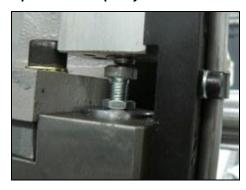


• Tighten the saw band by means of the TENZOMAT on the optimal value (table is on the Tenzomat).



- If the drive engine is switched on, but it is not running, turn with the screw clockwise, until the engine begins run..
- If the drive engine is possible switched on, turn with the screw anticlockwise, until the engine is stopped and then turn with the screw clockwise, until the engine begins run.

4.5. Saw arm lower position stop adjustment



The lower stop limits the lowest position of the saw arm. This stop point has to be checked at least once a month. If the lower stop point is wrongly adjusted, the cutting table can be deeply cut or the material will not be cut completely.

- 1. Lift the saw frame to the top position.
- 2. Release the nut of the screw and set it on the desired value.



- 3. Secure the screw with nut again.
- 4. Set the limit switch of the saw frame lower position.

4.6. Adjusting of the limit switch of the saw band stretching

The limit switch of the saw band stretching is set from the manufacturer. Is not necessary to set it.

4.7. Limit switch adjustment of the saw frame lower positron

If we had adjusted lower stop point of the saw frame, the limit switch adjustment inspection is required.

4.7.1. Setting inspection

Lower the saw frame to the lowest position. If the saw frame is on the lower stop and the limit switch responds, the limit switch adjustment is correct. Make the limit switch adjustment in failing which.

4.7.2. Limit switch setting



- 1. Release the nut of the stop screw of the limit switch and screw the screw.
- Lower the saw frame to the lower stop and switch on the saw band drive (button 4).
- 3. Screw out the stop screw of the limit switch, until the saw band drive is not stopped.
- 4. Secure the screw with nut and check limit switch adjustment again.

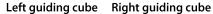
4.8. Adjustment of the cutting pressure regulation

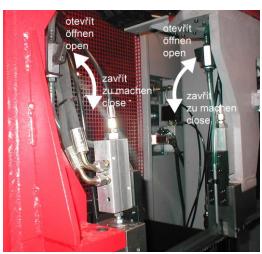
This chapter describes the basic speed setting of arm sinking to the cut for idle run. Saw is equipped with cutting pressure regulation on both guiding cubes. Cutting pressure regulation is set separately on every guiding cube.

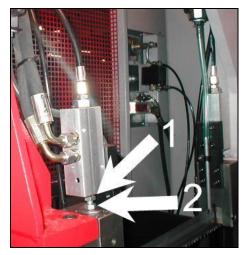


4.8.1. Setting on the right guiding cube

 Close the tap on the left guiding cube. Let the tap opened on the right guiding cube.







- 2. Screw off the set screw on the right guiding cube to the stop, the valve is blocked (pos1). You can move by arm only up, because the arm movement down is blocked with pressure regulation valve.
- 3. Press button "Arm down" and slowly screw on the set screw on the right guiding cube. Screw by set screw until the optimal speed of the arm sinking is not reached. The optimum speed of the arm sinking to the cut from maximum lift until lower stop is about 55 seconds.
- 4. Secure the set screw with nut (pos. 2) for reaching of the optimum speed of the arm sinking.
- 5. Pressure regulation on the right guiding cube is set.

4.8.2. Setting on the left guiding cube

- 1. Open the tap on the left guiding cube. Close it on the right guiding cube.
- 2. Set the cutting pressure regulation on the left guiding cube in the same way.
- 3. Open taps on both guiding cubes after pressure regulation setting. **ATTENTION!** Both taps must be opened during operation!
- 4. Setting is ended.



4.9. Cooling agents and chips disposal

	The quality of the cooling gent will deteriorate due to:	If the solution is too weak:	If the solution is too strong:
•	use of contaminated water	 corrosion protection is 	 the cooling ability is decreased
•	impurity	diminished	• foam behaviour increases
•	outside oil contamination (hydraulics, gears)	lubrication decreasesmicrobial attack is more likely	emulsions stability deterioratessticky residue develops
•	high operating temperatures		sticky residue develops
•	lack of air circulation		
•	wrong concentration		

4.9.1. Coolant device inspection

The state of the cooling agent has significant influence on the cutting quality and on the operational life of the machine. Lifetime of the cooling liquid is 1 year, after this time we recommend change the cooling liquid. This time is dependent on the degree of pollution cooling liquid (especially with oils) and on the other factors.

Check level of the cooling liquid and function of the pump periodically!

Note:

If the state of the cooling liquid is not satisfactory, the cooling liquid must be changed.

Check the state of the cooling agent according to the following table:

Testing	Interval	Method	Condition	Precaution
Liquid level	quid level daily visually		too low	after concentration check, refill with water or emulsion
Concentration	daily	refractometer densimeter	too high too low	refill water refill base emulsion
Smell	Smell daily by sense of smell		unpleasant smell	good ventilation, add biocides or renew coolant
Contamination	ontamination daily by sense of smell		visible oil leaks, sludge fungi	surface cleaning, fix leaks, add biocides or fungicides, or coolant renewal after added system cleanser*
Stability when refractom		· /	insufficient corrosion protection	test stability, if necessary – increase concentration or pH value
		refractometer	oiling	add concentrate, enquiries to supplier
		shaking test	too much foam, foam disperses too slowly	avoid aeration, increase water hardness, ix with defoamer

^{*} according to manufacturers' instructions

4.9.2. Chips disposal

Chips resulting from cutting operations must be disposed of in accordance with the relevant regulations.

- Let the chips drip excess fluid!.
- Fill a watertight container with the chips! Be careful that the container does not leak, because even after a long dripping time, they still contain coolant residue.
- Place the container into the care of a disposal company equipped for the disposal of chips contaminated with cooling liquid. In case the machine is equipped with microspray installation, the chips must also be handed over to a disposal company.



4.10. Hydraulic, Greases and oils

4.10.1. Gearbox oils

In gearboxes, oil is used for the whole lifetime of the gearbox. We recommend replacing of the filling oil in case of repair.

Use oils with specification DIN 51517 in the gearboxes. Select the viscosity grade ISO VG according to the original oil fill.

Attention:

When replacing, use oils recommended by BOMAR or oils, which has comparable parameters from the other manufacturers. Do not forget, that mineral and synthetic oils must not be mixed!

Recommended oils and quantity according to the type of the band saw

Band saw	Gearbox oil	Capacity
Extend 800.620	Shell Tivela S 320	3,3
Swarf conveyor	Shell Tivela S 320	0,075

Comparative table of the gearbox oils

Manufacturer	Viscosity grade				
Manufacturer	ISO VG 100	ISO VG 220	ISO VG 320		
BP	Energol GR-XP 100	Energol GR-XP 220	Energol GR-XP 320		
Castrol	Alpha SP 100 Alpha MW 100	Alpha SP 220 Alpha MW 220			
Elf	Reductelf SP 100	Reductelf SP 220 Reductelf Synthese 220	Reductelf SP 320		
Esso	Spartan EP 100	Spartan EP 220	Spartan EP 320		
Mobil	Mobilgear 627	Mobilgear SHC 220 Mobilgear 630	Mobilgear 632		
ÖMV		PG 220			
Paramo	PP 7	Paramo CLP 220	Paramo CLP 320		
Shell	Shell Omala 100	Shell Omala 220 Shell Tivela S 220	Shell Omala 320 Shell Tivela S 320		
Total	Carter EP 100	Carter EP 220	Carter EP 320		

4.10.2. Lubricant greases

We recommend using lithium based saponified grease, class NGLI-2 for lubrication. Different greases are mixable, if their oil bases and consistence type are identical.

Comparative table of the lubricant greases:

Manufacturer	Type of the lubricant grease
BP	Energrease LS - EP
DEA	Paragon EP1
	FETT EGL 3144
Esso	Beacon EP 1
	Beacon EP 2
FINA	FINA LICAL M12
	Microlube GB0
Klüber	Staburags NBU8EP
	Isoflex Spezial
Optimol	Optimol Longtime PD 0, PD1, PD2
Shell Aseol AG	ASEOL Litea EP 806-077



Manufacturer	Type of the lubricant grease
Texaco	Multifak EP1

4.10.3. Lubrication

There are several placing on the machine, which are necessary to grease periodically. It secures the right function of the machine.

Lubrication place	
. 6	The guiding both sides or
	The linear gu grease once

The guiding cubes leading – grease with oil from both sides once a week.

Lubrication



The linear guiding of the saw arm – lubricate with grease once a three months (see chapter **Lubricant greases**). Use 3-5g grease on the every carriage of the linear guiding. Use the grease gun to the lubrication. Drive 3-5 times whole line of the linear guiding during lubrication.

4.10.4. Hydraulic oils

Replace the hydraulic oil once in 2 years, because the oil can deteriorate its properties and cause problems the hydraulic equipment. If the hydraulic system is equipped with filter (2SF 56/48-0,063), replace the filter too.

Use oils with specification DIN 51524-HLP, ISO 6743-4 and viscosity grade ISO VG 46 in hydraulic aggregates. Hydraulic oils quantity – see chapter **Hydraulic oil level check**.

Note:

When replacing, use oils recommended by BOMAR or oils, which has comparable parameters from the other manufacturers. Do not forget, that mineral and synthetic oils may not be mixed!

Comparative table of the hydraulic oils

Manufacturer	Туре	Manufacturer	Туре
Agip	Oso 46	lna	Hidraol 46 HD
Aral	Vitam GF 46	Klüber	Lamora HLP 46
Avia	Avilub RSL 46	Hungary	Hidrokomol P 46
Benzina	OH-HM 46	Mobil	Mobil DTE 25
ВР	Energol HLP 46		HLP 46
Bulgaria	MX-M/46	Poland	Hydrol 30
Castrol	Hyspin AWS 46	Rumania	H 46 EP
		Russia	IGP 30
		Shell	Tellus Oil 46



Manufacturer Type		Manufacturer	Туре
Elf	Elfolna 46	Sun	Sunvis 846 WR
Esso	Nuto H 46	Техасо	Rando HD B 46
Fam HD 5040		Valvoline	Ultramax AW 46
Fina	Hydran 46		

4.10.5. Hydraulic oil level check



Pull up the gauge and check the state of the oil. The oil level must be situated between water-glas.

Fill the hydraulic oil, if it is necessary. Use always the filter (10 μ m or better) when you fill the oil. You avoid impurities penetration to the hydraulic system and troubles in hydraulic system.

4.11. Machine cleaning

Clean the machine from the cooling liquid and impurities after every shift stopping. Conserve the guiding surfaces, mainly.

- Clamping jaws guiding of the vice.
- The guiding of the feeder.
- Loading surface of the vice.

4.12. Worn pieces replacement

4.12.1. Pushing bearing replacement

If it is impossible to adjust the bundle gripping assembly and the pushing bearing is worn, it needs to be replaced.



The bearing condition is possible discover, on the cube from the bottom side, for a better inspection is possible to put out the holder of the bearing from the cube.

If the bearing is worn, there is a visible channel on it.



Bearing replacement:

1. Dismantle the saw band.



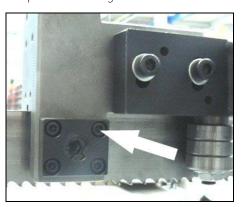
Disconnect the hose from the cooling agent.



Release 2 Screws.



Release the fixative pin of the bearing holder.

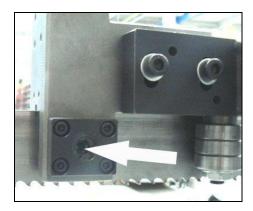


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5. Release 4 screws.



6. Release centric screws M10..



Attention:

The vice has aluminium jaws, eventually, there has to be an aluminium agent to protect the pivot from damage.

- 7. Insert the pivot to the vice.
- 8. Remove the bearing pivot from the bearing holder by means of the swager.



- 9. Remove the worn bearing.
- 10. Fasten the holder to the vice.

Attention:

The vice has aluminium jaws, eventually, there has to be an aluminium agent to protect the pivot from damage.

- 11. Insert the bearing and washers and return the pivot to its original place.
- 12. The pivot may not extend past the holder; otherwise, the bundle gripping assembly regulator gets worse.



4.12.2. Saw band guiding pulleys replacement

If the saw band is not sufficiently guided by guiding pulleys or if the pulleys are obviously worn, the pulleys should be replaced.

Attention:

Guiding pulleys must be replaced together on both guiding cubes!



1. Release 2 screws. Dismantle the guiding cube of the saw band.



2. Tighten the guiding cube to the vice and dismantle both eccentrics with bearings following way.

Attention:

Mark both eccentrics placing and components on the eccentric! Eccentrics must not be replaced with each other!

- 3. Screw off nuts from eccentrics.
- 4. Remove eccentrics from bearings by means of the swager.



- 5. Change all bearings and other worn parts.
- 6. Install eccentrics to the cubes. Install components on both eccentrics in given order. Put bearings by means of the preparation on eccentrics.



Attention:

Do not replace the eccentrics placing in the cube.



7. Screw on nuts on both eccentrics and tighten them.



- 8. Insert the saw band to the guiding cube (cca 15 20 cm). Secure the movable hard metal guide with scotch so, that the saw band is pressed with guides and it is possible to move with saw band.
- 9. Set the eccentrics by means of the wrenches, the saw band must run in the centre. Guide pulleys must not press too much on the band, but must spin freely during the band run.

Optimal distance between the band and the pulley is 0,05 mm.

- 10. Tighten nuts on both eccentrics.
- 11. Remove the testing piece of saw band from the cube lead. Install the guiding cube on the machine.

4.12.3. Hard metal guides replacement

If the hard metal guides cannot be adjusted, they have to be replaced. **ATTENTION!** Hard metal guides must be replaced together on both guiding cubes!

1. Disconnect the hose from the cooling agent.

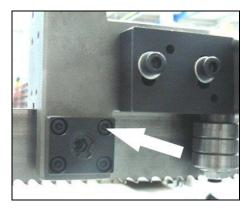




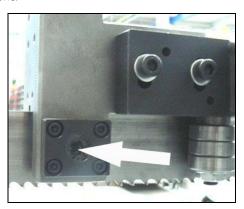
2. Release 2 screws.



3. Release the fixative pin of the bearing holder.



4. Release 4 screws.



5. Release centric screws M10..





6. Dismantle the fixed hard metal guide.



- 7. Remove the movable hard metal guide and 8 disk springs.
- 8. Insert the new movable hard metal guide.
- 9. Screw on the fixed hard metal guide.
- 10. Hard metal guides replacement is ended.

4.12.4. Brush replacement

If the chip removing brush is not able to fulfil its function, it has to be replaced.

1. Hold shaft of the brush by wrench.



- 2. Release the nut on the brush, replace worn brush on the new brush, screw on the nut.
- 3. Set the brush to the saw band.



BOMAR



Závady / Troubleshooting



Schémata Schemas Schematics



5.1. Mechanical problems

	Problem	Possible causes	Repair
		- Wrongly adjusted hard metal g	uides. Set according to the chapter "Servicing and adjustment"
		- Worn hard metal guides.	Replace to the chapter "Worn pieces replacement"
		- Wrongly adjusted cubes of the band guiding.	Set according to the chapter "Servicing and adjustment"
		- Worn bearings of the saw band	guiding. Replace according to the chapter "Worn pieces replacement"
		- Wrongly adjusted swarf brush.	Set according to the chapter "Servicing and adjustment"
		- Worn swarf brush.	Replace according to the chapter "Worn pieces replacement"
1.	Slanting cut	- Insufficient saw band stretching	g. Rise the saw band stretching and set the limit switch.
	J	- Wrongly chosen tooth system of saw band.	of the Replace the saw band and keep the instructions of manufacturer on new saw band choice.
		- Worn saw band.	Replace the saw band.
		- Wrongly balanced roller conve	vor. Set the roller conveyor.
		- Dirty feeding board.	Cleanse the feeding board from debris, chip and residue material.
		- Guiding arm and guiding cube loosened.	are Clamp the guiding arm.
		 Guiding arm and cube are too the material. 	ar from Set the guiding cube to the material.
		- Too fast cutting rate.	Lower the material feeding speed.
		- Unexpected oscillation in mate quality.	rial Set the cut and feeding speed to the relevant material.
		- Securing lever is loosened.	Check the securing lever efficiency and carry out its adjustment according to chapter "Servicing and adjustment".
2.	The cut is not cut	- Set angle does not match the c	ut angle. Check the angle adjustment with a protractor and possibly set it according to chapter "Servicing and adjustment".
	upon desired angle	- Insufficient saw band stretching	g. Stretch the saw band and set the limit switch according to chapter "Servicing and adjustment".
		 Guiding arm and guiding cube loosened. 	are Fasten the guiding arm and the cube.
		- Dirt between material and clam jaw.	Cleanse the material and mating jaw.
		- Insufficient saw band stretching	g. Raise the tightening of the saw band set the scanner of saw band tightening according to chapter "Servicing and adjustment".
		- Worn swarf brush.	Check the swarf brush condition and replace it in case of excessive use as described in chapter "Worn pieces replacement"
3.	Short lifetime of the	- Wrongly adjusted swarf brush.	Check swarf brush adjustment, set it according to chapter "Servicing and adjustment"
	saw band	- Over stretched saw band	Lower stretching of the saw band and set the limit switch of the saw band stretching according to chapter "Servicing and adjustment"
		- Wrongly adjusted hard metal g	uides. Check the adjustment of the hard metal guides and carry out adjustment as described in chapter "Servicing and adjustment"
		- Worn hard metal guides of the band.	check the condition of the hard metal guide and if it is too worn, replace hard metal guides according to chapter "Worn pieces replacement"



	Problem		Possible causes	Repair
			Worn saw band guide bearings.	Check guiding bearings and if you notice some sort of excessive damage, replace them according to chapter, Worn pieces replacement"
			Wrongly adjusted guiding cubes of the saw band.	Set guiding cube according to chapter "Servicing and adjustment"
		-	Wrongly adjusted down feed and saw band speed.	Adjust the feeding and speed of a saw band according to values published by saw band manufacturer.
		-	Different material quality.	Adjust feeding and speed of a saw band according to desired material (try cut-test).
		-	Low-class saw band	Replace the saw band (contact your local accessory supplier for more information)
		-	Wrongly chosen saw band tooth system.	Replace the saw band and keep instructions of the manufacturer on the choice.
		-	Wrongly adjusted tracking.	Check the space between top of a saw band and driving wheel. Perhaps adjust the tracking as described in chapter "Servicing and adjustment"
		-	Worn saw band.	Replace the saw band and keep instructions of the manufacturer on the choice.
4.	Insufficient cut output.	-	Wrong saw band tooth system.	Replace the saw band and keep instructions of the manufacturer on the choice.
		-	Wrongly set down feed and speed of a saw band.	Set feed and speed of a saw band according to values published by saw band manufacturer.
5.	The cut is not finished.	-	Wrongly adjusted lower stop point of the saw frame.	Check lower limit switch and screw.
٥.	The cat is not imistica.	-	Stop point surface is messed-up.	Cleanse stop point surface of the limit switch from debris and residue material.
6.	By choke is not possible turn	-	Metal clamps between valve and panel.	Clamps must be removed and put on the shaft O-Ring about 10x2 mm.
	possione contr	-	Metal clams are in body of valve.	Valve must be cleared or changed.
7.	Saw band drive cannot be started.	-	Pressure switch is adjusted wrong.	Set the pressure switch according to chapter "Servicing and adjustment"
		-	Pressure switch is defective.	Replace defective parts of the pressure switch.
8.	The saw bands are cracked.	-	In stretching wheel is wrong adjusting geometry.	Adjust distance band from recess wheel c.2 mm according to operating instructions.
		-	Hard metal plates of circuit saw band are not adjusting.	Hard metal plates of circuit saw band must be adjusting according to operating instructions.
		-	Guiding cubes are not adjusting (bearings + hard metal circuit)	Guiding cubes must be adjusting (bearings + hard metal circuit) according to operating instructions.
		-	Bearings of guiding cubes are used (rolling elements are damaged or outside ring of bearing has conical form).	Bearings of guiding cubes must be replaced. Bearings must be adjusting according to operating instructions.
9.	Damage tooth system of the saw band	=	In gripping the lifting cylinder is backlash.	
		-	Squeezed pin upper or downer holder of the lifting cylinder.	Exchange complete upper or downer holder of lifting cylinder.
10.	The saw is cut downing.	=	Geometry of hardmetal guiding cubes is wrong adjusted.	Hardmetal guiding cubes must be adjusted.
	<i>3</i>	-	Bearings of guiding cubes are used.	Bearings of guiding cubes must be replaced.
11.	Cleansing of the saw band is not functional.	-	Elastic wheel of the brush drive is worndown.	Elastic wheel of the brush must be changed.
		-	Knurling of the driving wheel is worndown.	Driving wheel must be changed.
		-	The shaft of the brush drive is rusted.	The shaft of the brush must be cleaned and oiled.



Problem	Possible causes	Repair
	 The brush position and the brush cover is adjusted wrong – with the brush cannot be turned. 	The brush cover must be posed, in order to the brush can be turned.
12. The saw arm periodically rise and fall during the cut; this cause short lifetime of the saw band.	- Backslash in driving wheel lodgement on the shaft.	Change the driving shaft for a long one, new bearings, distance ring, new driving wheel, spring, two covers on the forehead of the shaft + screws.
	- Worn channel for spring.	

5.2. Electric and hydraulic problems

			a frydraune problems	
	Problem		Possible causes	Repair
1.	Machine is not	-	In socket is not voltage	Line voltage must be checked.
	possible start.	-	Transfer relay is closed (thermal protector)	Each FA relay must be checked.
		-	Limit switch of saw band stretching, cover of frame or cover of saw band is not started.	Check of saw band stretching and covers closing.
2.	When cut is finished, the frame is not	-	Bottom limit switch is adjusted wrong.	Bottom limit switch must be adjusted according to chapter ADJUSTING.
	raising.	-	In hydraulic (pneumatic) ring is error. HYTOS (BOSCH) is not acting to frame uplift.	Function of magnetic valve must be checked, valve must be closed, voltage of clamps and inductor must be checked.
3.	Electric motor and pump are without voltage. Between contactor and thermal protector is not voltage.	-	Wrong contactor.	Replace contactor of engine.
4.	The indicator of speed	-	Sensor of speed is not adjusted.	Sensor of speed must be adjusted.
	saw band is not	-	Defective display	The display must be changed.
	functional.	=	Wrong sensor – diode of indicator speed is not light.	Sensor must be changed and adjusted.
5.	Protector is switched off from engine hydraulic aggregate MA3 sometimes.	-	Into hydraulic system is high working pressure.	Service engineer must reduce the pressure in hydraulic system.
6.	The hydraulic aggregate cannot be started		Auxiliary contact on thermo-relay FA1 is defective.	Replace the defective contact on motor starter FA1.
7.	Hydraulic aggregate is switched on but the saw arm or the main vice is not functional	-	Wrong connection of electrical supply. The electrical phases are connected conversely.	The phases must be switched. Only service engineer can do this.
8.	Cooling is not active		Lack of cooling agent.	Fill the tank with cooling agent.
		-	Thermal relay is defective	Change the thermal relay
		-	Input hosepipe is broken or obstructed.	Check the cooling circuit and perhaps cleanse cooling system.
		-	Cooling pump protection is defective	Check the protection of cooling pump if need change it.
		-	Cooling pump is defective.	Replace the cooling pump.



Schémata Schemas Schematics



6. Schémata /
Schemas /
Schematics



Schémata Schemas Schematics

6.1. Elektrické schema/ Elektroschema/ Wiring diagrams – 3x400 V, PE+N





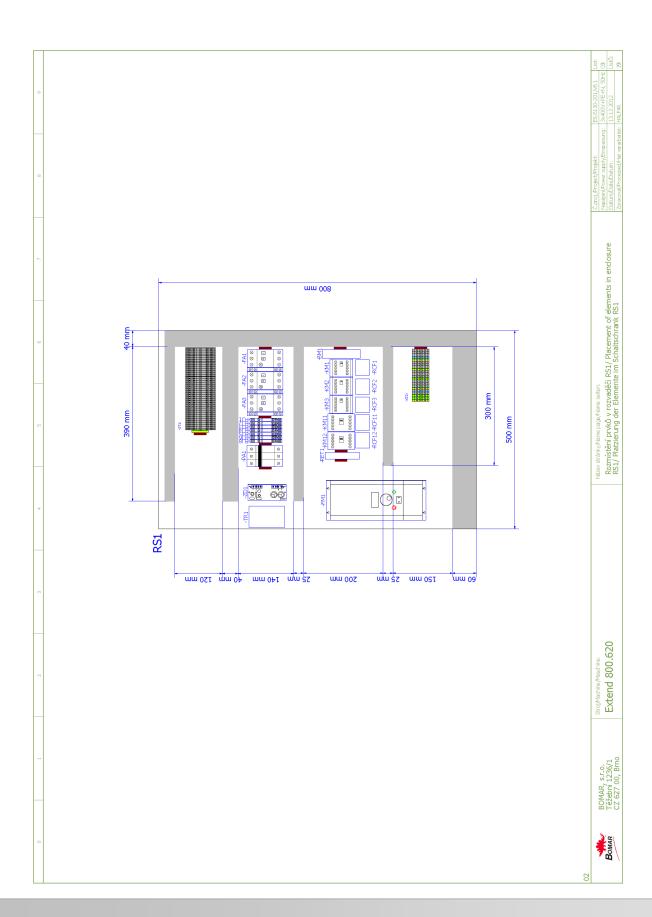
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Obsah/ Table of	Obsah/ Table of contents/ Inhaltsverzeichnis				
Stránka/Page/Seite N	Název stránky/Name page/Name Seite			Datum/Date/Datum	
00	Úvodní strana/Start page/Startseite			2.9.2012	
01	Obsah/ Table of contents/ Inhaltsverzeichnis			10.10.2012	
02	I/O řídící systém / I/O Control station / I/O Steuerung			2.9.2012	
03 R	Rozmístění prvků v rozvaděči RS1/ Placement of elements in endosure RS1/ Platzierung der Elemente im Schaltschrank RS1	atzierung der Elemente im Schaltschrank RS	S1	2.10.2012	
03a O	Ovládací panel na rozvaděčí/Control panel/Bedienpult			2.10.2012	
90	Silová část M1-M3/Power part M1-M3/Feld partie M1-M3			10.10.2012	
04b	Silová část M4, M5/Power part M4, M5/Feld partie M4, M5			10.10.2012	
05 D	Deska zdroje/Power board/Netzgerat-Platte			12.9.2012	
90	Stykače motorů/Motor contactor/Motor-Schutzschalter			2.10.2012	
H + + + + + + + + + + + + + + + + + + +	Hydraulické ventily/Hydraulic valve/Hydroventil			10.10.2012	
07.a	Hydraulické ventily/Hydraulic valve/Hydroventil			10.10.2012	
Λ 80	Vstupy/Inputs/Eingänge			10.10.2012	
L 60	Tlačítka ovládací panel/Button control panel/Taste Bedienpult			10.10.2012	
10 B	Bezpečnostní okruh/Safety circle/Sicherheitsbereich			2.9.2012	
11 Ř	Řídící systém/Control system/Steuersystem			3.9.2012	
12 Pi	Příslušenství/Accessories/Zubehör			2.10.2012	
13 K	Kusovník artiklů/ Parts list/ Artikelstückliste			2.10.2012	
13.a K	Kusovník artiklů/ Parts list/ Artikelstückliste			2.10.2012	

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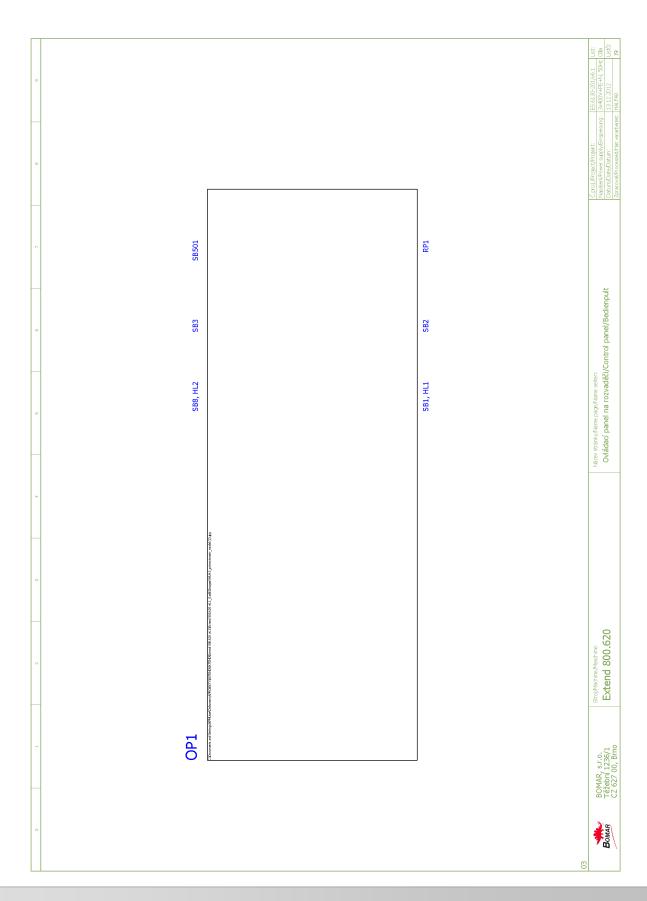


Extend 800.620 HW FW **PLC** 00T 01
00T 02
00T 03
00T 04
00T 06
00T 06
00T 07
00T 11
00T 11
00T 11
00T 11 Extend 800.620 000000000000000000 Pohled ze spodu/From under view/Blick nach I/O DE IN 01 Svěrák upnut Vice is clamped Schraubstock ist gespannt IN 02 Rameno dole Arm is down IN 03 IN 04 Rameno nahoře Arm is up Rahmen ist oben Napnutí pásu Blade tension Bandspannung IN 05 Motory OK Motors OK Motoren OK IN 06 Bezpečnostní okruh uzavřen Safety circle shut down Sicherheitsschaltung gesperrt IN 07 Tlačítko TOTAL STOP Button TOTAL STOP Taste TOTAL STOP IN 08 Tlačítko START Button START Taste START Tlačítko STOP Button STOP Taste STOP IN 09 MANUAL MANUAL MANUAL **TN 10** CYKLUS CYCLE ZYKLUS IN 11 IN 12 Kolize kostky Cube collision Klotzkollision IN 13 NC NC NC IN 14 IN 15 NC NC NC Název stránky/Name page/Name selten: I/O řídící systém / I/O Control station / I/O Steuerung NC NC NC IN 16 NC NC NC IN 17 NC IN 18 NC NC Taste band spann IN 19 Tlačítko napnout pás Button band tension IN 20 Tlačítko povolit pás Button band release Taste band lösen IN 21 IN 22 Tlačítko rameno nahoru Button arm up Taste Rahmen nach oben NC NC IN 23 Přítlak upnut Upper vice is clamped Ober Schraubstock ist gespannt IN 24 OUT 01+ Start FM1 Start FM1 Start FM1 OUT 01-OUT 02+ NC NC OUT 02-OUT 03+ NC NC NC OUT 03-OUT 04 Motor Kühlung Motor chlazení Coolant pump OUT 05 Čerpadlo hydrauliky Hydraulic pump Hydraulikpumpe OUT 06 2.stupeň hydrauliky Second level of hydraulic pump Hydraulikpumpe 2.Stufe **OUT 07** Svěrák upnout Vice clamp Schraubstock spannen 80 TUO Svěrák povolit Release vice Schraubstock löser OUT 09 NC NC NC OUT 10 NC NC NC OUT 11 Rameno nahoru Rahmen nach oben Arm up OUT 12 Rameno dolů Arm down Rahmen nach unten Rameno rychle Arm fast Rahmen schnell OUT 14 Přítlak upnout Upper vice clamp Ober Schraubstock spannen OUT 15 Přítlak povolit Release upper vice Ober Schraubstock lösen Spannen des Sägebandes OUT 16 Napnout pás Sawblade tension OUT 17 OUT 18 Uvolnit pás Sawblade leave Entspannen des Sägebandes Mikronizer Microniser Mikronizer OUT 19 Kontrolka start Indicator start Kontrollicht start

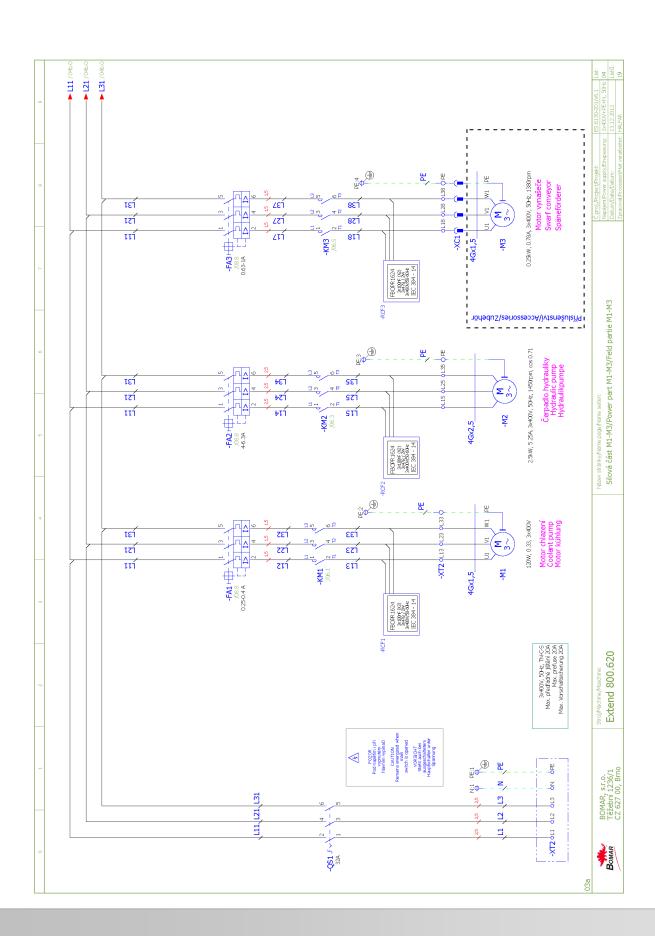




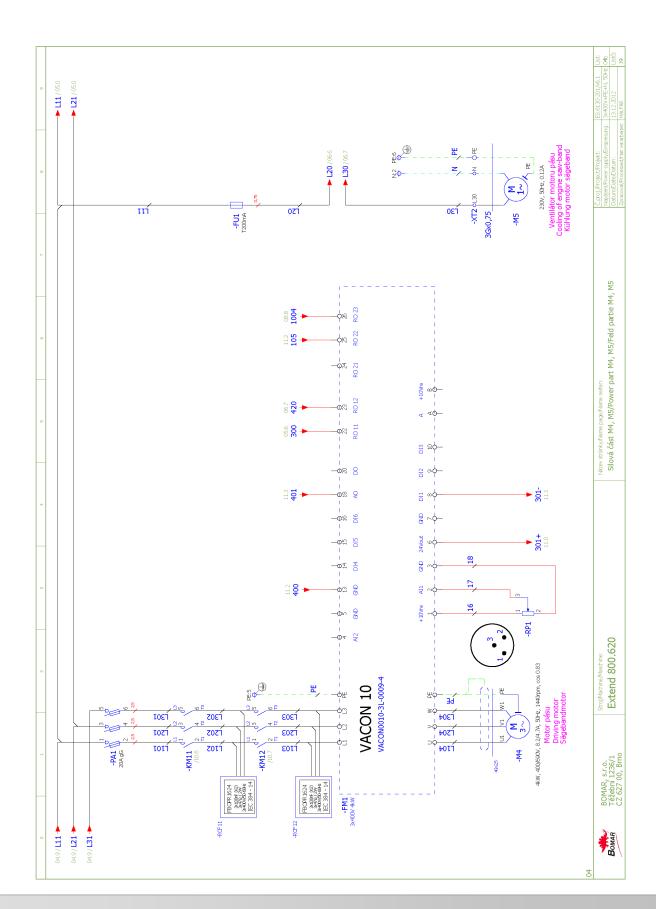
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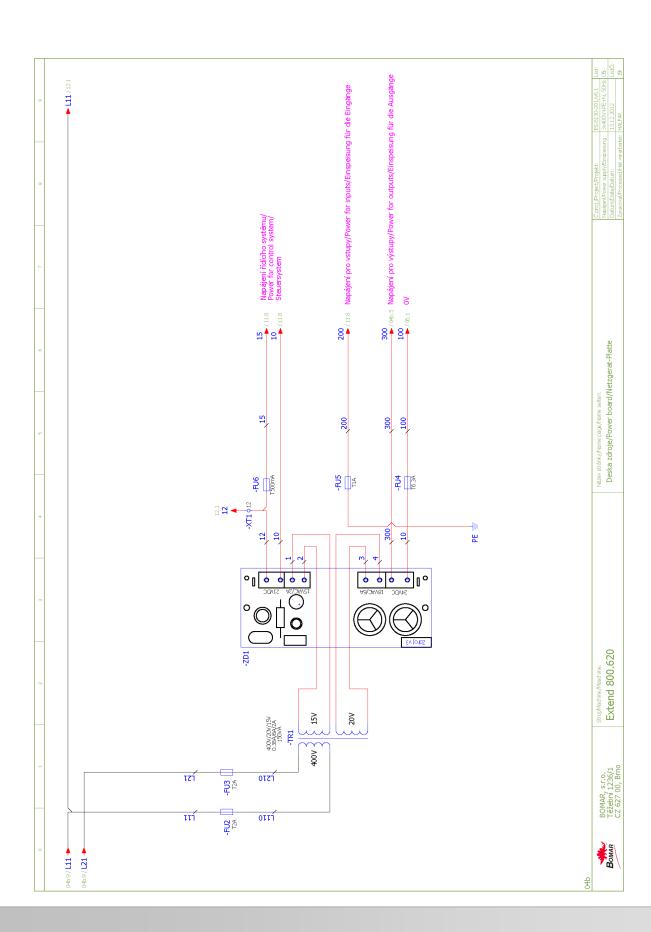




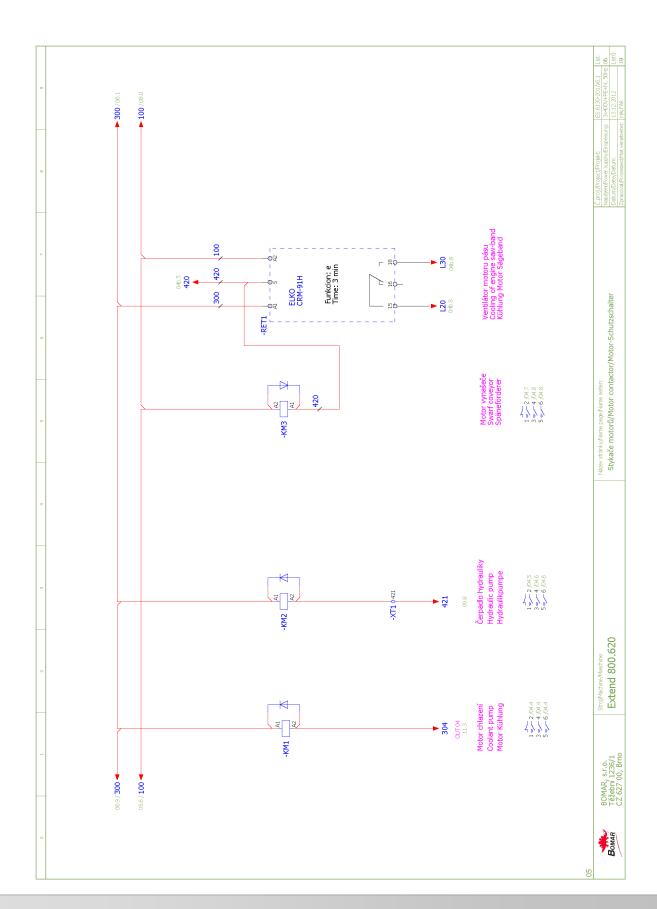




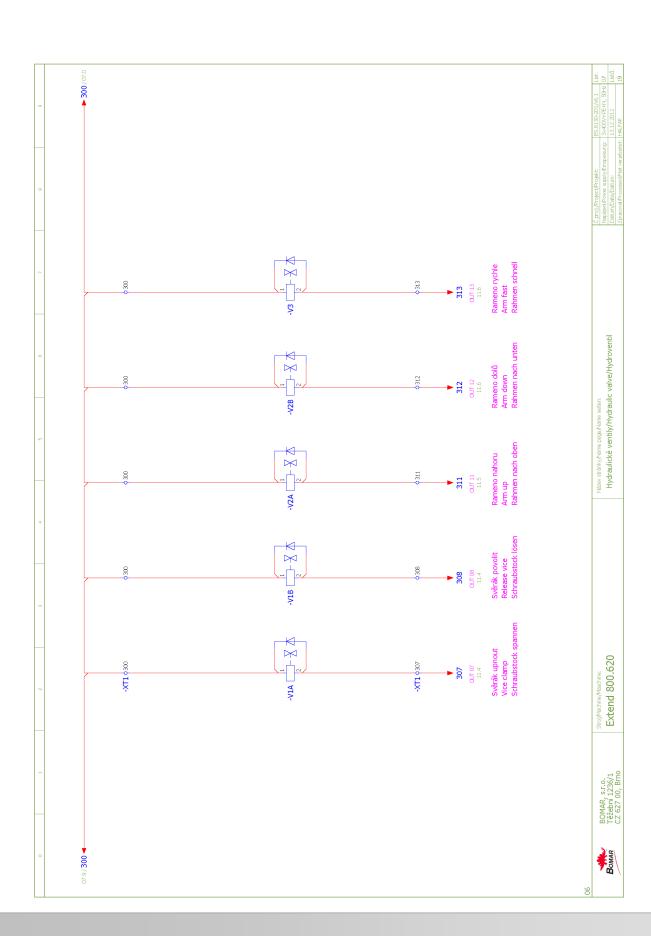




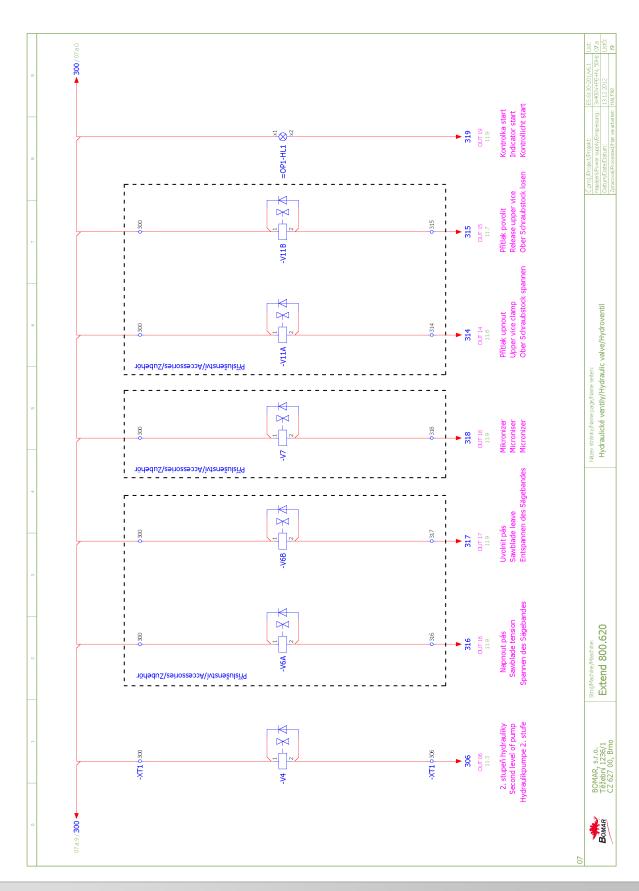




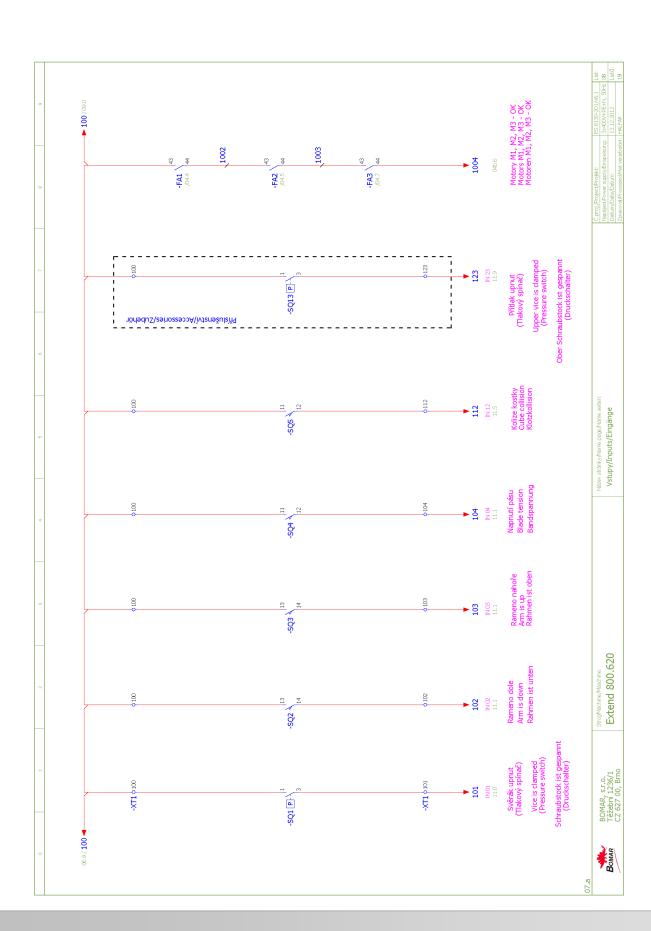


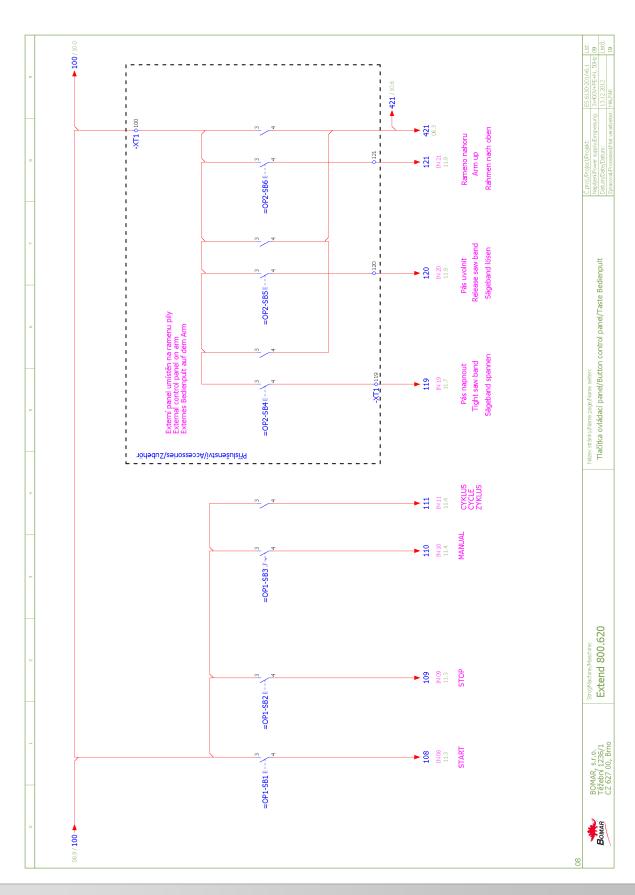




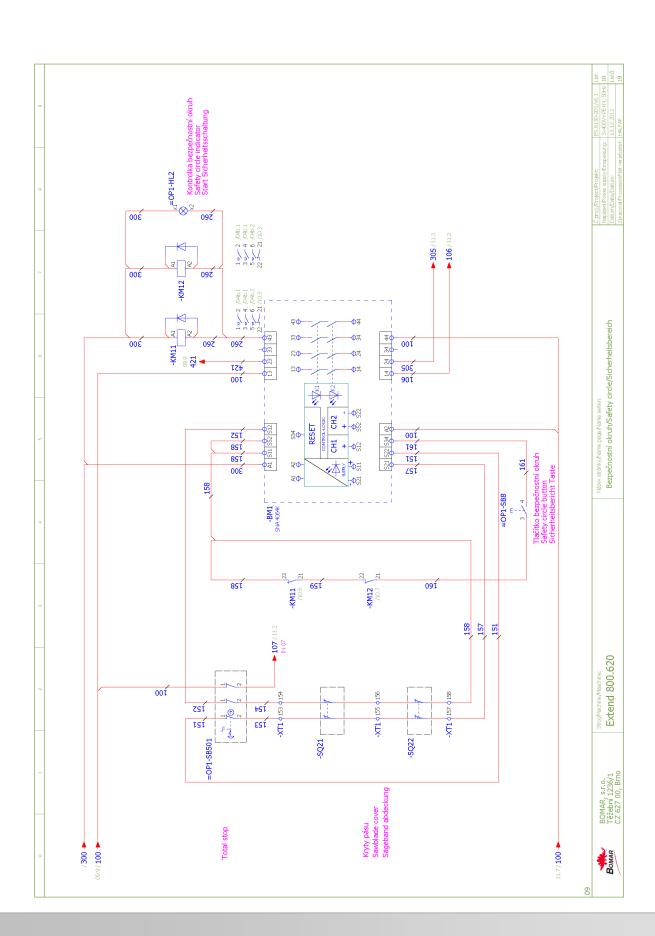




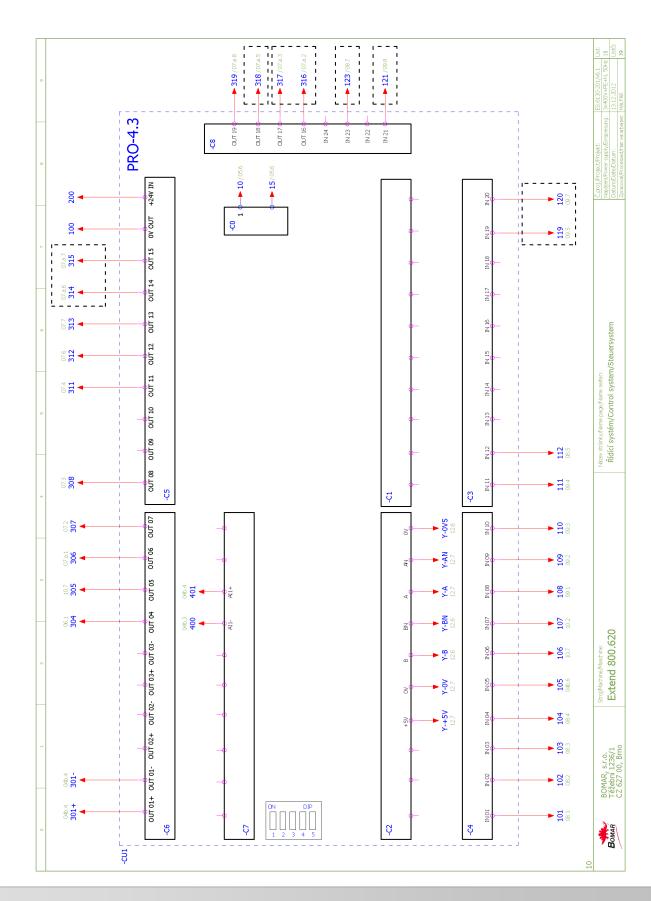




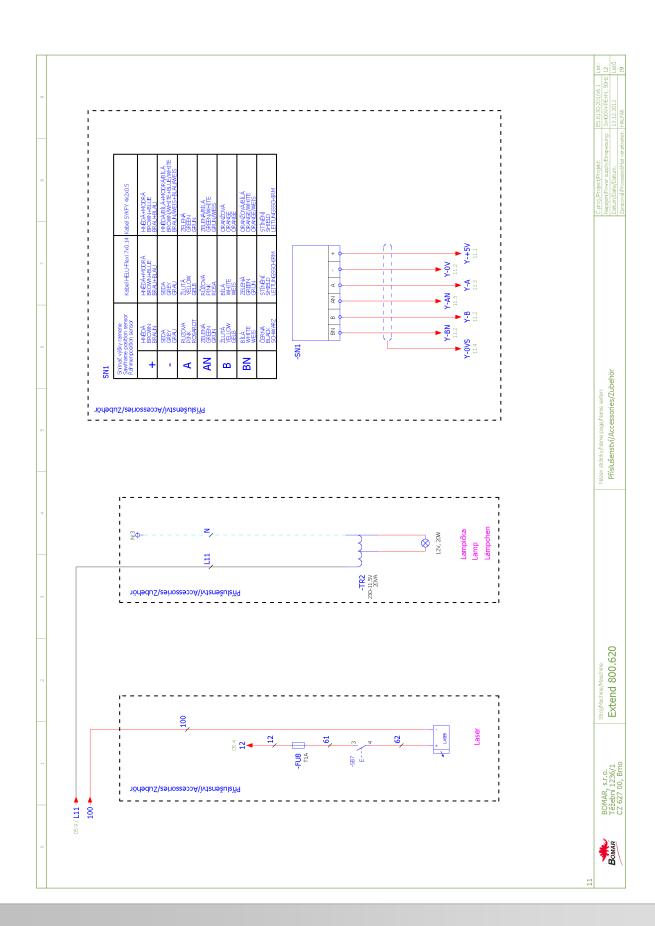














Parts list	-								
Parts lis									
	t								
Device tag		Device type		Type number	Manufacturer	Part number	Quantity	Page	
-RCF1	RCF filter			FBOPR1624		91.041.015		/04.3	
-RCF2	RCF filter			FBOPR1624		91.041.015		/04.4	
-RCF3	RCF filter			FBOPR1624		91.041.015		/04.7	
-RCF11	RCF filter			FBOPR1624		91.041.015		/04b.0	
-RCF12	RCF filter			FBOPR1624		91.041.015		/04b.0	
-RP1	Potentiometer 5k			TP195 4x7/N20A		91.283.015		/04b.3	
=OP1-SB501	Emergency-stop mushroom push-button + 3xNC	ush-button + 3xNC		YW1B-V4E02R		91.060.084		/10.2	
-ZD1	Power supply unit - 15VAC/24VDC;	VDC; 20VAC/28VDC		ZDR-03	Bomar	265.915		/05.2	
-KM1	Contactor - 4kW, 9A, 3NO+1NC, 24VDC	IC, 24VDC		DILEM-01-G(24VDC)	EATON	91.040.024		/06.1	
-KM2	Contactor - 4kW, 9A, 3NO+1NC, 24VDC	IC, 24VDC		DILEM-01-G(24VDC)	EATON	91.040.024		/06.3	
-KM3	Contactor - 4kW, 9A, 3NO+1NC, 24VDC	IC, 24VDC		DILEM-01-G(24VDC)	EATON	91.040.024		/06.5	
-KM11	Contactor - 5,5kW, 12A, 3NO+1NC,	HINC, 24VDC		DILM12-01(24VDC)	EATON	91.040.025		/10.6	
-KM12	Contactor - 5,5kW, 12A, 3NO+1NC,	HINC, 24VDC		DILM12-01(24VDC)	EATON	91.040.025		/10.7	
=0P1-HL1	Green light for Eaton adapter			M22-LED-G	EATON	91.061.023		/07.a.8	
=0P1-HL2	White light for Eaton adapter			M22-LED-W	EATON	91.061.034		/10.8	
=OP1-SB1	Green translucent switch head			M22-DL-G	EATON	91.060.031		/09.1	
=0P1-SB1	Attaching adapter + NO contact	ct		M22-AK10	EATON	91.061.021		/09.1	
=0P1-SB2	Attaching adapter + NO contact	ct		M22-AK10	EATON	91.061.021		/09.2	
=0P1-SB2	Black switch head			M22-D-S	EATON	91.060.035		/09.2	
=OP1-SB3	Head of 3 positional switch			M22-WRK3	EATON	91.060.051		/09.3	
=OP1-SB3	NO contact for Eaton adapter			M22-K10	EATON	91.061.022		/09.3	
=OP1-SB3	Attaching adapter + NO contact	ct		M22-AK10	EATON	91.061.021		/09.3	
=0P1-SB8	Attaching adapter + NO contact	ct		M22-AK10	EATON	91.061.021	1	/10.4	
=OP1-SB8	Yellow translucent switch head	T		M22-DL-Y	EATON	91.060.053		/10.4	
-FU1	Tube fuse - 200mA/250V, slow, 5x20	v, 5x20		T200mA/250V	ESKA	91.230.037	П	/04b.8	
-FU2	Tube fuse - 2A/250V, slow, 5x20	20		T2A/250V	ESKA	91.230.001		/05.0	
-FU3	Tube fuse - 2A/250V, slow, 5x20	20		T2A/250V	ESKA	91.230.001	1	/05.1	
-FU4	Tube fuse - 6,3A/250V, slow, 5x20	5x20		T6,3A/250V	ESKA	91.230.002	П	/05.4	
		line:	Náze	Název stránky/Name page,Name seiten:			Č.proj./Project/Projekt:	ES.6130-201/v6.1 Li	ii ~
Вомая	Těžební 1236/1 CZ 627 00, Brno	0.620		Kusovník artiklů/ Parts list/ Artikelstückliste	kelstückliste		Datum/Date/Datum: Zpracoval/Processed/Hat	Datum/Date/Datum: 13.12.2012 Listů: Zpracoval/Processed/Hat verarbeitet: HALFAR 19	etç:



Parts list									
Device tag		Device type	90		Type number	Manufacturer	Part number	Quantity	Page
-FU5	Tube fuse - 1A	Tube fuse - 1A/250V, slow, 5x20			T1A/250V	ESKA	91.230.003	П	/05.4
-FU6	Tube fuse - 50	Tube fuse - 500mA/250V, slow, 5x20			T500mA/250V	ESKA	91.230.011	н	/05.4
-FU8	Tube fuse - 1A	Tube fuse - 1A/250V, slow, 5x20			T1A/250V	ESKA	91.230.003		/12.1
-M1	Pump - 120W, 230/400V	230/400V			4C0A4-12H	EmP	91.020.015		/04.4
-TR1	Toroidal transf.	Toroidal transformer - 0-230-400V/20V/15V, 0.65-0.38A/6A/2A, 150VA	5V, 0.65-0.38A/6A/2A, 15	0VA	1502304002015	KARBAN s.r.o.	91.080.026	П	/05.1
-5021	Safety limit switch, 2xNC	ritch, 2xNC			QKS8	KEDU	91.173.012	н	/10.2
-5022	Safety limit switch, 2xNC	ritch, 2xNC			QKS8	KEDU	91.173.012		/10.2
-PA1	Fuse case for c	Fuse case for cylindric fuse 10x38mm - 3F	- 3P, size 10		OPV10/3	OEZ	91.241.002	1	/04b.1
-PA1	Cylindric fuse -	Cylindric fuse - 20A, 10x38, fast, gG charakteristic	akteristic		PV10 20A gG	OEZ	91.230.038	m	/04b.1
-5Q2	Limit switch - 3	Limit switch - 1NC+1NO, M20, slow			D4N-4A31	OMRON	91.173.007	П	/08.2
-5Q3	Limit switch - 1	Limit switch - 1NC+1NO, M20, slow			D4N-4A31	OMRON	91.173.007	1	/08.3
-504	Limit switch - 1	Limit switch - 1NC+1NO, M20, slow			D4N-4A32	OMRON	91.173.010	П	/08.4
-505	Limit switcher	Limit switcher - 1NO + 1NC, large adjustable roller, M2, snap action	able roller, M2, snap action		FR 555-M2	PIZZATO	91.173.018	H	/08.5
-FA1	Motor-overcur	Motor-overcurrent circuit breaker 0.25-0.4A	4A		GZ1M03	SCHNEIDER	91.235.022	1	/04.4
-FA1	Auxiliary conta	Auxiliary contact of MOCB - 1xNO+1xNC			GZ1AN11	SCHNEIDER	91.046.004	П	/04.4
-FA2	Motor-overcur	Motor-overcurrent circuit breaker 4-6.3A			GZ1M10	SCHNEIDER	91.235.026	1	/04.5
-FA2	Auxiliary conta	Auxiliary contact of MOCB - 1xNO+1xNC			GZ1AN11	SCHNEIDER	91.046.004	П	/04.5
-FA3	Motor-overcur	Motor-overcurrent circuit breaker 0.63-1A			GZ1M05	SCHNEIDER	91.235.023	1	/04.7
-FA3	Auxiliary conta	Auxiliary contact of MOCB - 1xNO+1xNC			GZ1AN11	SCHNEIDER	91.046.004	1	/04.7
-051	Main switch 3P, 32A	, 32A			VCF1-32A	SCHNEIDER	91.170.012	1	/04.0
-BM1	Safety relay - 4xNO	4×NO			SNA 4064K	WIELAND	91.051.026	11	/10.4
-cui	PRO-4.3				PRO-4.3	Bomar	265.917	1	/11.0
-FM1	Frequency con	Frequency converter - 4kW, 3x400V			VACON0010-3L-0009-4	VACON	91.012.062	П	/04b.1
-RET1	Multifunction ti	Multifunction time relay - 12-240V, 10 functions	nctions		CRM-91H/UNI	ELKO	91.051.027	Ţ	9.90/
-FU1	Fuse case				WK4/THSi5U	WIELAND	91.251.102	T	/04b.8
-FU2	Fuse case				WK4/THSi5U	WIELAND	91.251.102		/05.0
-FU3	Fuse case				WK4/THSi5U	WIELAND	91.251.102	1	/05.1
-FU4	Fuse case				WK4/THSi5U	WIELAND	91.251.102	П	/05.4

BOMAR, s.r.o. Těžební 1236/1 CZ 627 00, Bmo

Stroj/Machine/Maschine:
Extend 800,620

Nåzev strärky/Name page/Name seiten: Kusovník artiklů/ Parts list/ Artikelstückliste





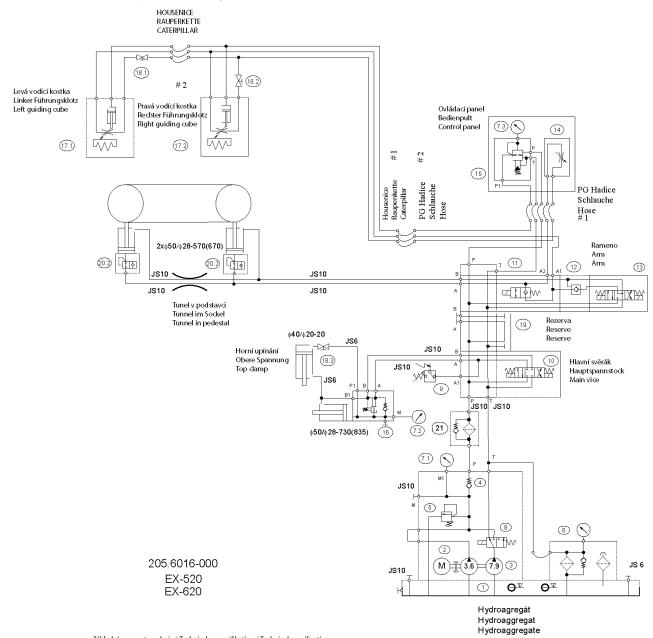


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	Page	/05.4	/05.4	/12.1	/04b.8
ω	Quantity				
	Part number	91.251.102	91.251.102	91.251.102	91.015.105
v.	Manufacturer	WIELAND	WIELAND	WIELAND	XFAN
un un	Type number	WK4/THSi5U	WK4/THSi5U	WK4/THSi5U	RAH1278B1-C
4					
	type				
7	Device				Cooling ventilator - 230V, 50Hz, 0,12A
		Fuse case	Fuse case	Fuse case	Cooling ventilat
Parts list	Device tag	10			
Par	Dev	-FU5	-FU6	-FU8	-M5

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6.2. Hydraulické schéma / Hydraulikschema / Hydraulic diagram



 $Z\'{a}kladn\'{i}\ parametry\ zdroje\ /\ Technische\ specifikation\ /\ Technical\ specification$

р	6,5 Mpa
ø	10,6+4,9 dm3/min
n	1425 ot./min
Р	2.2 kW



Poz.	Název položky		ks
Pos.	Bezeichnung		Menge
Pos.	Item		Pcs.
1	Nádrž / Behälter / Tank	N30-BO	1
2	Elektromotor / Elektromotor / Electromotor	MA-AL100L 400/230V 50 Hz	1
3	Hydrogenerátor / Hydraulikgenerator / Hydrogenerator	P23-7,9/3,6 L65334	1
4	Jednosměrný ventil / Einwegventil / One-way valve	VJ01-06/SG-1	1
5	Přepouštěcí ventil / Bypaßventil / By pass valve	VPP2-04/S-10S	1
6	Zpětný filtr / Filter / Filter	FR 043-166/0 10um	1
7	Manometr / Manometer / Manometer	Ø68 0-10 MPa	3(2)
8	Rozváděč / Schaltschrank / Switchboard	SD2E-A3/H2D21	1
9	Tlakový spínač / Druckschalter / Pressure switch 92.201.001	166411031043	1
10	Rozváděč / Schaltschrank / Switchboard	RPE3- 043Z11/02400E1K1	1
11	Blok rychloposuvu / Eilgangsblock / Speed shift block	729-0084	1
12	Hydraulický zámek / Hydraulisches Schloß / Hydraulic lock	VJR1-04/MA	1
13	Rozváděč / Schaltschrank / Switchboard	RPE3- 043Y11/02400E1K1	1
14	Škrtící ventil / Drosselventil / Throttle-valve	VS01-04/R2,5	1
15	Redukční ventil / Reduktionventil /	VRN2-06/S-6R	1
16	Redukční ventil / Reduktionventil /	VRN2-06/S-6R	1(0)
17	Kostka regulace / Regulationklotz /		2
18	Kulový ventil /Kugelventil / Globe valve		3(2)
19	Krycí deska / Schutzplatte / Cover platte	DK 1-04/32-2	1
20	Pojistný ventil / Sicherungventil / Safety valve	VPNH 1/4	2
21	Tlakový filtr / Druckfilter / Pressure filter	D 420153+V3,0510-03	1



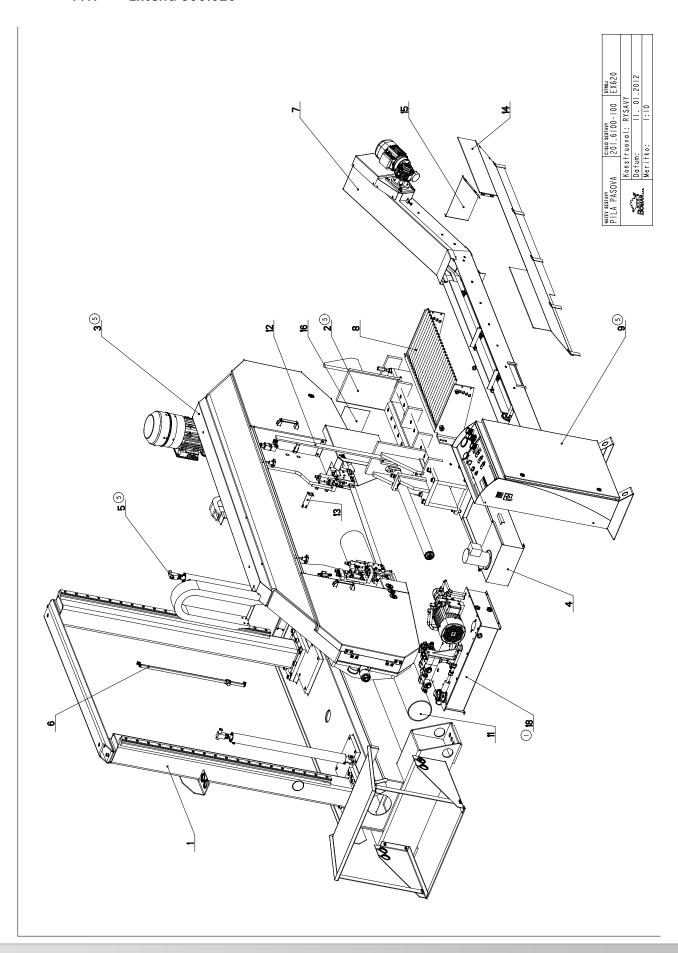


7. Výkresy sestav pro objednání náhradních dílů / Zeichnungen für Bestellung der Ersatzteile / Drawing assemblies for spare parts order

- Při objednávání náhradních dílů vždy uvádějte: typ stroje (např. practix Extend 800.620), výrobní číslo (např. 125) a rok výroby (např. 1999).
- In die Bestellung der Ersatzteile führen Sie immer an: Maschinentyp (z. B. Extend 800.620), Serien Nr. (z. B. 125) und Baujahr (z. B. 1999).
- For spare parts order, you must always to allege: type of machine (for example Extend 800.620), serial number (for example 125, see cover page) and year of construction (for example 1999).



7.1. Extend 800.620





Kusovník / Stückliste / Piece list -7.2. Extend 800.620

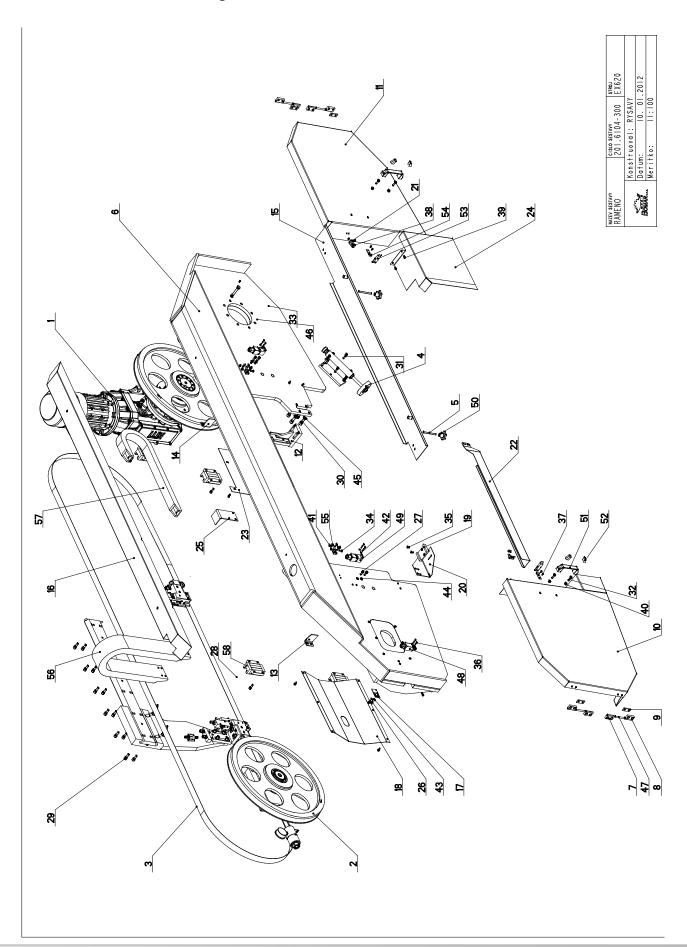
Cisl	Cislo Sestavy	Ver	Ver. Nazev sestavy		
07	001-0010:	7	TILA TASOVA/DAND SAW/DANDSAGE		
		-			
Poz.	Objednaci cislo	Ver.	Nazev polozky	Rozmer	Кs
_	201.6101-100	2	PODSTAVEC / BASE / UNTERSATZ		_
2	201.6103-150 (5)	0	SVERAK / VICE / SCHRAUBSTOCK		_
m	201.6104-300 (5)	0	RAMENO / SHOULDER / SĀGERAHMEN		_
4	201.6106-000	_	CHLAZENI / COOLING / KÜHLUNG		_
5	201.6107-600 (5)	_	VALEC ZVEDACI / LIFTING CYLINDER / HEBEZYLINDER		2
9	201.6114-020	0	ODMEROVANI / MEASURING / GEHRUNGSMESSUNG		_
7	201,6117-100	4	VYNASEC TRISKOVY / CHIP EXTRACTOR / SPANABFÜHRUNG		_
∞	201.6118-100	0	ROST / GRILL / GITTER		_
6	201. Y430-000 (5)	0	OVLADACI PANEL / CONTROL PANEL / BEDIENPULT		_
0	202.6120-100	4	PRISLUSENSTVI / /		_
=	30.6101-109	_	TRUBKA / TUBE / ROHR	D 150	_
12	30,6103-110	_	LISTA DORAZOVA / STOP BAR / ANSCHLAGLEISTE	HR.40x10	_
-33	30.6/04-006	0	DRZAK / HOLDER / HALTER	P3x35	_
14	30.6114-154	0	KRYT / COVER / ABDECKUNG		_
-12	30.6114-156	0	KRYT / COVER / ABDECKUNG	P 2x382	_
9_	30.6114-160	0	CLONA / CURTAIN / SCHÜRZE	2×180	_
1.7	31.6199-001	0	STITEK / LABEL / SCHILD	P 0.5x65	_
8_	92.001.048	0	AGREGAT HYDRAULICKY / HYDRAULIC GENERATOR / HYDRAULIKAGGREGAT		_
6-	99.900.039 (2)	0	SAMOLEPKA / STICKER / AUFKLEBER	NEBEZP.STLACENI	_
20	99.900.040	0	SAMOLEPKA / STICKER / AUFKLEBER		_
21	99.900.043 (2)	0	SAMOLEPKA / STICKER / AUFKLEBER		_
22	99.900.045	0	SAMOLEPKA / STICKER / AUFKLEBER		_
23	99.900.046	0	SAMOLEPKA / STICKER / AUFKLEBER		_
24	99.900.047	0	SAMOLEPKA / STICKER / AUFKLEBER		_
25	99.900.048 (2)	0	SAMOLEPKA / STICKER / AUFKLEBER		_
56	99.900.049	0	SAMOLEPKA / STICKER / AUFKLEBER		_
27	99.900.050	0	SAMOLEPKA / STICKER / AUFKLEBER		2
28	99.900.053	0	SAMOLEPKA / STICKER / AUFKLEBER		2
29	99.901.032	0	SAMOLEPKA / STICKER / AUFKLEBER	CETIFIKACNI SAMOLEPKA	_
I. ZMI	I. ZMENA AGREGATU, ZRUSENA POLOZKA	POLOZK#	1 92.001.046 A NAHRAZENA POLOZKOU 92.001.048. ZM371 15.12.2006 RYSAVY		

1. ZMENA AGKEGAIU, ZKUSENA POLOZKA 92. UUI. U46 A NAHKALENA POLOZKOU 92. UUI. 048. ZM3/I 15. IZ. 2006 RYSAVY
2. PRIDANY DO KUSOVNIKU BEZPECNOSTNI SAMOLAPKY . 150/ZM178 26.4. 2007 RYSAVY
3. PRIDANO PRISLUSEUSENSTVI 202.6120-100. ZM288 25.6. 2007 RYSAVY
4. VYMENA RAMENE . ZRUS. SOUC. 201.6104-100 A NAHR. 201.6104-200. 452/ZM452 13. IZ. 2007 SLEZACKOVA
5. PRIDANA CERTIFIKACNI ZNACKA 99.901.032. 040/ZM226-3 . 24.8. 2010 SLEZACKOVA
5. ZRUS. RAMENO 201.6104-200 A NAHR. 201.6104-300, ZRUS. SVERAK 201.6103-100 A NAHR. 201.6104-300, ZRUS. SVERAK 201.6103-100 A NAHR. 201.6103-150, ZRUS. ROZVADEC 201.6030-400 A NAHR. 201.7430-000.

Cislo Sestavy/Number of assembly/Nummer der Baugruppe; Verze (Ver.)/Version/Version; Nazev sestavy/Assembly title/Name der Baugruppe; Pozice (Poz.)/Position/Position; Objednaci cislo/Purchase order number/Bestellnummer; Nazev polozky/Volume title/Name der Position; Rozmer/Stock size/Abmessung



7.3. Rameno / Sägerahmen / Saw arm - 1





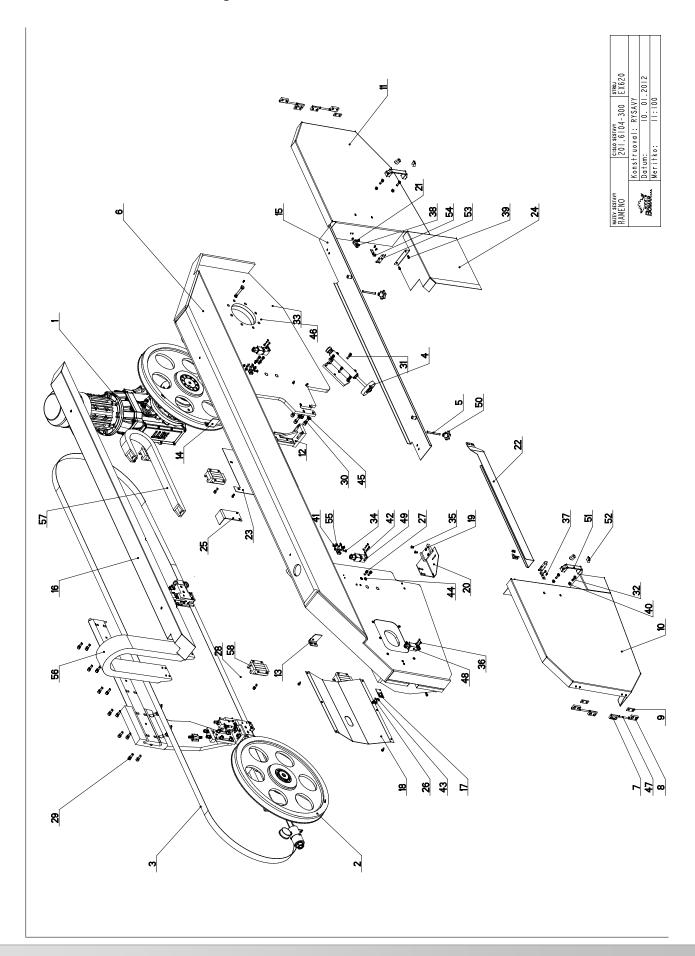
7.4. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 1

Fo. Operator into For. More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patient More of patients More of patients More of patients More of patients More of patients	Cislo 201	Cislo Sestavy 201.6104-300	Ver.	Nazew sestavy RAMENO/SHOULDER/SĀGERAHMEN		
CD ACCOUNT VOIT MARKEY POPCETY MARKY POPCETY MARKEY POPCETY MARKY POPCETY M						
201.610-250 Demont / 201.610-250 Demont	Poz.	. <u>.</u> .	Ver.		Rozmer	Кs
201. 6106 100 2 WEP IMAN I TESS DOI ING SPANNING 201. 6106 100 201. 6106 100 201. 6106 100 201. 6106	_	201.6105-250	0	/ DRIVE /		_
201, 611-0-500 4 VEDENT PASIL / BELT GLUDE SÄÄGEAMDETHHUNG 201, 611-0-501 0 RAMENO / SIGNOL PELT GLUDE SÄÄGEAMDETHHUNG 30, 6020-1045 0 RAMENO / SIGNOL PELT SÄÄGEAMDETHEN 30, 6021-1020 0 RAMENO / SIGNOL PELT SÄÄGEAMDETHEN 30, 601-1101 0 DESSA / HUNE / TÖBBARD PALTTE 30, 601-1101 0 DESSA / HOUDER / HALTER PALTTE 30, 611-1204 1 DYERE / DOOR / TÖB 30, 611-1204 1 DYERE / DOOR / TÖB 30, 611-1204 1 DRZAK / HOUDER / HALTER PALTTE 30, 611-1204 1 DRZAK / HOUDER / HALTER PALTTE 30, 611-1304 1 DRZAK / HOUDER / HALTER 30, 611-1304 1 DRZAK / HOUDER / HALTER 30, 611-1304 1 DRZAK / HOUDER / HALTER 30, 611-1404 2 DRZAK / HOUDER / HALTER 30, 611-1404 3 DRZA	2	201,6108-100	2	/ TENSION!		_
20.1614-100 D. KARTAC BRISH / BIRRIE S9.0203-4055 O. SARANGE S9.0203-4055 O. SERAN POLOTE / JOSEAN S9.0203-4055 O. SERA / POLOTE / JOSEAN S9.0203-4055 O. SERA / POLOTE / JOSEAN S9.0203-4055 O. SERA / POLOTE / HALTER S9.0104-206 O. DYER / JOORA / TÖR S9.0104-206 O. DYER / JOORA / TÜR S9.0104-206 O. DYER / JOORA / JOOR	m	201.6110-500	4			_
20.0201-600-5 0 SMRCBU / BOLL / SCHAMBER 20.0201-600-5 0 SMRCBU / SMRUDER / SAGERAHMEN 20.0201-200-5 0 SMRCBU / SMRUDER / SAGERAHMEN 20.0201-101 1 DESRA / P. A. T.	4	201.6114-100	0	KARTAC / BRUSH / BÜRSTE		_
10.001-301 10.001-201 10.	5	30.0203-005	0	SROUB / BOLT / SCHRAUBE	M8	2
30.6014-109.1 1 PESNA / PESNA PESNA PESNA PESNA PESNA PESNA PESNA	9	30.601-301	0	/ SHOULDER /		_
30.001-2100 1 PANT / HINGE / TÜRBAND 19.001-210	7	30.6014-109.1	_	DESKA / /	HR 30x12	4
39.6014-111 0 DESEMA / BOARD / PLATTE HIR 30.6104-205 1 DYEER / DOOR / TÜR PLATTER 30.6104-205 1 DYEER / DOOR / TÜR PLATTER 30.610-126 2 DAZAK / HOLDER / HALTER PRAZAK / HOLDER / HALTER 30.6114-123 0 DRZAK / HOLDER / HALTER PRAZAK / HOLDER / HALTER 30.6114-124 1 DRZAK / HOLDER / HALTER PRAZAK / HOLDER / HALTER 30.6114-140 2 DRZAK / HOLDER / HALTER PRAZAK / HOLDER / HALTER 30.6114-143 1 DRZAK / HOLDER / HALTER PRAZAK / HOLDER / HALTER 30.6114-140 0 KRYT RAMEN / TOKKE / BANDSFANNUNGSABDECKUNG PRAZAK / HOLDER / HALTER 30.6114-140 0 KRYT RAMEN / HALTER PRAZAK / HOLDER / HALTER 30.6114-140 0 KRYT RAMENKAU / BRUSK COKER / BANDSECKUNG PRAZAK / HOLDER / HALTER 30.6114-160 0 KRYT RATICKU / BRUSK COKER / BANDSECKUNG PRAZAK / HOLDER / HALTER 30.6114-160 0 KRYT RATICKU / BRUSK COKER / BANDSCHANGE PRAZAK / HOLDER / HALTER 30.6114-150 0 KRYT RATICKU / BRUSK CA	∞	30.6014-110	_	/ HINGE	HR 30x12	4
30. 6104-205 1 DVERE F / DOOR / TÜR 30. 6104-206 1 DVERE F / DOOR / TÜR 30. 6104-206 1 DVERE F / HOLDE F / HALTER 30. 6114-124 2 DRZAK / HOLDE F / HALTER 30. 6114-124 1 DRZAK / HOLDE F / HALTER 30. 6114-124 1 DRZAK / HOLDE F / HALTER 30. 6114-139 1 RRYT / COVER / ABDECKUNG 30. 6114-140 2 RRYT ARADIAM I / TINXION NG COVER / BANDSPANNUNGSABDECKUNG P 30. 6114-145 0 RRYT ARADIAM I / TINXION NG COVER / BANDSPANNUNGSABDECKUNG P 30. 6114-145 0 RRYT RAMIAMA I / TINXION NG COVER / BANDSPECKUNG P 30. 6114-145 0 DRZAK / HOLDER / HALTER P 30. 6114-145 0 DRZAK / HOLDER / HALTER P 30. 6114-150 0 DRZAK / HOLDER / HALTER P 30. 6114-160 0 DRZAK / HOLDER / HALTER P 30. 6114-150 0 DRZAK / HOLDER / HALTER P 30. 6114-150 0 DRZAK / HOLDER / HALTER P 30. 6114-150	6	30.6014-111	0	/ BOARD / PL		4
30.6 Iol - 266 1 DYERE / DOOR / TÜR 30.6 Iol - 126 2 DRZAM / HOLDER / HALTER 30.6 Iol - 128 2 DRZAM / HOLDER / HALTER 30.6 II - 123 0 DRZAM / HOLDER / HALTER 30.6 II - 141 - 124 1 DRZAM / HOLDER / HALTER 30.6 II - 140 2 DRZAM / HOLDER / HALTER 30.6 II - 140 2 DRZAM / HOLDER / HALTER 30.6 II - 140 2 DRZAM / HOLDER / HALTER 30.6 II - 143 1 DRZAM / HOLDER / HALTER 30.6 II - 145 0 RRYIN MANI / LONER / HALTER 30.6 II - 145 0 RRYIN MANI / GLIDER / HALTER 30.6 II - 145 0 DRZAM / HOLDER / HALTER 30.6 II - 145 0 DRZAM / HOLDER / HALTER 30.6 II - 145 0 DRZAM / HOLDER / HALTER 30.6 II - 145 0 DRZAM / HOLDER / HALTER 30.6 II - 150 0 DRZAM / HOLDER / HALTER 30.6 II - 154 0 DRZAM / HOLDER / HALTER 30.6 II - 156 0 DRZAM / HOLDER / HALTER DRZAM / HOLDER / HALTER 30.6 II - 156 0 DRZAM / HOLDER / HALTER DRZAM / HOLDER / HALTER DRZAM / HOLDER / HALTER 90.001.25.048 0 DRZAM / HOLDER / HALTER HALD BOLT / IMBUSSCHRAUBE DRZAM / HOLDER / HAL	0_	30,6104-205	_	/ DOOR /		_
30.6110-126 2 DRZAM / HOLDER / HALTER PP 30.6114-123 0 DRZAM / HOLDER / HALTER PP 30.6114-124 1 DRZAM / HOLDER / HALTER PP 30.6114-124 1 DRZAM / HOLDER / HALTER PP 30.6114-140 2 KRYT RAMINE / SHOULDER COVER / BANDSPANNUNGSABDECKUNG PP 30.6114-143 1 DRZAM / HOLDER / HALTER PP 30.6114-145 0 KRYT RAPINANI / TENSIONING COVER / BANDSPANNUNGSABDECKUNG PP 30.6114-146 0 KRYT KARTACKU / GENSTENABDECKUNG PP 30.6114-146 0 KRYT KARTACKU / BUSSTENABDECKUNG PP 30.6114-156 0 KRYT KARTACKU / BUSSTENABDECKUNG PR <td>=</td> <td>30.6104-206</td> <td>_</td> <td>DVERE / DOOR / TÜR</td> <td></td> <td>_</td>	=	30.6104-206	_	DVERE / DOOR / TÜR		_
30.6114-123 0 DRZAK / HOLDER / HALTER PRZAK HOLDER / HALTER 30.6114-124 1 DRZAK / HOLDER / HALTER PRZAK PRZAK / HOLDER COVER / RAHMENABDECKUNG PP 30.6114-140 2 DRZAK / HOLDER / HALTER PP PP 30.6114-143 3 DRZAK / HOLDER / HALTER PP PP 30.6114-140 0 KRYT NAPINAN / TENSIONING COVER / BANDSPANNUNGSABDECKUNG PP 30.6114-143 0 KRYT NAPINAN / TENSIONING COVER / BANDSPANNUNGSABDECKUNG PP 30.6114-145 0 KRYT NAPINAN / TENSIONING COVER / BURSTENABDECKUNG PP 30.6114-146 0 RRYT RARTACKU / BRUSH COVER / BÜRSTENABDECKUNG PP 30.6114-150 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG PP 30.6114-150 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG PP 30.6114-153 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG PR 30.6114-156 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG PR 30.6114-158 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG PR	12	30.6110-126	2	DRZAK / HOLDER / HALTER		_
30.6114-124 1 DRZAK / HOLDER / HALTER 30.6114-139 1 RRYIT COVER / HABDECKUNG 30.6114-130 1 RRYIT RAMENE / SHOULDER COVER / BANDSPANNUNGSABDECKUNG P 30.6114-143 1 DRZAK / HOLDER / HALTER P 30.6114-146 0 KRYT NAPI MAI / TEKS ONING COVER / BANDSPANNUNGSABDECKUNG P 30.6114-146 0 KRYT NAPI MAI / TEKS ONING COVER / BANDSPANNUNGSABDECKUNG P 30.6114-146 0 RRYT MAPI MAI / TEKS ONING COVER / BÜRSTENABDECKUNG P 30.6114-146 0 RRYT MARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 30.6114-150 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 30.6114-150 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 30.6114-150 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 30.6114-156 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 30.6114-156 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 30.6114-156 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P	3	30.6114-123	0	DRZAK / HOLDER / HALTER	- 4	_
30. 6114-139 I RRYT / COVER / ABDECKUNG P 30. 6114-140 2 KRYT RAMENE / SHOULDER COVER / BAHMENABDECKUNG P 30. 6114-143 1 DRZAK / HOLDER / HALTER P 30. 6114-144 0 RRYT NAPINANI / TENSIONING COVER / BANDSPANNUNGSABDECKUNG P 30. 6114-146 2 DRZAK / HOLDER / HALTER P 30. 6114-146 0 RRYT RAPINANI / TENSIONING COVER / BÜRSTENABDECKUNG P 30. 6114-166 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 30. 6114-150 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 30. 6114-150 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 30. 6114-150 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 30. 6114-150 0 RRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 30. 6114-158 0 RRYT KARTACKU / BRUSH CAVER / BÜRSTENABDECKUNG P 30. 6114-158 0 RRYT KARTACKU / BRUSH CAVER / BÜRSTENABDECKUNG P 90. 001, 25, 016 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE R </td <td>4</td> <td>30.6114-124</td> <td>_</td> <td>DRZAK / HOLDER / HALTER</td> <td>4 -</td> <td>_</td>	4	30.6114-124	_	DRZAK / HOLDER / HALTER	4 -	_
30. 6.114-140 2 KRYT RAMENE / SHOULDER COVER / BANDSPANNUNGSABDECKUNG P 73 30. 6.114-143 1 DRZAK / HOLDER / HALTER P 74 30. 6.114-144 0 KRYT NAPI NAMI / TENS ONLING COVER / BANDSPANNUNGSABDECKUNG P 74 30. 6.114-145 0 KRYT KAPP CALLER P 74 30. 6.114-147 0 DRZAK / HOLDER / HALTER P 74 30. 6.114-150 0 KRYT KARTACKU / BANDSH COVER / BANDSHECKUNG P 7 30. 6.114-150 0 KRYT KARTACKU / BRUSH COVER / BANDSHECKUNG P 7 30. 6.114-150 0 KRYT KARTACKU / BRUSH COVER / BANDSCHRAUBE P 7 30. 6.114-150 0 KRYT KARTACKU / BRUSH COVER / BUSSCHRAUBE P 7 30. 6.114-150 0 SROUB I MBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE P 8 90. 001.25.03 0 SROUB I MBUS / CRREENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 8 90. 001.25.033 0 SROUB I MBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 8 90. 001.25.038 0 SROUB I MBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 8 90. 001.25.038 0 SROUB I MBUS / ALLEN HEAD	1.5	30.6114-139	_	/ COVER		_
30.6114-143 1 DRZAK / HOLDER / HALTER PRA- 30.6114-144 0 KRYT MAPINANI / TENSIONING COVER / BANDSPANNUNGSABDECKUNG P2- 30.6114-145 0 KLUZAK / GLIDER / GLETER TYC 30.6114-146 2 DRZAK / HOLDER / HALTER P3- 30.6114-146 2 DRZAK / HOLDER / HALTER P3- 30.6114-146 3 NRTY RARTACKU / BRUSH COVER / BGNSTENABDECKUNG P 2- 30.6114-150 0 KRYT KARTACKU / BRUSH COVER / BGNSTENABDECKUNG P 2- 30.6114-153 0 KRYT KARTACKU / BRUSH COVER / BURSTENABDECKUNG P 2- 30.6114-153 0 RRYT KARTACKU / BRUSH COVER / BURSTENABDECKUNG P 2- 30.6114-154 0 RRYT KARTACKU / BRUSH COVER / BURSTENABDECKUNG P 2- 30.6114-158 0 RRYAL / HOLDER / HALTER M 2- 30.6114-158 0 RROUB I IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 2- 30.010.25.035 0 SROUB I IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 2- 30.001.25.038 0 SROUB I IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 3-	9	30.6114-140	2	RAMENE / SHOULDER COVER /	P 1.5x244x2360	_
30.6114-144 0 KRYT NAPINANI / TENSIONING COVER / BANDSPANNUNGSABDECKUNG P2-4 30.6114-145 0 KLUZAK / GLIDER / GLEITER TYC 30.6114-146 2 DRZAK / HOLDER / HALTER P3- 30.6114-146 2 DRZAK / HOLDER / HALTER P3- 30.6114-150 0 KRYT PASU / BLUSH COVER / BÜRSTENABDECKUNG P 2- 30.6114-152 2 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 2- 30.6114-153 0 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 2- 30.6114-154 0 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 2- 90.001.25.016 0 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 2- 90.001.25.032 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 3- 90.001.25.033 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 10- 90.001.25.034 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 10- 90.001.25.035 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 10- 90.001.55.035 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSS	1.1	30.6 4- 43	_	DRZAK / HOLDER / HALTER	P3-35	_
30.6114-145 0 KLUZAK / GLIDER / GLETER 77C 30.6114-146 2 DRZAK / HOLDER / HALTER P3- 30.6114-146 2 DRZAK / HOLDER / HALTER P 3 30.6114-147 0 DRZAK / HOLDER / HALTER P 3 30.6114-150 0 KRYT RARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 2 30.6114-152 2 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 2 30.6114-153 0 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 2 30.6114-154 0 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 2 30.6114-158 0 KRYT KARTACKU / BRUSH CANDEL M 6 90.001.25.016 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 7 90.001.25.032 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 10 90.001.25.038 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 10 90.001.25.048 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 10 90.001.25.059 0 SROUB IMBUS / ALLEN HEAD BOLT / SECHSKANTSCHRAUBE M 10	8	30.6 4- 44	0		P2-460	_
30.6114-146 2 DRZAK / HOLDER / HALTER P 3- 30.6114-147 0 DRZAK / HOLDER / HALTER P 3- 30.6114-147 0 DRZAK / HOLDER / HALTER P 2 30.6114-150 0 KRYT RARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 2- 30.6114-152 2 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 2- 30.6114-153 0 MRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 2- 30.6114-158 0 MRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 4- 30.6114-158 0 MRYT KARTACKU / BRUSH CALEN HEAD BOLT / IMBUSSCHRAUBE MKS 90.001.25.016 0 SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE MKD 90.001.25.032 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MKD 90.001.25.038 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MKD 90.001.25.038 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MKD 90.001.25.048 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MKD 90.001.25.048 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCH	6	30.6114-145	0	KLUZAK / GLIDER / GLEITER	TYC 60x15	_
30.6114-147 0 DRZAK / HOLDER / HALTER P 3 30.6114-150 0 KRYT PASU / BELT COVER / BANDABDECKUNG P 2 30.6114-152 2 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 2 30.6114-153 0 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 4 30.6114-158 0 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 4 30.6114-158 0 DRZAK / HOLDER / HALTER M 5 90.001.25.016 0 SROUB IMBUS CERNEN / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 5 90.001.25.032 0 SROUB IMBUS CERNEN / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 5 90.001.25.033 0 SROUB IMBUS CERNEN / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 10 90.001.25.048 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 10 90.001.25.059 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 8 90.001.55.083 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 8 90.005.55.016 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M 8 90.005.55.056 0 SROUB IMBUS / ALLEN H	2.0	30.6 4- 46	2	DRZAK / HOLDER / HALTER	P3-150x199	_
30.6114-150 0 KRYT PASU / BELT COVER / BANDABDECKUNG P 2 30.6114-152 2 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 22 30.6114-153 0 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG P 42 30.6114-158 0 DRZAK / HOLDER / HALTER P 44 90.001.25.016 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M6X 90.001.25.032 0 SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE 8x23 90.001.25.048 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M10 90.001.25.059 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M10 90.001.55.083 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M12 90.005.55.016 0 SROUB GHRANNY / 6 SIDED BOLT / SCHSKANTSCHRAUBE M8x3 90.005.55.055 0 SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE SROUB 90.011.27.006 0 SAPUSTNY IMBUS / COUNTERSINK BOLT / SECHSKANTSCHRAUBE SROUB	21	30.6114-147	0	DRZAK / HOLDER / HALTER	P 3x30x60	2
30.6114-152 2 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG 30.6114-153 0 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG 30.6114-158 0 DRZAK / HOLDER / HALTER 90.001.25.016 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.033 0 SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.033 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.038 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.059 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.083 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.005.55.016 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.005.55.016 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.005.55.016 0 SROUB GHRANNY / 6 SIDED BOLT / SCHSKANTSCHRAUBE 90.005.55.016 0 SROUB GHRANNY / 6 SIDED BOLT / SCHSKANTSCHRAUBE	22	30.6114-150	0	KRYT PASU / BELT COVER / BANDABDECKUNG	~	_
30.6114-153 0 KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG 30.6114-158 0 DRZAK / HOLDER / HALTER 90.001.25.016 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.032 0 SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.033 0 SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.048 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.059 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.55.083 0 SROUB / BOLT / SCHRAUBE 90.005.55.016 0 SROUB / BOLT / SCHRAUBE 90.005.55.016 0 SROUB / HRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE 90.005.55.016 0 SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE	23	30.6114-152	2	/ BRUSH COVER	P 2x 410	_
30.6114-158 0 DRZAK / HOLDER / HALTER 90.001.25.016 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.032 0 SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.033 0 SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.048 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.059 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.55.083 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.005.55.016 0 SROUB GHRANNY / 6 SIDED BOLT / SCHSKANTSCHRAUBE 90.005.55.056 0 SROUB GHRANNY / 6 SIDED BOLT / SCHSKANTSCHRAUBE 90.01.27.006 0 ZAPUSTNY IMBUS / COUNTERSINK BOLT / SCHSKANTSCHRAUBE	24	30.6114-153	0		P 2x557x600	_
90.001.25.036 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.032 0 SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.033 0 SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.048 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.059 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.55.016 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.005.55.016 0 SROUB GHRANNY / 6 SIDED BOLT / SCHSKANTSCHRAUBE 90.005.55.055 0 SROUB GHRANNY / 6 SIDED BOLT / SCHSKANTSCHRAUBE 90.011.27.006 0 ZAPUSTNY IMBUS / COUNTERSINK BOLT / SECHSKANTSCHRAUBE	2.5	30.6114-158	0		P 4x70x190	_
90.001.25.032 0 SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.033 0 SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.048 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.059 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.55.083 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.005.55.016 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.005.55.055 0 SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE 90.005.55.056 0 SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE	26	90.001.25.016	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M6X12	12
90.001.25.033 0 SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.048 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.059 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.55.083 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.005.55.016 0 SROUB BOLT / SCHRAUBE 90.005.55.055 0 SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE 90.011.27.006 0 ZAPUSTNY IMBUS / COUNTERSINK BOLT / SENKSCHRAUBE	27	90.001.25.032	0	SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE	8x20	4
90.001.25.048 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.25.059 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.55.083 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.005.55.016 0 SROUB / BOLT / SCHRAUBE 90.005.55.015 0 SROUB 6HRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE 90.005.55.055 0 SROUB 6HRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE	28	90.001.25.033	0	SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE	8x25	9
90.001.25.059 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.001.55.083 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.005.55.016 0 SROUB / BOLT / SCHRAUBE 90.005.55.055 0 SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE 90.011.27.006 0 ZAPUSTNY IMBUS / COUNTERSINK BOLT / SENKSCHRAUBE	29	90.001.25.048	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M10X30	12
90.001.55.083 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.005.55.016 0 SROUB / BOLT / SCHRAUBE 90.005.55.055 0 SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE 90.011.27.006 0 ZAPUSTNY IMBUS / COUNTERSINK BOLT / SENKSCHRAUBE	30	90.001.25.059	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M12X35	4
90.005.55.016 0 SROUB / BOLT / SCHRAUBE 90.005.55.055 0 SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE 90.011.27.006 0 ZAPUSTNY IMBUS / COUNTERSINK BOLT / SENKSCHRAUBE	3	90.001.55.083	0	IMBUS / ALLEN	M8X30	2
90.005.55.055 0 SROUB 6HRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE 00.011.27.006 0 ZAPUSTNY IMBUS / COUNTERSINK BOLT / SENKSCHRAUBE	32	90.005.55.016	0	/ BOLT /	M8x25	4
90.011.27.006 0 ZAPUSTNY IMBUS / COUNTERSINK BOLT / SENKSCHRAUBE	33	90.005.55.055	0	6HRANNY / 6 S	SROUB MI2X60	8
	34	90.011.27.006	0	7	SROUB M6X20	∞

Cislo Sestavy/Number of assembly/Nummer der Baugruppe; Verze (Ver.)/Version/Version; Nazev sestavy/Assembly title/Name der Baugruppe; Pozice (Poz.)/Position/Position; Objednaci cislo/Purchase order number/Bestellnummer; Nazev polozky/Volume title/Name der Position; Rozmer/Stock size/Abmessung



7.5. Rameno / Sägerahmen / Saw arm - 2





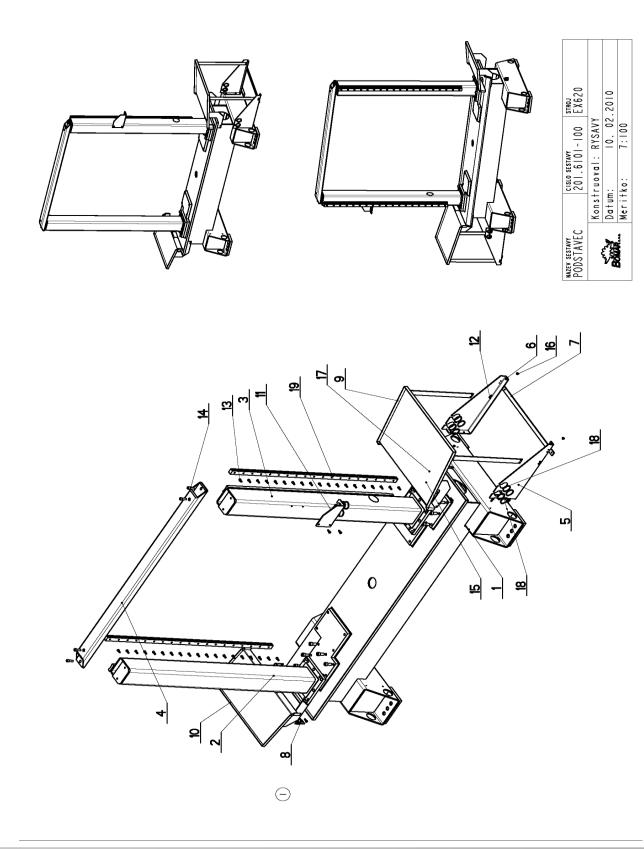
7.6. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 2

35	90.011.27.017	0	ZAPUSTNY IMBUS / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB M6X16	2
36	90.012.50.007	0	SROUB / ROLLER BOLT / ZYLINDERSCHRAUBE	SROUB M4X30	9
37	90.013.27.001	0	SROUB / BOLT / SCHRAUBE	M4x8	8
38	90.013.27.002	0	SROUB PULKULATY / HALF ROUND BOLT / HALBRUNDSCHRAUBE	M5X6	9
39	90.013.27.007	0	SROUB PULKULATY / HALF ROUND BOLT / HALBRUNDSCHRAUBE	M6X10	2
40	90.100.55.005	0	MATICE / NUT / MUTTER	MATICE _ M8	4
4	90.101.55.008	0	MATICE / NUT / MUTTER	MATICE M6	4
42	90.150.50.002	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 4,3	9
43	90.150.50.004	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 6,4	2
44	90.150.50.005	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	A 8	4
45	90.150.50.007	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 13	4
46	90.158.50.009	0	PODLOZKA PRUZNA / SPRING WASHER / FEDERSCHEIBE	PODLOZKA 12	8
47	90.300.02.017	0	KOLIK VALC. KAL. / CYLINDRICAL PIN TEMPERED / ZYLINDERSTIFT GEHARTET	KOLIK 8X70	4
48	91.173.009	0	SPINAC KONCOVY / END SWITCH / ENDSCHALTER		_
49	91.173.012	0	SPINAC KONCOVY / END SWITCH / ENDSCHALTER	OKS8-2×NC	2
50	94.003.001	0	HLAVICE / HEAD / KOPF		2
5	94.012.001	0	RUKOJET / HANDLE / GRIFF		2
52	94.012.002	0	KRYT / COVER / ABDECKUNG		4
53	99.100.003	0	ZAMEN / LOCK / SCHLOSS		2
54	99.100.004	0	ZAMEN / LOCK / SCHLOSS	D13-00	2
55	99.100.007	0	PANT / HINGE / TÜRBAND		2
56	99.170.001	0	RETEZ ENERGII / ENERGY BELT / ENERGIEKETTE	0555.030.075.100	_
57	99.170.015	0	RETEZ ENERGII / ENERGY BELT / ENERGIEKETTE	MP 3002R95	_
58	99.201.002	0	VOZIK LINEARNIHO VEDENI / LINEAR GUIDE CART / LINEARFÜHRUNGSWAGEN	HGW35HC	4

Cislo Sestavy/Number of assembly/Nummer der Baugruppe; Verze (Ver.)/Version/Version; Nazev sestavy/Assembly title/Name der Baugruppe; Pozice (Poz.)/Position/Position; Objednaci cislo/Purchase order number/Bestellnummer; Nazev polozky/Volume title/Name der Position; Rozmer/Stock size/Abmessung



7.7. Podstavec / Untersatz / Base





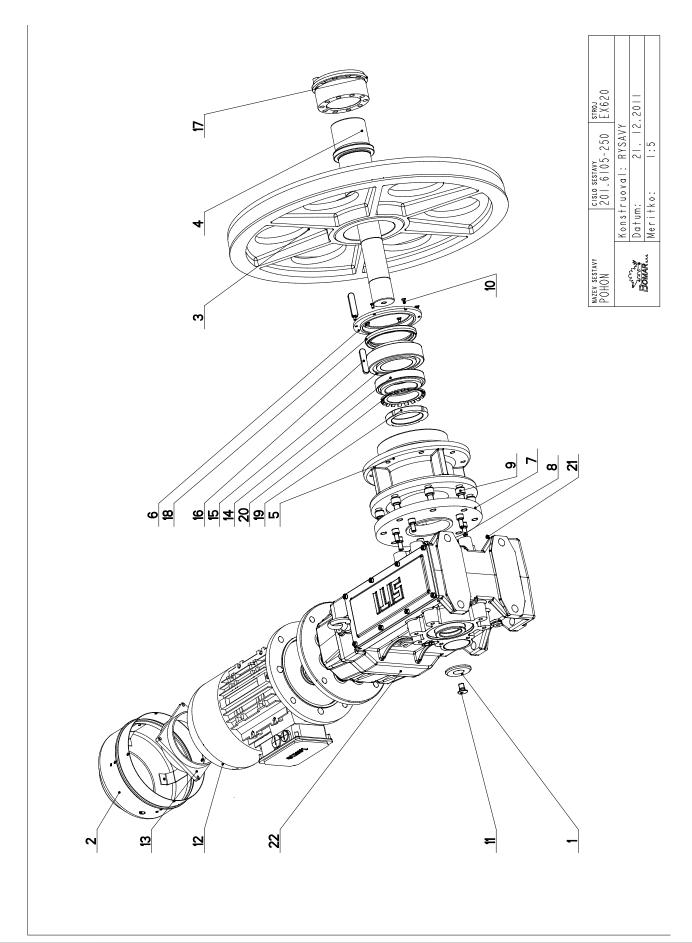
7.8. Kusovník / Stückliste / Piece list – Podstavec / Untersatz / Base

cislo 201.	Cisto Sestary 201. 6101-100	- ۲۹۰	Nozev sestory PODSTAVEC/BASE/UNTERSATZ		
Poz.	Objednaci cisto	Ver.	Nazer palazky	Rozmer	K.
_	30,6101-101	2	PODSTAVEC / BASE / UNTERSATZ		_
2	30.6101-102	0	SLOUP / POLE / SÂULE		_
m	30,6101-103	2	SLOUP / POLE / SÂULE		_
4	30,6101-104	0	NOSNIK / CARRIER / TRÅGER		_
2	30.6101-105	_	DRZAK / HOLDER / HALTER	P 4x273x582	_
9	30.6101-106	_	DRZAK / HOLDER / HALTER	P 4x 273	_
1	30.6101-108	0	VZPERA / PROP / STREBE	HR 30x5	_
8	30.6101-111 (1)	0	DRZAK / HOLDER / HALTER	PROFIL 40x40x4	_
σ.	30.6114-131	0	OKAP / GUTTER CHANNEL / BLECH		_
2	30.6114-134	0	OKAP / GUTTER CHANNEL / BLECH		_
=	30,6114-136		DRZAK 1 HOLDER 1 HALTER	P5x210	_
12	90.001.25.017	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M6X16	4
-3	90.001.25.032	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	8x20	48
14	90.001.25.060	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M I 2 X 4 0	4
15	90.001.25.086	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MI6X40	9
9	90.011.27.007	0	SROUB ZAPUSTNY / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB M8X12	2
	90.011.27.012	0	SROUB ZAPUSTNY / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB MBX16	4
<u>&</u>	95.800.019	0	KROUZEK POJIST.VNEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUBEN	POJISTNY KROUZEK 52	15
6	99.200.076	0	VEDENI LINEARNI / LINEAR GUIDE / LINEARE FÜHRUNG	LGR 35R	2

I PRIDANA SOUCAST 30.6101-111 ZM-098 7.3.2007 RYSAVY



7.9. Pohon / Antrieb / Drive





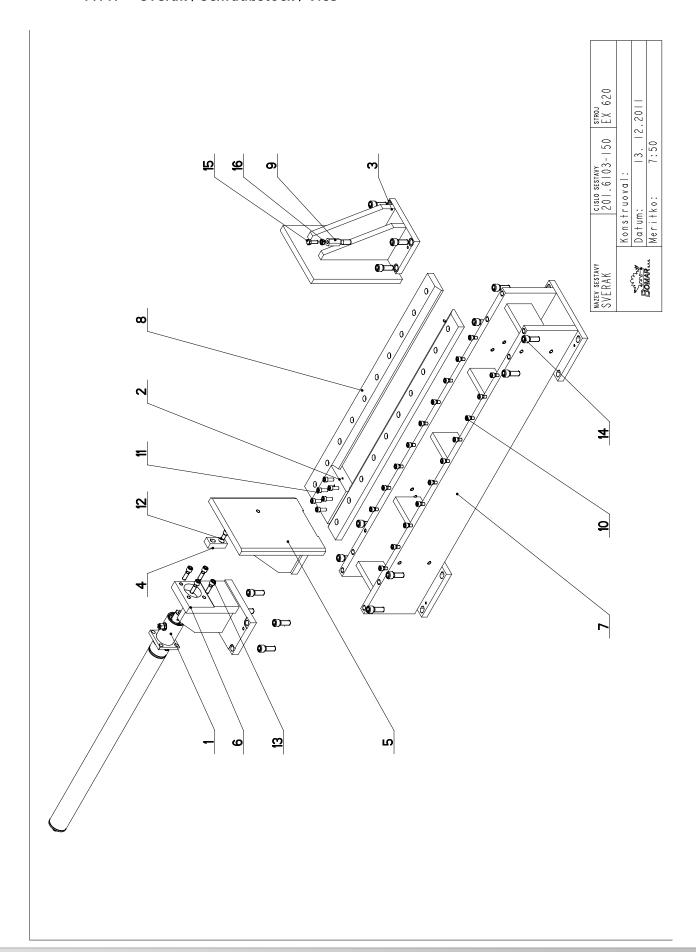
7.10. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive

Cisto Sestavy 201.6105-250	Ver.	Nazev sestavy POHON/DRIVE /ANTRIEB		
Poz. Objednaci cislo	Ver.	Nazev polozky	Rozmer	K.s
30.0804-009	2	PODLOZKA / WASHER / UNTERLEGSCHEIBE	09 P	_
2 30.4304-018	3	VENTILATOR / VENTILATOR / VENTILATOR	_	-
3 30.6105-015	5	KOLO HNACI / DRIVE WHEEL / ANTRIEBSRAD	ODLITEK	_
4 30.6105-251	0	HRIDEL / SHAFT / WELLE	001 P	_
5 30.Y605-00I	_	PRIRUBA / FLANGE / FLANSCHE		_
6 30.Y605-006	0	VIKO / COVER / DECKEL	P 15 -160	_
7 30. Y605-103	0	KROUZEK DISTANCNI / DISTANCE RING / DISTANZRING	P 25x250	_
8 90.001.25.046	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MIOX20	7
9 90.001.25.107	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M14X35	8
10 90.011.27.003	0	SROUB ZAPUSTNY / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB M5X10	9
90.011.27.009	0	SROUB ZAPUSTNY / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB MI2X20	_
12 91.001.117	0	ELEKTROMOTOR / ELECTRIC MOTOR / ELEKTROMOTOR	4kW 4P B5 112	_
13 91.015.100	0	VENTILATOR / VENTILATOR / VENTILATOR		_
14 95.300.028	0	LOZISKO KUZELIK / BEARING / LAGER	32015AX	_
15 95.300.029	0	LOZISKO KUZELIK / BEARING / LAGER	33215A	_
16 95.810.032	0	PERO TESNE / SPRING / FEDER	PERO 14X9X60	2
17 95.825.001	0	POUZDRO UPINACI / FIXING SLEEVE / SPANNHÜLSE	KTR210- 80x120	_
18 95.830.047	0	GUFERO / GIT SEAL / DICHTUNG	GUFERO 95X120X12	_
19 95.850.015	0	MATICE KM / KM NUT / KM-MUTTER	MATICE KMI5	_
20 95.855.016	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	POJISTNA PODLOŽKA MBI5	_
21 95.860.001	0	HLAVICE MAZACI / HEAD / KOPF	KM5	_
22 99.003.021	0	PREVODOVKA KUZELOCEL / CONICAL TRANSMISSION / KEGELRADGETRIEBE	MBH100C PAMI12	_

Cislo Sestavy/Number of assembly/Nummer der Baugruppe; Verze (Ver.)/Version/Version; Nazev sestavy/Assembly title/Name der Baugruppe; Pozice (Poz.)/Position/Position; Objednaci cislo/Purchase order number/Bestellnummer; Nazev polozky/Volume title/Name der Position; Rozmer/Stock size/Abmessung



7.11. Svěrák / Schraubstock / Vice





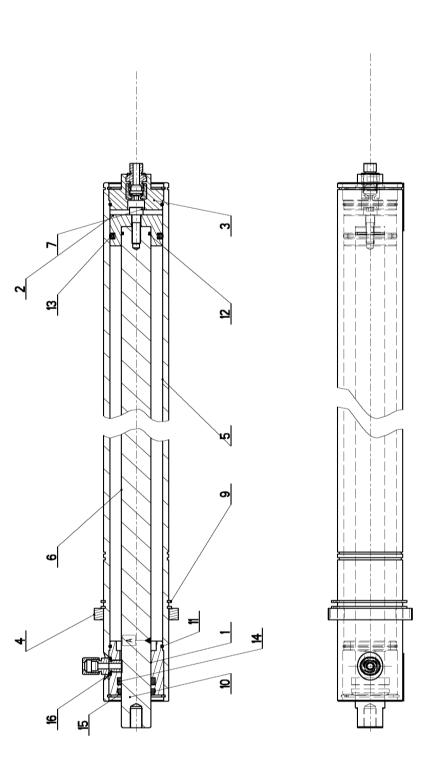
7.12. Kusovník / Stückliste / Piece list – Svěrák / Schraubstock / Vice

Cislo 20	Cisto Sestary 201.6103-150	Ver.	Nozev sestovy SVERAK/VICE/SCHRAUBSTOCK		
Poz.	Objednaci cislo	Ver.	Nozev polozky	Rozmer	Кs
_	201.6107-100	_	VALEC SVERAKU / VICE CYLINDER / SCHRAUBSTOCKZYLINDER		_
2	30,6003-552	0	KLUZAK / GLIDER / GLEITER	HR 130x50	_
т	30.6103-001	8	CELIST PEVNA / SOLID JAW / FESTE BACKE		_
4	30.6103-005	0	DRZAK / HOLDER / HALTER	HR 30x20	_
2	30,6103-102	3	CELIST POHYBLIVA / MOVING JAW / BEWEGLICHE BACKE		_
9	30.6103-108	_	KONZOLA / CONSOLE / KONSOLE		_
7	30.6103-109	9	PODSTAVEC SVERAKU / VICE BASE / SCHRAUBSTOCKUNTERSATZ		_
8	30,6103-151	0	LISTA SVERAKU / VICE TRIM / SCHRAUBSTOCKLEISTE	HR 82x27	2
6	30.6203-111	0	DORAZ / STOP PIECE / ANSCHLAG	TYC 6HR 22	_
0_	90.001.25.048	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M10X30	20
=	90.001.25.054	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	09X0IW	9
1.2	90.001.25.057	0	SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M12x25	_
13	90.001.25.060	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M12X40	4
4	90.001.25.074	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M16X45	9
15	90.005.55.025	0	SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE	SROUB MI0X30	_
9	90.100.55.006	0	MATICE / NUT / MUTTER	MATICE _ MI0	

Cislo Sestavy/Number of assembly/Nummer der Baugruppe; Verze (Ver.)/Version/Version; Nazev sestavy/Assembly title/Name der Baugruppe; Pozice (Poz.)/Position/Position; Objednaci cislo/Purchase order number/Bestellnummer; Nazev polozky/Volume title/Name der Position; Rozmer/Stock size/Abmessung



7.13. Válec svěráku / Schraubstockzylinder / Vice cylinder





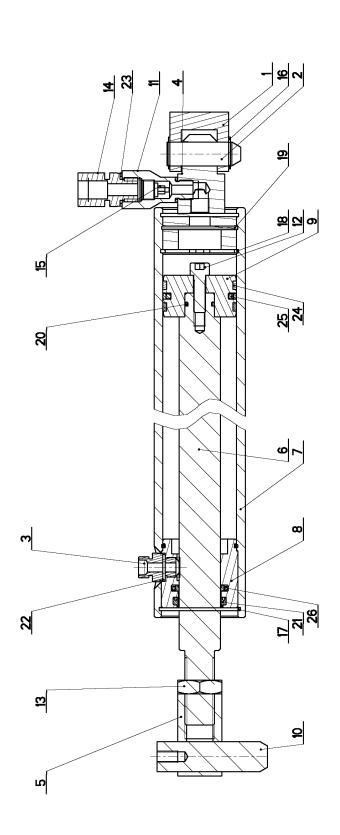


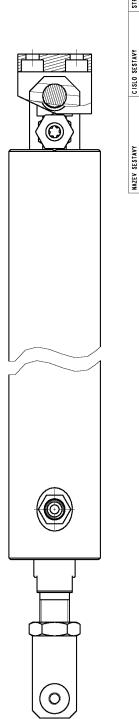
7.14. Kusovník / Stückliste / Piece list – Válec svěráku / Schraubstockzylinder / Vice cylinder

Pol. Objednoci cisto Ver. Nozer polozty Rozmet 1 30.1807-104 2 VIKO / COVER / DECKEL TTC 55 2 30.2007-302 0 PIST / PISTON / KOLBEN 4 55 3 30.2007-304 0 PINTO / COVER / DECKEL 4 55 4 30.2007-304 0 PINTOX / STRAP / LASCHE 4 55 5 30.5007-107 0 PRILOZKA / STRAP / LASCHE RR 80x12 6 30.5007-107 4 VALEC SYERAKU / VICE CYLINDER RR 80x12 7 30.001.25.034 0 PISTINICE / PISTON ROD / KOLBENTAME 4 28 8 92.002.101 0 SROUBENI PRIME / DIRECT BOLTTING / GERADE VERSCHRAUBE RR 80x10 9 56.00.003 0 KROUZER POLIST VINTA / INSIDE SAFETY RING / SICHERUNGSRING AUBEN POLISTIVA KROUZE 10 95.60.003 0 KROUZER O DIYAMICKY / STATIC OR RING / O-RING PARAMICKY SACHERUNGSRING POLISTIVA RROUZE 11 96.020.01 0 KROUZER O DIYAMICKY / STATIC OR RING / O-RING /	cisto 201.	Cisto Sestary 201.6107-100	۷۴۰۰	Nozew sestory VALEC SVERAKU/VICE CYLINDER/SCHRAUBSTOCKZYLINDER		
Objedanci cislo Ver. Nozer polozky 30.1807-104 2 VIKO / COVER / DECKEL 30.2007-302 0 PIST / PISTON / KOLBEN 30.2007-304 0 PIST / PISTON / KOLBEN 30.2007-304 0 PIRCZKA / STRAP / LASCHE 30.6007-107 0 PRILOZKA / STRAP / LASCHE 30.6007-107 4 VALEC SVERAKU / VICE CYLINDER / SCHRAUBSTOCKZYLINDER 30.601.25.034 0 PRILOZKA / STRAP / LASCHE 90.001.25.034 0 PRIZUZER POLIST VINIGE / PRENSTANGE 95.800.021 0 SROUBENI PRIME / DIRECT BOLT / IMBUSSCHRAUBING 95.800.021 0 KROUZER POLIST VINIG / GERADE VERSCHRAUBSNIG 96.001.013 0 KROUZER POLIST VINIG / INSIDE SAFETY RING / SICHERUNGSRING INNEN 96.001.013 0 KROUZER ODYNAMICKY / STATIC OR RING / O-RING DYNAMISCH 96.002.011 0 KROUZER ODYNAMICKY / STATIC OR RING / O-RING DYNAMISCH 96.001.003 0 TESNEM / SEALING / DICHTUNGS 96.004.003 0 TESNEM / SEALING / DICHTUNG 96.006.003 0 TESNEM / SEALING / DICHTUNG						
30.1807-104 2 VIKO / COVER / DECKEL 30.2007-302 0 PIST / PISTON / KOLBEN 30.2007-304 0 VIKO / COVER / DECKEL 30.2007-304 0 VIKO / COVER / DECKEL 30.6007-107 0 VIKILOZKA / STRAP / LASCHE 30.6107-101 4 VALEC SVERAKU / VICE CYLINDER / SCHRAUBSTOCKZYLINDER 30.6107-102 2 PISTNICE / PISTON ROD / KOLBENSTANGE 90.001.25.034 0 SROUB I MBUS / ALLEN HEAD BOLT / I MBUSSCHRAUBURG 90.001.25.034 0 SROUBENI PRIME / DIRECT BOLTING / GERADE VERSCHRAUBURG 90.001.25.034 0 SROUBENI PRIME / DIRECT BOLTING / GERADE VERSCHRAUBURG 90.001.25.034 0 SROUBENI PRIME / DIRECT BOLTING / GERADE VERSCHRAUBSRING AUBEN 90.001.013 0 KROUZER POLIST-VNITR / INSIDE SAFETY RING / O-RING DYNAMISCH 1 0 KROUZER POLIST-VNITR / INSIDE SAFETY RING / O-RING DYNAMISCH 2 0 KROUZER CENICI / SEAL RING / DICHTUNG 3 96.020.005 0 KROUZER CENICI / SEAL RING / DICHTUNG 4 96.041.003 0 KROUZER STIRACI / SCRAPER RING / DICHTUNG	Poz.		Ver.		Rozmer	Ks
30.2007-302 0 PIST / PISTON / KOLBEN 30.2007-304 0 VIKO / COVER / DECKEL 30.6007-107 0 PRILOZKA / STRAP / LASCHE 30.6107-101 4 VALEC SVERAKU / VICE CYLINDER / SCHRAUBSTOCKZYLINDER 30.6107-102 2 PISTUNICE / PISTON ROD / KOLBENSTANGE 90.001.25.034 0 SROUBENI PRIME / DIRECT BOLTING / GERADE VERSCHRAUBUNG 92.002.101 0 SROUBENI PRIME / DIRECT BOLTING / GERADE VERSCHRAUBUNG 95.800.021 0 SROUZEN POJIST. VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN 96.001.013 0 KROUZEK POJIST. VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN 96.020.005 0 KROUZEK O DYNAMICKY / DYNAMIC O RING / O-RING / O-RING JOHNAMICH 4 96.020.005 0 KROUZEK TESNICI / SEALING / DICHTUNGSRING 5 96.020.005 0 KROUZEK TESNICI / SEALING / DICHTUNG 6 0 0 0 0 0 0 8 96.020.005 0 0 0 0 0 0 0 8 96.060.003 0 0 <	_	30,1807-104	2		TYC 55	_
30.2007-304 0 VIKO / COVER / STRAP / LASCHE 30.6007-107 0 PRILOZKA / STRAP / LASCHE 30.6107-101 4 VALEC SVERAKU / VICE CYLINDER / SCHRAUBSTOCKZYLINDER 30.6107-102 2 PISTNICE / PISTON ROD / KOLBENSTAME 90.001.25.034 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 92.002.101 0 SROUBENI PRIME / DIRECT BOLTING / GERADE VERSCHRAUBUNG 95.801.009 0 KROUZEN POJIST. VNIET / INSIDE SAFETY RING / SICHERUNGSRING AUBEN 1 96.001.013 0 KROUZEN POJIST. VNIET / INSIDE SAFETY RING / SICHERUNGSRING 2 96.02.011 0 KROUZEN CO STATICKY / STATIC OR RING / O-RING DYNAMISCH 3 96.02.011 0 KROUZEN TESNICI / SEAL RING / DICHTUNG 4 96.060.003 0 TESNENI / SEALING / DICHTUNG 5 96.060.003 0 TESNENI / SEALING / DICHTUNG	2	30.2007-302	0	-	d 55	_
30.6007-107 0 PRILOZKA / STRAP / LASCHE 30.6107-101 4 VALEC SVERAUU / VICE CYLINDER / SCHRAUBSTOCKZYLINDER 30.6107-102 2 PISTNICE / PISTON ROD / KOLBENSTANGE 90.001.25.034 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 92.002.101 0 SROUBENI PRIME / DIRECT BOLTING / GERADE VERSCHRAUBUNG 95.600.021 0 KROUZEK POJIST.VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN 1 95.601.009 0 KROUZEK POJIST.VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN 2 95.001.013 0 KROUZEK POJIST.VNITR / INSIDE SAFETY RING / O-RING STATISCH 2 96.002.011 0 KROUZEK POJIST.VNITR / INSIDE SAFETY RING / O-RING STATISCH 3 96.020.013 0 KROUZEK O DYNAMICKY / DYNAMIC O RING / O-RING STATISCH 4 96.041.003 0 KROUZEK TESNICI / SEAL RING / DICHTUNG 5 96.060.003 0 KROUZEK STIRACI / SCRAPER RING / ABSTREIFRING 5 96.082.002 0 TESNENI / SEALING / DICHTUNG	m	30,2007-304	0			_
30.6107-101 4 VALEC SVERAU / VICE CYLINDER / SCHRAUBSTOCKZYLINDER 30.6107-102 2 PISTNICE / PISTON ROD / KOLBENSTANGE 90.001.25.034 0 SROUB IMDUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 92.002.101 0 SROUBENI PRIME / DIRECT BOLTING / GERADE VERSCHRAUBUNG 95.801.009 0 KROUZEK POJIST VNIS / STATIC OR ING / SICHERUNGSRING AUBEN 1 96.001.013 0 KROUZEK POJIST VNIT / INSIDE SAFETY RING / SICHERUNGSRING INNEN 2 96.002.011 0 KROUZEK O DYNAMICKY / DYNAMIC OR ING / O-RING DYNAMISCH 3 96.002.011 0 KROUZEK O DYNAMICKY / DYNAMIC OR ING / O-RING DYNAMISCH 4 96.001.003 0 KROUZEK TESNIC I / SEAL RING / DICHTUNGSRING 5 96.060.003 0 TESNEN I / SEALING / DICHTUNG 5 96.082.002 0 TESNEN I / SEALING / DICHTUNG	4	30.6007-107	0	PRILOZKA / STRAP / LASCHE	HR 80x12	_
30.6107-102 2 PISTNICE / PISTON ROD / KOLBENSTANGE 90.001.25.034 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 92.002.101 0 SROUBENI PRIME / DIRECT BOLTING / GERADE VERSCHRAUBUNG 95.800.021 0 KROUZEK POJIST.VNIST / INSIDE SAFETY RING / SICHERUNGSRING AUBEN 1 95.801.009 0 KROUZEK POJIST.VNITT / INSIDE SAFETY RING / SICHERUNGSRING INNEN 2 95.001.013 0 KROUZEK POJIST.VNITT / INSIDE SAFETY RING / O-RING DYNAMISCH 3 96.002.011 0 KROUZEK O STATICKY / STATIC O RING / O-RING DYNAMISCH 4 96.001.003 0 KROUZEK TESNICI / SEAL RING / DICHTUNGSRING 5 96.060.003 0 RROUZEK STIRACI / SCRAPER RING / ABSTREIFRING 5 96.060.003 0 RROUZEK STIRACI / SCRAPER RING / ABSTREIFRING	2	30.6107-101	4		TRUBKA 62/50	_
90.001.25.034 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 92.002.101 0 SROUBENI PRIME / DIRECT BOLTING / GERADE VERSCHRAUBUNG 95.800.021 0 KROUZEK POJIST.VNEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUBEN 1 96.001.003 0 KROUZEK POJIST.VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN 2 96.001.013 0 KROUZEK POJIST.VNITR / INSIDE SAFETY RING / O-RING STATISCH 3 96.002.011 0 KROUZEK O STATICKY / STATIC O RING / O-RING DYNAMISCH 4 96.002.015 0 KROUZEK TESNICI / SEAL RING / DICHTUNGSRING 5 96.041.003 0 KROUZEK STIRACI / SCRAPER RING / ABSTREIFRING 5 96.060.003 0 KROUZEK STIRACI / SCRAPER RING / ABSTREIFRING	9	30.6107-102	2	PISTNICE / PISTON ROD / KOLBENSTANGE	d 28	_
92.002.101 0 SROUBENI PRIME / DIRECT BOLTING / GERADE VERSCHRAUBUNG 95.800.021 0 KROUZEK POJIST.VNEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUBEN 1 95.801.009 0 KROUZEK POJIST.VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN 1 96.001.013 0 KROUZEK O STATICKY / STATIC O RING / O-RING STATISCH 2 96.002.011 0 KROUZEK O DYNAMICKY / DYNAMIC O RING / O-RING DYNAMISCH 4 96.020.005 0 KROUZEK TESNICI / SEAL RING / DICHTUNGSRING 5 96.060.003 0 TESNENI / SEALING / DICHTUNG 5 96.082.002 0 TESNENI / SEALING / DICHTUNG	7	90.001.25.034	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M8X30	_
95.800.021 0 KROUZEK POJIST.VNEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUßEN 0 95.801.009 0 KROUZEK POJIST.VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN 1 96.001.013 0 KROUZEK O STATICKY / STATIC O RING / O-RING STATISCH 2 96.002.011 0 KROUZEK O DYNAMICKY / DYNAMIC O RING / O-RING DYNAMISCH 4 96.020.005 0 KROUZEK TESNICI / SEAL RING / DICHTUNGSRING 5 96.060.003 0 TESNENI / SEALING / DICHTUNG 6 96.060.003 0 TESNENI / SEALING / DICHTUNG	8	92.002.101	0			2
95. 801.009 O KROUZEK POJIST. VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN 96. 001.013 O KROUZEK O STATICKY / STATIC O RING / O-RING STATISCH 96. 002.011 O KROUZEK O DYNAMICKY / DYNAMIC O RING / O-RING DYNAMISCH 96. 020.015 O KROUZEK TESNICI / SEAL RING / DICHTUNGSRING 96. 041.003 O TESNENI / SEALING / DICHTUNG 96. 060.003 O KROUZEK STIRACI / SCRAPER RING / ABSTREIFRING 96. 062.002 O TESNENI / SEALING / DICHTUNG	o.	95.800.021	0	KROUZEK POJIST.VNEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUßEN	POJISTNY KROUZEK 62	2
96. 001.013 0 KROUZEK O STATICKY / STATIC O RING / O-RING STATISCH 96. 002.011 0 KROUZEK O DYNAMICKY / DYNAMIC O RING / O-RING DYNAMISCH 96. 020.005 0 KROUZEK TESNICI / SEAL RING / DICHTUNGSRING 96. 020.005 0 TESNENI / SEALING / DICHTUNG 96. 060.003 0 KROUZEK STIRACI / SCRAPER RING / ABSTREIFRING 96. 062. 002 0 TESNENI / SEALING / DICHTUNG	0	95.801.009	0	KROUZEK POJIST.VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	POJISTNY KROUZEK 52	2
96. 002.011 0 KROUZEK O DYNAMICKY / DYNAMIC O RING / O-RING DYNAMISCH 96. 020.005 0 KROUZEK TESNICI / SEAL RING / DICHTUNGSRING 96. 041.003 0 TESNENI / SEALING / DICHTUNG 96. 060.003 0 KROUZEK STIRACI / SCRAPER RING / ABSTREIFRING 96. 082.002 0 TESNENI / SEALING / DICHTUNG	=	96.001.013	0	KROUZEK O STATICKY / STATIC O RING / O-RING STATISCH	45%2	2
96.020.005 0 KROUZEK TESNICI / SEAL RING / DICHTUNGSRING 96.041.003 0 TESNENI / SEALING / DICHTUNG 96.060.003 0 KROUZEK STIRACI / SCRAPER RING / ABSTREIFRING 96.082.002 0 TESNENI / SEALING / DICHTUNG	12	96.002.011	0	KROUZEK O DYNAMICKY / DYNAMIC O RING / O-RING DYNAMISCH	24%2	_
96. 041,003 0 TESNENI / SEALING / DICHTUNG 96. 060,003 0 KROUZEK STIRACI / SCRAPER RING / ABSTREIFRING 96. 062,002 0 TESNENI / SEALING / DICHTUNG	-3	96.020.005	0		39.2X5.33	_
96.060.003 0 KROUZEK STIRACI / SCRAPER RING / ABSTREIFRING 96.082.002 0 TESNENI / SEALING / DICHTUNG	14	96.041.003	0	TESNEN! / SEALING / DICHTUNG	601-28x36x7.1	_
96.082.002 0 TESNENI / SEALING / DICHTUNG	15	96.060.003	0	KROUZEK STIRACI / SCRAPER RING / ABSTREIFRING	KROUZEK STIRACI 28	_
	9-	96.082.002	0	TESNEN! / SEALING / DICHTUNG	KROUZEK CU 13/17	2



7.15. Válec zvedací / Hebezylinder / Lifting cylinder







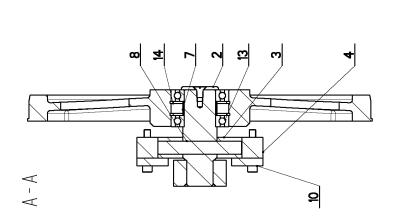


7.16. Kusovník / Stückliste / Piece list – Válec zvedací / Hebezylinder / Lifting cylinder

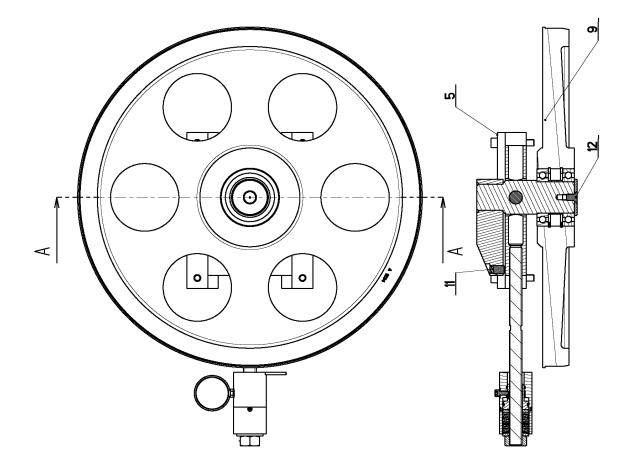
					ĺ
Cisto \$ 201.6	CISIO SCHOUY 201,6107-500	Ver.	WALEC ZVEDACI/LIFTING CYLINDER/HEBEZYLINDER		
Pez.	Objednaci cislo		Nezer polazky	Rozmer	ž.
_	36.0607-008	_	H DOZEK 7 HOLDER 7 HALTER	HR 40340	_
2	30.0807-009	_	EED 1 TOR 1 BOTTEN	6 h 9	_
_	30,2807-109		SROUBENI PRINE / DIRECT BOLTING / GERADE VERSCHARAUBUNG		_
4	30.4107-003	~	T T T T T T T T T T T T T T T T T T T	170 50	_
.,	36,4707-206		DRZAK 7 HOLDER 7 HALTER	HR 30130	_
	30.5107-002		PISTNICE / PISTON ROD / KOLBENSTANGE	190 28	_
~	36.6107-501		WALEC 7 ROLLER 7 ZYLINDER	TRUBKA 62/50	_
40	30,6107-502	0	T T T T T T T T T T T T T T T T T T T	TYC 55	_
•	30.6107-504	-	PIST / PISTON / KOLBEN	d 5.5	_
9	30.6107-505	•	M3Z 108 / 301 Z K	d 20	_
=	30.6107-510	1	REDUKCE / REDUCTION / ADAPTOR / REDUKTION	6HR 22	_
12	90.001.25.033	0	SBOUR 14BUS 7 ALLEN HEAD BOLT 7 14BUSSCHRANBE	8x25	_
13	90.101.55.007	0	MATICE ? NUT ? NUTTER	MATICE M20XI.5	_
<u>-</u>	92.002.114		SACUSENI PRINE 7 DIRECT BOLTING 7 GERADE VERSCHRAUBUNG	6 3/8	_
5	92.151.001	۰	VENTIL POJISTNY / SAFETY VALVE / SICHERUNGSVENTIL	VPNH1_4	_
91	95.800.007	0	KROUZEK POJIST, YMEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUĞEN	POJISTNY KROUZEK I&	2
=	95.801.009		KROUZEK POJIST.YM ITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	POJISTNY KROUZEK 52	_
9	95.801.018	•	RROUZEK POJIST.YMITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	POJISTNY KROUZEK 50	2
<u>e</u>	96.001.013	•	KROUZEK O STATICKY / STATIC O RIMS / O-RING STATISCH	45%2	2
20	96.002.007	0	KROUZEK O DYKANICKY / DYKANIC O RING / D-RING DYNANISCH	16%2	_
12	96,061.009	۰	WAROUZEK STIRACI / SCRAPER RING / ABSTREIFRING	WD2200280	_
22	96.082.002	۰	TESNENI / SEALING / DICHTUNG	KROUZEK CU 13/17	2
23	96.082.012	•	KBOUZEK / RING / RING		-
24	95.084.001	0	KROJZEK YODICI / LEAD RING / FÜHRUNGSRING		2
52	96.900.013	•	TESNENI KONBINOVANE / CONGINATION SEALING / KONBIDICHTUNG	PT0200500	_
92	96.900.021	۰	TESMENI KOMBINOVAME / COMBINATION SEALING / KOMBIDICHTUNG	HSK200280	_



7.17. Napínání / Spannung / Tensioning







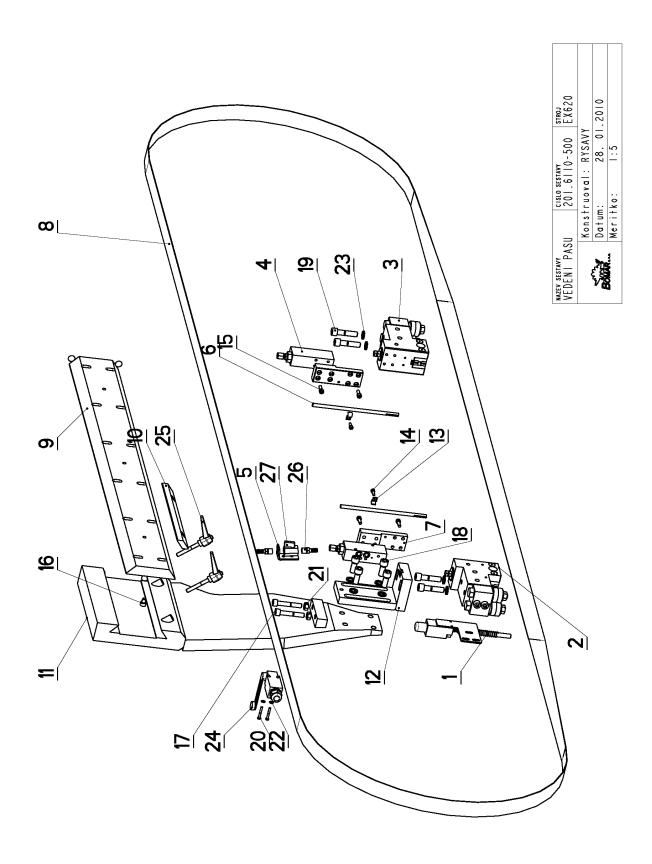


7.18. Kusovník / Stückliste / Piece list – Napínání / Spannung / Tensioning

Cisto 201.	cisto Sestory 201.6108-100	Yer.	Napinani/Tensioning/Spannung		
Poz.	Objednaci cislo	Ver.	Nozer polozky	Rozmer	Ks
_	201.6107-350	2	VALEC / ROLIER / ZYLINDER	SESTAVA	_
2	30.1804-010	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	0 J D	_
m	30,6008-001	0	KOSTKA NAPINANI / TENSIONING CUBE / BANDSPANNUNGSWÜRFEL	HR 160x40	_
4	30.6008-002	0	LISTA VODICI / LEAD TRIM / FÜHRUNGSLEISTE	HR 40x40	2
2	30.6008-003	0	LISTA VODICI / LEAD TRIM / FÜHRUNGSLEISTE	HR 60x15	2
ø	30.6008-004	_	NAPINANI / TENSIONING / SPANNUNG		_
1	30.6008-009	0	KROUZEK DISTANCNI / DISTANCE RING / DISTANZRING	Tr 65x5	_
∞	30.6008-014	_	CEP NAPINANI / TENSIONING LUG / SPANNUNGSBOLZEN	d 25 h6	_
თ	30.6108-006	_	KOLO NAPINACI / TENSIONING WHEEL / UMLENKRAD		_
0	90.001.25.064	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M12X70	9
=	90.002.20.028	0	SROUB STAYECI / ADJUSTMENT BOLT / STELLSCHRAUBE	SROUB MIGx1,5x25	_
12	90.011.27.009	0	SROUB ZAPUSTNY / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB MI2X20	_
-3	95.001.031	0	LOZISKO / BEARING / LAGER	6212A	2
14	95.801.022	0	KROUZEK POJIST.VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	POJISTNY KROUZEK 110	2



7.19. Vedení pásu / Sägebandführung / Belt guide



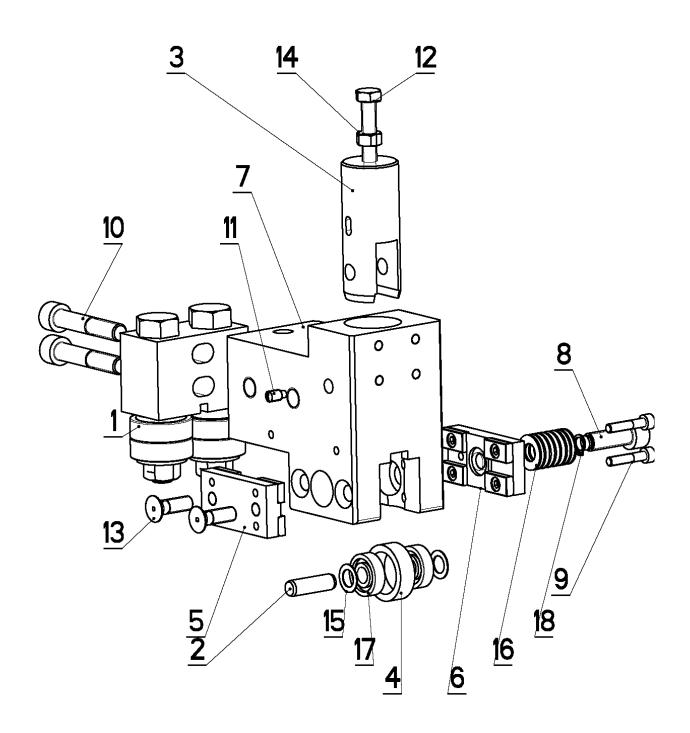


7.20. Kusovník / Stückliste / Piece list – Vedení pásu / Sägebandführung / Belt guide

Pos. Objedanci (1si) o Ver. Nacete poloty MacCli AmaCilLu6 2 201. 6110-020 1 DORAZ STOP PIECE / AMACILLu6 1 2 201. 6110-020 1 DORAZ STOP PIECE / AMACILLu6 1 3 201. 6110-020 3 MOSTIA MODIE/ I LEDO CHEE / FÜRTUMASKOTZ 1 4 201. 8610-030 3 MOSTIA MODIE/ I LEDO CHEE / FÜRTUMASKOTZ 1 5 30. 1861-010 0 DOSAM MODIE/ I LEDO CHEE / FÜRTUMASKOTZ 1 6 30. 1861-010 0 DOSAM MODIE/ I LEDO CHEE / FÜRTUMASKOTZ 1 6 30. 1861-010 0 DOSAM MODIE/ I LEDO CHEE / FÜRTUMASKOTZ 1 9 30. 1861-010 0 DOSAM MODIE/ I LEDO CHEE / FÜRTUMASKOTZ 1 10 30. 1861-010 0 DOSAM MODIE/ I MUTER 1 11 30. 1861-010 0 DOSAM MODIE/ I MUTER 1 11 30. 1861-010 0 DOSAM MODIE/ I MUTER 1 11 30. 1861-010 0 DOSAM MODIE/ I MUTER 1 12 30. 1	201	Cislo Sestavy 201.6110-500	Ver.	Nozev 36340Vy VEDENI PASU/BELT GUIDE/SĀGEBANDFÜHRUNG		
201.5110-250 76. NOSTIA VODICI / LEAD CUBE / FÜRRUNGSKIDTZ 201.5110-250 3 KOSTIA VODICI / LEAD CUBE / FÜRRUNGSKIDTZ 201.5110-250 3 KOSTIA VODICI / LEAD CUBE / FÜRRUNGSKÜFTEL 201.55110-550 3 KOSTIA VODICI / LEAD CUBE / FÜRRUNGSKÜFTEL 201.55110-550 3 KOSTIA VODICE / HALTER 201.5110-550 3 KOSTIA VODICE / HALTER 201.5110-550 3 KOSTIA VODICE / HALTER 201.5110-550 3 KOSTIA MODICE			;			1
20.1.6110-200 1 MORAL / 190P MANAL / 190	Poz.	Objednaci cisto	Ver.	Nozer polozky	Rozmer	ž
201.5110-550 3 KOSTAN VODIC / LEAD CUBE / FÜBRINGSKIOTZ 201.6110-610 3 KOSTAN VODIC / LEAD CUBE / FÜBRINGSKIOTZ 201.611-610 3 KOSTAN VODIC / LEAD CUBE / FÜBRINGSKIOTZ 201.616-105 3 KOSTAN VODIC / LEAD CUBE / FÜBRINGSKIOTZ 201.616-105 0 DEZAM / VOLÜGE / HELEN KEBELINGSWÜFFEL P 3- 76 30.610-135 0 DEZAM / VOLÜGE / HELEN KEBELINGSWÜFFEL P 3- 76 30.610-202 0 DEZAM / VOLÜGE / HELEN KEBELINGSWÜFFEL P 3- 76 30.610-202 1 LISTA / FRAN / FRAN / FRAN KEBERING P 3- 76 30.610-202 1 LISTA / FRAN / FRAN / FRAN / FRAN KEBERING P 3- 76 30.610-202 1 LISTA / FRAN / FRA	_	201.6110-020	_	_		_
201.6110-610 3 MOSTIAA MODICI / LEAD CUBE / FREELUMGSMÜNTEL 201.6110-610 0 MOSTIAA MODICI / REGULANDSMÜNTEL 201.6110-610 0 MOSTIAA MODICI / REGULANDSMÜNTEL 201.6110-610 0 MOSTIAA MEGLA / MOLDER / HALTER 201.6110-610 0 MASPA / MOLDER / HALTER 201.6110-610 1 MASPA / MOLDER / MALTER 201.6110-602 0 MASPA / MOLDER / MALTER MALTER MASPA / MOLDER / MALTER MALTER MALTER MALTER MALTER MALTER MALTER / MALTER MALTER MASPA / MOLDER / MALTER MALTER MALTER MALTER MALTER MALTER MASPA / MOLDER / MALTER MA	7	201.6110-550	m	/ LEAD CUBE /		_
201.6816-100 0 MCSTAA RCBULACE / RCBULATION CUBE / RCBCLUNGSWÜNFEL 39.1814-011 0 DEZAX / HOLDER / HALTER TR 8x1 T	m	201.6110-610	m			_
39.1814-011 0 DRZAM / HOLDER / HALTER P 3- 76 39.0814-011 0 DRZAM / HOLDER / HALTER TRABRA / TREE / ROMB 39.010-315 0 DESMA / HOLDER / HALTER HR 40120 39.010-302 0 DESMA / HOLDER / HALTER HR 40120 39.011-004 1 LISTA / TRIM / LESTE TYC 120125 39.011-004 1 LISTA / TRIM / LESTE TYC 120125 39.011-004 1 LISTA / TRIM / LESTE TYC 120125 39.011-004 1 LISTA / TRIM / LESTE TYC 120125 39.011-004 1 LISTA / TRIM / HOLDER / HALTER TYC 120125 30.010-125 1 DRZAM / HOLDER / HALTER HALTER 30.010-125 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE HASTO 90.01, 125, 1048 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE HASTO 90.01, 125, 1048 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE HASTO 90.01, 125, 1048 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE HASTO 90.10, 125, 1048 0 <t< td=""><td>4</td><td>201.6816-100</td><td>0</td><td></td><td></td><td>2</td></t<>	4	201.6816-100	0			2
33.6016-305 0 PRUBRA / TUBE F ROHR IR Ba I 33.6016-302 0 PASS AF J BOARD P FALTITE HR 40±20 33.6016-302 0 PAS PLOVY I SAW BELT / SAGEBAND FAS MAZ 4141.3; 4/6 TPI 33.6110-302 1 LISTA / TREU / LEISTE TYC 120±25 33.6110-106 1 DRZAK J HOLDER / HALTER TYC 35±12 33.6110-125 2 LISTA PRECI / FRICTION TRIM / FRIKTIONSLEISTE TYC 35±12 33.6110-126 1 DRZAK / HOLDER / HALTER TYC 35±12 33.6110-125 33.6110-125 TYC 35±12 TYC 35±12 33.6110-125 0 DRZAK / HOLDER / HALTER TYC 35±12 33.6110-125 0 DRZAK / HOLDER / HALTER HALTER 33.6110-125 0 STOOUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE HASZO 91.01-125, 018 0 STOOUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE HIZZ30 91.01-125, 018 0 STOOUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE HAIZZ50 91.01-125, 018 0 STOOUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE HAIZZ50 91.01-126 </td <td>2</td> <td>30, 1814-011</td> <td>0</td> <td>_</td> <td>р 3- 76</td> <td>_</td>	2	30, 1814-011	0	_	р 3- 76	_
30.6016-002 0 DESKA / BOARD / PLATTE 30.6016-002 0 PAKE HOLOY / SAREHAD PAKE HOLOY / SAREHAD 30.6104-901 0 PAKE HOLOY / SAREHAD PAKE HOLOS / SAREHAD 30.610-004 1 LISTA / TRICL / FRICTION FRIM / FRIKTIONSELISTE TYC 120425 30.6110-106 1 DAZAM / HOLDER / HALTER TYC 3512 30.6110-106 1 DAZAM / HOLDER / HALTER TYC 3512 30.6110-106 1 DAZAM / HOLDER / HALTER TYC 3512 30.6110-125 1 DAZAM / HOLDER / HALTER TYC 3512 30.6110-126 1 DAZAM / HOLDER / HALTER MS116 30.6110-127 1 DAZAM / HOLDER / HALTER MS116 30.6110-128 0 DAZAM / HOLDER / HALTER MS116 30.001.25.036 0 SROUB INGUS / ALLEN HEAD BOLT / INGUSSCHRAUBE MS120 90.01.25.034 0 DAGOLZEA / AKSHER / UNIFELESSCHEIBE MS120 90.01.25.065 0 MS120 DAGOCZEA / WASHER / UNIFELESSCHEIBE MS120 90.153.065 0 PATACK HERESCHEIBE	ۍ	30,6010-315	0	~		2
30. 61 ol - 901 0 PAS PLLOY / SAW BELT / SÁGEBAND PAS PLLOY / SAW BELT / SÁGEBAND PAS MAZ 11F.1.3; 4/6 TP1 30. 61 ol - 002 1 LISTA / TR14 / LEISTE TYC 120.25 TYC 120.25 30. 61 ol - 002 1 DRZAK / HOLDER / HAITER TYC 35x12 TYC 35x12 30. 61 ol - 003 1 DRZAK / HOLDER / HAITER TYC 35x12 TYC 35x12 30. 50 l - 003 0 DRZAK / HOLDER / HAITER MX 16 TYC 35x12 30. 50 l - 003 0 DRZAK / HOLDER / HAITER MX 16 MX 16 30. 50 l - 003 0 SROUB HABUS / ALLEN HEAD BOLT / HABUSSCHRAUBE MX 16 90. 50 l - 25, 505 0 SROUB HABUS / ALLEN HEAD BOLT / HABUSSCHRAUBE MI 1730 90. 50 l - 25, 505 0 SROUB HABUS / ALLEN HEAD BOLT / HABUSSCHRAUBE MI 1730 90. 52, 505 0 SROUB HABUS / ALLEN HEAD BOLT / HABUSSCHRAUBE MI 1730 90. 101, 25, 505 0 SROUB HABUS / ALLEN HEAD BOLT / HABUSSCHRAUBE MI 1730 90. 101, 25, 605 0 SROUB HABUS / ALLEN HEAD BOLT / HABUSSCHRAUBE MA 1730 90. 103, 50, 602 0	-	30.6016-002	0		HR 40x20	2
30.6110-002 1 LISTA TRILI / LEISTE TYC 12025 30.6110-004 2 LISTA TRICI / FRICTION TRIN / FRIKTIONSLEISTE TYC 33x12 30.6110-108 1 DRZAK / HOLDER / HALTER TYC 33x12 30.6110-103 1 DRZAK / HOLDER / HALTER TYC 33x12 30.6110-103 1 DRZAK / HOLDER / HALTER TYC 100 30.6110-103 0 DRZAK / HOLDER / HALTER HALTER 30.6110-103 0 DRZAK / HOLDER / HALTER HALTER 30.6110-103 0 DRZAK / HOLDER / HALTER HALTER 30.611-25.003 0 DRZAK / HOLDER / HALTER HALTER 30.611-25.003 0 SROUB INGUS / ALLEN HEAD BOLT / HIGUSSCHRAUBE HAXTER 30.001-25.013 0 SROUB INGUS / ALLEN HEAD BOLT / HIGUSSCHRAUBE HIZZO 30.001-25.024 0 SROUB INGUS / ALLEN HEAD BOLT / HIGUSSCHRAUBE HIZZO 30.012-25.035 0 SROUB INGUS / ALLEN HEAD BOLT / HIGUSSCHRAUBE HIZZO 30.012-25.036 0 SROUB INGUS / ALLEN HEAD BOLT / HIGUSSCHRAUBE HIZZO 30.102-25.036 0 SROUB INGUS / ALLEN HEAD BOLT / HIGUSSCHRAUBE HIZZO 30.102-25.036 0 SROUB INGUS / ALLEN HEAD BOLT / HIGUSSCHRAUBE HIZZO	∞	30.6104-901	0		4/6	_
30. 51 10- 004 2 LISTA TRECI / FRICTION TRIM / FRIKTIONSELSTE TYC 35x12 30. 51 10- 006 1 DRZAK / HOLDER / HALTER TYC 35x12 30. 51 10- 10.5 1 DRZAK / HOLDER / HALTER PR. 5x10 30. 50 10- 125. 0 DRZAK / HOLDER / HALTER PR. 5x10 90. 10 1- 25. 1035 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE PR. 5x10 90. 10 1- 25. 1036 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE MSZ10 90. 10 1- 25. 1036 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE MRZ10 90. 10 1- 25. 1036 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE MRZ10 90. 10 1- 25. 1036 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE MRZ10 90. 10 1- 25. 1036 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE MRZ10 90. 10 1- 25. 1036 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE MRZ10 90. 10 1- 25. 1036 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE MRZ10 90. 10 1- 25. 1036 0 SROUB INBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE SROUB MRZ20 9	σ.	30.6110-002	_	_	TYC 120x25	_
30. 6 I I O DRZAK / HOLDER / HALTER 30. 6 I I O - 125 I DRZAK / HOLDER / HALTER 30. 6 I I O - 125 I DRZAK / HOLDER / HALTER 30. 90 I - 00 - 25. 003 O DRZAK / HOLDER / HALTER 90. 00 I - 25. 004 O STOUBI MBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE MAST I OR MAST I MAST I MAST I MUSISSCHRAUBE 90. 00 I - 25. 018 O STOUBI MBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE MID MAST I MAST I MAST I MUSISSCHRAUBE MID MAST I MAST I MAST I MUSISSCHRAUBE 90. 00 I - 25. 054 O STOUBI MBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE MID MAST I MAST I MAST I MUSISSCHRAUBE MID MAST I MUSISSCHRAUBE 90. 10 I - 25. 054 O STOUBI MBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE MID MAST I MUSISSCHRAUBE MID MAST I MUSISSCHRAUBE 90. 10 I - 25. 055 O STOUBI MBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE MID MAST I MUSISSCHRAUBE MID MAST I MUSISSCHRAUBE 90. 10 I - 25. 056 O STOUD MAST / WASHER / UNTERLEGSCHE BE MATICE / NUT / MUTIER MUSISSCHRAUBE PODIOZAKA / WASHER / UNTERLEGSCHE BE 90. 10 I - 30. 050 O STOUD ZAKA / WASHER / UNTERLEGSCHE BE MAST I L MUSISSCHRAUBE PODIOZAKA / WASHER / UNTERLEGSCHE BE PODIOZAKA / WASHER / UNTERLEGSCHE BE 91. 173. 018 O STOUD ZAKA / WASHER / UNTERLEGSCHE BE MUSISSCHRAUBE	2	30.6110-004	2	LISTA TREC! / FRICTION TRIM / FRIKTIONSLEISTE	TYC 35x12	_
30.5110-125 1 DRZAK / HOLDER / HALTER 30.9010-003 0 DRZAK / HOLDER / HALTER 90.001.25.003 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MS16 90.001.25.018 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MKZO 90.001.25.028 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIZXO 90.001.25.028 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIZXO 90.001.25.028 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIZXO 90.01.25.026 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIZXO 90.101.25.027 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIZXO 90.102.50.007 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIZXO 90.105.50.007 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIZXO 90.105.50.007 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIXXO 90.105.008 0 PODIOZRA / WASHER / UNTERLEGSCHE IBE MIXXO 91.130.00 0 PODIOZRA / WASHER / UNTERLEGSCHE IBE MIXXO </td <td>=</td> <td>30,6110-108</td> <td>_</td> <td></td> <td></td> <td>_</td>	=	30,6110-108	_			_
30.9010-0033 0 DRZAK / HOLDER / HALTER PRIZAK / HALTER PRIZAK PRIZ	12	30.6110-125	_	_		_
90. 001. 25. 009 0 SROUB INBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M6X20 90. 001. 25. 018 0 SROUB INBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M6X20 90. 001. 25. 028 0 SROUB INBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M8X10 90. 001. 25. 028 0 SROUB INBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M12X30 90. 01. 25. 058 0 SROUB INBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M12X30 90. 01. 25. 058 0 SROUB INBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M12X30 90. 10. 25. 050 0 SROUB INBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M12X30 90. 10. 25. 050 0 MATICE / NUT / WUTTER M12X30 90. 15. 50. 050 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE PODLOZKA 4,3 90. 15. 30. 050 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE PODLOZKA / WASHER / UNTERLEGSCHEIBE 91. 173. 018 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE PODLOZKA / WASHER / UNTERLEGSCHEIBE 94. 008. 004 0 PAKA / LEVER / HEBEL PAKA / LEVER / HEBEL 94. 202. 008 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE PAKA / LEVER / HEBEL <	-3	30.9010-003	0	_	P1,5x10	2
90.001.25.018 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M6X20 90.001.25.028 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M8X10 90.001.25.024 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M10X50 90.001.25.058 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M12X30 90.01.25.062 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M12X50 90.01.25.007 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE SROUB M4X30 90.10.25.007 0 ODLOZKA / WASHER / UNTERLEGSCHEIBE MATICE / NUT / MUTTER 90.150.55.002 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE MORD-LOCK 91.173.018 0 SPINAC KONCOVY / END SWITCH / ENDSCHAITER PODLOZKA / WASHER / HEBEL 94.008.004 0 REDUKCE / REDUKTION / ADAPTOR / REDUKTION MEXAD 99.260.003 0 VENTIL / VALVE / VENTIL MIXING	14	90.001.25.009	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M5X16	2
90.001.25.028 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M8X10 90.001.25.054 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M10X60 90.001.25.058 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M12X30 90.001.25.062 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE M12X50 90.102.50.007 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE SROUB W4X30 90.105.50.007 0 SROUB MAX30 SROUB W4X30 90.105.50.002 0 NATICE / NUT / MUTER MATICE - MID 90.150.50.002 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE PODLOZKA 4,3 91.133.018 0 SPINAC KONCOYY / END SWITCH / ENDSCHALTER PODLOZKA 4,3 94.008.004 0 PAKA / LEVER / HEBEL M8x40 94.202.008 0 PAKA / LEVER / HEBL M8x40 94.202.008 0 VENTIL / VALVE / VENTIL M8x40	-15	90.001.25.018	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M6X20	9
90.001.25.054 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIDLED 90.001.25.056 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIDLED 90.001.25.067 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIDLED 90.01.25.067 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE SROUB MAX30 90.01.25.007 0 NATICE / NUT / MUTER MATICE / NUT / MUTER 90.105.50.007 0 MATICE / NUT / MUTERLEGSCHEIBE PODLOZKA / WASHER / UNTERLEGSCHEIBE 90.163.00.003 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE PODLOZKA / WASHER / UNTERLEGSCHEIBE 91.173.018 0 SPINAC KONCOYY / END SWITCH / ENDSCHALTER PZ-FR55-M2 94.008.004 0 PAKA / LEVER / HEBEL MBx40 94.202.008 0 VENTIL / VALVE / VENTIL HEBUT / WASHER / VENTIL	9_	90,001,25,028	0	~	M8XI 0	2
90.001.25.058 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIZX50 90.01.25.062 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIZX50 90.01.25.062 0 SROUB MAX30 SROUB MAX30 90.102.56.007 0 NATICE / NUT / MUTER MATICE - MIG 90.150.55.006 0 NATICE / NUT / MUTER NASHER / UNTERLEGSCHEIBE NATICE - MIG 90.150.50.002 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE NOBD-CKA 4,3 NOBD-CKA 4,3 91.173.018 0 SPINAC KONCOVY / END SWITCH / ENDSCHALTER PAKA / LEVER / HEBEL NOBD-CKA 4,3 94.008.004 0 PAKA / LEVER / HEBEL MBX40 NBX40 94.202.008 0 VENTIL / VALVE / VENTIL NEDUKCE / REDUKTION / ADAPTOR / VENTIL 1/4"	13	90.001.25.054	0	/ ALLEN HEAD BOLT /	09X0IW	2
90.001.25.062 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE MIZSO 90.012.56.007 0 SROUB / BOLT / SCHRAUBE SROUB MAX30 90.102.56.007 0 MATICE / NUT / MUTER MATICE - MIO 90.150.56.002 0 MATICE / NUT / MUTERLEGSCHEIBE PODLOZKA / WASHER / UNTERLEGSCHEIBE 90.150.50.003 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE NORD-LOCK 91.173.018 0 SPINAC KONCOYY / END SWITCH / ENDSCHALTER PZ-FRS5-MZ 94.008.004 0 PAKA / LEVER / HEBEL MBX40 94.202.008 0 REDUKCE / REDUCTION / ADAPTOR / REDUKTION HORD-LOCK 99.260.003 0 VENTIL / VALVE / VENTIL 1/4"	82	90.001.25.058	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M12X30	4
90. 10. 5. 5. 007 0 SROUB / BOLT / SCHRAUBE SROUB MAX30 90. 100. 55. 006 0 MATICE / NUT / MUTTER 90. 150. 50. 002 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE PODLOZKA 4,3 90. 150. 50. 003 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE NORD-LOCK 91. 173. 018 0 SPINAC KONCOYY / END SWITCH / ENDSCHAITER PZ-FRS5-MZ 94. 008. 004 0 PAKA / LEVER / HEBEL MBX40 94. 202. 008 0 PROUKCE / REDUCTION / ADAPTOR / REDUKTION HBX40 99. 260. 003 0 VENTIL / VALVE / VENTIL 1/4"	6	90.001.25.062	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M12X50	4
90. 100. 55. 006 0 WATICE / NUT / MUTTER 90. 150. 50. 002 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE PODLOZKA 4.3 90. 150. 50. 003 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE NORD-LOCK 91. 173. 018 0 SPINAC KONCOYY / END SWITCH / ENDSCHALTER PZ-FR55-MZ 94. 008. 004 0 PAKA / LEVER / HEBEL M8x40 94. 202. 008 0 PAKA / LEVER / YEBUCTION / ADAPTOR / REDUKTION 1/4"	20	90.012.50.007	0	-	SROUB M4X30	2
90.150.50.002 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE PODLOZKA 4,3 90.163.00.003 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE NORD-LOCK 91.173.018 0 SPINAC KONCOYY / END SWITCH / ENDSCHALTER PZ-FR55-MZ 94.008.004 0 PAKA / LEVER / HEBEL M8x40 94.202.008 0 REDUKCE / REDUKTION / ADAPTOR / REDUKTION 1/4"	71	90.100.55.006	0		- 1	2
90. 163. 00. 003 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE NORD-LOCK 91. 173. 018 0 SPINAC KONCOVY / END SWITCH / ENDSCHALTER PZ-FR55-MZ 94. 008. 004 0 PAKA / LEVER / HEBEL M8x40 94. 202. 008 0 REDUKCE / REDUKTION / ADAPTOR / REDUKTION 1/4"	22	90.150.50.002	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 4,3	2
91. 173.018 0 SPINAC KONCOVY / END SWITCH / ENDSCHALTER PARA / LEVER / HEBEL PARA / LEVER / HEBEL M8x40 94. 202.008 0 REDUKTE / REDUKTION / ADAPTOR / REDUKTION REDUKTION / ADAPTOR / VENTIL 1/4"	23	90.163.00.003	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	NORD-LOCK	80
94.008.004 0 PAKA / LEVER / HEBEL MBx40 94.202.008 0 REDUKCE / REDUCTION / ADAPTOR / REDUKTION MBx40 99.260.003 0 VENTIL / VALVE / VENTIL 1/4"	24	91,173,018	0	/ END SWITCH /	PZ-FR55-M2	_
94.202.008 0 REDUKCE / REDUCTION / ADAPTOR / REDUKTION 99.260.003 0 VENTIL / VALVE / VENTIL	25	94.008.004	0	_	M8×40	2
99.260.003 0 YENTIL / VALVE / VENTIL	56	94.202.008	0			2
	23	99.260.003	0	_	1/4"	_



7.21. Vodící kostka / Führungsklotz / Guiding cube - 1



NAZEV SESTAVY KOSTKA VOD	ICI	201.611	•	stroj N440
	Konst	ruoval:	HLADIL	
	Datum	n;	27. 01	.2010
EJUMAR	Merit	ko:	3:5	

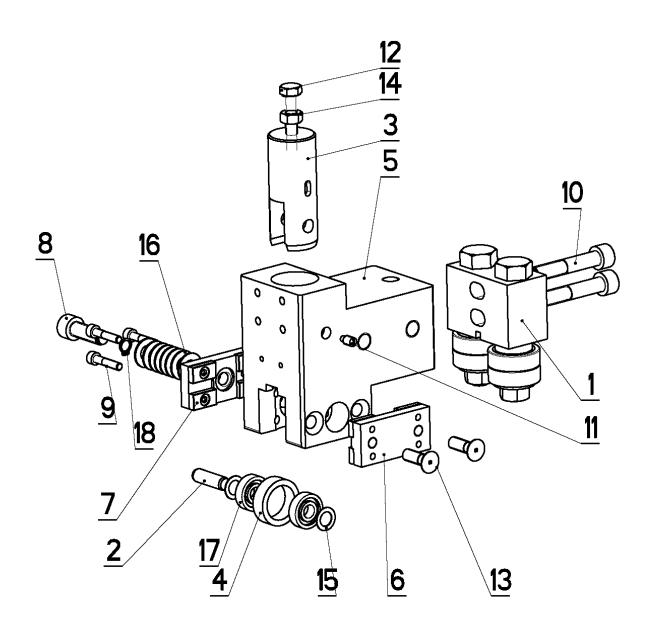


7.22. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 1

cisto 201.	cisto Sestavy 201.6110-550	3	NG2.ev 3.e340.vy KOSTKA VÕDICI/LEAD CUBE/FÜHRUNGSKLOTZ		
Poz.	Objednaci cisto	Ver.	Nozer polozky	Rozmer	K.
_	201,6110-510	0	VEDENI / GUIDE / BACKENFÜHRUNG		_
2	30.6710-108	_	KOLIK / PIN / BOLZEN	TYC 10	_
m	30,6710-109	0	PIST / PISTON / KOLBEN	d 32	_
4	30.6710-110	_	KROUZEK / RING / RING	LH 2403210	_
ഹ	30.7410-110	٥	DRZAK TVRDOKOVU / POA HOLDER / HM-HALTER		_
ی	30.7410-120	0	DRZAK TYRDOKOVU / POA HOLDER / HM-HALTER		_
-	30. Y410-201	_	KOSTKA VODICI LEVA / LEAD CUBE / FÜHRUNGSKLOTZ	HR 110x70	_
6 0	30.Y610-503	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MIOX30	_
.	90.001.25.011	٥	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M5X25	m
2	90.001.25.053	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MIDX55	2
=	90.004.2D.002	0	SROUB STAVECI / ADJUSTMENT BOLT / STELLSCHRAUBE	SROUB MEX 12	_
7	90.005.55.019	0	SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE	SROUB M8X40	_
13	90.011.27.016	0	SROUB ZAPUSTWY / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB M8X25	2
7	90.100.55.005	0	NATICE / NUT / MUTTER	MATICE _ M8	_
15	90.154.50.003	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	10x16x0.50	2
91	90.350.0Z.005	0	PRUZINA TALIROVA / DISC SPRING / TELLERFEDER	20XI0.2XI.I	80
	95.001.044	0	LOZISKO / BEARING / LAGER	609 2RS	2
<u>89</u>	95.800.002	0	KROUZEK POJIST.VNEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUBEN	POJISTNY KROUZEK 8	_



7.23. Vodící kostka / Führungsklotz / Guiding cube - 2



NAZEV SESTAVY KOSTKA VOD	ICI	cislo sestavi 201.611	•	STROJ EX520
	Konst	ruoval:	HLADIL	
	Datum	١:	27. 01	.2010
ESCHIAR IAA	Merit	ko:	1:2	

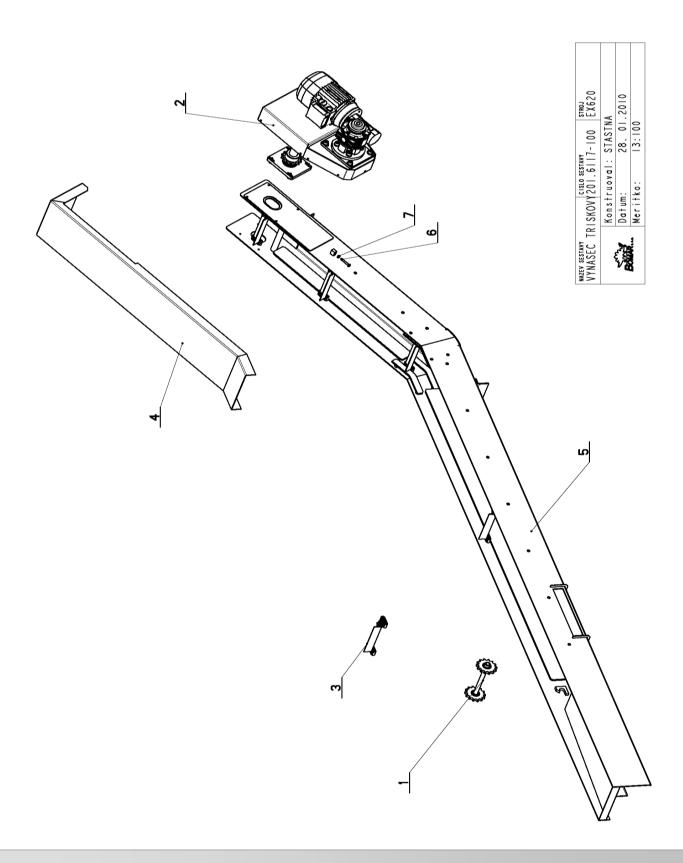


7.24. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 2

cisto 201.	Cisto Sestavy 201.6110-610	3%.	Nozev sestovy KOSTKA VODICI/LEAD CUBE/FÜHRUNGSKLOTZ		
Poz.	Objednaci cislo	Ver.	Nozer polozky	Rozmer	K.
_	201.6110-510	0	VEDENI / GUIDE / BACKENFÜHRUNG		_
2	30.6710-108	_	KOLIK / PIN / BOLZEN	TYC 10	_
m	30,6710-109	٥	PIST / PISTON / KOLBEN	d 32	_
4	30.6710-110	_	KROUZEK / RING / RING	LH 2403210	_
2	30. Y410-101	_	KOSTKA VODICI / LEAD CUBE / FÜHRUNGSKLOTZ	HR 110x70	_
9	30.Y410-110	٥	DRZAK TYRDOKOVU / POA HOLDER / HM-HALTER		_
-	30.7410-120	0	DRZAK TVRDOKOVU / POA HOLDER / HM-HALTER		_
&	30.Y610-503	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MIOX30	_
6	90.001.25.011	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M5X25	3
2	90.001.25.053	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MIOXSS	2
=	90.004.2D.002	٥	SROUB STAYEC! / ADJUSTMENT BOLT / STELLSCHRAUBE	SROUB MEXI2	_
12	90.005.55.019	0	SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE	SROUB M8X40	-
13	90.011.27.016	0	SROUB ZAPUSTNY / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB M8X25	2
7	90.100.55.005	٥	NATICE / NUT / NUTTER	MATICE _ M8	_
15	90.154.50.003	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	10x16x0.50	2
9	90.350.0Z.005	0	PRUZINA TALIROVA / DISC SPRING / TELLERFEDER	20XI0.2XI.I	\$
11	95.001.044	0	LOZISKO / BEARING / LAGER	609 2RS	2
<u>&</u>	95.800.002	0	KROUZEK POJIST.VNEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUßEN	POJISTNY KROUZEK 8	_



7.25. Třískový vynašeč / Spanabführung / Chip extractor



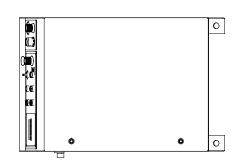


7.26. Kusovník / Stückliste / Piece list – Třískový vynašeč / Spanabführung / Chip extractor

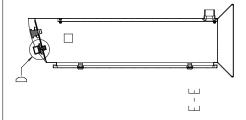
cisto 201.	Cisto Sestary 201.6117-100	Ver.	Ver. Nozev sestovy 4 VYNASEC TRISKOVY/CHIP EXTRACTOR/SPANABFÜHRUNG		
Poz.	Poz. Objednaci cislo	Ver.	Ver. Nazev polazky	Rozmer	K.s
_	201.6017-103	0	KOLO NAPINACI / TENSIONING WHEEL / UMLENKRAD		_
2	201.6017-250	_	POHON / DRIVE / ANTRIEB		_
m	201.6717-304	_	RETEZ / CHAIN / KETTE		œ
#	30.6117-103	2	KRYT / COVER / ABDECKUNG		_
2	30.6117-201	٥	KORYTO / CHANNEL / RINNE		_
9	90.005.55.012	0	SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE	SROUB M6X40	2
7	90.100.55.004	0	MATICE / NUT / NUTTER	MATICE _ M6	2

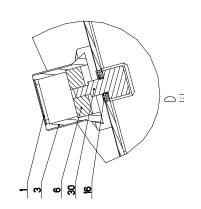


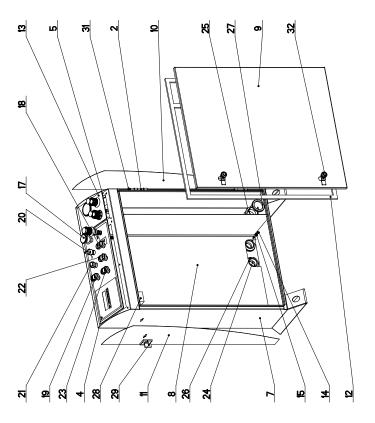
7.27. Ovladací pult / Bedienpult / Control panel













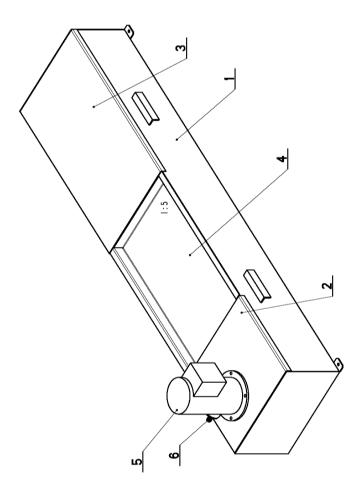
7.28. Kusovník / Stückliste / Piece list – Ovladací pult / Bedienpult / Control panel

Cist.	Cisto Sestavy 201. Y430-000	Ver.	Nozev sestovy OVLADACI PANEL/CONTROL PANEL/BEDIENPULT		
Poz.	Objednaci cislo	Ver.	Nazev polozky	Rozmer	Кs
_	30.6130-012	0	VIKO / COVER / DECKEL	P 0.5x 30x30	m
2	30.7217-028	_	CEP / LUG / BOLZEN	7 h 9	2
m	31.6130-008	0	HLAVICE / HEAD / KOPF		_
4	251.654	0	PANEL ELEKTRO / ELECTRO PANEL / PANEL		_
5	201.R230-220	0	OVLADACI PANEL / CONTROL PANEL / BEDIENPULT		_
9	30.R230-010	0	MEZIKUS / INTERMEDIATE PIECE / PASSSTÜCK	d 32	_
7	30.R230-201	0	SKRIN / BOX / KASTEN		_
∞	30.R230-202	0	PANEL / PANEL / PANEL	P 1.5x525	_
о	30.R230-203	0	VIKO / COVER / DECKEL		_
0	30.R230-204	0	PLECH / PLATE / BLECH	P 1x220	_
=	30.R230-206	0	PLECH / PLATE / BLECH	P 1x220	_
15	30.R230-209	0	TESNENI / SEALING / DICHTUNG	TESNENI 19x10	_
<u>e</u>	31.R230-211	0	SAMOLEPKA / STICKER / AUFKLEBER		_
4	90.100.55.004	0	MATICE / NUT / MUTTER	MATICE - M6	4
12	90.150.50.004	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 6,4	4
9	90.150.50.006	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 10,5	2
1.1	91.060.030	0	HLAVICE TOTAL STOP / TOTAL STOP HEAD / TASTE TOTAL STOP		_
<u>∞</u>	91.060.033	0	HLAVICE / HEAD / KOPF		_
6	91.060.034	0	HLAVICE / HEAD / KOPF	START/STOP	_
20	91.060.051	0	PREPINAC / SWITCH / UMSCHALTER		_
71	91.060.053	0	HLAVICE / HEAD / KOPF		_
22	91.060.054	0	HLAVICE / HEAD / KOPF	NAHORU/DOLU	_
23	91.060.055	0	HLAVICE / HEAD / KOPF	SV. ZAVR/OTEV	_
24	91.071.005	0	PRUCHODKA / LEADTHROUGH / DURCHFÜHRUNG		2
25	91.071.022	0	VYVODKA / BUSHING / TÜLLE		_
56	91.072.008	0	MATICE / NUT / MUTTER		2
27	91.072.016	0	MATICE / NUT / MUTTER		_
28	91.170.003	0	SPINAC VACKOVY / CAM SWITCH / SCHALTER	LE2-12-1763	_
29	91.180.001	0	DESKA SPINACE / ELECTRIC BOARD / PLATINE		_
30	91.283.015	0	POTENCIOMETR / POTENTIOMETER / POTENTIOMETER	TP 195 4K7/N 20A	_
3	95.802.003	0	KROUZEK POJIST.VNEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUƁEN	POJISTNY KROUZEK 5	2
32	99.104.002	0	ZAMEK / LOCK / SCHLOSS	ZAMEK CINSKY	2

Cislo Sestavy/Number of assembly/Nummer der Baugruppe; Verze (Ver.)/Version/Version; Nazev sestavy/Assembly title/Name der Baugruppe; Pozice (Poz.)/Position/Position; Objednaci cislo/Purchase order number/Bestellnummer; Nazev polozky/Volume title/Name der Position; Rozmer/Stock size/Abmessung



7.29. Chlazení / Kühlung / Cooling





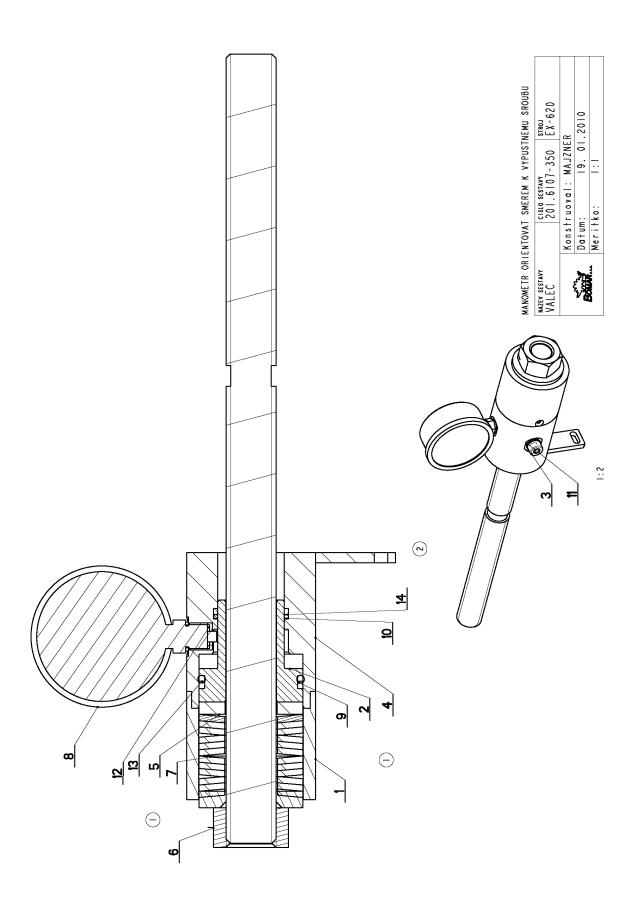


7.30. Kusovník / Stückliste / Piece list – Chlazení / Kühlung / Cooling

cisto 201.	Cisto Sestavy 201.6106-000	۲. - ۲.	Ver. CHLAZENI/COOLING/KÜHLUNG		
Poz.	Poz. Objednaci cislo	Ver.	Ver, Nozev polozky	Rozmer	ž.
_	30.6106-001	0	VANA / TANK / WANNE		_
2	30.6106-002	0	PLECH / PLATE / BLECH	P 1.5 - 327	
m	30.6106-003	0	PLECH / PLATE / BLECH	P 1.5 - 519	_
4	30.6106-004	0	SITO / SIEVE / GITTERWERK	P I x352	_
r.	91.020.XXX	0	CERPADLO CHLAZENI / COOLING PUMP / KÜHLMITTELPUMPE	3 COA 4-14	_
9	94.202.014	0	REDUKCE / REDUCTION / ADAPTOR / REDUKTION	3/4"-10	_



7.31. Válec / Roller / Zylinder



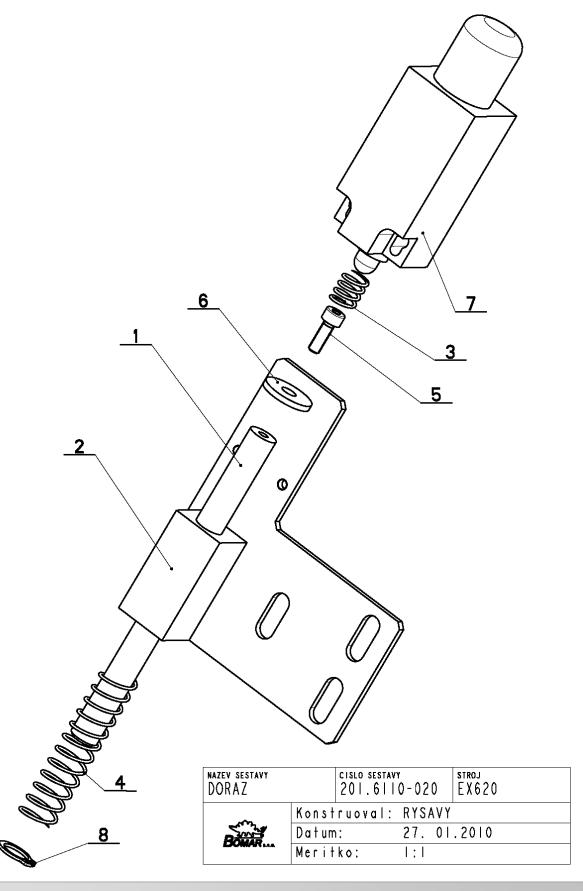


7.32. Kusovník / Stückliste / Piece list – Válec / Roller / Zylinder

Cisto Se 201.6	Cista Sestery 201.6107-350	Yer.	MAZEC/ROLLER/ZYLINDER		
Pez.	Objednaci cislo	¥• r.	Mazer polazky	Rozner	₹ 2
_	36, 6908-913	۰	TRUBEKA 7 TUBE 7 ROHR	TR 62=10	
2	30.6107-352	0	PIST / PISTON / KOLBEN	d 55	_
-	30, 5107-354	_	SROUB / BOLT / SCHRAUBE	MBX20	_
4	30.6107-358	•	WALEC / MOLIER / ZYLINDER		_
. ,	30,6107-359	_	DISTANC / DISTANCE / DISTANZ	- 05 P	_
	30.6108-008	_	SBOUB / BOLT / SCHRAUBE		_
~	96.350.02.004	•	PRUZINA TALIROYA / DISC SPRING / TELLERFEDER	50X25.4X3	2
8	92.080.004	•	MANDHETR / MANDHETER / MANDHETER	d 63 - 250bar	
6	96.001.033	0	KROUZEK O STATICKY 7 STATIC O RING 7 O-RING STATISCH	ORAH00224-N70	
ĝi	96, 002, 063	0	KROUZEK O STATICKY / STATIC O RING / O-RING STATISCH	ORAR00125-N70	_
=	96.082.001	0	TESMENI / SEALING / DICHTUNG	KROWZEK CU 10/14	2
71	96.082.005	۰	KROUZEK TESMICI / SEAL RIMG / DICHTUNGSRIMG	5x8.8s1	_
13	96.083.¢10	0	KROUZEK / RING / RING	BG2700446-PT00	_
=	96,063,011	•	RROUZEK / RING / RING	BU2000320-PT00	_



7.33. Doraz / Anschlag / Stop Piece



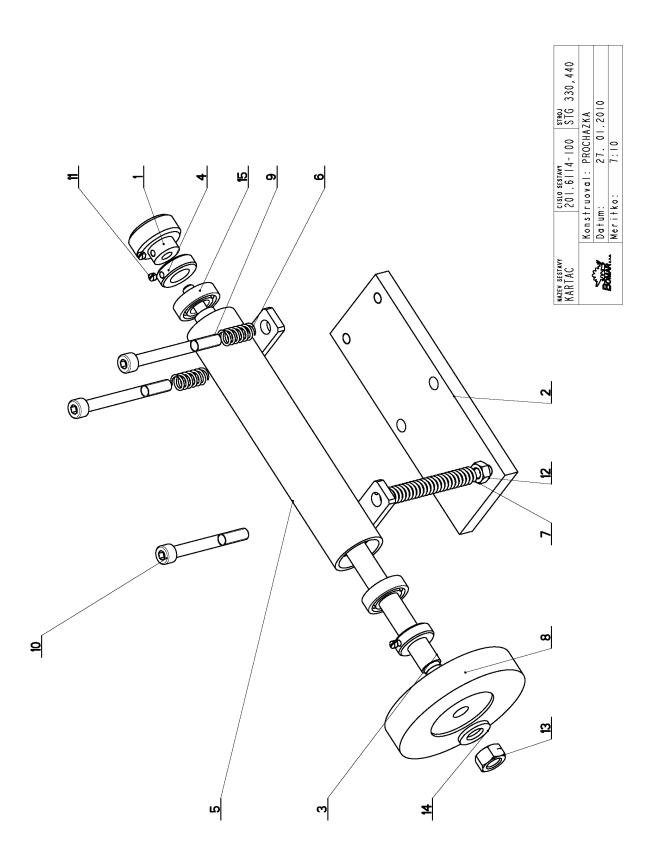


7.34. Kusovník / Stückliste / Piece list – Doraz / Anschlag / Stop Piece

cislo 201.	Cisto Sestary 201.6110-020	¥er.	Nozev 363193y DORAZ/STOP PIECE/ANSCHLAG		
Po2.	Poz. Objednaci cislo	Ver.	Nazer polozky	Rozmer	ž.
_	30.6110-114	0	TYC / POLE / STANGE	01 P	_
2	30.6110-116	0	DORAZ / STOP PIECE / ANSCHLAG		_
3	31,1605-121	0	PRUZINA / SPRING / FEDER	1x9.5x12x4,0(0,8x9x10x6)	_
4	31.2801-014	0	PRUZINA / SPRING / FEDER	1x12.5x60x12	_
2	90.001.25.003	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M4X12	_
9	90.151.50.006	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 5	_
	91.173.007	0	SPINAC KONCOVY / END SWITCH / ENDSCHALTER	-RIWK	_
8	95.800.003	0	KROUZEK POJIST.VNEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUBEN	POJISTNY KROUZEK 10	_



7.35. Kartáč / Bürste / Brush





7.36. Kusovník / Stückliste / Piece list – Kartáč / Bürste / Brush

cislo 201.	Cisto Sestary 201.6114-100	ver.	Nazev sestavy KARTAC/BRUSH/BÛRSTE		
Po2.	Objednaci cislo	Ver.	Nozer polozky	Rozmer	K.s
_	30.0814-204	0	KOLECKO / WHEEL / ROLLE	SESTAVA	_
2	30.6114-105	0	DESKA / BOARD / PLATTE	HR. 70x12	_
m	30.6114-116	0	HRIDEL / SHAFT / WELLE	D 15	_
4	30.6114-119	_	KROUZEK / RING / RING	d 28	2
r.	30.6114-128	0	DRZAK / HOLDER / HALTER		_
ی	31.1506-115	0	PRUZINA / SPRING / FEDER	.6x12x25x7.5	2
7	31.2107-206	0	PRUZINA / SPRING / FEDER		_
∞	49.250.017	0	KARTAC / BRUSH / BÜRSTE	SPB 100x12	_
o,	90.001.25.067	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M8X80	2
2	90.001.25.095	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M8X70	_
=	90.003.2D.001	0	SROUB STAVEC! / ADJUSTMENT BOLT / STELLSCHRAUBE	SROUB M5X6	8
12	90.100.55.005	0	MATICE / NUT / MUTTER	MATICE _ M8	_
-3	90.100.55.007	0	NATICE / NUT / NUTTER	MATICE _ MI2	_
7	90,150,50,007	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 13	_
15	95.001.006	0	LOZISKO / BEARING / LAGER	6002 2RS	2



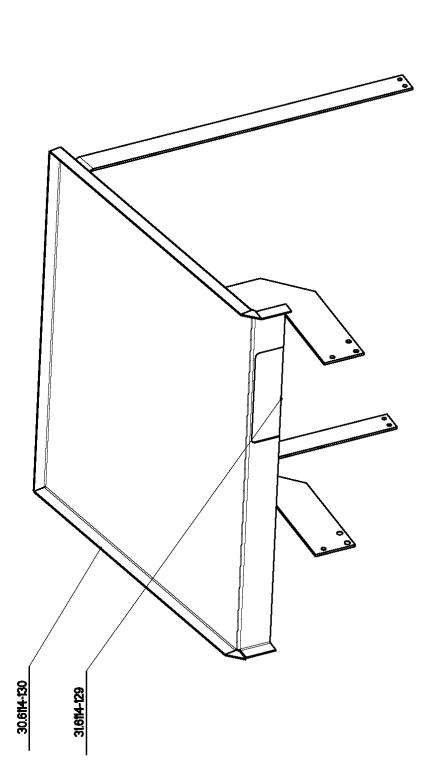
7.37. Odměřování / Gehrungmessung / Measuring



7.38. Kryt / Deckel / Cover – 1

NAZEV SESTAVY		CISLO SESTAYY									STROJ
KRYT		30.6114-131		•	Datum: 27, 10,2006	10.2006				KS/ST	EX620
					Zhotovil: RYSAVY	YSAVY					
cislo vykresu	NG264	rozmer	delka	delka mat.rych	mat.kan.	por.upr. c.hm ks pozice sklod	٦. آ	s a	ozice sklad	poxnd	Poznamka
30,6114-130	ODKAP			SVARENO		LAKOVAT 11.0	11.0	-		Ex620	
31.6114-129	CLONA	2x84		239 GUMA OLEJIZYDORNA	NA		0.3	-		EX620	

GUMOVE TESNENI NALEPIT , PRI MONTAZI NARIZNOUT PODLE TRUBEK HYDRALIKY

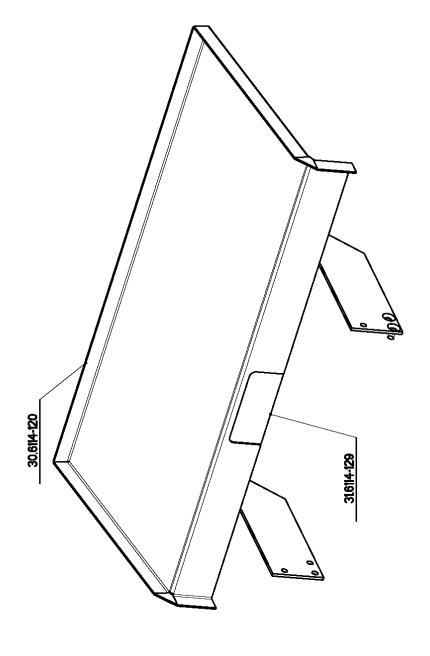




7.39. Kryt / Deckel / Cover – 2

NAZEV SESTAVY		CISLO SESTAVY									STROJ
KRYT		30.6114-134	~ +		Datum: 27, 10,2006	10.2006			1	KS/ST	EX620
					Zhotovil: RYSAVY	YSAVY					
cislo vykresu	ngzer	rozmer	delko	delko mot.vych	mot.kon.	por.upr.	c. ha	z.	pov.upr. c.hm ks pozice sklod	pound	Poznamka
30.6114-120	ODKAP			SVARENO		KOMAXIT	6.5	-		EX620	
31.6114-129	CLONA	2x81		239 GUMA OLEJIZYDORNA	NA		0.3	-		Ex620	

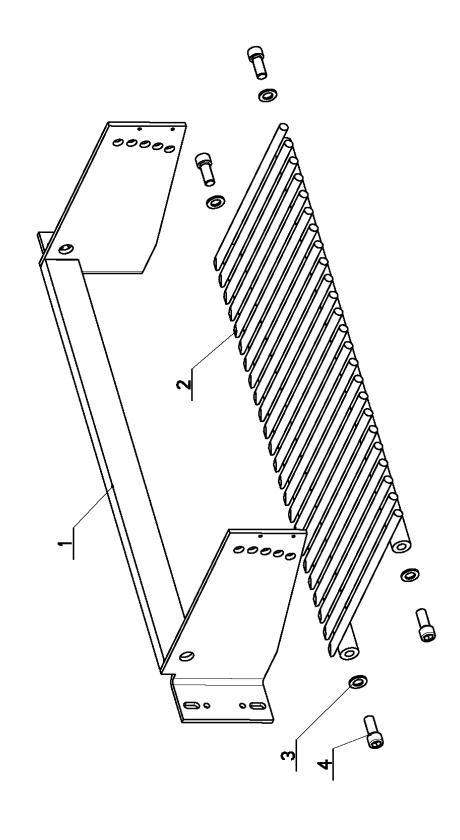
GUÁMOVE TESNENI NALEPIT, PRI MONTAZI NARIZNOUT PODLE TRUBEK HYDRAULIKY





7.40. Rošt / Gitter / Grill

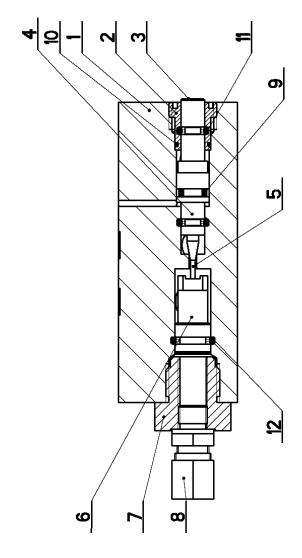
Poz. Objednaci cislo Ver. Nazer polozky Ks 1 30.6118-101 0 DRZAK / HOLDER / HALTER 1 2 30.6118-102 1 ROST / GRILL / GITTER 3 90.150.50.009 0 PODLOZKA / WASHER / UNTERLESSCHEUBE 4 90.001.25.086 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE A NI6X40 4	Cisto 201.	Cisto Sestary 201.6118-100	Ver.	Ver. Nozew sestory 0 ROST/GRILL/GITTER		
0 DRZAK / HOLDER / HALTER 1 ROST / GRILL / GITTER 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	Poz.	Objednaci cislo	Ver.		Rozmer	ž
ROST / GRILL / GITTER	_	30,6118-101	0	DRZAK / HOLDER / HALTER		_
0 PODLOZKA / WASHER / UNTERLEGSCHEIBE 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	2	30.6118-102	_	ROST / GRILL / GITTER		_
0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	m	90.150.50.009	0		PODLOZKA 17	4
	₩	90.001.25.086	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M16X40	4





7.41. Kostka regulace / Regulation cube / Regelungswürfel

Poz. Objednaci cislo Ver. Nozer polozky ROZIKA REGULACE / REGULATION CUBE / REGELUNGSWÜRFEL TYC 40x40 1 30.6816-101 1 KOSTKA REGULACE / REGULATION CUBE / REGELUNGSWÜRFEL TYC 16 2 30.6816-104 1 VIKO / COVER / DECKEL TYC 16 3 30.6816-103 0 PIST / PISTON / KOLBEN TYC 12 4 30.6816-108 0 JEHLA / MEDLE / NADEL TYC 12 5 95.690.001 0 JEHLA / MEDLE / NADEL TYC 12 6 30.6816-106 2 PIST / PISTON / KOLBEN TYC 12 7 30.6816-107 0 VIKO / COVER / DECKEL TYC 12 8 92.002.102 0 VIKO / COVER / DECKEL TYC 22 8 95.002.003 0 O-KROUZEK DYNAMIC / DORING / DOR	cisto 201.	cisto Sestory 201.6816-100	, ver.	Nozev sestovy KOSTKA REGULACE/REGULATION CUBE/REGELUNGSWÜRFEL		
02. Objednoci cislo Ver. Nozer polozby 30.6816-101 1 KOSTKA REGULACE / REGULATION CUBE / REGELUNGSWÜRFEL 30.6816-104 1 VIKO / COVER / DECKEL 30.6816-103 0 PIST / PISTON / KOLBEN 30.6816-103 0 JEHLA / NEEDLE / NADEL 95.690.001 0 JEHLA / NEEDLE / NADEL 30.6816-106 0 JEHLA / NEEDLE / NADEL 30.6816-107 0 JEHLA / NEEDLE / NADEL 30.6816-108 0 JEHLA / NEEDLE / NADEL 30.6816-106 2 PIST / PISTON / KOLBEN 30.6816-107 0 VIKO / COVER / DECKEL 92.002.102 0 SROUBENI / BOLTING / VERSCHRAUBING 95.002.003 0 O-KROUZEK DYNAMIC / DYNAMIC O RING / O-RING DYNAMISCH 96.001.001 0 O-KROUZEK STATIC / STATIC O RING / O-RING STATISCH 96.001.003 0 O-KROUZEK STATIC / STATIC O RING / O-RING STATISCH						
30.6816-101 I MOSTKA REGULACE / REGULATION CUBE / REGELUNGSWÜRFEL 30.6816-104 I VIKO / COVER / DECKEL 30.6816-103 0 PIST / PISTON / KOLBEN 30.6816-108 0 JEHLA / NEDLE / NADEL 30.6816-108 0 JEHLA / NEDLE / NADEL 30.6816-106 2 PIST / PISTON / KOLBEN 30.6816-107 0 JEHLA / NEDLE / NADEL 30.6816-108 0 JEHLA / NEDLE / NADEL 30.6816-106 0 JEHLA / NEDLE / NADEL 30.6816-107 0 VIKO / COVER / DECKEL 92.002.102 0 SROUBENI / BOLTING / VERSCHRAUBUNG 95.002.003 0 O-KROUZEK DYNAMIC / DYNAMIC O RING / O-RING DYNAMISCH 10 O-KROUZEK DYNAMIC / DYNAMIC O RING / O-RING ORING / O-RING STATISCH 10 O-KROUZEK STATIC / STATIC O RING / O-RING STATISCH 20 O-KROUZEK STATIC / STATIC O RING / O-RING STATISCH	Poz.	Objednaci cislo	Ver.		Rozmer	Ķ.
30.6816-104 1 VIKO / COVER / DECKEL 30.6816-103 0 PIST / PISTON / KOLBEN 30.6816-108 0 JEHLA / NEDLE / NADEL 95.690.001 0 JEHLA / NEDLE / NADEL 30.6816-106 0 JEHLA / NEDLE / NADEL 30.6816-107 0 JEHLA / NEDLE / NADEL 30.6816-107 0 VIKO / COVER / DECKEL 95.002.102 0 VIKO / COVER / DECKEL 96.002.003 0 O-KROUZEK DYNAMIC / DYNAMIC OR NIG / O-RING DYNAMISCH 96.002.041 0 O-KROUZEK DYNAMIC / DYNAMIC / DYNAMIC OR NIG / O-RING STATISCH 96.001.001 0 O-KROUZEK STATIC / STATIC OR NIG / O-RING STATISCH	_	30.6816-101	_	/ REGULATION CUBE / REGELUNGSWÜRFEL	TYC 40x40	_
30.6816-103 0 PIST / PISTON / KOLBEN 30.6816-108 0 JEHLA / NEDLE / NADEL 95.690.001 0 JEHLA / NEEDLE / NADEL 30.6816-106 2 PIST / PISTON / KOLBEN 30.6816-107 0 VIKO / COVER / DECKEL 95.002.102 0 VIKO / COVER / DECKEL 96.002.003 0 O-KROUZEK DYNAMIC / DYNAMIC OR ING / O-RING DYNAMISCH 1 96.002.041 0 O-KROUZEK DYNAMIC / DYNAMIC / DYNAMISCH 1 96.001.001 0 O-KROUZEK STATIC / STATIC OR ING / O-RING STATISCH 2 96.001.003 0 O-KROUZEK STATIC / STATIC OR ING / O-RING STATISCH	2	30.6816-104	_	/ DECKEL	TYC 16	_
30. 6816-108 0 JEHLA / NEDLE / NADEL 30. 690.001 0 JEHLA / NEDLE / NADEL 30. 690.001 0 JEHLA / NEDLE / NADEL 30. 6816-106 2 PIST / PISTON / KOLBEN 92. 002.102 0 VIKO / COVER / DECKEL 95. 002.003 0 O-KROUZEK DYNAMIC / DYNAMIC OR NING / O-RING DYNAMISCH 95. 002.041 0 O-KROUZEK DYNAMIC / DYNAMIC / DYNAMIC / DYNAMIC / DYNAMISCH 1 95. 001.001 0 O-KROUZEK STATIC / STATIC OR NING / O-RING STATISCH 2 96. 001.003 0 O-KROUZEK STATIC / STATIC OR NING / O-RING STATISCH	m	30,6816-103	0	KOLBEN	TYC 12	_
95.690.001 0 JEHLA / NEDLE / NADEL 30.6816-106 2 PIST / PISTON / KOLBEN 30.6816-107 0 VIKO / COVER / DECKEL 92.002.102 0 VIKO J COVER / VERSCHRAUBUNG 95.002.003 0 O-KROUZEK DYNAMIC / DYNAMIC OR ING / O-RING DYNAMISCH 95.002.041 0 O-KROUZEK DYNAMIC /	4	30.6816-108	0	/ NADEL	TYC 8	_
30.6816-106 2 PIST / PISTON / KOLBEN 30.6816-107 0 VIKO / COVER / DECKEL 92.002.102 0 SROUBENI / BOLTING / VERSCHRAUBUNG 96.002.003 0 O-KROUZEN DYNAMIC O RING / O-RING DYNAMISCH 1 96.002.041 0 O-KROUZEN DYNAMIC / DYNAMIC O RING / O-RING DYNAMISCH 1 96.001.001 0 O-KROUZEN STATIC / STATIC O RING / O-RING STATISCH	25	100.069.58	0	/ NADEL	1,5x11.8	_
30.6816-107 0 VIKO J COVER / DECKEL 92.002.102 0 SROUBENI / BOLTING / VERSCHRAUBUNG 96.002.003 0 O-KROUZEN DYNAMIC / DYNAMIC O RING / O-RING DYNAMISCH 0 96.002.041 0 O-KROUZEN DYNAMIC / DYNAMIC O RING / O-RING DYNAMISCH 1 96.001.001 0 O-KROUZEN STATIC / STATIC O RING / O-RING STATISCH 2 96.001.003 0 O-KROUZEN STATIC / STATIC O RING / O-RING STATISCH	g	30.6816-106	2	KOLBEN	TYC 12	_
92.002.102 0 SROUBENI / BOLTING / VERSCHRAUBUNG 96.002.003 0 O-KROUZEK DYNAMIC / DYNAMIC O RING / O-RING DYNAMISCH 0 96.002.041 0 O-KROUZEK DYNAMIC / DYNAMIC O RING / O-RING DYNAMISCH 1 96.001.001 0 O-KROUZEK STATIC / STATIC O RING / O-RING STATISCH 2 96.001.003 0 O-KROUZEK STATIC / STATIC O RING / O-RING STATISCH	7	30.6816-107	0	/ DECKEL	TYC 22	_
96.002.003 0 O-KROUZEK DYNAMIC / DYNAMIC / DYNAMIC ORING DYNAMISCH 0 96.002.041 0 O-KROUZEK DYNAMIC / DYNAMIC ORING / O-RING DYNAMISCH 1 96.001.001 0 O-KROUZEK STATIC / STATIC ORING / O-RING STATISCH 2 96.001.003 0 O-KROUZEK STATIC / STATIC ORING / O-RING STATISCH	80	92.002.102	0		S-GEV-BLLR	_
96.002.041 0 O-KROUZEK DYNAMIC / DYNAMIC / DYNAMIC / DYNAMIC / DYNAMISCH 96.001.001 0 O-KROUZEK STATIC / STATIC O RING / O-RING STATISCH 96.001.003 0 O-KROUZEK STATIC / STATIC O RING / O-RING STATISCH	о	96.002.003	0		6 X 2	_
96.001.001 0 O-KROUZEK STATIC / STATIC O RING / O-RING STATISCH 96.001.003 0 O-KROUZEK STATIC / STATIC O RING / O-RING STATISCH	<u>-</u>	96.002.041	0	C / DYNAMIC O RING / O-RING DYNAMISCH	10x1	_
96.001.003 0 O-KROUZEK STATIC / STATIC O RING / O-RING STATISCH	=	100.100.86	0	1 STATIC O RING 1 O-RING STATISCH	4X1,8	2
	12	96.001.003	0	/ STATIC O RING / O-RING STATISCH	BX2	_





7.42. Laserové ukazovátko / Laserzeiger /Laser pointer

NAZEV SESTAVY		CISLO SESTAVY									STROJ
LASER-UK	ASER-UKAZOVATKO	202.6121-00	000		Datum: 13. 09.2006	9007.60				KS/ST	EX520,620,
					Zhotovil: RYSAVY	YSAVY					
cislo vykresu	19Z0U	rozmer	delko	delka mat.rych	mat.kon.	por.upr.	c.hm	ks p	pov.upr. c.hm ks pozice sklod	poind	Poznamka
30.6120-001	DRZAK	DRZAK LASERU		SVARENO	SVARENO	CERNIT	0.5	-		EX620	
202.5012-000	LASER-UKAZOVATKO			SESTAVA	SESTAVA		0.5	_		STG260	

