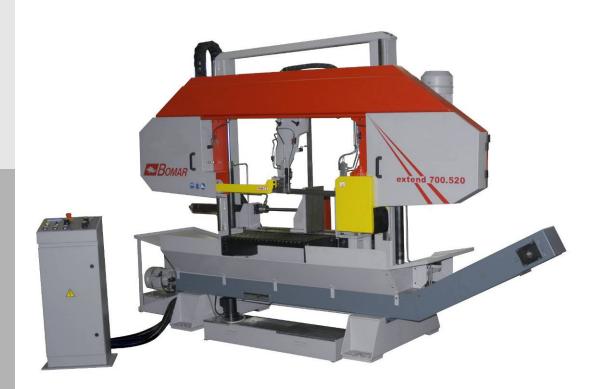
Serie **Extend**









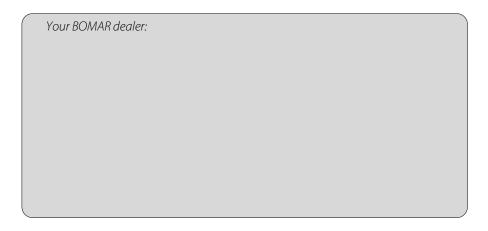
Extend 700.520

Operating instructions

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



Service and information



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We are available:

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Version:

1.05 / Feb. 2010

rev. 1

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2



EC Declaration of Conformity

n 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.

> **Band Saw** Name:

Extend 700.520 Type range:

Serial number:

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

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) 3500×1260×2500 mm,

Supply voltage 3×400(230) V, total power requirement 4 (5,5), weight 3800 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 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 ICO: 48908827 DIC: CZ48908827

Alfred Pichlmann, Managing Director

Point of issue, datum Name and function of the responsible subject Signature

Alfred Pall

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

If the equipment is installed without safety equipment offered by BOMAR, spol. s ro or its agents and used by the customer (or buyer) then EC declaration loses validity.

EC Declaration of conformity is valid only if customer (buyer) installed the BOMAR safety equipment with the machine or with some other with equivalent safety device in accordance with current applicable regulations and standards.

All machine elements and components that were built into the device by BOMAR, spol. s ro have been declared "identical" to a safety device, as offered by BOMAR, spol. s ro or its agents.



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1. Safety notes



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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 700.520** 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!



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.

1.4.1. Safety notes for the servicing and repairs on hydraulic unit

Compliance with the the principles of cleanliness is basic requirement for trouble-free operation of hydraulic equipment. Hydraulic components are products made with high accuracy, and any contamination leads to a reduction lifetime or even malfunction. The consequences are very difficult to remove and expensive.

Always use clean tools. Parts and fasteners, which are part of a hydraulic circuit, never put away the dirty surface. The best cleaning agent is crepe paper, because the fibers of the cleaning cloths can also cause malfunction.

Protective cap from the threaded chamber remove just before the assembly of the unit.

Hoses and pipes before mounting flush with gasoline or other cleaning agent and blow compressed air.

All fittings must be properly tightened. However, do not raw power.

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!

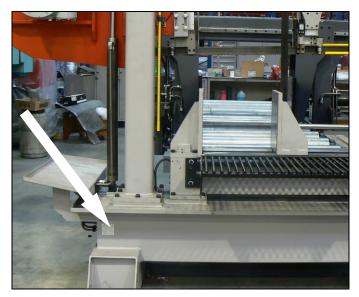
- When handling cooling agents always wear hazardous fluid-proof gloves!
- Wear protective goggles!
- Cooling liquid can get in contact with your eyes and may cause permanent severe injuries

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.



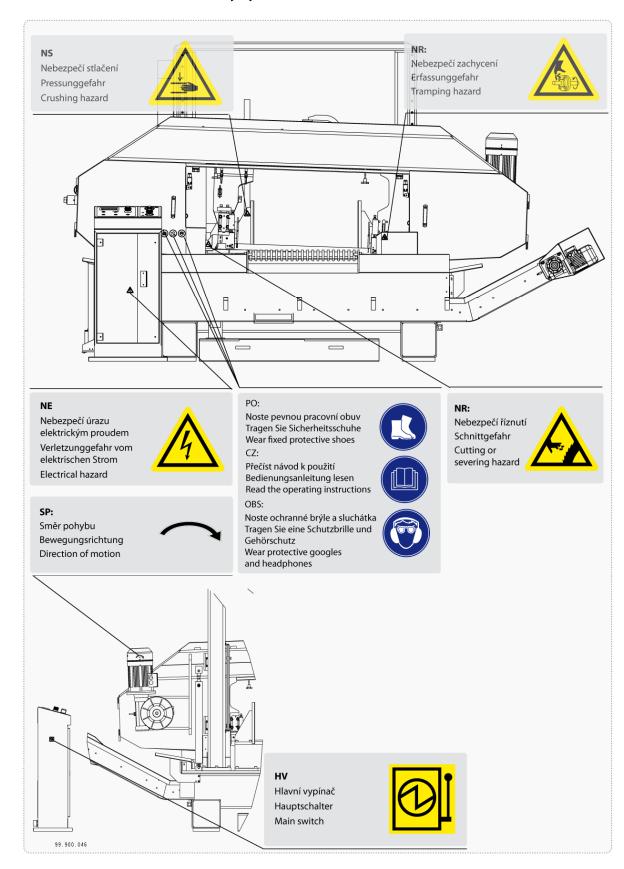
1.7. Umístění štítku stroje / Maschinenschild position / Position of machine label



Machine label is placed on base.



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





2. Machine documentation



Dokumentation der Maschinen Machine documentation

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2.1. Technická data / Technische Daten / Technical data

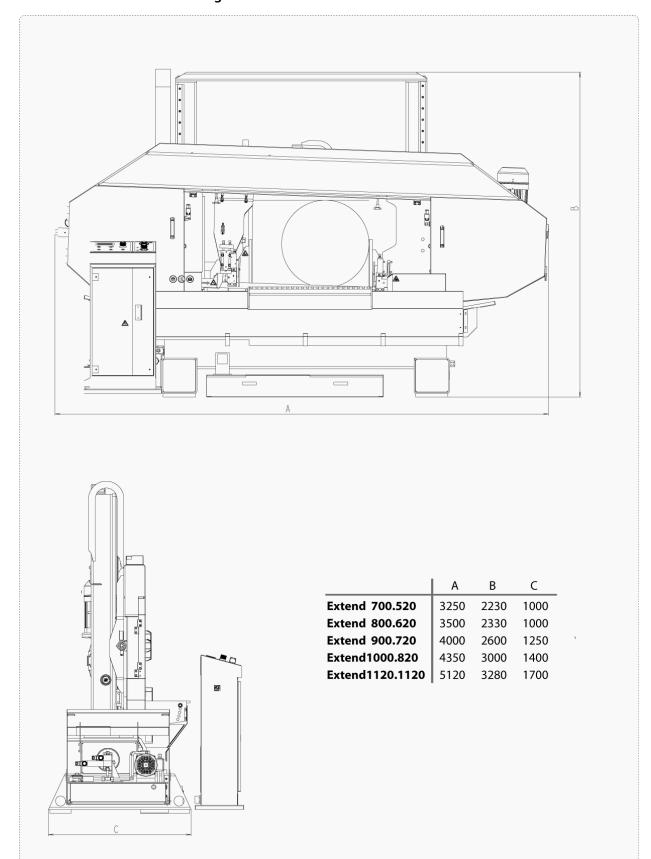
Hn	notnost stroje / Maschinengewicht / Machine weight:	
•	Hmotnost / Gewicht / Weight	3800 kg
Ro	změry stroje / Maschinengröße / Machine size :	
•	Délka / Länge / Lenght Šířka / Breite / Width Výška / Höhe / Height	3500 mm 1260 mm 2500 mm
Ele	ktrické vybavení / Elektrische Ausrüstung / Electical eq	quipment:
•	Napájení / Versorgungsspannun / Supply voltage Příkon / Gesamptschlusswert / Total Input Max.jištění / Max. Vorschaltsicherung / Max. Fuse Krytí / Schutzart / Protection	~3 x 400V, 50Hz, TN-C- <u>S</u> 8,8kW 16 <i>A</i> IP 54
Ak	ustický tlak / Schalldruckpegel / Acoustic pressure:	
•	Extend 700.520	L _{Aeqv} =86 dB
Ро	hon / Atrieb / Drive:	
•	Typ / Typ / Type Napájení / Versorgungsspannun / Supply voltage Výkon / Leistung / Output Jmenovité otáčky / Motornenndrehzahl / Nominal speed	BN112M4 230/430-50 ~3 x 400V, 50Hz 4 kW 1440 min ⁻¹
Ну	draulické zařízení / Kühlmiteleinrichtung / Hydraulic ed	equipment:
•	Typ / Typ / Type Výkon / Leistung / Output	(731-0507)/870-2038 6,5 MPa/2,2 kW
Ch	ladící zařízení / Kühlmiteleinrichtung / Cooling equipm	nent:
•	Typ / Typ / Type Výkon / Leistung / Output Obsah nádrže / Volumen vom Kühlmittel / Capacity	3-COA4-14 0,05 kW 50
Ro	změr pásu / Sägebanddimension / Band size:	
~	6640×41×1,3	
Re	zná rychlost / Schnittgeschwindigkeit / Cutting speed:	
	15–90 m/min. (special 10-70 m	m.min ⁻¹ , 20-120 m.min ⁻¹)
Ře	zné rozsahy / Schnittbereiche / Cutting size:	
	0° Ø520 mm 700×520	20 mm 700×520 mm 520×520 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.

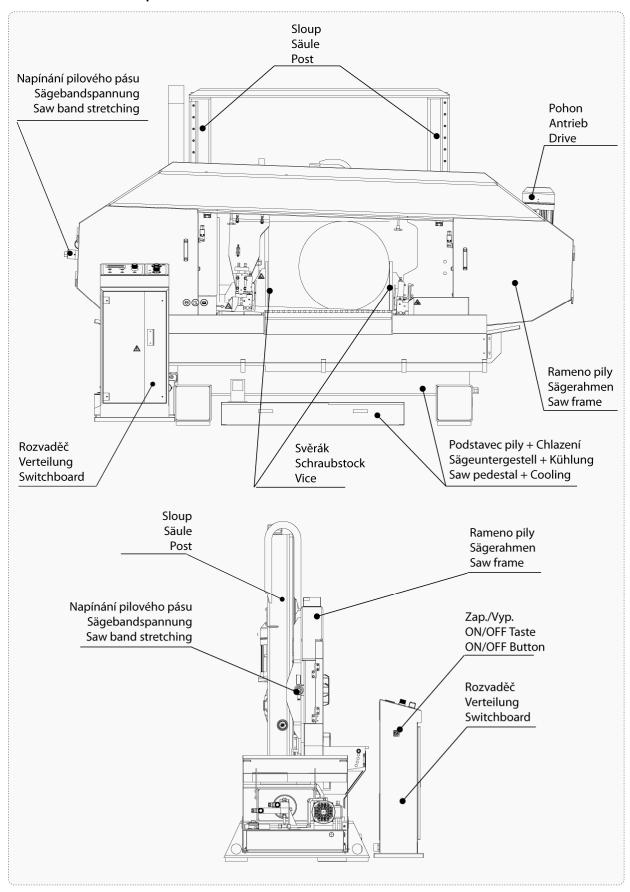


2.2. Rozměrové schéma / Aufstellzeichnung / Installation diagram





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
- 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℃
- 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.

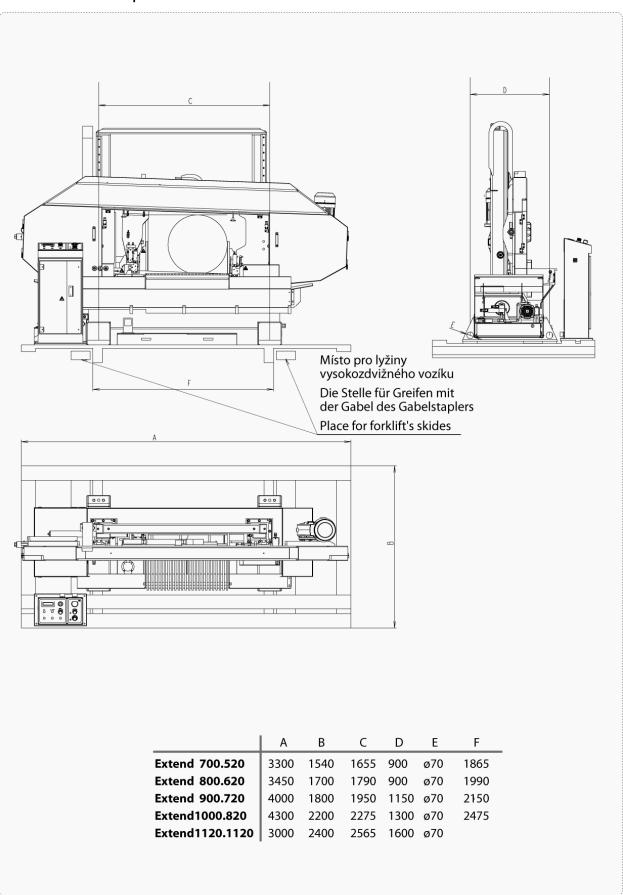
2.4.3. Transport and stocking

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 interval from 30% to 95% (not concentrate).
 Altitude must be 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.

Attention!

If the ambient temperature drops below 15 °C is required before operating the machine to have switch on hydraulic unit around 10 minutes and then made several motion few times (for example, in manual mode) by all hydraulic cylinders. The reason is to heat hydraulic oil to the operating temperature for proper function of the pressure switches (and choke).

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.

If the hydraulic unit is outside the machine (the machine only connected hoses and cables), it needs to be placed and mounted on a solid basis (floors, etc.). The mounting holes are used on the bottom (bases) of the tank.

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 700.520 - 3800 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. First run of the power pack

Before the first run check:

- The direction of the Pump, while run the power pack for max. 2seconds.
- The cooling fan of the motor has to rotate in the same direction as the arrow on the top of the motor cowling indicates.
- In case of wrong rotational direction, the electrical phase in the connection box is to be changed. This check is required after every disconnection from the power source
- Wiring matches with electrical and hydraulic diagrams
- the electric motors (pump and cooler) are properly connected and have the prescribed rotation
- the hydraulic accumulator with nitrogen gas to the specified value
- aux. elements work right (thermometer, level gauge, heater)

First run (Attention – working pressure on securing valve is set by producer in accoring the hydraulic diagram):

- In the short intervals activate an electric pump
- check for leaks and noise
- Bleed the hydraulic circuit
- if possible, test the circuit function with minimum load
- test the electrical equipment
- during operation monitor measuring equipment, noise, height and temperature of oil in the tank
- During this time a careful bleeding off for the whole hydraulic system is necessary. In case there is no bleeder port, the power pack will bleed itself after a while via the air breather on the tank or the return line filter.
- After multiple start-up.

2.6.4. Filling the reservoir with hydraulic oil

Oil regulations and recommendations of the manufacturer in the technical documentation (appendix) are to be carefully observed. For standard power packs we recommend the oiltype OH-HM32 (DIN 51524) of all known oil manufacturers.

Power packs have to be filled up with clean, pre-filtered oil! The purity of the hydraulic fluid must correspond to the class 10 NAS 1638 (reachable with filter β =75)!

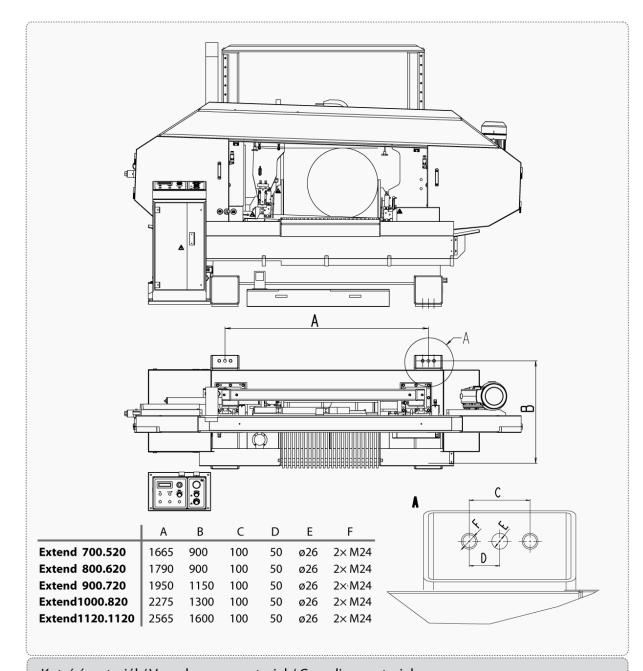
Filling from container, such as barrels, backets, etc. is not recommended or permitted!

The maximum oil level will be shown on the upper marking at the dipstick or the sight level glass. Overfilling has to be prevent. The maximum filling rate of 15 l/min shouldn't be exceed.

Oil type	Kinematic viscosity v in mm ² /s in relationship to the fluid temperatur					Freezing point
	0°C	20°C	40°C	60°C	80°C	°C
OH-HM 32	220	100	32	15	7	-40
OH-HM 46	400	170	46	18	11	-30
OH-HM 68	700	170	68	26	14	-28
OH-HV 32	180	67	32	17	11	-40
OH-HV 46	350	110	46	25	14	-36



2.6.5. 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: Chyba! Neznámý název vlastnosti dokumentu. / Chyba! Neznámý název vlastnosti dokumentu.

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.

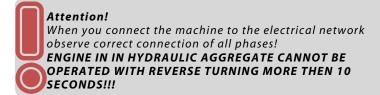
2.7.1. Check the direction of the saw band



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.



2.7.2. Check machine connection into electrical network





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.

If the machine is equipped with Micronising unit, fill the Microniser container with prescribed cooling agent. Microniser is ready for operation.

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

6640×41×1,30 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

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

BOMAR for recommended Variable tooth system for band saw.



2. 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.



2.10.4. Tables for teeth selection

			CILLEGE LATERIA	(0.5.)			
	1 5		SHAPED MATERIAL			_	
Dp S	Dp S	Dp		Dp 		Dp .	
				For cutting of more pieces uates to 2×S). In table, the			
Size of the wall				oth system (ZpZ) eter of the profile Dp [mm]		
S [mm]	20	40	60	80	100	120	
2	32 S	24 S	18 S	185	14 S	14 S	
3	24 5	18 S	14 S	14 S	10-145	10-14 S	
4	24 S	145	10-14 S	10-14 S	8-12 S	8-12 S	
5	18 S	10-145	10-14 S	8-12 S	6-10 S	6-10 S	
6	18 5	10-145	8–12 S	8-12 S	6-10 S	6-10 S	
8	14 5	8–12 S	6-10 S	6-10 S	5-8 S	5–8 S	
10	-	6-10 S	6-10 S	5-8 S	5-8 S	5–8 S	
12	=	6-10 S	5–8 S	5-8 S	4–6 K	4–6 K	
15	-	5–8 S	5–8 S	4–6 K	4–6 K	4–6 K	
20	-	-	4–6 K	4–6 K	4–6 K	3–4 K	
30	-	-	-	3–4 K	3–4 K	3–4 K	
50	=	-	-	-	-	3–4 K	
			То	oth system (ZpZ)			
Size of the wall				eter of the profile Dp [mm]		
S [mm]	150	200	300	500	750	1000	
2	10-14 S	10-14 S	8-125	6-10 S	5-8 S	5-8 S	
3	8-125	8–12 S	6-10 S	5–8 S	4-6 K	4–6 K	
4	6-10 S	6-10 S	5–8 S	4-6 K	4–6 K	4-6 K	
5	6-10 S	5-8 S	4–6 K	4-6 K	4-6 K	3-4 K	
6	5-8 S	5-8 S	4–6 K	4-6 K	3-4 K	3-4 K	
8	5–8 S	4–6 K	4–6 K	3-4 K	3-4 K	3-4 K	
10	4–6 K	4–6 K	4–6 K	3-4 K	3-4 K	2-3 K	
12	4–6 K	4–6 K	3–4 K	3–4 K	2-3 K	2-3 K	
15	4–6 K	3–4 K	3-4 K	2-3 K	2-3 K	2-3 K	
20	3–4 K	3–4 K	2–3 K	2-3 K	2–3 K	2-3 K	
30	3–4 K	2–3 K	2–3 K	2–3 K	1,4-2 K	1,4-2 K	
50	2–3 K	2-3 K	2–3 K	1,4-2 K	1,4-2 K	1,4-2 K	
75	-	2-3 K	1,4-2 K	1,4-2 K	1,4–2 K	0,75-1,25 K	
100	-	-	1,4-2 K	0,75-1,25 K	0,75-1,25 K	0,75-1,25 K	
150	=	-	-	0,75-1,25 K	0,75-1,25 K	0,75-1,25 K	
200	-	-	-	0,75-1,25 K	0,75-1,25 K	0,75-1,25 K	
, D			SOLID MATERIA	L (D = mm)		D J	
	<mark>← D</mark>	→	•		•		
					\rightarrow	$\prec\!$	
	Constant tooth	n system			Variable tooth system	ole tooth system	
length of	the cut D	tooth system (ZpZ)	length of the cut	D too	tooth system (ZpZ)	
to 3	mm	32		to 30 mm		10 –14	
	mm	24		20-50 mm		8–12	
to 10) mm	18		25-60 mm		6–10	
to 1:	5 mm	14		35-80 mm		5–8	
15–30 mm		10		50-100 mm		4-6	
30-5	0 mm	8		70–120 mm		4–5	
50-8	0 mm	6		80-150 mm		3–4	
	20 mm	4		120–350 mm		2–3	
	00 mm	3		250-600 mm		1,4-2	
	00 mm	2		500–3000 mm		0,75-1,25	
	00 mm	1,25					
/00-30	000 mm	0,75					



3. Machine control



BOMAR

Ovládání stroje Bedienung der Maschine Machine control

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3.1. Starting the band saw

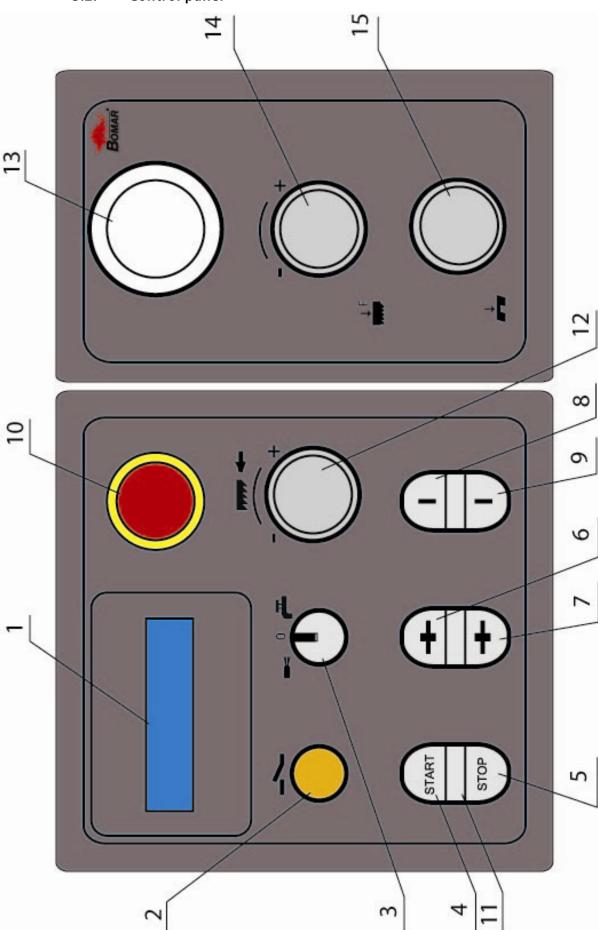
1. Switch on the main switch of the band saw. The main switch is situated on the side of the switchboard.



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



3.2. Control panel





3.3. Control panel – description

1	Display Onto display are described all processes.				
2	Safety circuit switching on Switch on the safety circuit by pressing button.				
	Cooling system selection You can select from three possibilities:				
3	Cooling with Microniser Without cooling				
*******************	្នា Cooling with water				
4	START - Switch on the semi-automatic cycle By pressing 6 and button 4 is starting only the band saw drive. It is stopped with button 5 .				
5	STOP - Switch off the engine of the band saw It stops the engine of the machine. With holding button STOP during the time 2 second is stopped				
	hydraulic engine (if it running). The hydraulic engine is started automatic on switch whatever motion.(Open vice, close, Lift the saw arm, lower) or the cycle is starting with button Start.				
6	Close the vice When this button is pressed, the vice is opened. This button may be used in semi-automatic cycle.				
7	Open vice Vice is opened after pressing this button				
8	Lift the saw arm				
9	TOTAL – STOP button In emergency causes the machine must be immediately switched off.				
10	Tlačítko TOTAL – STOP V nouzových případech uvede stroj okamžitě do klidu.				
11	LED – control lamp blink by cycle				
12	Frequency convertor Turn to change the speed of the saw band.				
13	Cutting pressure manometer				
14	Cutting pressure regulation Adjust the arm pressure to the cut.				
15	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.				



3.4. Machine control

3.4.1. Preparative mode

- 1. Entrance to menu
 - Press button **5+6+7+8+9** together. Hydraulic must be off.
 - Cutting parameters
 - You can select, if you want to stop the saw band drive in upper or lower position of the saw arm, or do not stop the drive.
 - If you strain button 6, the saw band drive will be stopped in the bottom position of the saw arm or *in the top* position.
 - Interrupting the cycle selection
 - Press button 6 to preselect the cycle interrupts.
 - Press button 9 to move to the next menu.
 - Vice parameters (vice opening)
 - Press button 9 to entrance to menu: Vice parameters.
 - By repeated pressing button 6 you select: up ⇒down ⇒not release
 - Press button 9 to move to the next menu
 - Stop time of the hydraulics
 - To set the stop time, press button 6:
 - Press button **9** to move to the next menu
 - Swarf conveyor
 - Swarf conveyor will be automatic stoped and starting with saw band drive.
 - Language version selection
 - By repeated pressing button 6, select the language: Czech ⇒ German ⇒ English
 - Press button **9** to ending **Preparative mode**

3.4.2. Semi-automatic cycle

- 1. Lift the saw arm to the top position by pressing button 8.
- Open the vice by pressing button 7.
- Clamp material to the vice by pressing button 6.

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!

- Lower the frame about 10 mm above the material by button 9.
- Select the max. height of the arm with limit switch. 5.
- Set the saw band speed according to the kind of the cutting material.
- Set the speed of the arm sinking by adjust governing valve 15.



- 8. You can clear the register of the performed cycles by button 5-6 second stop on.
- 9. Press button "4" (START of semi-automatic cycle).

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"!

- 10. The band saw clamps the material to the vice and it makes the cut.
- 11. Open the vice. If the vice is not opened, you can open it by button "7". Remove the blank.
- 12. You can repeat whole process.

3.4.3. Cycle breaking

» • STOP button

Semi-automatic cycle is interrupted by pressing button "5" (STOP of the semi-automatic cycle).

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

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

• TOTAL STOP button

In case of the risk, press button TOTAL STOP "10".

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 "2".
- 3. By pressing button "4" (START 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.

3.5. Band saw adjusting

3.5.1. 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 **5** to switch off the hydraulics **2 second stop on**.
- 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.



Note:

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

Tighten the lever of the gib and check the guide cube setting for possible collision with binding table or vice jaw.

3.5.2. 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 12 to adjust requested speed of the saw band. You can see the speed on display.

Attention!

At least once a week set the saw band speed from the lowest up to the highest speed.

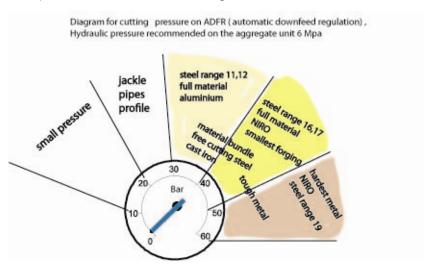
3.5.3. Adjustment of pressure to the cut

The band saw *Extend 700.520* is equipped with cutting pressure regulation on the both guiding cubes.

Pressure adjusting is performed with regulating wheel (position 14 – control panel). The pressure to the cut is displayed on the cutting pressure manometer 13.



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. Přítlak do řezu se nastavuje pomocí regulace 14

3.5.4. Speed adjustment of the arm lowering

Set the speed of the arm lowering to the cut by control valve (position 15 – 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.

3.5.5. Saw frame lift stop setting

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. Press button **8**. Lift the saw arm to the upper position.
- 2. Insert a material into the vice. Carefully lower the saw arm button **9** to the material.(**9+8**-accelerated shift)..
- 3. Stop the saw arm 10mm above the material.
- 4. The lift stop setting is sensed by the limit switch.

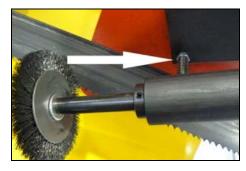
3.5.6. Setting the upper camping

The band saw *Extend 700.520* 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 (see arrow) to switch off the upper clamping.

3.5.7. 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.

Attention!

The screw must not be tightened with heavy force, because driving wheel of the brush can be damaged or the lifetime of the bearings of the driving wheel of the band can be lowered!

3.6. 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 injury!

3.6.1. Handling agent selection

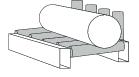
- Use the strong handling agents to lift and transfer the material!
- Handle with the material only with the lift truck or use the suspension strands and the crane!
- Do not use the lift truck or crane in case that you do not have the license to handle with it!

3.6.2. 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!



3.6.3. 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

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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.



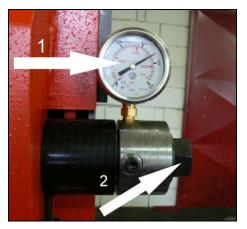
- Install yellow protective cover of the band.
- 6. Move the brush to the saw band. Tighten the securing screw.
- Close the covers of both driving wheels.
- Saw band installation is finished.

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





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.



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

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

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**
- Screw out the stop screw of the limit switch, until the saw band drive is not
- Secure the screw with nut and check limit switch adjustment again.

4.8. Adjustment of the cutting pressure regulation

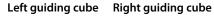
This chapter describes the basic speed setting of arm sinking to the cut for idle run. Saw is equipped with cutting pressure regulation on both guiding cubes. Cutting pressure regulation is set separately on every guiding cube.

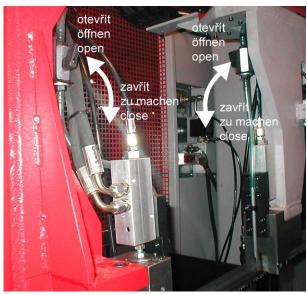
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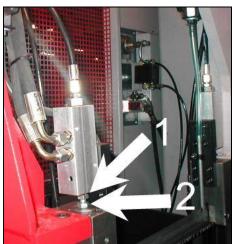


4.8.1. Setting on the right guiding cube

 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

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

4.9. Cooling agents and chips disposal

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

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	Testing Interval Method		Condition	Precaution
Liquid 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	daily	by sense of smell	unpleasant smell	good ventilation, add biocides or renew coolant
Contamination	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*	
Corrosion- protection	when chip test necessary Herbert-test		insufficient corrosion protection	test stability, if necessary – increase concentration or pH value
Stability	Stability when refractometer necessary	oiling	add concentrate, enquiries to supplier	
Foam reaction when necessary 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 700.520	Shell Tivela S 320	3,3
Swarf conveyor	Shell Tivela S 320	0,075 l

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 220 Reductelf SP 100 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:

Type of the lubricant grease
Energrease LS - EP
Paragon EP1
FETT EGL 3144
Beacon EP 1
Beacon EP 2
FINA LICAL M12
Microlube GB0



Manufacturer	Type of the lubricant grease
	Staburags NBU8EP
	Isoflex Spezial
Optimol	Optimol Longtime PD 0, PD1, PD2
Shell Aseol AG	ASEOL Litea EP 806-077
Texaco	Multifak EP1

4.10.3. Lubrication

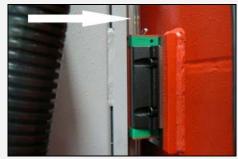
There are several placing on the machine, which are necessary to grease periodically. It secures the right function of the machine.



Lubrication

The guiding cubes leading – grease with oil from

both sides once a week.



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	ÖMV	HLP 46
Bulgaria	MX-M/46	Poland	Hydrol 30



Manufacturer	Туре	Manufacturer	Туре
Castrol	Hyspin AWS 46	Rumania	H 46 EP
Čepro	Mogul HM 46	Russia	IGP 30
DEA	Astron HLP 4hy6	Shell	Tellus Oil 46
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 μm or better) when you fill the oil. You avoid impurities penetration to the hydraulic system and troubles in hydraulic system.

4.10.6. Hydraulic unit service

After 50 hours working time, or the latest 3 month after the first run, the first service should be carried out. This includes:

- checking off all screws and connections, fixing points, tubes and hoses for leakage
- Cheb hydraulic oil level
- During time of duty the oil temperature shouldn't exceed 60-70°C
- check function of signaling components (thermometer, level gauge, dirty filter indicator)
- Check the adjustment of working pressure

To realise a high reliability of the power pack, the manufacturer lays down following inspection intervals

Interval	daily	weekly	monthly	three monthly	six monthly	annually
Hydraulic fluid						
Level	-	•	-	-	-	-
Temperature	-	•	-	-	-	-
Condition	-	-		-	-	-
Change interval	-	-	-	-	-	•
Filter						
Change interval	-	-	-	-	-	-
Other checks						
External Leakages						
Contamination	•	-	-	_	-	-
Damages		-	-	-	-	-
Noise-(level)	•	•	-	-	-	-



Interval	daily	weekly	monthly	three monthly	six monthly	annually
Gauges	•	-	-	-	-	-
	-	-	٠	-	-	-

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.

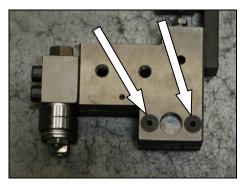
4.12. Worn pieces replacement

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

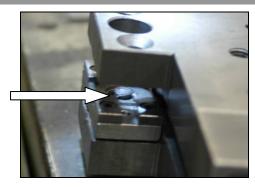


- Dismantle the saw band.
- Disconnect the hose from the cooling agent eventually unmount microniser. 2.
- Unmount guiding cube from holder on saw.

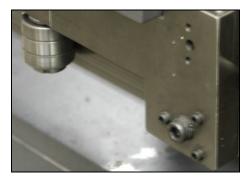


- Loosen the 2 clamp screws solid carbide guides and remove them..
- Remove fixed hardmertal.





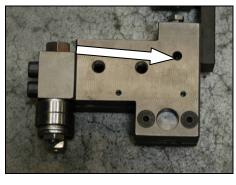
6. Remove retaining ring. Then unmount adjusting screw.



7. Remove other three screws.



8. Carefully remove the hardmetal. Remove disc springs.





9. Loosen the mounting worm (allen wrench no. 3). Remove the pivot with bearing from the guiding cube.





10. Insert the pivot to the vice.

Attention:

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

11. Remove the bearing pivot from the bearing holder by means of the swager.



- 12. Remove the worn bearing and other damaged parts.
- 13. Fasten the holder to the vice.
- 14. Insert the bearing and washers and return the pivot to its original place.
- 15. Place the assembled piston guide cube. Piston must move freely in a guiding cube.
- 16. Worm screw defines the operation of the piston (piston has a slot in which is the worm). Tighten the worm, but with a minimum clearance to the piston could move.



17. Insert the disc springs. The number of disc springs must match the number of dismantled springs. Disc springs are folded against each other 1 to 1 Odd plate spring is near the harmetal carbide.

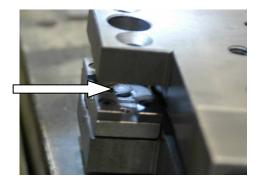
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- 18. Insert the new hard metal guide. *Attention,Do not lose disc springs*. Ensure proper position of carbide guides holes for 3 stop screws must be in the same position as the holes in a guiding cube.
- 19. Insert and tighten central screw.



- 20. Insert the retaining ring on central screw.
- 21. Insert 3 stop screw around central screw.



22. Insert fixed hardmetal guiding and mount hard metal with two screws.





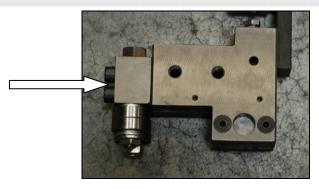
23. Using a short piece of the blade used on the machine, adjust the width of the gap between the guides. Loosen the central screw. Set the gap by central adjusting screw. Belt guides must walk freely without large and will also not scrub.

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



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

Attention:

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



- Tighten the guiding cube to the vice and dismantle both eccentrics with bearings following way.
- Screw off nuts from eccentrics. 3.
- Remove eccentrics from bearings by means of the swager.

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- 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

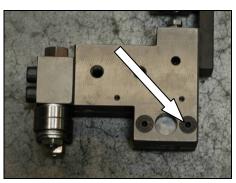
If the hard metal guides cannot be adjusted, they have to be replaced

ATTENTION

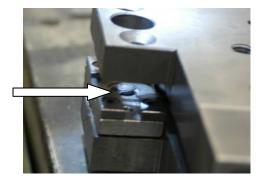
Hard metal guides must be replaced together on both guiding cubes!!



- 1. Dismantle the saw band.
- 2. Disconnect the hose from the cooling agent eventually unmount microniser.
- 3. Unmount guiding cube from holder on saw.



- Loosen the 2 clamp screws solid carbide guides and remove them..
- Remove fixed hardmertal.



Remove retaining ring. Then unmount adjusting screw.



Remove other three screws..

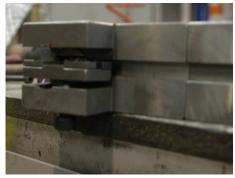


Carefully remove the hardmetal. Pozor, nesmí dojít ke ztrátě talířových pružin.



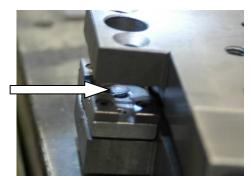


9. The number of disc springs must match the number of dismantled springs. Disc springs are folded against each other 1 to 1 Odd plate spring is near the harmetal carbide.





- 10. Insert the new hard metal guide. *Attention,Do not lose disc springs*. Ensure proper position of carbide guides holes for 3 stop screws must be in the same position as the holes in a guiding cube.
- 11. Insert and tighten central screw.



- 12. Insert the retaining ring on central screw.
- 13. Insert three stop screw around central screw.





14. Insert fixed hardmetal guiding and mount hard metal with two screws.



15. Using a short piece of the blade used on the machine, adjust the width of the gap between the guides. Loosen the central screw. Set the gap by central adjusting screw. Belt guides must walk freely without large and will also not scrub.

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.



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



Závady / Troubleshooting



Mechanical problems 5.1.

Describers Describers Describers						
	Problem		Possible causes	Repair		
		Ŀ	Wrongly adjusted hard metal guides.	Set according to the chapter "Servicing and adjustment"		
		-	Worn hard metal guides.	Replace to the chapter "Worn pieces replacement"		
		-	Wrongly adjusted cubes of the saw 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"		
4.	Slanting cut	-	Insufficient saw band stretching.	Rise the saw band stretching and set the limit switch.		
	Sammy car	-	Wrongly chosen tooth system of the saw band.	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 conveyor.	Set the roller conveyor.		
		-	Dirty feeding board.	Cleanse the feeding board from debris, chip and residue material.		
		-	Guiding arm and guiding cube are loosened.	Clamp the guiding arm.		
		-	Guiding arm and cube are too far from the material.	Set the guiding cube to the material.		
		-	Too fast cutting rate.	Lower the material feeding speed.		
		-	Unexpected oscillation in material quality.	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".		
5.	The cut is not cut	-	Set angle does not match the cut 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.	Stretch the saw band and set the limit switch according to chapter "Servicing and adjustment".		
		-	Guiding arm and guiding cube are loosened.	Fasten the guiding arm and the cube.		
		-	Dirt between material and clamping jaw.	Cleanse the material and mating jaw.		
		-	Insufficient saw band stretching.	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"		
6.	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 guides.	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 saw 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"		



			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.
7.	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.
8.	The cut is not finished.	-	Wrongly adjusted lower stop point of the saw frame.	Check lower limit switch and screw.
		-	Stop point surface is messed-up.	Cleanse stop point surface of the limit switch from debris and residue material.
9.	9. 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.
		-	Metal clams are in body of valve.	Valve must be cleared or changed.
10.	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.
11.	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.
12.	Damage tooth system of the saw band	-	In gripping the lifting cylinder is backlash.	
	of the saw band		Squeezed pin upper or downer holder of the lifting cylinder.	Exchange complete upper or downer holder of lifting cylinder.
13.	13. The saw is cut downing.		Geometry of hardmetal guiding cubes is wrong adjusted.	Hardmetal guiding cubes must be adjusted.
		-	Bearings of guiding cubes are used.	Bearings of guiding cubes must be replaced.
14.	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.
15.	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 problems

	Problem		Possible causes	Repair
16.	Machine is not possible start.	-	In socket is not voltage	Line voltage must be checked.
		-	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.
	When cut is finished, the frame is not raising.	-	Bottom limit switch is adjusted wrong.	Bottom limit switch must be adjusted according to chapter ADJUSTING.
		-	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.
18.	Electric motor and pump are without voltage. Between contactor and thermal protector is not voltage.	-	Wrong contactor.	Replace contactor of engine.
19.	 The indicator of speed saw band is not functional. 	-	Sensor of speed is not adjusted.	Sensor of speed must be adjusted.
		-	Defective display	The display must be changed.
		-	Wrong sensor – diode of indicator speed is not light.	Sensor must be changed and adjusted.
20.	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.
21.	The hydraulic aggregate cannot be started		Auxiliary contact on thermo-relay FA1 is defective.	Replace the defective contact on motor starter FA1.
22.	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.
23.	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.

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5.3. Hydraulic problems

supplying oil Reconnect properly connection of the electrical phases. shortage of oil in the tank Oil viscosity does not correspond prescribed viscosity value Hydrogenerator malfunction Call service Wrong power supply connection. Check the connections of each phase		Problem		Possible causes	Repair
Oil viscosity does not correspond prescribed viscosity value	24.		•	reverse rotation	Check the connections of each phase. Reconnect properly connection of the electrical phases.
prescribed viscosity value - Hydrogenerator malfunction - Wrong power supply connection. Call service - Wrong power supply connection. Check the connections of each phase Reconnect properly connection of the electrical phases. Phydraulic oil contains bubbles - Low oil level - the pump shaft seals damaged - call service - damaged joint drive - damaged or destroyed motor bearings - air intake Check for leaks. Call service - damaged or destroyed motor bearings - air intake Check for leaks. Pump supplies oil - pump wear - call service - pump wear - call service - wrong settings. Check the settings and adjust the safety valve pump wear - call service - damage by solid particles in oil - wrong type of oil - wrong type of oil - wrong type of oil - exceeding the life of the pump Call service - check the cooler function or call service wear the pump, the energy is converted - interrupted supply lines - interrupted supply lines - Electromagnet coil burnt - Replace coil – Call service.			•	shortage of oil in the tank	Add hydraulic oil
Wrong power supply connection. Check the connections of each phase Reconnect properly connection of the electrical phases.			•		Change hydraulic oil.
Reconnect properly connection of the electrical phases. 25. Hydraulic oil contains bubbles - Low oil level			•	Hydrogenerator malfunction	Call service
contains bubbles deaerated			•	Wrong power supply connection.	Check the connections of each phase. Reconnect properly connection of the electrical phases.
the pump shaft seals damaged	25.		ł		Make deaeration of hydraulic circuit.
26. Increased mechanical noise - damaged joint drive - damaged or destroyed motor bearings - air intake 27. Low pressure, pump supplies oil - pump wear - pump wear - call service - weternal or internal leakage 28. Hydrogenerator is seized - non-prescribed oil - wrong type of oil - wrong type of oil - exceeding the life of the pump 29. Overheating oil - wear the pump, the energy is converted into heat - electromagnet has no signal (voltage) - interrupted supply lines - Electromagnet coil burnt Replace coil – Call service			•	Low oil level	Add hydraulic oil
mechanical noise damaged or destroyed motor bearings			•	the pump shaft seals damaged	Call service
- damaged or destroyed motor bearings	26.		•	damaged joint drive	Call service
27. Low pressure, pump supplies oil - problem in the safety valve - pump wear - call service - call service - damage by solid particles in oil - mon-prescribed oil - wrong type of oil - wrong type of oil - exceeding the life of the pump - call service 29. Overheating oil - wear the pump, the energy is converted into heat - wear the pump, the energy is converted into heat - electromagnet has no signal (voltage) - interrupted supply lines - Electromagnet coil burnt - Replace coil – Call service.			•	damaged or destroyed motor bearings	Call service
pump supplies oil pump wear call service texternal or internal leakage call service damage by solid particles in oil serized hon-prescribed oil wrong type of oil change hydraulic oil. wrong type of oil call service call service Change hydraulic oil. call service call service Change hydraulic oil. call service cooler malfunction check the cooler function or call service. wear the pump, the energy is converted into heat call service call service Check again. Check again. Check again. Check again.			•	air intake	Check for leaks.
external or internal leakage damage by solid particles in oil Make oil filtration, or call the service. damage by solid particles in oil Make oil filtration, or call the service. non-prescribed oil Change hydraulic oil. wrong type of oil Change hydraulic oil. exceeding the life of the pump Call service 29. Overheating oil wear the pump, the energy is converted into heat wear the pump, the energy is converted into heat - electromagnet has no signal (voltage) - interrupted supply lines Electromagnet coil burnt - Replace coil – Call service.	27.		·	problem in the safety valve	
28. Hydrogenerator is seized • damage by solid particles in oil Make oil filtration, or call the service. • non-prescribed oil Change hydraulic oil. • wrong type of oil Change hydraulic oil. • exceeding the life of the pump Call service 29. Overheating oil • cooler malfunction Check the cooler function or call service. • wear the pump, the energy is converted into heat 30. Hydraulic valve can not be readjusted • Electromagnet has no signal (voltage) - interrupted supply lines • Electromagnet coil burnt Replace coil – Call service.			•	pump wear	Call service
seized non-prescribed oil wrong type of oil change hydraulic oil. Change hydraulic oil.			•	external or internal leakage	Call service
 non-prescribed oil wrong type of oil change hydraulic oil. wrong type of oil exceeding the life of the pump Call service Check the cooler function or call service. wear the pump, the energy is converted into heat electromagnet has no signal (voltage) - interrupted supply lines Electromagnet coil burnt Replace coil – Call service. 	28.		٠	damage by solid particles in oil	Make oil filtration, or call the service.
exceeding the life of the pump Call service cooler malfunction check the cooler function or call service. wear the pump, the energy is converted into heat electromagnet has no signal (voltage) - interrupted supply lines Electromagnet coil burnt Replace coil – Call service.			•	non-prescribed oil	Change hydraulic oil.
29. Overheating oil • cooler malfunction • wear the pump, the energy is converted into heat • electromagnet has no signal (voltage) - interrupted supply lines • Electromagnet coil burnt • Electromagnet coil burnt • Replace coil – Call service.			•	wrong type of oil	Change hydraulic oil.
service. • wear the pump, the energy is converted into heat • electromagnet has no signal (voltage) - interrupted supply lines • Electromagnet coil burnt • Replace coil – Call service.			•	exceeding the life of the pump	Call service
 30. Hydraulic valve can not be readjusted electromagnet has no signal (voltage) - interrupted supply lines Electromagnet coil burnt Replace coil – Call service. 	29.	Overheating oil	·	cooler malfunction	
not be readjusted interrupted supply lines • Electromagnet coil burnt Replace coil – Call service.			•		Call service
	30.		٠		Check again.
• spool valve sticking Replace valve – Call service			•	Electromagnet coil burnt	Replace coil – Call service.
			٠	spool valve sticking	Replace valve – Call service

Schémata Schemas Schematics

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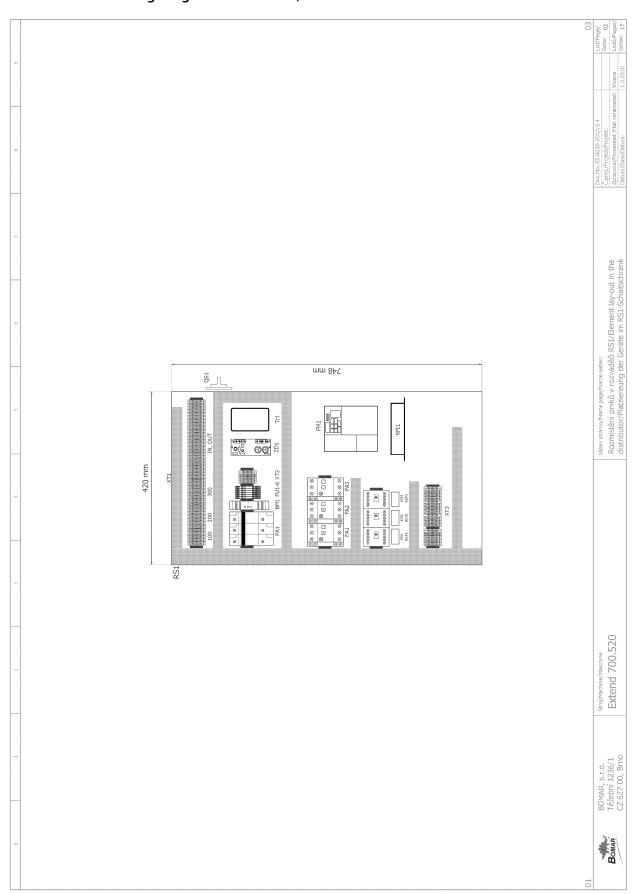
Manual version: 1.05 / Feb. 2010 Manual rev.: 1

6. Schémata /
Schemas /
Schematics

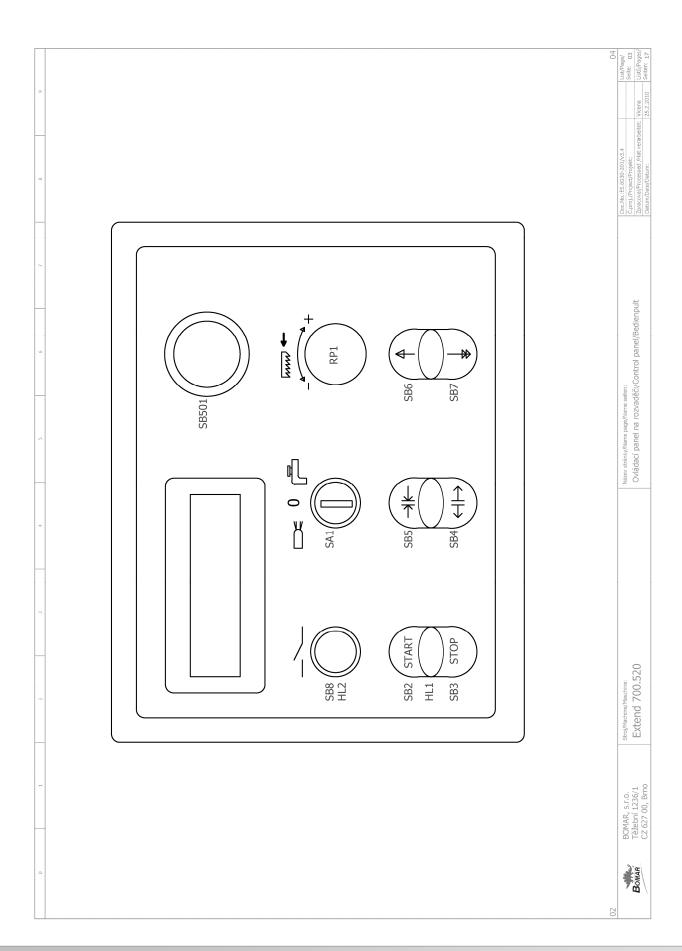




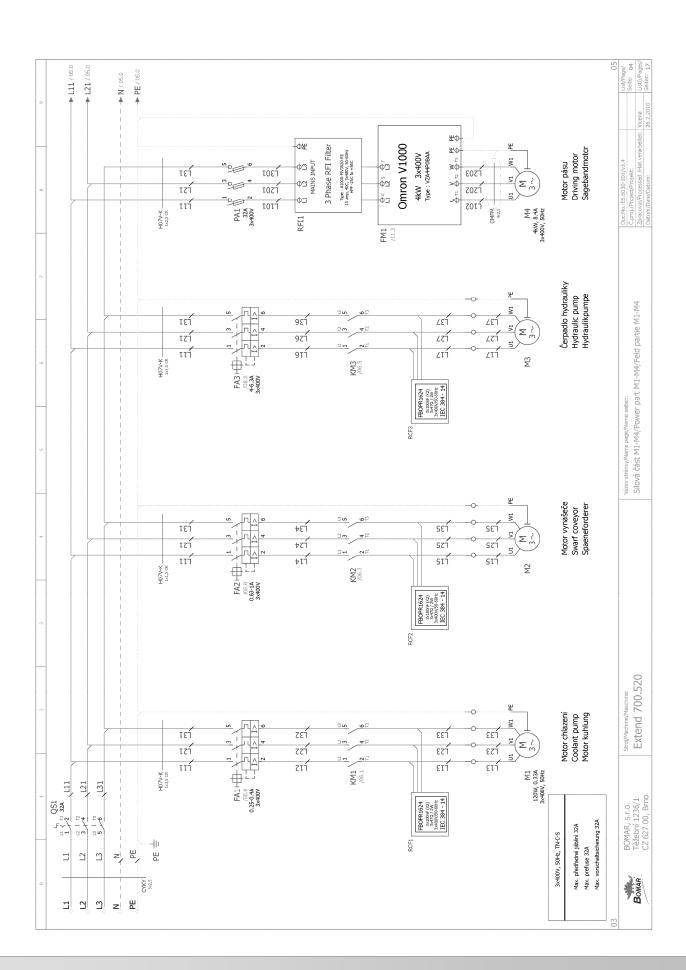
6.1. Elektrické schema / Elektroschema / Wiring diagrams – 3×400 V, TN-C-S



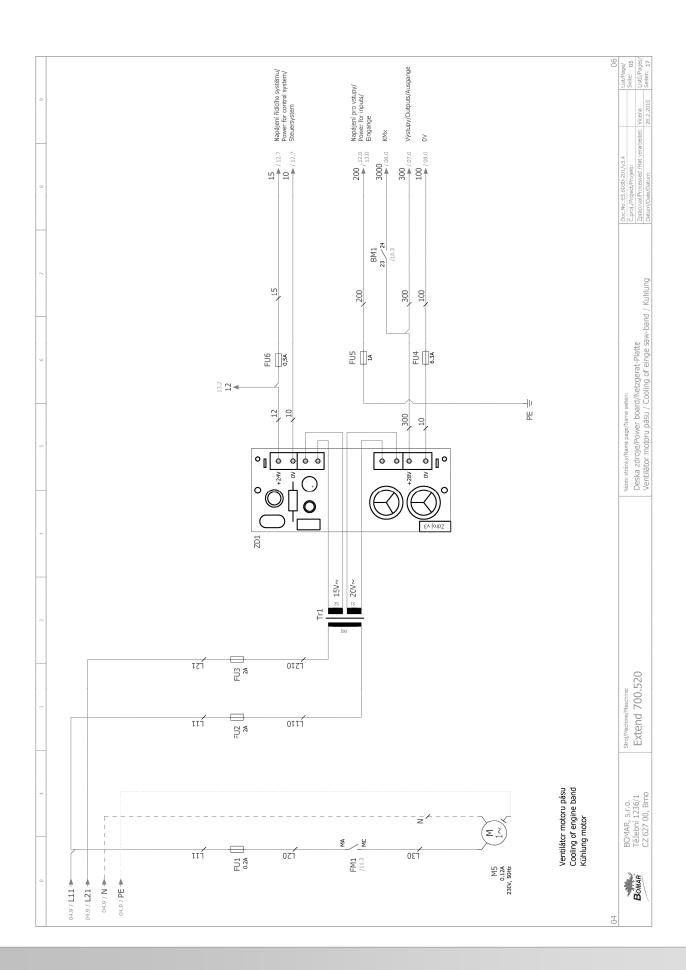




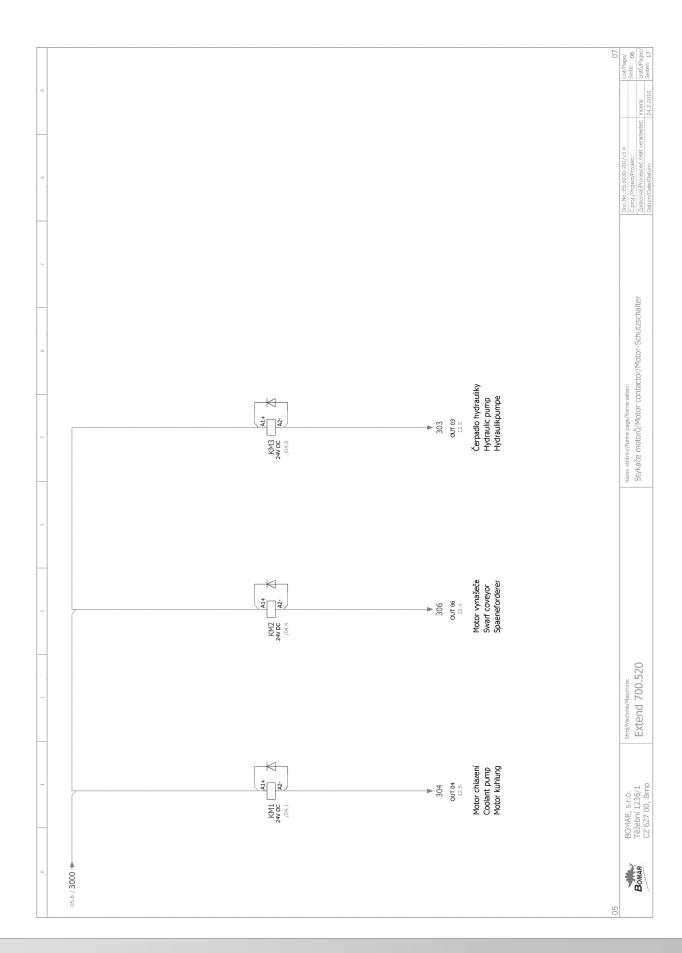




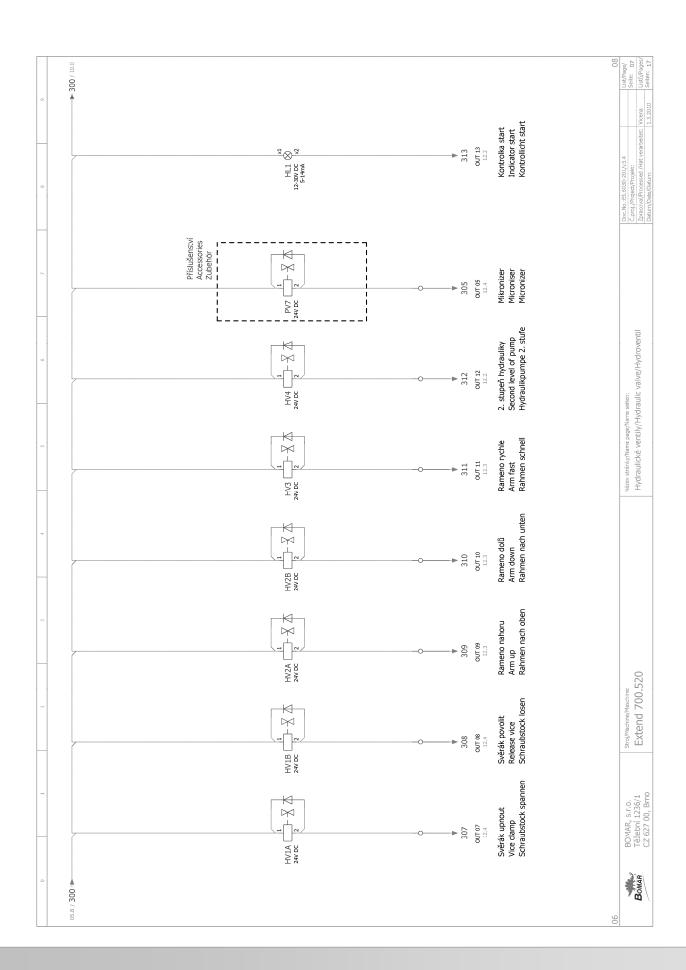




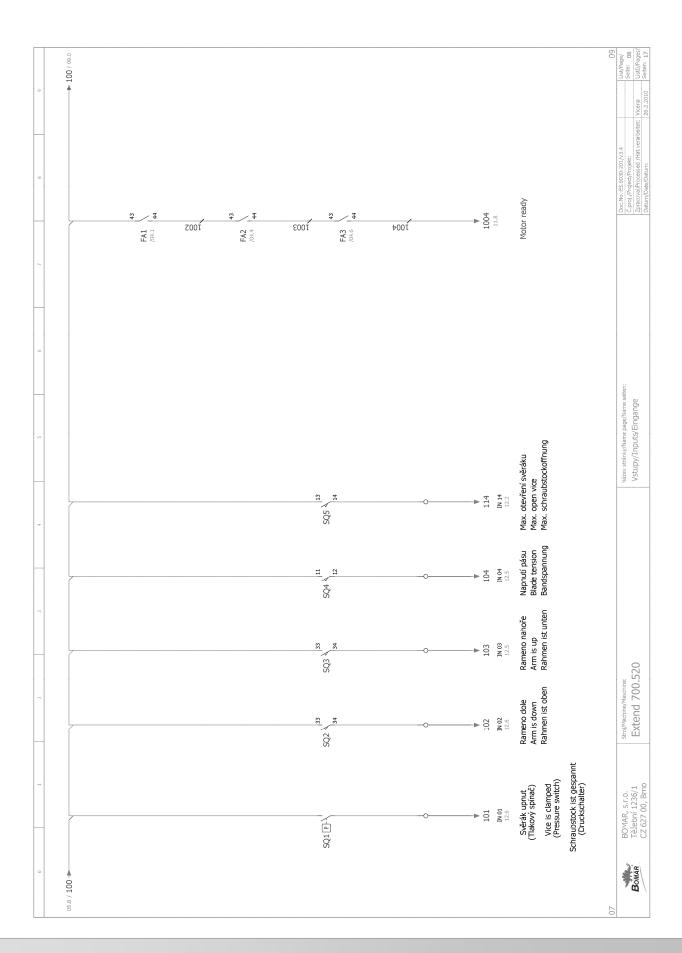




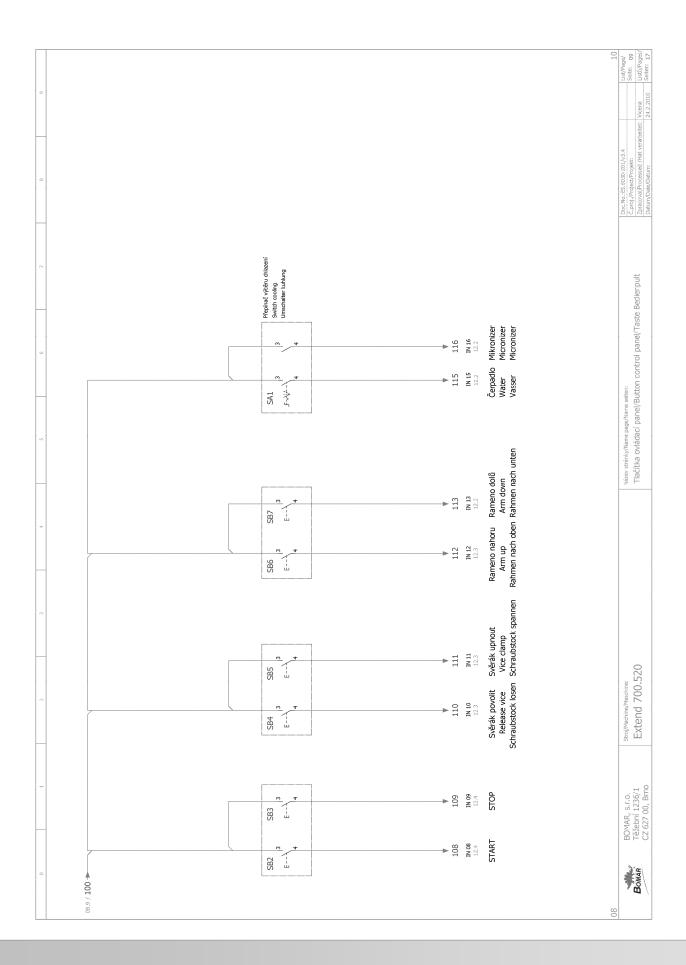




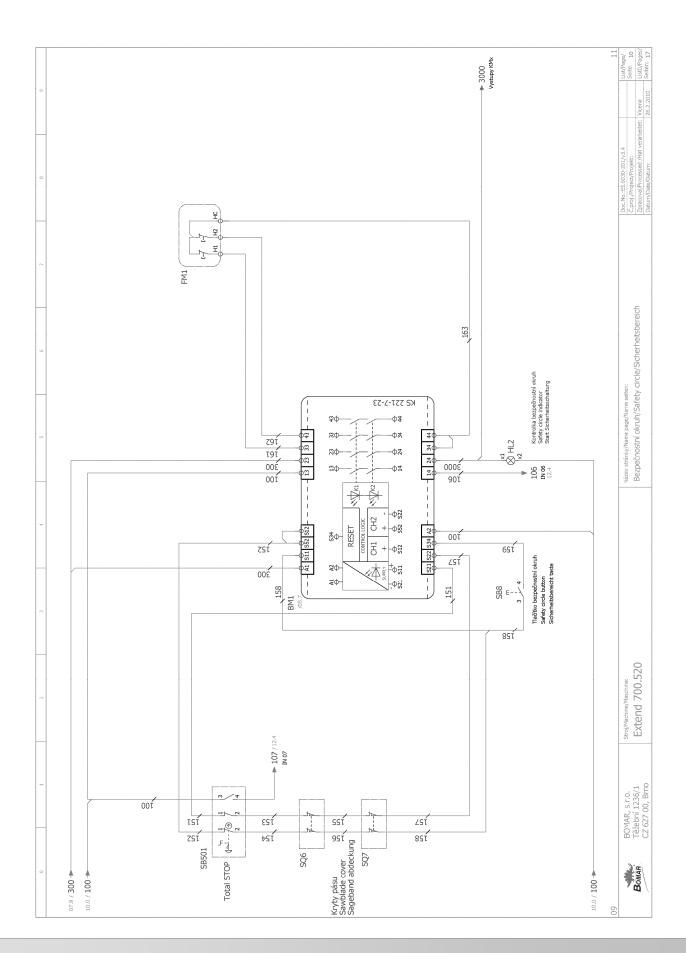




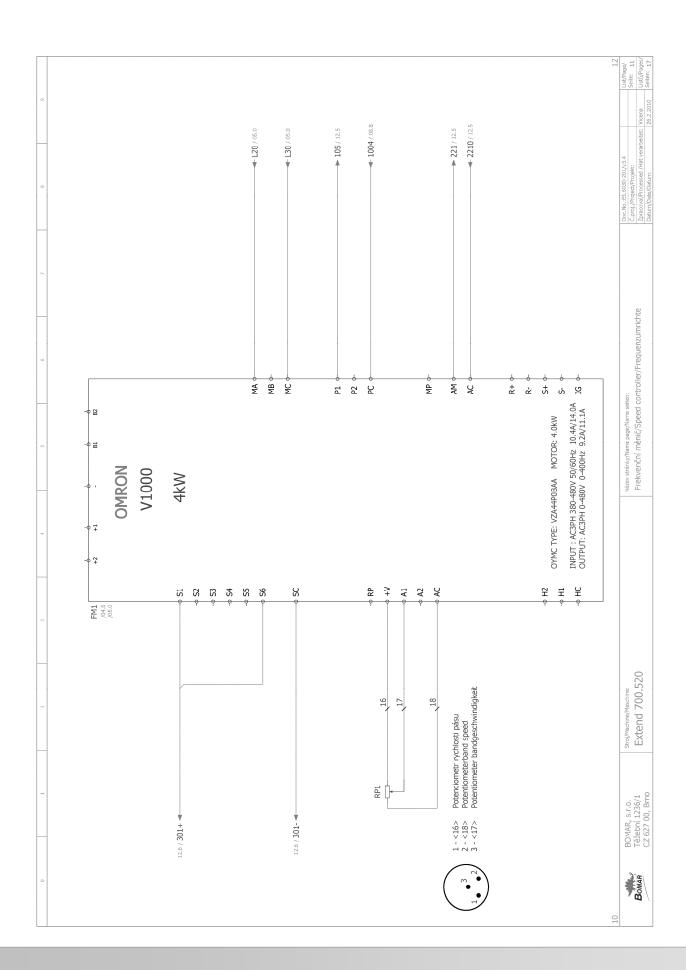




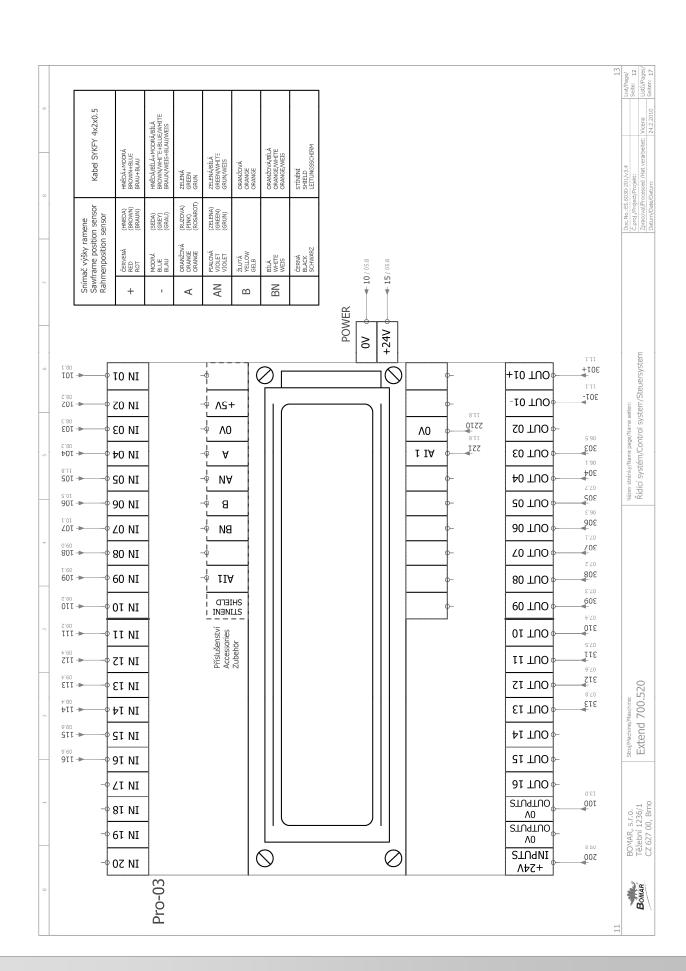




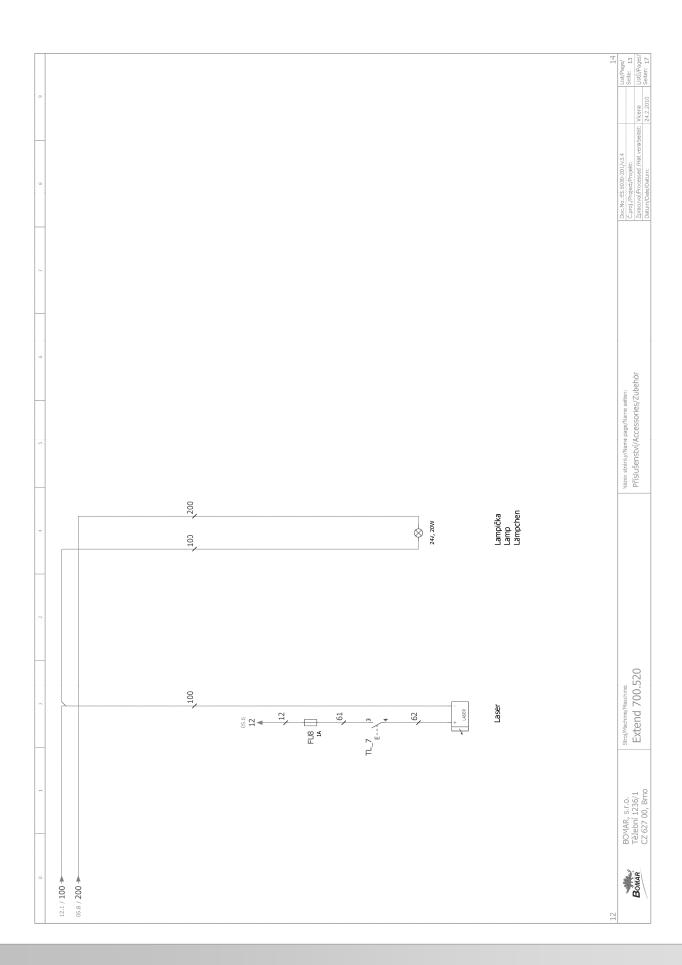














Schémata Schemas Schematics

BOMAR

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

Extend 700.520

Název stránky/Name page/Name selten: I/O řídící systém / I/O Control station / I/O Steuerung

OUT 09

OUT 10

OUT 11

OUT 12

OUT 13 OUT 14 OUT 15

Rameno nahoru

Rameno dolů

NC

NC

NC

Rameno rychle

2. stupeň hydrauliky

Kontrolka start tlačítko

J/Project/Projekt:
oval/Processed /Hat verarbeitet: Vicena
n/Date/Datum:
25.2.2010

Extend 700.520

HW

FW

Rahmen oben

Rahmen unten

NC

NC

NC

Hydraulikpumpe 2. stufe

Kontrollicht start taste

PLC

OUT 01
OUT 02
OUT 03
OUT 04
OUT 06
OUT 07
OUT 08
OUT 10
OUT 11
OUT 12
OUT 13 000000000000000

Pohled ze spodu/From under view/Blick nach

Pohled ze spoo	lu/From under view/Blick nach		
I/O	CZE	ENG	DE
IN 01	Svěrák upnut	Vice is clamped	Schraubstock ist gespannt
IN 02	Rameno dole	Arm is down	Rahmen ist oben
IN 03	Rameno nahoře	Arm is up	Rahmen ist unten
IN 04	Napnutí pásu	Blade tension	Bandspannung
IN 05	Motory ready	Motor ready	Motor vorbereitet
IN 06	Bezpečnostní okruh uzavřen	Safety circle shut down	Sicherheitsschaltung gesperrt
IN 07	Tlačitko Total stop	Button Total stop	Taste Total stop
IN 08	Tlačítko START	Button START	Taste START
IN 09	Tlačítko STOP	Button STOP	Taste STOP
IN 10	Tlačítko svěrák povolit	Button vice relase	Taste schraubstock losen
IN 11	Tlačítko svěrák upnout	Button vice clamp	Taste schraubstock spannen
IN 12	Tlačítko rameno nahoru	Button arm up	Taste rahmen oben
IN 13	Tlačítko rameno dolů	Button arm down	Taste rahmen unten
IN 14	Max. otevření svěráku	Max. open vice	Max. offen schraubstock
IN 15	Přepínač chlazení voda	Switch water pump	Umschalter wasser pumpe
IN 16	Přepínač mikronizér	Switch micronizer	Umschalter micronizer
IN 17	NC	NC	NC
IN 18	NC	NC	NC
IN 19	NC	NC	NC
IN 20	NC	NC	NC
OUT 01+	Motor pásu start	Start band motor	Start motor band
OUT 01-	Plotoi pasa start	Start Band Motor	Start Motor Band
OUT 02	NC	NC	NC
OUT 03	Čerpadlo hydrauliky - stykač	Hydraulic pump - contactor	Hydraulik pumpe - ständerschütz
OUT 04	Motor chlazení - stykač	Coolant pump - contactor	Motor kuhlung - ständerschütz
OUT 05	Mikronizér	Micronizer	Micronizer
OUT 06	Motor vynašeče - stykač	Swarfcoveyor - contactor	Spaneforderer - ständerschütz
OUT 07	Svěrák upnout	Vice clamp	Schraubstock spannen
OUT 08	Svěrák povolit	Relase vice	Schraubstock losen
OUT OO			

Arm up

Arm fast

NC

NC

NC

Arm down

Second level od pump

Indicator start button

Seite: Listů/F



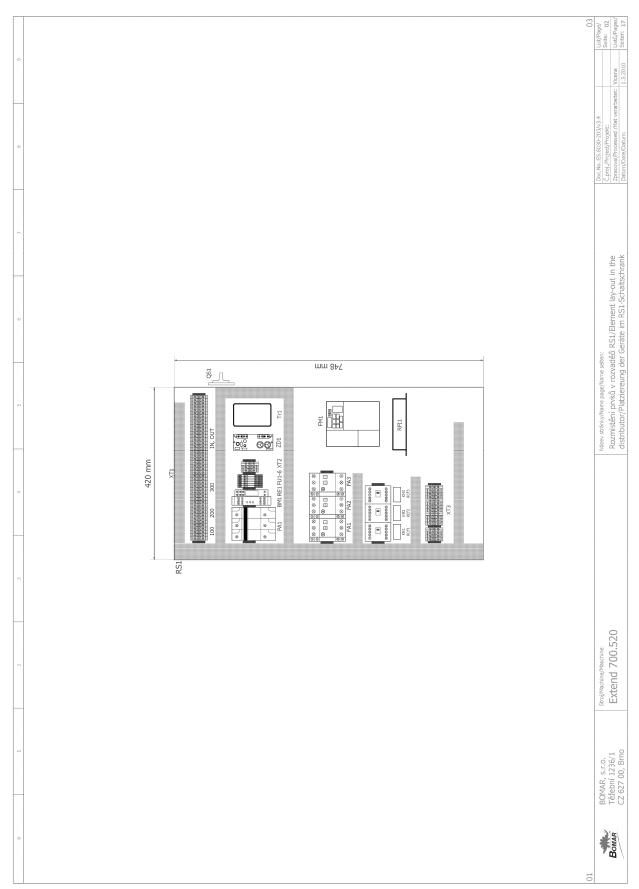
Pyp pristruje Bezp. Koncovy spinac Bezpečnostní modul Dioda 1A Dvojtlačítko NAHORU/DOLŮ Dvojtlačítko START/STOP			SNIGHOVE CISIO	1711025[7]
Bezp. Koncovy spinac Bezpečnostní modul Dioda 1A Dvojtlačítko NAHORU/DOLŮ Dvojtlačítko START/STOP	كالمات العامل ا	V 1		
Bezpečnostní modul Dioda 1A Dvojtlačítko NAHORU/DOLŮ Dvojtlačítko START/STOP	QKS8		IFS	2
Dioda 1.A Dvojtlačítko NAHORU/DOLŮ Dvojtlačítko START/STOP	SNA4064K	WIELAND	91.051.026	 1
Dvojtlačítko NAHORU/DOLŮ Dvojtlačítko START/STOP	IN4007		91.280.004	7
Dvojtlačítko START/STOP	M22-DDL-W-S*_	MOELLER	91.060.054	
reconnection of the term of	M22-DDL-W-S-	MOELLER	91.060.034	
Dvojtiacitko sverak POVOLIT/UPNOUT	M22-DDL-W-S*	MOELLER	91.060.055	**************************************
Filtr k frekvenčnímu měničí 4kW	A1000-FIV3020-RE	OMKON	91.012.022	***
Filtr RFC vyvodovy	FBOPR1624		91.041.015	3
Frekvenční měnič 4kW	VZA44P0BAA	OMKON	91.012.021	
HL.VYPINAC 32A	VCF1-32A	TELEMECANIQUE	91.170.012	-
Hlavice 2 polohového přepínače	M22-WKV	MOELLER	91,060,037	
Hlavice 3 polohového přepínače	M22-WRK3	MOELLER	91.060.051	, 1
Hlavice hřibového ovládače do krabičky	M22-PVT 263467	MOELLER	91.060.030	₹-3
hlavice prosvetleneho tlacitka	M22-DL-Y	MOELLER	91.060.053	
Koncový spínač	D4N-4A31	OMRON	91.173.007	2
Koncový spínač	D4N-4A62	OMRON	IFS	
Lampička 12V, 20W	LBP-B-302	RNDR Zdeněk Martinásek	91,100,103	, !
Laser	Laser		91.100.105	
Motorový jistič 0,250,4A	GZ1M03	TELEMECANIQUE	91.235.022	
Motorový jistič 0,631A	GZ1M05	TELEMECANIQUE	91.235.023	
Motorový jistič 46,3A	GZIM10	TELEMECANIQUE	91.235.026	
Pcjistka trubičková 0.2A, 5x20	F0,2A/250V	ESKA	91,230.037	
Pcjistka trubičková 0.5A, 5x20 pomalá	F0,5A/250V	ESKA	91.230.011	
Pcjistka trubičková 1A, 5x20 pomalá	F1A/250V	ESKA	91.230.003	2
Pojistka trubičková 2A, 5x20	F2A/250V	ESKA	91.230.001	2
Pojistka trubičková 6.3A, 5x20 pomalá	F6,3A/250V	ESKA	91.230.002	₽-1
Pojistka válcová 32A	PV10 32A gG	OEZ	91.230.019	3
Pojistkový odpínač pro válcové vložky vel. 10	OPV10/3	OEZ	91.241.002	,I
		Nážev stránkvíName bade/Name selten:	Doc.No.:ES.60	30-201/v3.4
Bomar Težební 1236/1 Extend	Extend 700,520	Southrny kusovník	Cproj./Project Zpracoval/Proc	C.proj./Project/Projekt: Zpracoval/Processed /Hat verarbeitet: Vicena



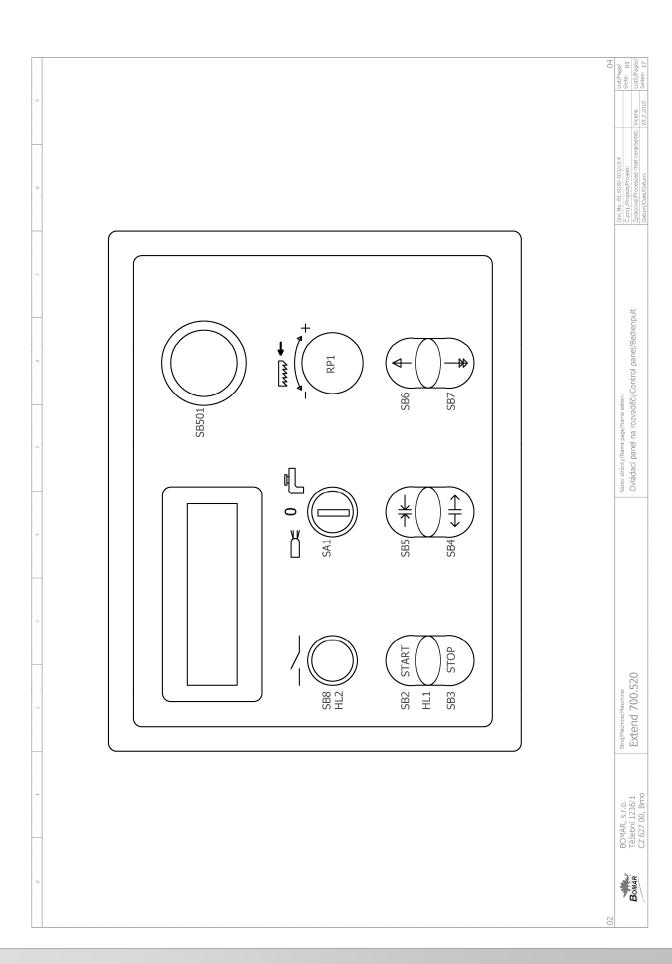
KUSOVníK artiklů 9 9 7 9 KUSOVníK artiklů Objednací číslo Výrobce Skladové číslo 7 8 MSZ-MIL TELMICAMUDE 91,251,102 91,251,202 91,251,202 91,251,202 91,251,202 91,251,202							
Objednací Číslo Wýrobce Skladové Číslo WK4/THSISU WIELAND 91.251.102 GZ1AN11 TELEMECANIQUE 91.046.004 TP195 4K7-N20A TES-Ostrava 91.046.004 TP195 4K7-N20A TES-Ostrava 91.061.025 M22-K01 MOELLER 91.061.024 Ridici system Pro_03 MOELLER 91.061.034 M22-LED-W MOELLER 91.061.033 M22-LED-G MOELLER 91.061.033 M22-KC10 MOELLER 91.061.033 M22-KG10 MOELLER 91.061.030 M22-KG10 MOELLER 91.061.021 M22-KG10 MOELLER 91.061.031 M22-KG10 MOELLER 91.061.030 M22-KG10 MOELLER 91.061.020 Svorka rychloupinaci ELEKTRO-KARBAN s.r.o. 91.040.00 Skaldy VAR Scholaria 91.040.00 RAHLZ78B1-C KFAN 91.061.031 AND SARIA Scholaria 91.061.031 AND SARIA Scholaria 91.061.031 </td <td>0 1</td> <td>2</td> <td></td> <td></td> <td>7</td> <td>8</td> <td>6</td>	0 1	2			7	8	6
iştroje Objednaci čislo Výrobce Skladové čislo ve pouzdro wk4/THSSU WEAND 91.251.102 vy kontakt GZ1AN11 TELEMECANIQUE 91.251.102 vy kontakt GZ1AN11 TELEMECANIQUE 91.046.004 prijodrouža MZ2-KC01 MOELIER 91.046.002 prijodrouža MZ2-KC01 MOELIER 91.061.024 prijodrouža MZ2-KC01 MOELIER 91.061.024 prijodrouža MOELIER 91.061.024 prijodrouža MOELIER 91.061.024 prijodrouža MOELIER 91.061.023 prijodrouža MOELIER 91.061.023 prijodrouža MOELIER 91.061.023 prijodrouža Svorka rychloupinaci MOELIER 91.061.020 prijodrouža Svorka rychloupinaci MOELIER 91.061.020 prijodrouža Svorka rychloupinaci Svorka rychloupinaci Svorka rychloupinaci SVORKA RYCHARBAN S.r.O. 91.081.030 prijodrouža Srovka rychloupinaci SVORKA RYCHARBAN S.r.O.	Souhrnný kusovník a	artiklo					
re pouzdin WK4/TH55U WIELAND ny kontakt GZ1AN11 TELEMECANIQUE onebr 4k7 TP195 4k7-N20A TES-Ostrava sci jednotka M22-KC01 M0ELLER sci jednotka na adaptér M22-KC01 M0ELLER sci jednotka na adaptér Ridici system Pro_03 M0ELLER a zelená na adaptér M22-LED-G M0ELLER jednotka M22-LED-G M0ELLER jednotka Saz-LED-G M0ELLER jednotka s adaptérem M22-KC10 M0ELLER jednotka s adaptérem D1L EM-10-G M0ELLER jednotka s adaptérem Svorka rychloupínaci W1E-AND stri 10-5,08 Stri 10-5,08 Stri 10-5,08 si transformátor Srozka rychloupínaci W1E-AND stri 10-5,08 Stri 10-5,08 ELEKTRO-KARBAN s.r.o. stri 10-5,08 Stri 10-5,08 ELEKTRO-KARBAN s.r.o. stri 10-5,08 Stri 10-5,08 BOWAR s.r.o.	Typ přístroje		Objednací číslo	Výrobce	Skladové číslo	Množství	
ny kontakt GZ1AN11 TELEMECANIQUE ometr 4k7 TP195 4k7-N20A TELEMECANIQUE aci jednotka M22-KC01 M0ELLER aci jednotka na adaptér Ridici system Pro_03 BOWAR s.r.o. a bila M22-LED-W M0ELLER a zelená na adaptér M22-LED-G M0ELLER jednotka M22-LED-G M0ELLER jednotka sadaptérem M22-KC10 M0ELLER jednotka sadaptérem M0ELLER M0ELLER jedno	Pejistove pouzdro		WK4/THSi5U	WIELAND	91,251,102	La Caracteria de la Caracteria de Caracteria	
ometr 4k7 TP105 4k7-N20A TES-Ostrava aci jednotka M22-KC01 M0ELLER aci jednotka na adaptér Ridici system Pro_03 M0ELLER ystém Pro_03 Ridici system Pro_03 M0ELLER m M22-LED-W M0ELLER pédnotka M22-LED-G M0ELLER jednotka s adaptérem M22-KC10 M0ELLER jednotka s adaptérem M22-KC10 M0ELLER profloupinaci M0ELLER M0ELLER ychloupinaci Svorka rychloupinaci M0ELLER syl 10-5,08 SH 10-5,08 EURCAMP si 10-5,08 SH 10-5,08 EURTRO-KARBAN s.r.o. sor chlazení 230V, 50Hz, 0.12A RAH1278B1-C XFAN sor chlazení 230V, 50Hz, 0.12A RAH1278B1-C M0ELLER	pomocny kontakt		GZ1AN11	TELEMECANIQUE	91.046.004	9	
sci jednotka M22-K01 M0ELLER sci jednotka na adaptér Ridici system Pro_03 M0ELLER ystém Pro_03 Ridici system Pro_03 BOWAR s.r.o. a bila M22-LED-W M0ELLER jednotka M22-LED-G M0ELLER jednotka s adaptérem M22-K10 M0ELLER jednotka s adaptérem M22-K10 M0ELLER jednotka s adaptérem M22-K10 M0ELLER jednotka s adaptérem M12-K10 M0ELLER jednotka s adaptérem M0ELLER M0ELLER jednotka s adaptérem M12-K10 M0ELLER jednotka s adaptérem M0ELLER M0ELLER	Potenciometr 4k7		TP195 4k7-N20A	TES-Ostrava	91,283,002	4	
sci jednotka na adaptér M22-K01 MOELLER ystém Pro_03 Ridici system Pro_03 BOWAR s.r.o. a bila M22-LED-W MOELLER jednotka MOELLER MOELLER jednotka s adaptérem M22-K10 MOELLER jednotka s adaptérem M22-K10 MOELLER rychloupínací MOELLER MOELLER syorka rychloupínací VIELAND MIELAND SH 10-5,08 Syorka rychloupínací WIELAND si transformátor Statos ELEKTRO-KARBAN s.r.o. sor chlazení 230V, 50Hz, 0.12A RAH1278B1-C XFAN Ann servicou Arban Arban Ann servicou Arban Arban	Rozpínací jednotka		M22-KC01	MOELLER	91.061.025		# 1
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a blia M22-LED-W MOELLER a zelená na adaptér M22-LED-G MOELLER jednotka s MOELLER MOELLER jednotka s adaptérem M22-K10 MOELLER pychloupinací MOELLER MOELLER rychloupinací Svorka rychloupinaci WIELAND SH 10-5,08 SH 10-5,08 EUROCLAMP sor chlazení 230V, 50Hz, 0.12A RAH1Z78B1-C XFAN Ann scro Zdroj v3 BOPVAR s.r.o.	Řídící systém Pro_03		Ridici system Pro_03	BOMAR s.r.o.	265.911	2	
jednotka MOELLER jednotka s adaptérem M22-KC10 MOELLER jednotka s adaptérem M22-K10 MOELLER jednotka s adaptérem MOELLER MOELLER rychloupínací Svorka rychloupínací WIELAND SH 10-5,08 SH 10-5,08 EUROCLAMP Stor chlazení 230V, 50Hz, 0.12A RAH1Z78B1-C XFAN Zdroj v3 SADVAR s.r.o. Ann s.r.o.	signalka bila		M22-LED-W	MOELLER	91.061.034		
jednotka MOELLER jednotka s adaptérem MOELLER jednotka s adaptérem MOELLER DIL EM-10-G MOELLER rychloupínací WOELLER SH 10-5,08 SVONPA rychloupínací SH 10-5,08 SH 10-5,08 EUROCLAMP EUROCLAMP stor chlazení 230V, 50Hz, 0.12A RAH1278B1-C Zdroj v3 Zdroj v3 AMD 45 BOPVAR 5.r.O.	Signálka zelená na adaptér		M22-LED-G	MOELLER	91.061.023	v	
jednotka s adaptérem M22-K10 MOELLER rychloupínací DIL EM-10-G MOELLER SH 10-5,08 SVONKA rychloupínaci WIEJAND SH 10-5,08 SH 10-5,08 EUROCLAMP siór transformátor 1502304002015 ELEKTRO-KARBAN s.r.o. tor chlazení 230V, 50Hz, 0.12A RAH1Z78B1-C XFAN Zdroj v3 ADPAR s.r.o. ADPAR s.r.o.	Spínací jednotka		M22-KC10	MOELLER	91.061.030	īυ	
rychloupinací MOELLER Strioupinací WIELAND Strioupinací WIELAND SH 10-5,08 EUROCLAMP ní transformátor 1502304002015 ELEKTRO-KARBAN s.r.o. sor chlazení 230V, 50Hz, 0.12A RAH1Z78B1-C XFAN Zdroj v3 BOPVAR s.r.o.	Spínací jednotka s adaptérem		M22-K10	MOELLER	91.061.021	9	
cf Svorka rychloupinaci WIELAND ator SH 10-5,08 EUROCLAMP 230v, 50Hz, 0.12A RAH1278B1-C XFAN Zdroj v3 Zdroj v3 BOMAR s.r.o.	stykac		DIL EM-10-G	MOELLER	91.040.020	60	
dtor SH 10-5,08 EUROCLAMP 230v, 50Hz, 0.12A 1502304002015 ELEKTRO-KARBAN s.r.o. Zdroj v3 Zdroj v3 BOMAR s.r.o.	Svorka rychloupínací		Svorka rychloupinaci	WIELAND	91,250,009	co.	
átor 1502304002015 ELEKTRO-KARBAN s.r.o. 230V, 50Hz, 0.12A RAH1278B1-C XFAN Zdroj v3 BOMAR s.r.o.	Svorka SH 10-5,08		SH 10-5,08	EUROCLAMP	91,144,004	+	
230V, 50Hz, 0.12A RAH1278B1-C XFAN Zdroj v3 BOMAR s.r.o.	Toroidní transformátor		1502304002015	ELEKTRO-KARBAN S.r.o.	91,080,026	4 −-€	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Zdroj v3 BOIMAR S.r.o.	Ventilátor chlazení 230V, 50Hz, 0.12A		RAH1278B1-C	XFAN	91.015.105	Ţ}	
AAD 1.C	Zdroj		Zdroj v3	BOMAR s.r.o.	265.912		
MY TO CIDIEC	Žárovka 24V, 20W		MR 16	Orbitec	93,017.107		
Manufacture of the Share and Alexander of the Sh	BOMAR, s.r.o. Bomar Těžební 1236/1	Stroj/Machine/Maschine: Extend 700,520		Název stránky/Name page/Name seiten: Souhrny kusovník	Cupic Cupic Zpra	Cproj./Project/Projekt: Zpracoval/Processed /Hat verarbeitet: Vicena	Seite: 15.a Listů/Pages/
BOYAH, S.f.O. Stoginschielphaschme. Težební 1236/1 Extend 700.520 Southrry kusovník					Data	um/Dare/Datum: 1.3.2010	0



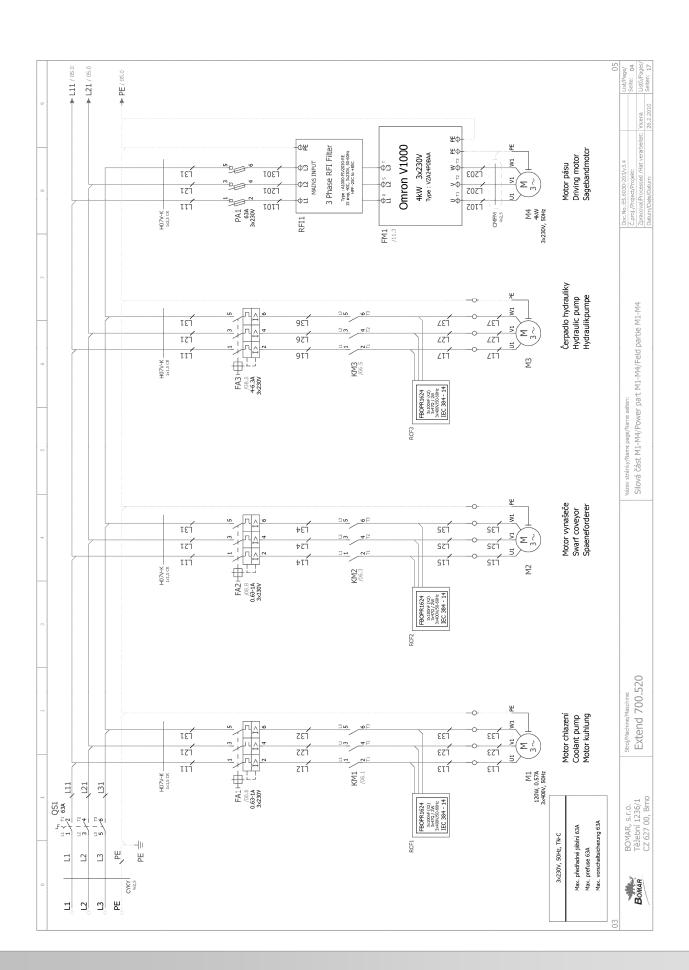
6.2. Elektrické schema / Elektroschema / Wiring diagrams – 3×230 V, TN-C



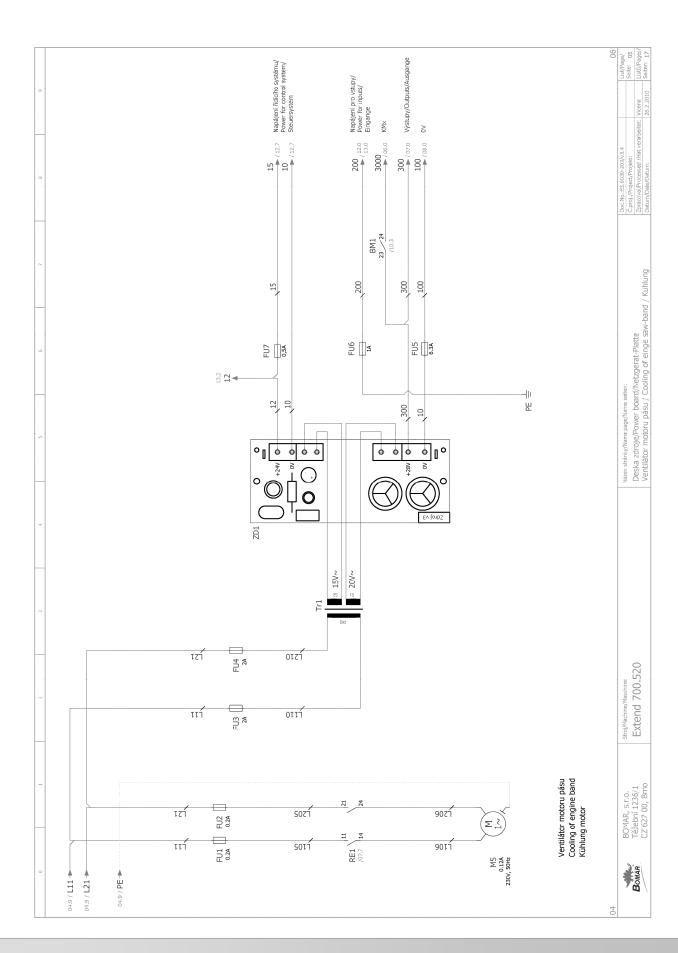




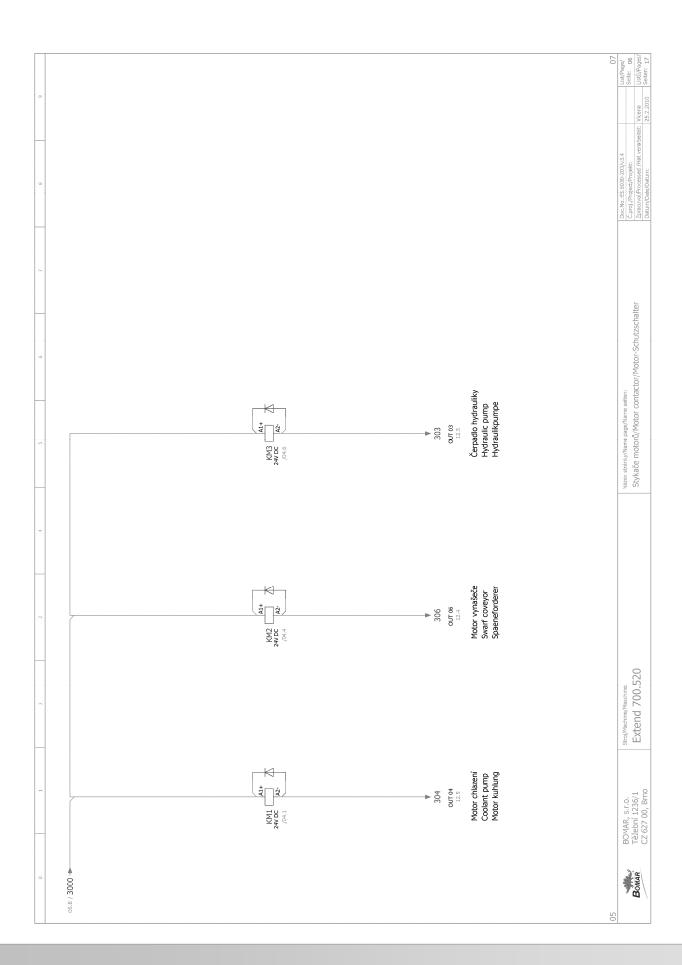




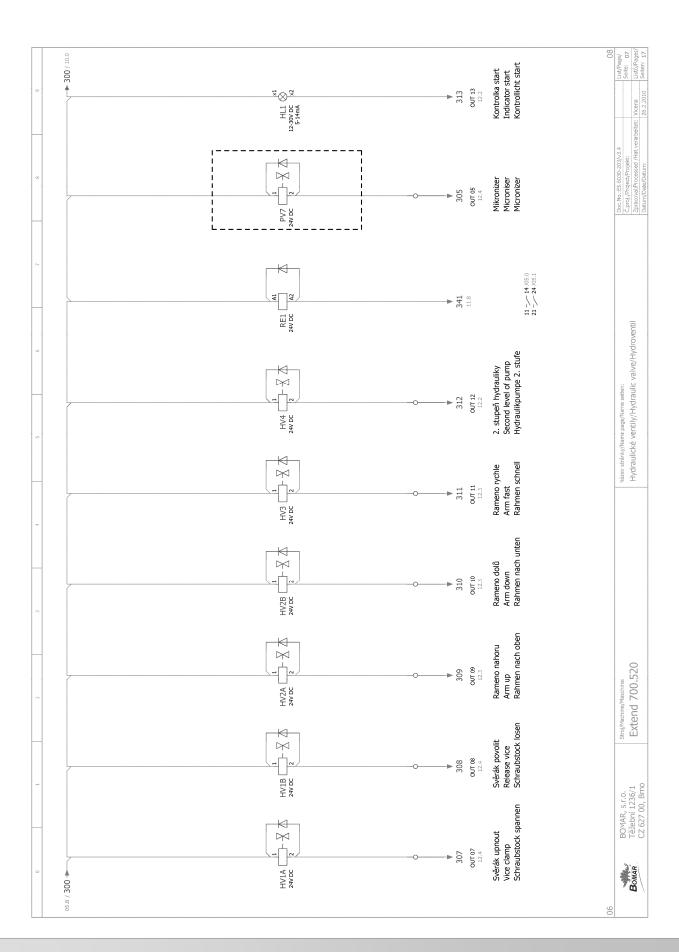




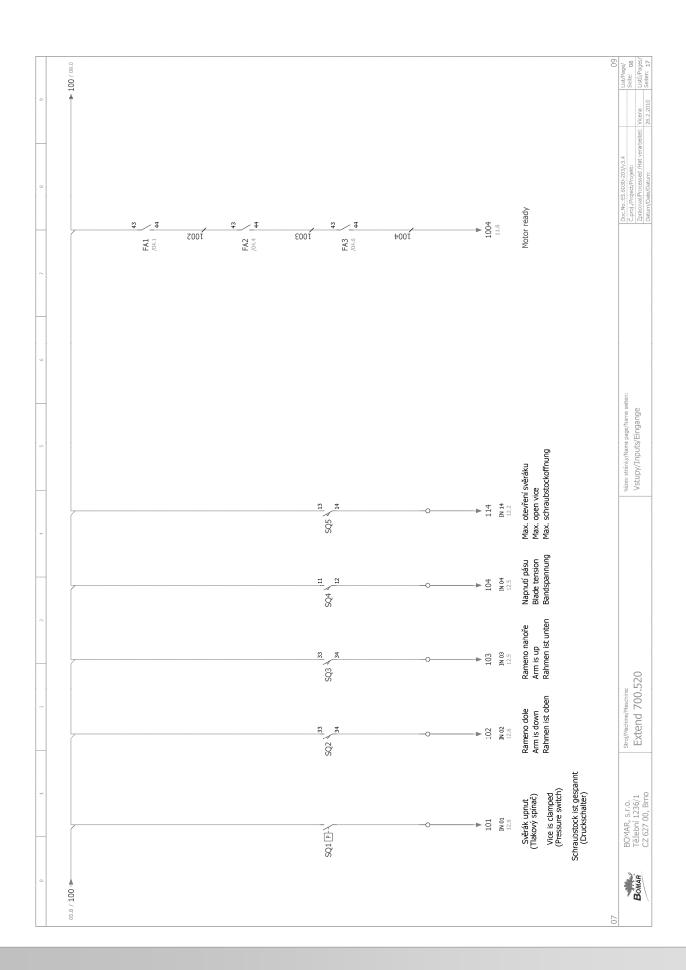




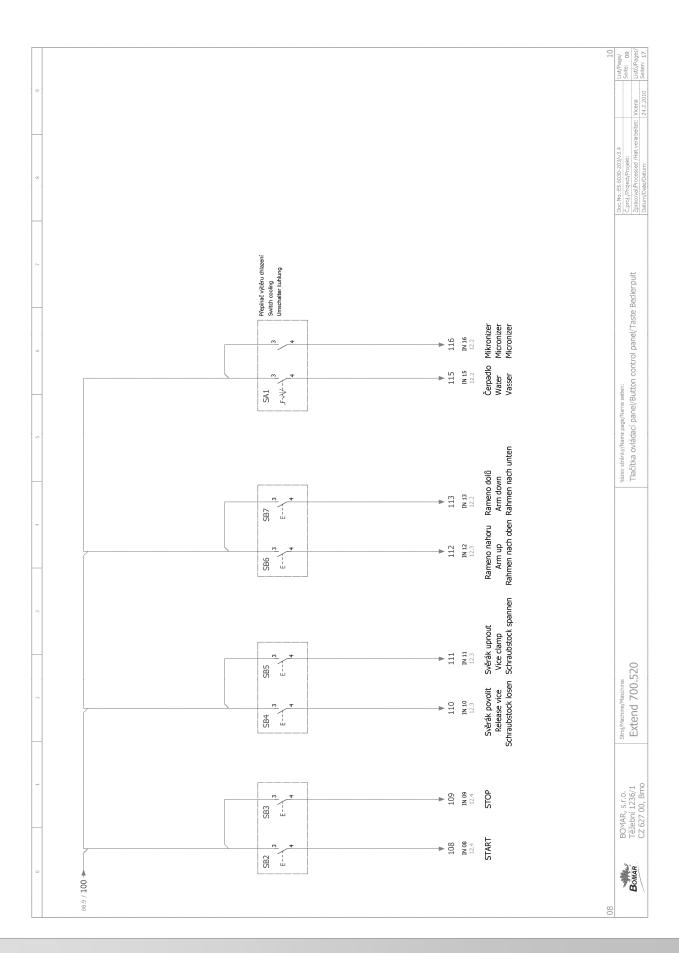
BOMAR



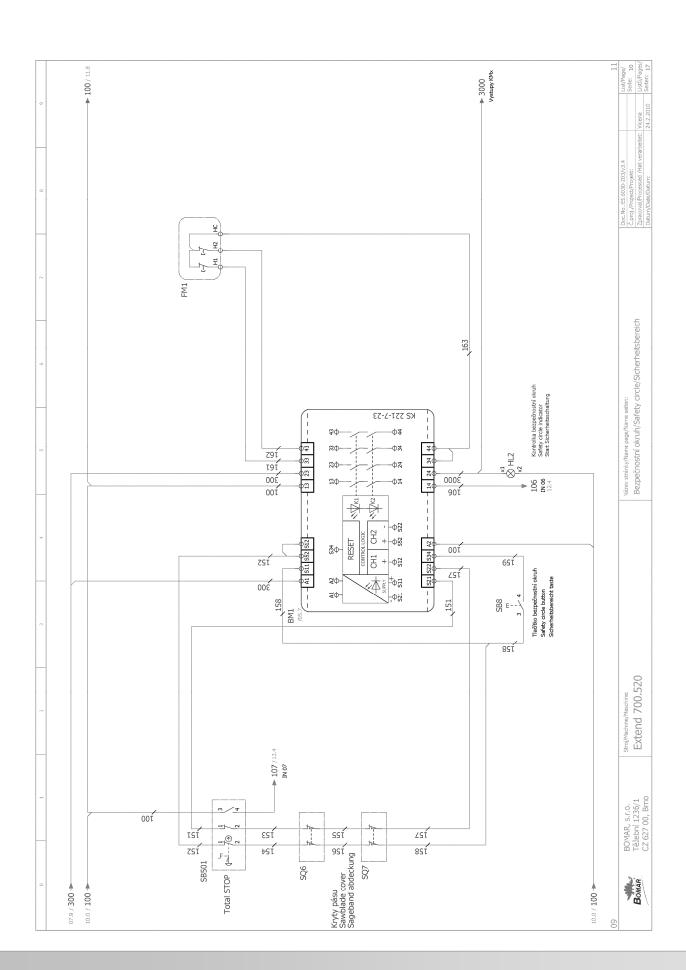




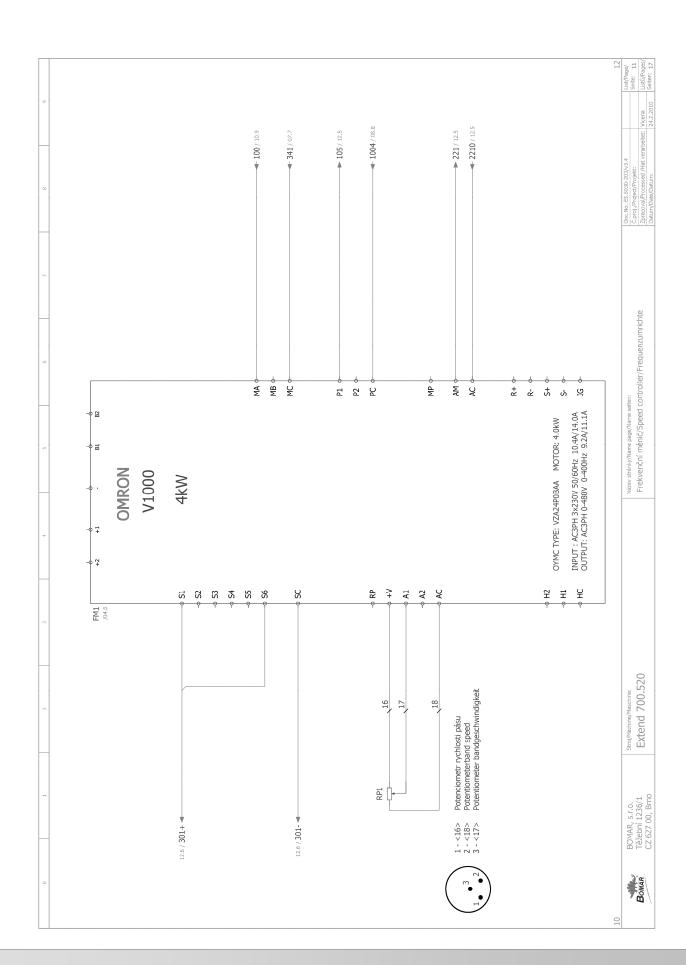




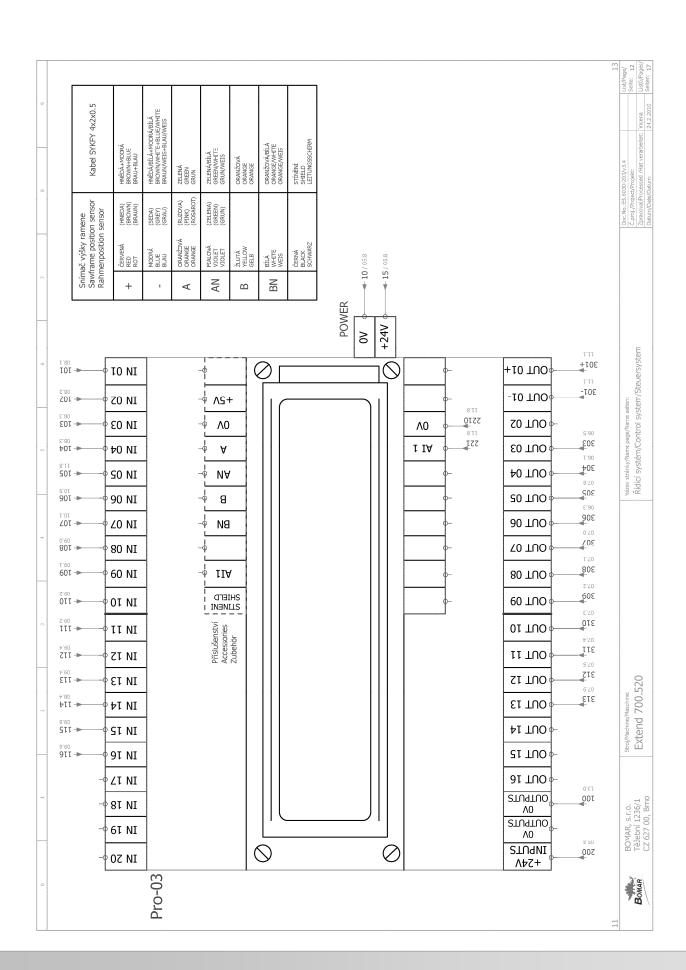




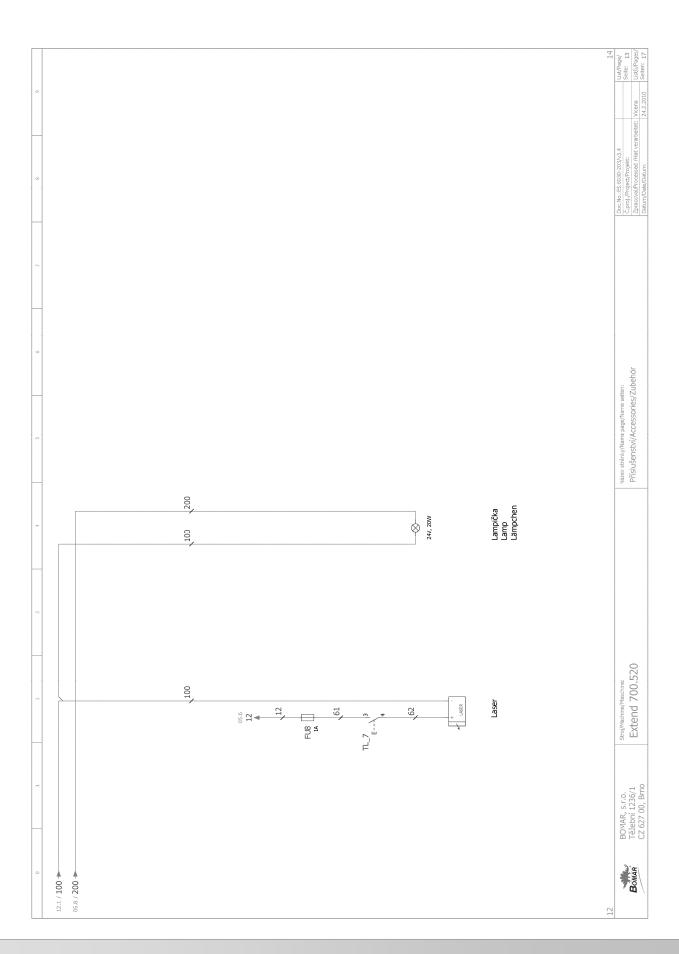














BOMAR

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

Stroj/Machine/Maschine: Extend 700.520

Název stránky/Name page/Name seiten: I/O řídící systém / I/O Control station / I/O Steuerung

Doc.No.:ES 6030-203/v3.4
C.proj./Project/Projekt:
Zpracoval/Frocessed /Hat verarbeitet: Vicena
Datum/Date/Datum: 25.2.2010

Extend 700.520

HW FW **PLC** OUT 05
OUT 07
OUT 08
OUT 09 OUT 13 OUT 14 OUT 15 OUT 16 OUT 03

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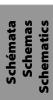
Pohled ze spodu/From under view/Blick nach

I/O	CZE	ENG	DE
IN 01	Svěrák upnut	Vice is clamped	Schraubstock ist gespannt
IN 02	Rameno dole	Arm is down	Rahmen ist oben
IN 03	Rameno nahoře	Arm is up	Rahmen ist unten
IN 04	Napnutí pásu	Blade tension	Bandspannung
IN 05	Motory ready	Motor ready	Motor vorbereitet
IN 06	Bezpečnostní okruh uzavřen	Safety circle shut down	Sicherheitsschaltung gesperrt
IN 07	Tlačitko Total stop	Button Total stop	Taste Total stop
IN 08	Tlačítko START	Button START	Taste START
IN 09	Tlačítko STOP	Button STOP	Taste STOP
IN 10	Tlačítko svěrák povolit	Button vice relase	Taste schraubstock losen
IN 11	Tlačítko svěrák upnout	Button vice clamp	Taste schraubstock spannen
IN 12	Tlačítko rameno nahoru	Button arm up	Taste rahmen oben
IN 13	Tlačítko rameno dolů	Button arm down	Taste rahmen unten
IN 14	Max. otevření svěráku	Max. open vice	Max. offen schraubstock
IN 15	Přepínač chlazení voda	Switch water pump	Umschalter wasser pumpe
IN 16	Přepínač chlazení voda Přepínač mikronizér	Switch micronizer	Umschalter micronizer
IN 17	NC	NC	NC
IN 18	NC NC	NC NC	NC NC
IN 19	NC NC	NC NC	
IN 20	NC NC	NC NC	NC NC
111 20	NC	NC	NC
OUT 01+	Motor pásu start	Start band motor	Start motor band
OUT 02	NC	NC	NC
OUT 03	Čerpadlo hydrauliky - stykač	Hydraulic pump - contactor	Hydraulik pumpe - ständerschüt:
OUT 04	Motor chlazení - stykač	Coolant pump - contactor	Motor kuhlung - ständerschütz
OUT 05	Mikronizér	Micronizer	Micronizer
OUT 06	Motor vynašeče - stykač	Swarfcoveyor - contactor	Spaneforderer - ständerschütz
OUT 07	Svěrák upnout	Vice clamp	Schraubstock spannen
OUT 08	Svěrák povolit	Relase vice	Schraubstock losen
OUT 09	Rameno nahoru	Arm up	Rahmen oben
OUT 10	Rameno dolů	Arm down	Rahmen unten
OUT 11	Rameno rychle	Arm fast	Rahmen schnell
OUT 12	2. stupeň hydrauliky	Second level od pump	Hydraulikpumpe 2. stufe
OUT 13	Kontrolka start tlačítko	Indicator start button	Kontrollicht start taste
OUT 14	NC	NC	NC
OUT 15	NC NC	NC NC	NC NC
OUT 16			
001 10	NC	NC	NC NC
		+	-

ppinac odul HORU/DOLÜ RRT/STOP ART/STOP irinu měničí 4kV 3x230V ový ového přepínače ového přepínače no ovládače do krabičky eneho tlacitka	WYELAND WELLER MOELLER MOELLER MOELLER OMRON MOELLER MOELLER MOELLER MOELLER MOELLER TELEMECANIQUE	Skladové číslo JFS 91.051.026 91.280.004 91.060.054 91.060.034 91.060.055 JFS 91.041.015 JFS 91.060.037 91.060.053	Množství 2 2 1 1 1 1 1 1 1 1 1 1 1 1
		1FS 91.051.026 91.280.004 91.060.034 91.060.035 1FS 1FS 91.041.015 1FS 91.060.037 91.060.053	7 1 2 2 1 1 1 1 1 2 2 1 1 1 1 1 2 2 1
		91.051.026 91.280.004 91.060.054 91.060.034 91.060.055 IFS 91.041.015 IFS 91.060.037 91.060.053	ed 60 ml pd pd pd pd pd pd pd
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		91.060.034 91.060.055 IFS 91.041.015 IFS 91.040.037 91.060.051 91.060.053	
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	MOELLER MOELLER TELEMECANIQUE	91.060.030	,
	MOELLER TELEMECANIQUE	91,060,053	₩.
	TELEMECANIQUE	7.76	
		91.170.011	y-4
Koncovy spinac	OMRON	91.173.007	2
Koncový spínač	OMRON	IFS	
Lampička 12V, 20W	RNDR Zdeněk Martinásek	91,100,103	
Laser		91.100.105	
Motorový jistič 0,631A GZ1M05	TELEMECANIQUE	91,235,023	2
Motorový jistič 46,3A GZ1M10	TELEMECANIQUE	91.235.026	 3
Patice relé	FINDER	91.051.003	
Pojistka trubičková 0.2A, 5x20	ESKA	91,230,037	2
Pojistka trubičková 0.5A, 5x20 pomalá	ESKA	91.230.011	
Pojistka trubičková 1A, 5x20 pomalá	ESKA	91.230.003	2
Pojistka trubičková 2A, 5x20	ESKA	91.230.001	2
Pojistka trubičková 6.3A, 5x20 pomalá	ESKA	91.230.002	-
PV14 63A gG	OEZ	91,230,018	c
Pcjistkový odpínač pro válcové vložky vel. 14 OPV14/3	OEZ	91.241.003	,I
	OEZ	91.241.003	lesy

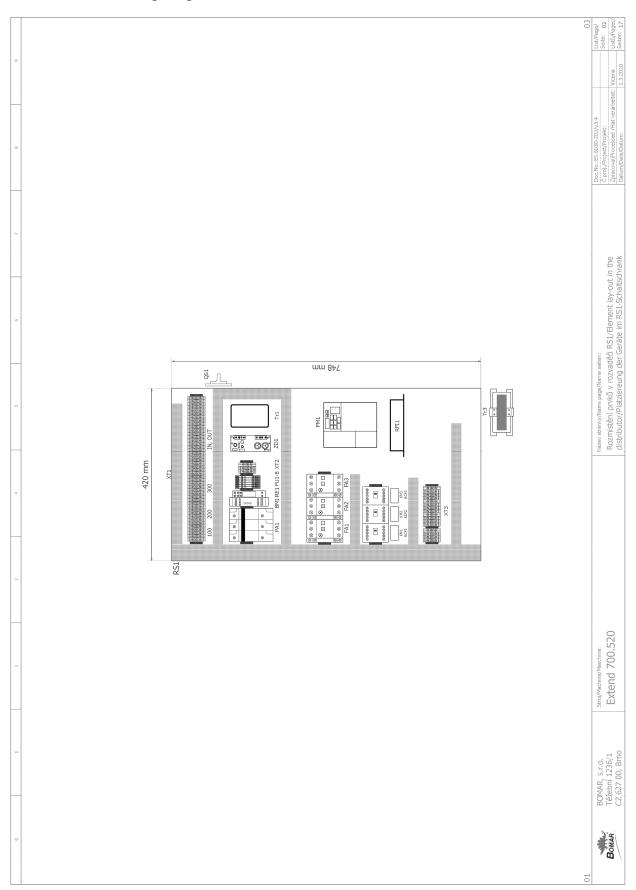


Typ přístroje		90	Objednací číslo	Výrobce	Skladové číslo	The state of the s	Množství
Pojistove pouzdro	dro	WK	WK4/THSi5U	WIELAND	91,251,102		8
pamocny kontakt	ak T	25	GZ1AN11	TELEMECANIQUE	91.046,004		9
Potenciometr 4k7	长7	d.L	TP195 4k7-N20A	TES-Ostrava	91.283.002		
Relé		40	40.52.9.024	FINDER	91.051.001		
Rozpínací jednotka	otka	MZ	M22-KC01	MOELLER	91.061.025		
Rozpínací jedn	Rozpínací jednotka na adaptér	N2	M22-K01	MOELLER	91.061.024		
Řídící systém Pro_03	ro_03	Rid	Ridici system Pro_03	BOMAR s.r.o.	265.911		2
signalka bila		M2	M22-LED-W	MOELLER	91.061.034		
Signálka zelená na adaptér	á na adaptér	M2	M22-LED-G	MOELLER	91.061.023		
Spínací jednotka	e)	MZ	M22-KC10	MOELLER	91.061.030		22
Spínací jednotk	Spínací jednotka s adaptérem	M2	M22-K10	MOELLER	91.061.021		9
stykac		IIQ	DIL EM-10-G	MOELLER	91.040,020		e
Svorka rychloupínací	pínací	SVG	Svorka rychloupinaci	WIELAND	91.250,009		m
Svorka SH 10-5,08	5,08	HS	SH 10-5,08	EUROCLAMP	91.144.004		4
Toroidní transformátor	ormátor	150	1502304002015	ELEKTRO-KARBAN s.r.o.	91.080.026		1
Ventilátor chla.	Ventilátor chlazení 230V, 50Hz, 0.12A	RA	RAH1278B1-C	XFAN	91.015.105		
Zdroj	оринический учет по температический примента по температический по температический примента по температический примента по температический примента по температический примента по температиче		Zdroj v3	BOMAR S.r.o.	265,912		The state of the s
			MR 16	Orbitec	93.017.107		

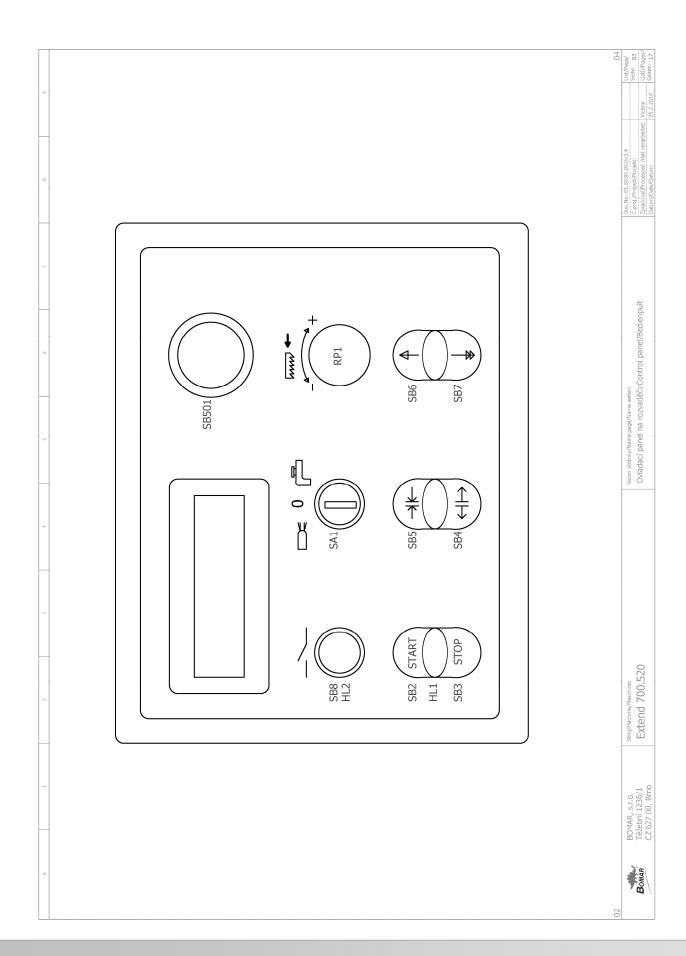




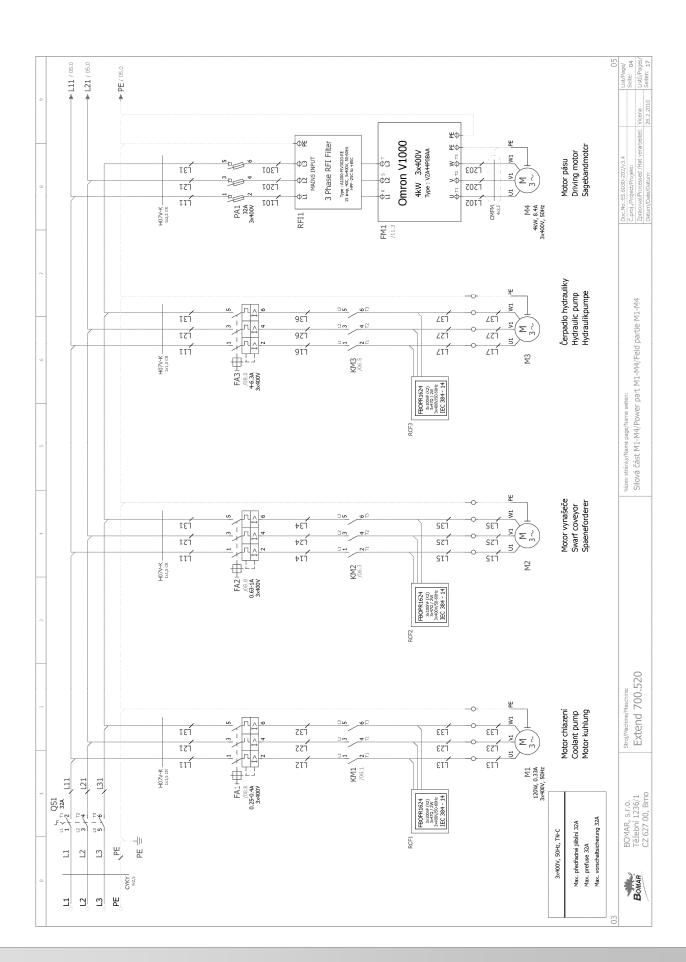
6.3. Elektrické schema / Elektroschema / Wiring diagrams – 3×400 V, TN-C



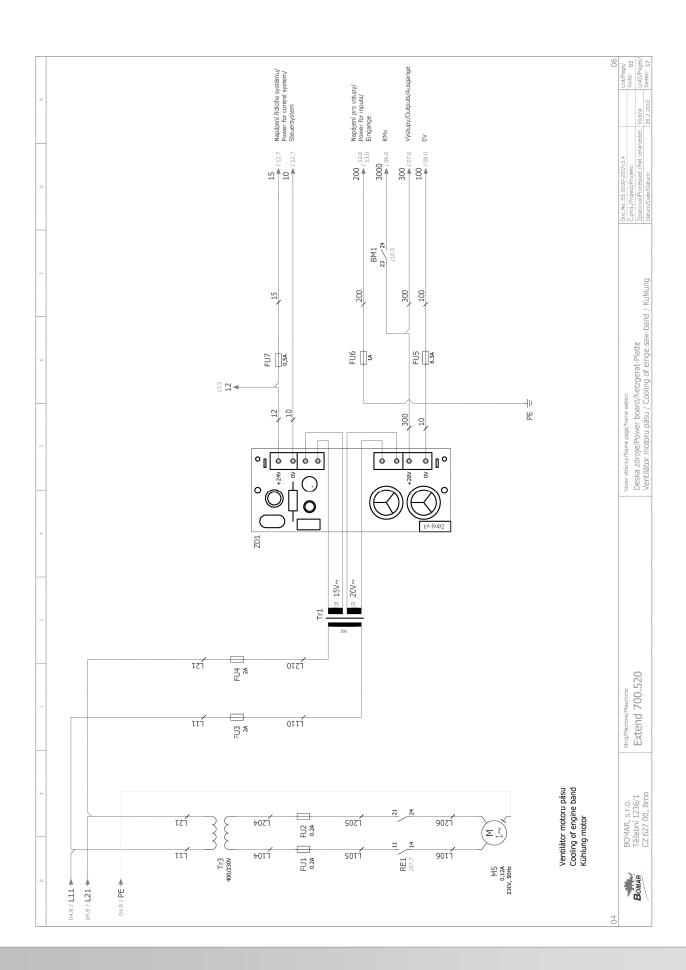




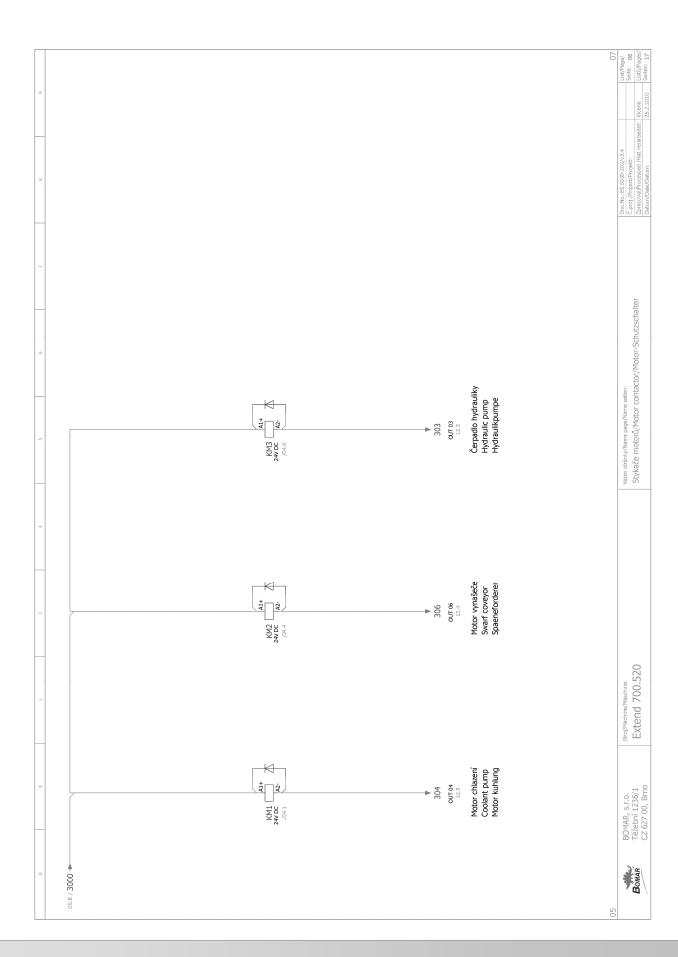




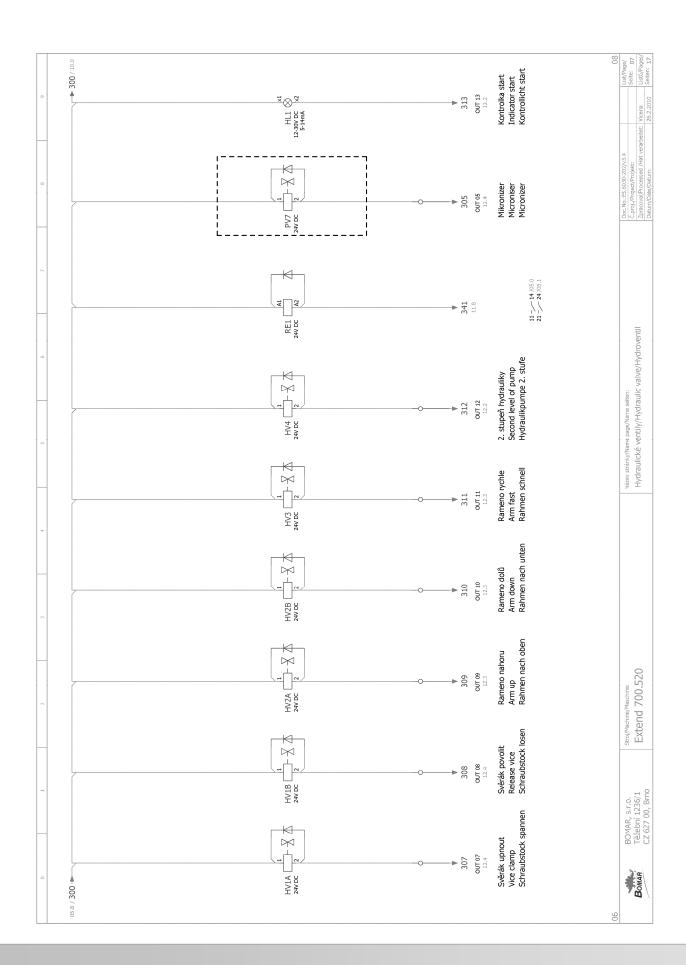




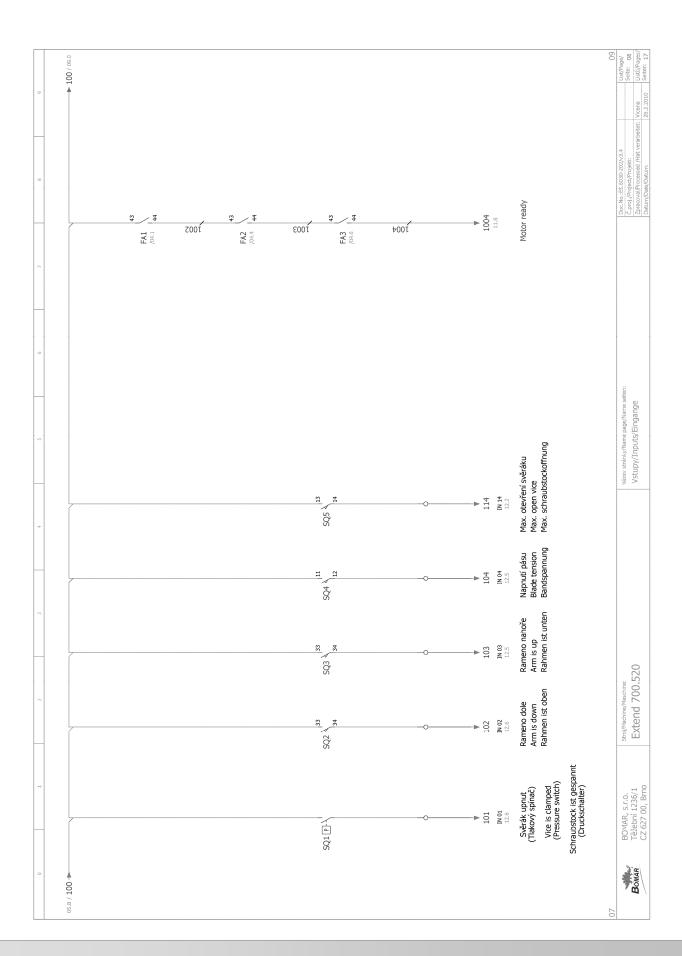




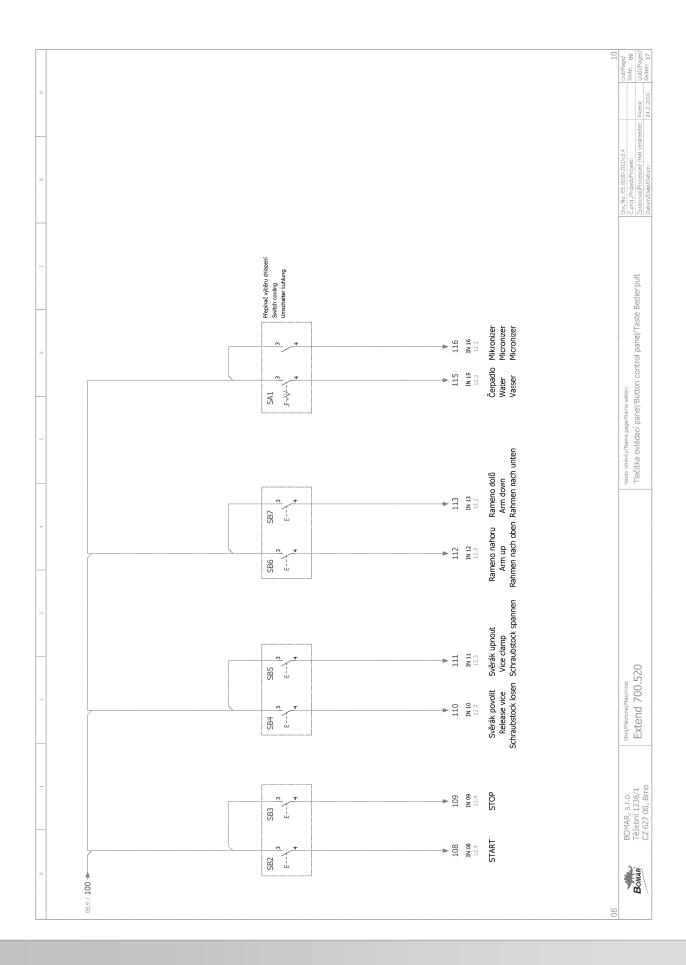




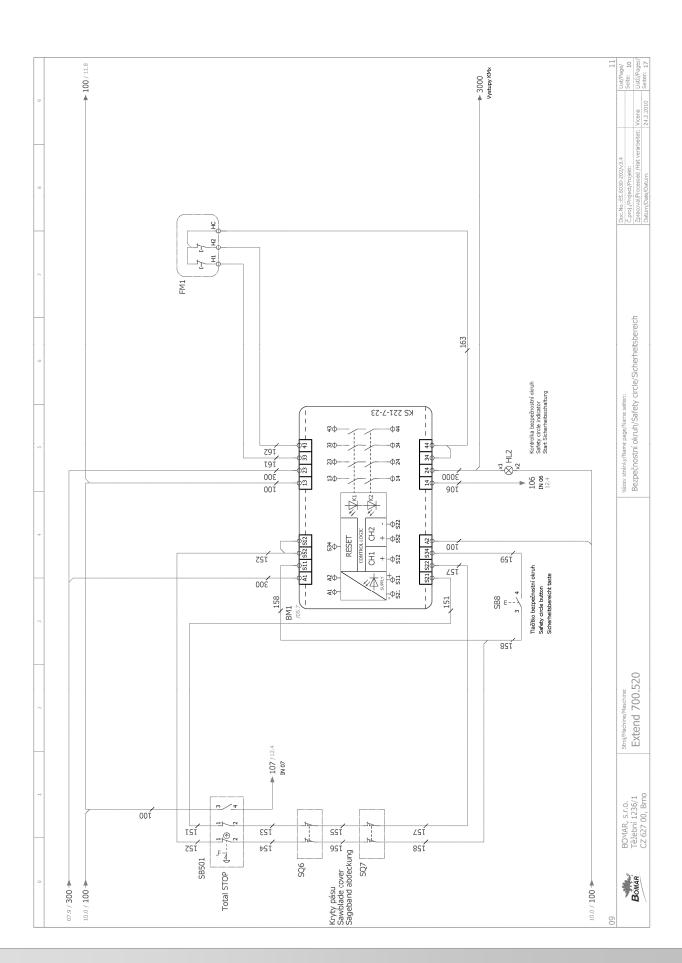




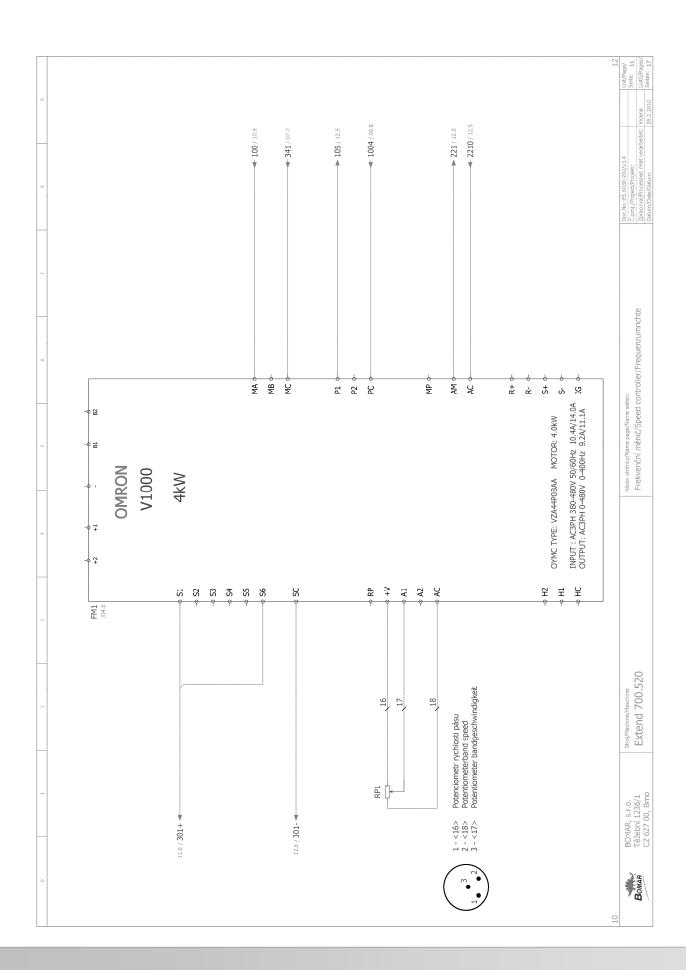




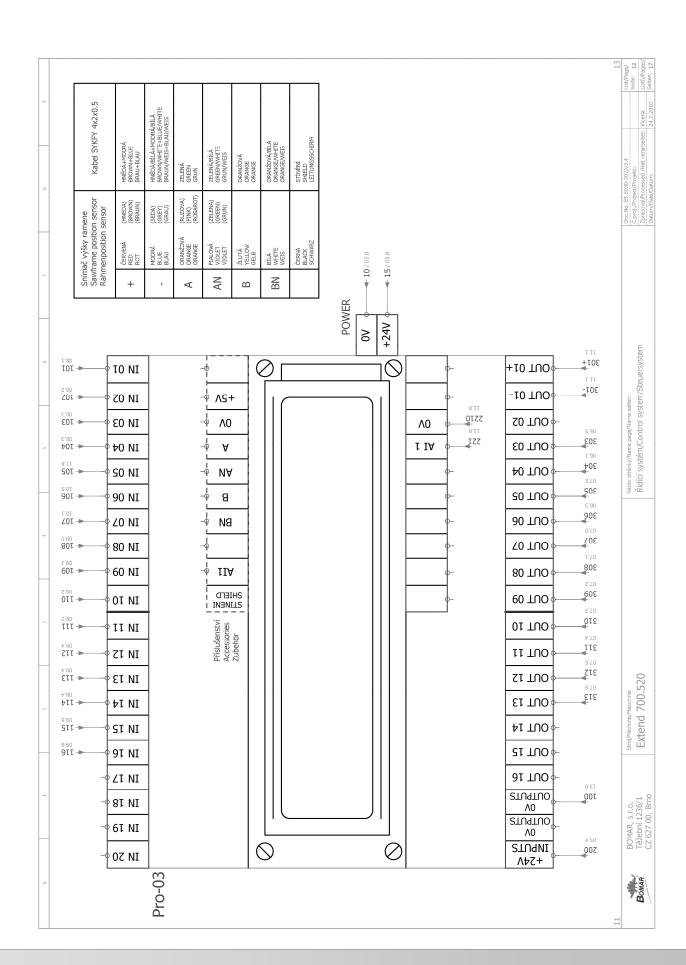




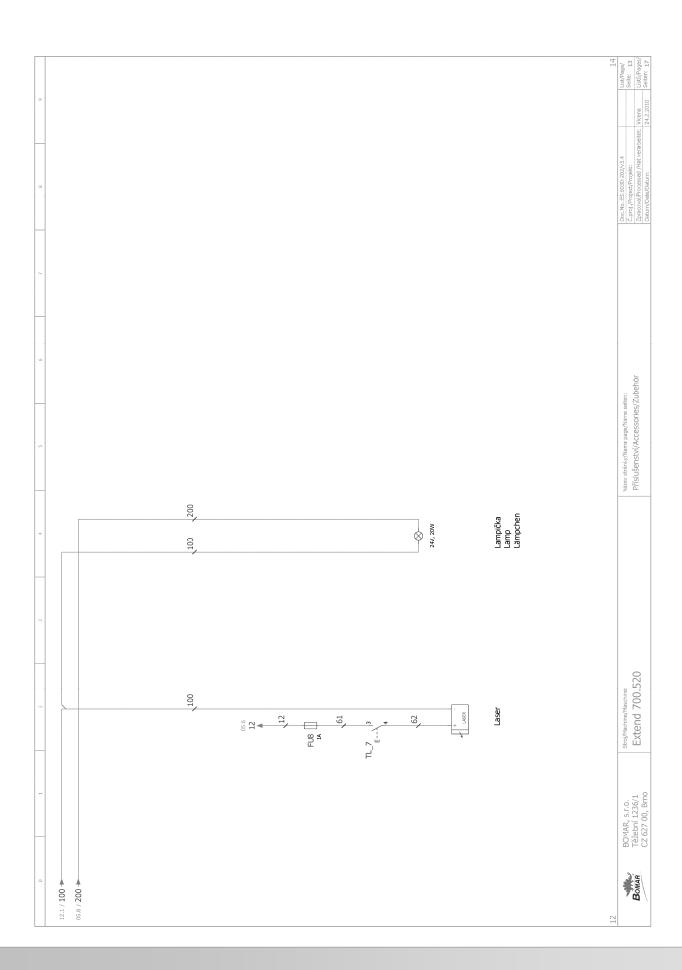














Extend 700.520 HW BOMAR, s.r.o. Těžební 1236/1 CZ 627 00, Brno FW **PLC** OUT 01
OUT 02
OUT 03
OUT 04
OUT 06
OUT 06
OUT 10
OUT 11
OUT 11
OUT 12 Extend 000000000000000 Pohled ze spodu/From under view/Blick nach 700.520 I/O CZE ENG DE IN 01 Svěrák upnut Vice is clamped Schraubstock ist gespannt IN 02 Rameno dole Rahmen ist oben Arm is down IN 03 Rameno nahoře Arm is up Rahmen ist unten IN 04 Napnutí pásu Blade tension Bandspannung IN 05 Motory ready Motor ready Motor vorbereitet IN 06 Safety circle shut down Sicherheitsschaltung gesperrt Bezpečnostní okruh uzavřen IN 07 Tlačitko Total stop Button Total stop Taste Total stop IN 08 Tlačítko START Button START Taste START IN 09 Tlačítko STOP Button STOP Taste STOP IN 10 Tlačítko svěrák povolit Taste schraubstock losen Button vice relase IN 11 Tlačítko svěrák upnout Button vice clamp Taste schraubstock spannen IN 12 Tlačítko rameno nahoru Button arm up Taste rahmen oben TN 13 Tlačítko rameno dolů Button arm down Taste rahmen unten IN 14 Max. otevření svěráku Max. offen schraubstock Max, open vice IN 15 Přepínač chlazení voda Switch water pump Umschalter wasser pumpe IN 16 Přepínač mikronizér Switch micronizer Umschalter micronizer Název I/O IN 17 NC NC NC řídící systém / I/O Control IN 18 NC NC NC IN 19 NC NC NC IN 20 NC NC NC OUT 01+ Motor pásu start Start band motor Start motor band OUT 01-OUT 02 NC NC NC station OUT 03 Čerpadlo hydrauliky - stykač Hydraulic pump - contactor Hydraulik pumpe - ständerschütz OUT 04 Motor chlazení - stvkač Coolant pump - contactor Motor kuhlung - ständerschütz OUT 05 / I/O Steuerung Mikronizér Micronizer Micronizer OUT 06 Motor vynašeče - stykač Spaneforderer - ständerschütz Swarfcoveyor - contactor OUT 07 Svěrák upnout Vice clamp Schraubstock spannen **OUT 08** Relase vice Svěrák povolit Schraubstock losen OUT 09 Rameno nahoru Arm up Rahmen oben OUT 10 Rameno dolů Arm down Rahmen unten OUT 11 Rameno rychle Arm fast Rahmen schnell OUT 12 OUT 13 2. stupeň hydrauliky Second level od pump Hydraulikpumpe 2. stufe Kontrolka start tlačítko Indicator start button Kontrollicht start taste OUT 14 NC NC NC OUT 15 NC NC NC OUT 16 NC NC NC

108



0	11	2	3	5	9	7	80	6	
Souhrnný kusovník artiklů	ovník artiklů								
Typ přístroje			Objednací číslo	Výrobce		Skladové číslo	M	Množství	
Bezp. Koncovy spinac			QKS8			IFS		2	
Bezpečnostní modul			SNA4064K	WIELAND		91.051.026		Н	
Dioda 1A			IN4007			91.280.004		00	
Dvojtlačítko NAHORU/DOLŮ	rů		M22-DDL-W-S*_	MOELLER		91.060,054			
Dvojtlačítko START/STOP			M22-DDL-W-S-	MOELLER		91.060.034			
Dvojtlačítko svěrák POVOLIT/UPNOUT	LIT/UPNOUT		M22-DDL-W-S*	MOELLER		91,060,055			
Filtr k frekvenčnímu měniči 4kW	iči 4kW		A1000-FIV3020-RE	OMRON		91.012.022			
Filtr RFC vyvodovy			FBOPR1624			91.041.015		m	
Frekvenční měnič 4kW			VZA44P0BAA	OMRON		91.012.021		——————————————————————————————————————	
HL.VYPINAC 32A			VCF1-32A	TELEMECANIQUE	ш	91.170.012		+→3	
Hlavice 2 polohového přepínače	pínače		M22-WKV	MOELLER		91.060.037		₹€	
Hlavice 3 polohového přepínače	pínače		M22-WRK3	MOELLER		91.060.051			
Hlavice hřibového ovládače do krabičky	če do krabičky		M22-PVT 263467	MOELLER		91.060.030		+-3	
hlavice prosvetleneho tlacitka	citka		M22-DL-Y	MOELLER		91.060.053		, - 1	
Koncový spínač			D4N-4A31	OMRON		91.173.007		2	
Koncový spínač			D4N-4A62	OMRON		IFS		v-4	
Lampička 12V, 20W			LBP-B-302	RNDR Zdeněk Martinásek	fartinásek	91.100.103		sr-t	
Laser			Laser			91.100.105			
Motorový jistič 0,250,4A	A,		GZ1M03	TELEMECANIQUE	JE	91.235.022			
Motorový jistíč 0,631A			GZ1M05	TELEMECANIQUE	JE	91.235.023		, -1	
Motorový jistíč 46,3A			GZ1M10	TELEMECANIQUE	田	91.235.026		T	
Patice relé			95.95.3	FINDER		91.051.003			
Pojistka trubičková 0.2A, 5x20	5x20		F0,2A/250V	ESKA		91.230.037		2	
Pojistka trubičková 0.5A, 5x20 pomalá	5x20 pomalá		F0,5A/250V	ESKA		91.230.011			
Pojistka trubičková 1A, 5x20 pomalá	k20 pomalá		F1A/250V	ESKA		91.230.003		2	
Pojistka trubičková 2A, 5x20	<20		F2A/250V	ESKA		91.230.001		2	
Pojistka trubičková 6.3A, 5x20 pomalá	5x20 pomalá		F6,3A/250V	ESKA		91.230.002		1	
Pojistka válcová 32A			PV10 32A gG	OEZ		91.230.019		8	
									6 12 7
	Stroj/Machine/Maschine	/Maschine:		Název stránky/Name page/Name seiten:	ten;		Doc.No.:ES.6030-202/v3.	4	List/Pa
BOMAR Těžební 1236/1 CZ 627 00. Brno		Extend 700.520		Souhrny kusovník			C.proj./Project/Projekt: Zpracova/Processed /Hat verarbeitet: Vicena	t verarbeitet: Vicena	Seite: 15 Listû/Pages/ Seiten: 17
							Datum/Date/Datum.	UTOZ:CI	7

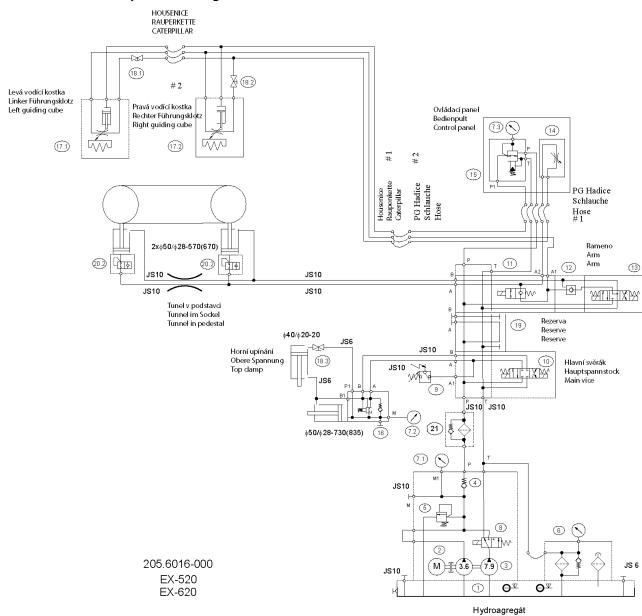
Southruný Kusovník artiklů Objednací číslo Výrobce Skladové číslo Množá Prjistocje Popljátocje Opvjúlož 222 91,241,002 Množá Prjistocje Projektový odpině po válozové vložky vel. 10 Wré4THSSU VreEMB 91,241,002 11,241,004 11,241,004 11,241,004 11,241,004	0 1	2	3	5	7		6
rigtroje Objednaci Čislo Vyrobce Skladovė Čislo vý odpině pro válcoké vložky vel. 10 OPV 10.3 CEZ 91.241.002 vý odpině pro válcoké vložky vel. 10 OPV 10.3 VREAND 91.241.002 onet 447 TP195 487-N2DA TEEPOSTRANI 91.051.012 onet 447 TP195 487-N2DA TEEPOSTRANI 91.051.001 onet 447 M22-M201 MCELER 91.051.001 onet 447 M22-M201 MCELER 91.051.001 och donoka M22-M201 MCELER 91.051.024 polanoka M22-M201 MCELER 91.051.024 pelanoka M22-M201 MCELER 91.051.024 pelanoka MCELER 91.050.024 pelanoka MCELER 91.050.022 pelanoka <td< td=""><td>Souhrnný kusovní</td><td>k artiklů</td><td></td><td></td><td></td><td></td><td></td></td<>	Souhrnný kusovní	k artiklů					
wy odpinač pro válcové vložky vel. 10 OPV10/3 OEZ ne pouzdro WK4/THSEU WIELAND onnetr 4R7 TT195 4K7-N20A TTELNECANIQUE onnetr 4R7 TT195 4K7-N20A TTES-Ostrava por jednotka MOZELER MOELER por jednotka na adaptér MOZELER MOELER por jednotka na adaptér MOZELER MOELER patia MOZELER MOZELER	Typ přístroje		Objednací číslo	Výrobce	Skladové číslo	Množství	
re poundion WKR4/THSISEU WIELAND onnetr 4K7 TELEMECANTQUE TELEMECANTQUE onnetr 4K7 TP1055 4K7-N20A TES-Cistava onnetr 4K7 TP1055 4K7-N20A TES-Cistava onnetr 4K7 TP1055 4K7-N20A TES-Cistava oci jectrokka M22-K01 MOELLER pystém Pro_03 Ridici system Pro_03 BOMAR s.r.o. ystém Pro_03 Ridici system Pro_03 MOELLER palia M22-K01 MOELLER palia MOELLER MOELLER palia MOELLER <td< td=""><td>Pojistkový odpínač pro válcové vlo</td><td>žky vel. 10</td><td>OPV10/3</td><td>230</td><td>91.241.002</td><td>7</td><td></td></td<>	Pojistkový odpínač pro válcové vlo	žky vel. 10	OPV10/3	230	91.241.002	7	
ny kontakt GZ1AN11 TELEMECANIQUE ometr 4k7 TP195 4k7-N20A TELEMECANIQUE ometr 4k7 TP195 4k7-N20A TES-Ostrava oci jednotka M22-KC01 MOELLER vystém Prc, 03 Ridici system Pro, 03 MOELLER b blia MOELLER MOELLER a zelená na adaptér MOELLER MOELLER jednotka MOELLER MOELLER jednotka Jadroka MOELLER jednotka MOELLER MOELLER jednotka sadaptérem M22-KLD MOELLER jednotka MOELLER MOELLER jednotka sadaptérem M22-KLD MOELLER jednotka Svorka rychlouginaci WIELAND Ski 10-5,08 Svorka rychlouginaci ELEKTRO-VARBAN s.r.o. smrátor 400V/230V, 0,13A, 30VA 150230402015 ELEKTRO-KOVA a.s. ZNOJMO zdroj v3 BONAR s.r.o. Zdroj v3 Zdroj v3 BONAR s.r.o. Zdroj v3	Pajistove pouzdro		WK4/THSi5U	WIELAND	91.251.102	∞	
orneft 4k7 TP195 4k7-N20A TES-Ostava eci jednotka 40.52.9.024 FINDER eci jednotka M22-KC01 MOELLER sc jednotka na adaptér Ridici system Pro_03 MOELLER p bija M22-KD MOELLER a zelená na adaptér M22-LED-G MOELLER jednotka M22-LED-G MOELLER jednotka s adaptérem M22-KC10 MOELLER <td< td=""><td>pamocny kontakt</td><td></td><td>GZ1AN11</td><td>TELEMECANIQUE</td><td>91.046.004</td><td>9</td><td></td></td<>	pamocny kontakt		GZ1AN11	TELEMECANIQUE	91.046.004	9	
acj jednotka 40.52.9.024 FINDER acj jednotka M22-KC01 MOELLER acj jednotka na adaptér M22-KC01 MOELLER ystém Prc_03 Ridici system Pro_03 MOELLER pa bila M22-LED-W MOELLER jednotka M22-KC10 MOELLER jednotka sadaptérem MOELLER MOELLER jednotka sadaptérem </td <td>Potenciometr 4k7</td> <td></td> <td>TP195 4k7-N20A</td> <td>TES-Ostrava</td> <td>91.283.002</td> <td></td> <td></td>	Potenciometr 4k7		TP195 4k7-N20A	TES-Ostrava	91.283.002		
sci jednotka M22-K01 M0ELLER sci jednotka na adaptér M22-K01 M0ELLER ystém Pro_03 Ridici system Pro_03 BOMAR S.r.o. a zelená na adaptér M22-LED-W M0ELLER jednotka M0ELLER M0ELLER jednotka s adaptérem M22-K10 M0ELLER jednotka s adaptérem M22-K10 M0ELLER jednotka s adaptérem M22-K10 M0ELLER jednotka s adaptérem M0ELLER M0ELLER	Relé		40.52.9.024	FINDER	91.051.001	₹~*\$	
sci jednotka na adaptér M22-K01 MOELLER ystém Prc_03 Ridici system Pro_03 BOMAR S.r.o. a bila M22-LED-W MOELLER a zelená na adaptér MOELLER MOELLER jednotka MOELLER MOELLER jednotka s adaptérem M22-K10 MOELLER jednotka s adaptérem M22-K10 MOELLER rychloupinací DIL EM-10-G MOELLER sy thot, jos Sy ovka rychloupinací MOELLER SH 10-5,08 Sy 10-5,08 ELEXTRO-KARBAN s.r.o. si transformátor 1502304002015 ELEXTRO-KARBAN s.r.o. si transformátor Soc 2220 - 022 ELEXTRO-KARBAN s.r.o. cor chlazení 230V, 50Hz, 0.12A RAH1278B1-C SPAN zdroj v3 BOMAR s.r.o. BOMAR s.r.o.	Rozpínací jednotka		M22-KC01	MOELLER	91.061.025	₹—1	
ystém Pro_03 Ridici system Pro_03 BONAR s.r.o. a blia M22-LED-W M0ELLER a zelená na adaptér M22-LED-G M0ELLER jednotka M0ELLER M0ELLER jednotka s adaptérem M22-K10 M0ELLER rychloupínací M0ELLER M0ELLER syorka rychloupínací M0ELLER M0ELLER SH 10-5,08 Svorka rychloupínací W1EAND SH 10-5,08 SH 10-5,08 EUROCLAMP sir fansformátor 1502304002015 ELEKTRO-KARBAN s.r.o. sir mátor 400V/230V 0,13A 30VA RAH1278B1-C XFAN cor chlazení 230V, 50Hz, 0.12A RAH1278B1-C XFAN droj v3 BOMAR s.r.o. BOMAR s.r.o.	Rozpínací jednotka na adaptér		M22-K01	MOELLER	91.061.024	y	
a bila M22-LED-W MOELLER a celená na adaptér M22-LED-G MOELLER jednotka sadaptérem M22-K10 MOELLER jednotka sadaptérem M22-K10 MOELLER rychloupínací MOELLER MOELLER rychloupínací Sovrka rychloupínaci WIELAND SH 10-5,08 SH 10-5,08 ELEXTRO-KARBAN s.r.o. sh 10-5,08 JOC 2520-022 ELEXTROCV a.s. ZNOJMO cor chlazení 230V, 50Hz, 0.12A RAH1278B1-C XFAN BOMAR s.r.o. BOMAR s.r.o.	Řídící systém Pro_03		Ridici system Pro_03	BOMAR S.r.o.	265.911	2	
jednotka M22-LED-6 MOELLER jednotka MOELLER MOELLER jednotka s adaptérem M22-K10 MOELLER jednotka s adaptérem DIL EM-10-6 MOELLER rychloupínací Sovrka rychloupínací WIELAND SH 10-5,08 SH 10-5,08 EUROCLAMP Sh 10-5,08 SH 10-5,08 ELEKTRO-KARBAN s.r.o. sor chlazení 230V, 50Hz, 0.12A RAH1278B1-C RAH1278B1-C zdroj v3 BOMAR s.r.o.	signalka bila		M22-LED-W	MOELLER	91.061.034	3{	
jednotka M22-KC10 MOELLER jednotka s adaptérem M22-K10 MOELLER rychloupinací D1L EM-10-G MOELLER rychloupinací Svorka rychloupinaci WIELAND SH 10-5,08 SH 10-5,08 EUROCLAMP si transformátor 1502304002015 ELEKTRO-KARBAN s.r.o. sor chlazení 230V, 50Hz, 0.12A RAH1278B1-C XFAN droj v3 BOMAR s.r.o. BOMAR s.r.o.	Signálka zelená na adaptér		M22-LED-G	MOELLER	91.061.023		
jednotka s adaptérem M22-K10 MOELLER rychloupínací DIL EM-10-G MOELLER syorka rychloupínací Svorka rychloupínací WIEAND SH 10-5,08 EUROCLAMP sh 10-5,08 EUROCLAMP si transformátor 1502304002015 ELEKTRO-KARBAN s.r.o. sor chlazení 230V, 50Hz, 0.12A RAH1278B1-C XFAN zdroj v3 BOMAR s.r.o.	Spínací jednotka		M22-KC10	MOELLER	91.061.030	5	
rychloupínací DIL EM-10-6 MOELLER Svorka rychloupínací WIELAND SH 10-5,08 EUROCLAMP sh 10-5,08 EUROCLAMP sh 10-5,08 ELEKTRO-KARBAN s.r.o. smrátor 400V/230V 0,134 30VA JOC E3520 - 022 ELEKTRO-KON a.s. ZNOJMO sor chlazení 230V, 50Hz, 0.12A RAH1278B1-C XFAN Zdroj v3 Zdroj v3 BOMAR s.r.o.	Spínací jednotka s adaptérem		M22-K10	MOELLER	91.061.021	9	
a PK bloupinaci Soveka rychloupinaci WIELAND a SH 10-5,08 EUROCLAMP 1502304002015 ELEKTRO-KARBAN s.r.o. 1502304002130 v.j.3a 30Va JOC E5520 - 022 ELEKTROKOV a.s. ZNOJMO dior chlazení 230V, 50Hz, 0.12A RAH1278B1-C XFAN Zdroj v3 BOMAR s.r.o. Actrol	stykac		DIL EM-10-G	MOELLER	91.040.020	m m	
a SH 10-5,08 SH 10-5,08 EUROCLAMP Inf transformátor 1502304002015 ELEKTRO-KARBAN s.r.o. formátor 400V/230V 0,13A 30VA JOC E2520 - 022 ELEKTROKOV a.s. ZNOJMO átor chlazení 230V, 50Hz, 0.12A RAH1278B1-C XFAN Zdroj v3 BOMAR s.r.o.	Svorka rychloupínací		Svorka rychloupinaci	WIELAND	91.250.009	3	
Init ransformátor 1502304002015 ELEKTRO-KARBAN s.r.o. formátor 400V/230V 0,13A 30VA JOC E2520 - 022 ELEKTROKOV a.s. ZNOJMO átor chlazení 230V, 50Hz, 0.12A RAH1278B1-C XFAN Zdroj v3 BOMAR s.r.o.	Svorka SH 10-5,08		SH 10-5,08	EUROCLAMP	91.144.004	v=3	
formation 400V/230V 0,13A 30VA JOC E2520 - 022 ELEKTROKOV a.s. ZNOJMO ator chlazení 230V, 50Hz, 0.12A RAH1278B1-C XFAN Zdroj v3 BOMAR s.r.o. AGNAR s.r.o.	Toroidní transformátor		1502304002015	ELEKTRO-KARBAN s.r.o.	91.080.026		
atror chlazení 230V, 50Hz, 0.12A RAH1278B1-C XFAN Zdroj v3 BOMAR s.r.o.	Transformátor 400V/230V 0,13A 3	50VA	JOC E2520 - 022	ELEKTROKOV a.s. ZNOJMO	91.080.027		
Zdroj v3 BOMAR s.r.o.	Ventilátor chlazení 230V, 50Hz, 0	12A	RAH1278B1-C	XFAN	91.015.105		
	Zdroj		Zdroj v3	BOMAR s.r.o.	265.912	4	
Žárovka 24V, 20W Orbitec 93.017.107	Žárovka 24V, 20W		MR 16	Orbitec	93.017.107	y	
	BOMAR, S.r.o. Těžební 1236/1 CZ 627 00, Brno	Stroj/Machine/Maschine: Extend 700,520	Sount	ánky/Name page/Name selten: NY KUSOVNÍK		Doc. No.:ES.6039-202/v3.4 Č.proj./Project/Projekt: Zpracoval/Prosessed /Hat verarbeitet: Vicena Datum/Das/Datum; 1.3.2010	List/Page/ Seite: 15.e Listû/Pages/ Seiten: 17
BOMAR, S.r.o. Stroj/Machine/Maschine. TEXEBNI 1236/1 EXTEND 700.520 Southrny kusovnik						and an experimental process of the contract of	



Schemas Schematics



6.4. Hydraulické schéma / Hydraulikschema / Hydraulic diagram



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

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

Hydroaggregat Hydroaggregate



Poz.	Název položky		ks
Pos.	Bezeichnung		Menge
Pos.	ltem		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



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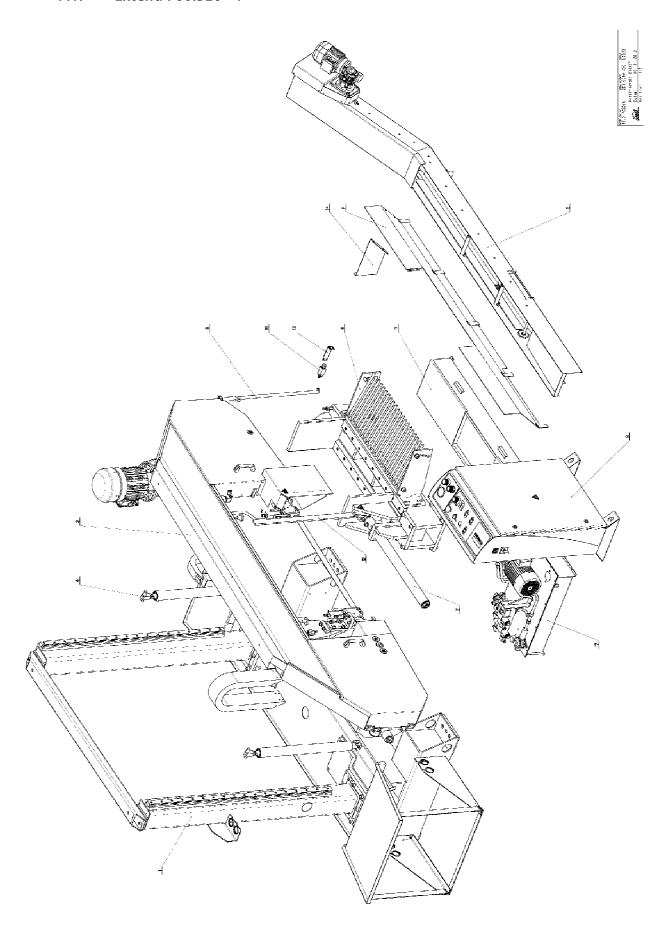


7. Výkresy sestav pro objednání náhradních dílů / Zeichnungen für Bestellung der Ersatzteile / Drawing assemblies for spare parts order

- Při objednávání náhradních dílů vždy uvádějte: typ stroje (např. practix Extend 700.520), výrobní číslo (např. 125) a rok výroby (např. 1999).
- In die Bestellung der Ersatzteile führen Sie immer an: Maschinentyp (z. B. Extend 700.520), 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 700.520), serial number (for example 125, see cover page) and year of construction (for example 1999).



7.1. Extend 700.520 - 1



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7.2. Kusovník / Stückliste / Piece list – Extend 700.520 - 1

201.	Cıslo Sestavy 201.6000-400	yer.	Nazev sestavy PILA PASOVA/BAND SAW/BANDSÅGE		
Poz.	Objednaci cislo	Ver.	Nazer polozky	Rozmer	Ks
_	201,6001-400	2	PODSTAVEC / BASE / UNTERSATZ		
2	201.6003-550 (3)	٥	SVERAK / VICE / SCHRAUBSTOCK		_
m	201.6004-600	٥	RAMENO / SHOULDER / SÅGERAHMEN		_
4	201.6007-700 (2)	_	VALEC ZVEDACI / LIFTING CYLINDER / HEBEZYLINDER		2
2	201.6017-200	4	VYNASEC TRISKOVY / CHIP EXTRACTOR / SPANABFÜHRUNG		_
ဖ	201.6018-400	_	ROST / GRILL / GITTER		_
7	201.6106-000	_	CHLAZENI / COOLING / KÜHLUNG		_
8 0	201.6114-020	٥	ODMEROVANI / MEASURING / GEHRUNGSMESSUNG		_
ø,	201. 7430-000 (3)	٥	OYLADACI PANEL / CONTROL PANEL / BEDIENPULT		_
0-	202.6020-400	<u>-</u>	PRISLUSENSTVI / 1		_
=	30.6014-454		KRY 7 / /		_
12	30.6103-110	_	LISTA DORAZOWA / STOP BAR / ANSCHLAGLEISTE	HR.40x10	_
13	30.6104-006	0	DRZAK / HOLDER / HALTER	P3x35	_
7	30,6114-156	0	KRYT / COVER / ABECKUNG	P 2x382	_
15	31.6099-401		STITER TYPOYY / /	P 0.5x65	
9	91.173.009	0	SPINAC KONCOVY / END SWITCH / ENDSCHALTER		_
13	92.001.048	0	AGREGAT HYDRAULICKY / HYDRAULIC GEMERATOR / HYDRAULIKAGGREGAT		_
<u> </u>	99.900.039		SANOLEPKA / STICKER / AUFKLEBER	NEBEZP.STLACENI	
6	99.900.040	0	SAMOLEPKA / STICKER / AUFKLEBER		_
50	99.900.043	0	SAMOLEPKA / STICKER / AUFKLEBER		
12	99.900.045	0	SAMOLEPKA / STICKER / AUFKLEBER		_
22	99.900.046	٥	SAMOLEPKA / STICKER / AUFKLEBER		_
23	99.900.047	0	SAMOLEPKA / STICKER / AUFKLEBER		_
24	99.900.048	0	SAMOLEPKA / STICKER / AUFKLEBER		
52	99.900.049	0	SAMOLEPKA / STICKER / AUFKLEBER		
56	99.900.050	0	SAMOLEPKA / STICKER / AUFKLEBER		2
2.1	99.900.051	<u> </u>	SANOLEPKA / STICKER / AUFKLEBER		_
58	99.901.032 (2)	0	SAMOLEPKA / STICKER / AUFKLEBER	CETIFIKACNI SAMOLEPKA	

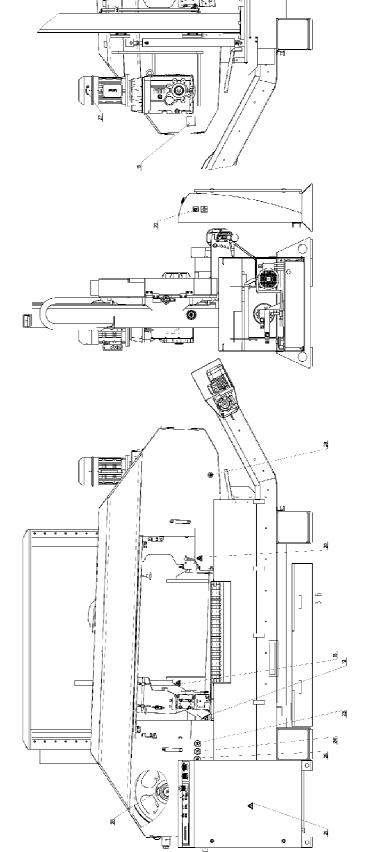
I PRIDANY DO KUSOVNIKU BEZPECNOSTNI SAMOLEPKY 26.4.07 RYSAVY 150/ZM178

2.ZRUS.VALEC 201.6007-600 A NAHR.201.6007-700,PRIDANA CERTIFIKACNI ZNACKA 99.901.032 . 040/ZM226-3 1.9.2010 SLEZACKOVA 3.ZRUS.RAMENO 201.6004-400 A NAHR.201.6004-600,ZRUS.SVERAK 201.6003-400 A NAHR.201.6004-400 A NAHR.201.6004-600,ZRUS.SVERAK 201.6003-400 A NAHR.201.6003-350,ZRUS.ROZVADEC 201.60030-400 A NAHR.201.7430-000,PRID.PRISLUSENSTVI 202.6020-400. 220/ZM004 6.1.2012 SLEZACKOVA

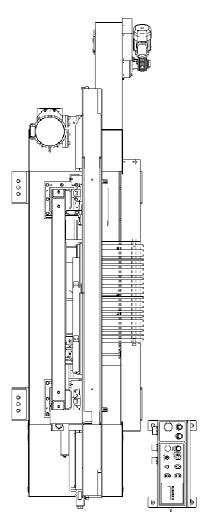
Cislo Sestavy/Number of assembly/Nummer der Baugruppe; Verze (Ver.)/Version/Version; Nazev sestavy/Assembly title/Name der Baugruppe; Pozice (Poz.)/Position/Position; Objednaci cislo/Purchase order number/Bestellnummer; Nazev pclozky/Volume title/Name der Position; Rozmer/Stock size/Abmessung



7.3. Extend 700.520 - 2









7.4. Kusovník / Stückliste / Piece list -Extend 700.520 - 2

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10 10 10 10 10 10 10 10							
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201.6003-550 (3) 0 SYERMA / VICE / SCHRAMBS/TOCK 201.6004-600 (3) 0 RANKHO / SHOULDER / SAGERAHIKIN 201.6004-600 (2) 1 VALECE / VEDACI / LITTING CTLI INDER / HEBEZYLI INDER 201.6007-100 (2) 1 VALECE / VEDACI / LITTING CTLI INDER 201.6017-000 (3) 1 VALEZE / TRISINGY / CHILE KYRACTON / SPANABFÜHBUNG 201.6018-000 1 CHLAZEN / CORLING / KÜHLUNG 201.6018-000 1 CHLAZEN / CORLING / KÜHLUNG 201.6018-000 (3) 0 CHLAZEN / CONTROL PANEL / BEDIEMPLIT 201.602-000 (3) 0 PRISILUSENSTYN / / CONTROL PANEL / BEDIEMPLIT 201.602-000 (3) 0 PRISILUSENSTYN / / / RATT / / (CONTROL PANEL / BEDIEMPLIT 202.602-000 (3) 0 PRISILUSENSTYN / / / (CONTROL PANEL / BEDIEMPLIT 203.6104-056 0 DRIZAL / RATT / / (CONTROL PANEL / BEDIEMPLIT 203.6104-056 0 DRIZAL / RATT / / (CONTROL PANEL / BEDIEMPLIT 203.6104-056 0 DRIZAL / RATT / (CONTROL PANEL / BEDIEMPLIT 203.6104-056 0 RANGLEPRA / STICKER / AUFKLEBER 203.6104-056 0 SANGLEPRA / STICKER / AUFKLEBER 203.00046 0 0 0 0 0 0 0 0 203.00046 0 0 0 0 0 0 0 0 0 2	_	201.6001-400		2	PODSTAVEC / BASE / UNTERSATZ		_
201.6004-600 (3) O RMENO / SHOULDER / SÁGERAMEN 201.6007-100 (2) I WILE ZYEDACI / LIFTING CTI.INDER / HEBEZYLINDER 201.6017-200	2	201.6003-550		0			_
201.600-700 (2) 1 WALEC ZVEDACI / LIFTING CYLINDER / HEBEZYLINDER 201.6017-200 4 VYMASEC RISSIONY / CHIP EXTRACTOR / SPANGFÜHRUNG 201.6018-400 1 ROST / GRILL / GITTER 201.6108-400 1 ROST / GRILL / GITTER 201.6108-000 1 ROST / GRILL / GITTER 201.6108-000 1 ROST / GRILL / GITTER 201.7430-000 3 D OVILADACI PANEL / GENTRUNGSNESSUNG 201.7430-000 3 D OVILADACI PANEL / CONTROL PANEL / BEDIEMPULT 202.6020-400 3 D OVILADACI PANEL / CONTROL PANEL / BEDIEMPULT 202.6020-400 3 D RISSING / PANEL / GENTRUNGSNESSUNG 202.6020-400 3 D RISSING / PANEL / GENTRUNGSNESSUNG 202.6020-400 3 D RISSING / PANEL / BEDIEMPULT 202.6020-400 3 D RISSING / PANEL / GENTRUNGSNESSUNG 202.6020-400 3 D RISSING / PANEL / GENTRUNGSNESSUNG 202.6020-400 1 LISTIN DONAROVY / END SWITCH / ENDSCHALTER 20.601.048 0 STITIK TPONY / I RISSING / PANEL / BERR 20.601.048 0 STITIK TPONY / I RISSING / PANEL / BERR 20.601.048 0 SANGLEMA / STICKER / AUFKLEBER 20.601.051 0 SANGLEMA / STICKER / AUFKLEBER	m	201.6004-600	\sim	٥			_
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201.6018-400 1 ROST / GR ILL / GITTER	2	201.6017-200		4	VYNASEC TRISKOVY / CHIP EXTRACTOR / SPANABFÜHRUNG		_
201.6106-000 1 CHLAZENI / COOLING / KÜHLUNG 201.6106-000 3 CHLAZENI / COOLING / KÜHLUNG SMESSUNG 201.6114-020 0 OWERDYAM I / MEASURING / GEHRUNGSMESSUNG 202.6020-400 3 1 RRISLUSENSTYI / I RRISLUSENSTYI / I RRISLUSENSTYI / I I I I I I I I I	ဖ	201.6018-400		_	ROST / GRILL / GITTER		_
201.6114-020 3 0 ODWEROYARI / MEASURING / GENRUNGSMESSUNG 201.7430-000 3 0 PRISUBERIYI / I PREDIENPULT 202.6020-400 3 1 PRISUBERIYI / I PREDIENPULT Secondary 1 I I I I I I I I I	7	201.6106-000		_	CHLAZENI / COOLING / KÜHLUNG		_
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99.900.031 (1) SAMOLEPKA / STICKER / AUFKLEBER 99.901.032 (2) 0 SAMOLEPKA / STICKER / AUFKLEBER	56	99.900.050	Θ	0	-		2
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	28		(0		CETIFIKACNI SAMOLEPKA	_

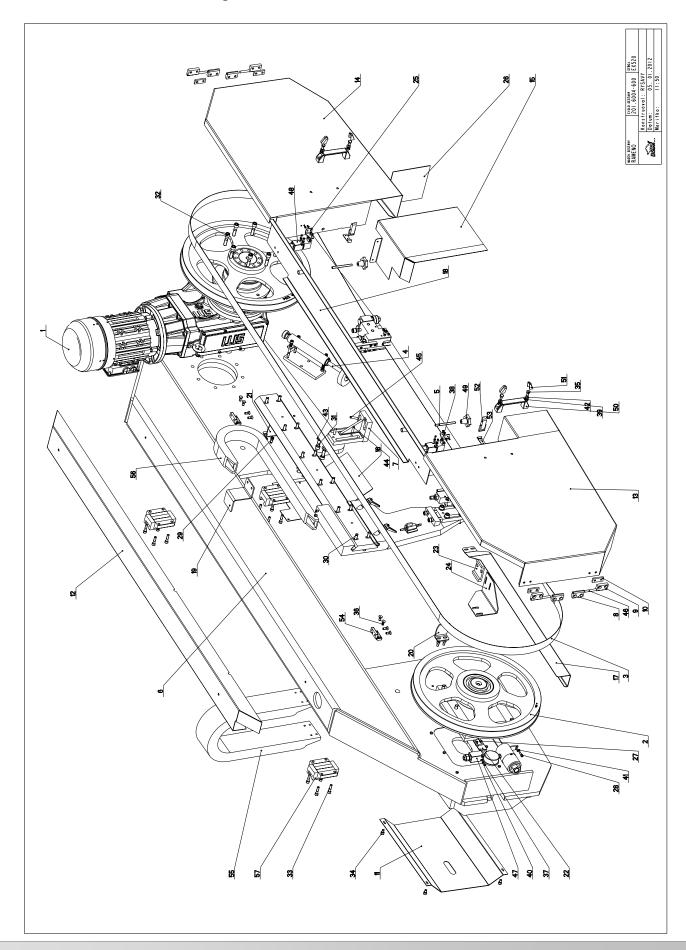
I PRIDANY DO KUSOVNIKU BEZPECNOSTNI SAMOLEPKY 26.4.07 RYSAVY 150/ZM178

2.ZRUS.VALEC 201.6007-600 A NAHR.201.6007-700,PRIDANA CERTIFIKACNI ZNACKA 99.901.032 . 040/ZM226-3 1.9.2010 SLEZACKOVA 3.ZRUS.RAMENO 201.6004-400 A NAHR.201.6004-600,ZRUS.SVERAK 201.6003-400 A NAHR.201.6004-400 A NAHR.201.6004-400 A NAHR.201.6004-400 A NAHR.201.6004-400 A NAHR.201.6004-400 A NAHR.201.7430-000,PRID.PRISLUSENSTVI 202.6020-400. 220/ZM004 6.1.2012 SLEZACKOVA

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 pclozky/Volume title/Name der Position; Rozmer/Stock size/Abmessung



7.5. Rameno / Sägerahmen / Saw arm - 1





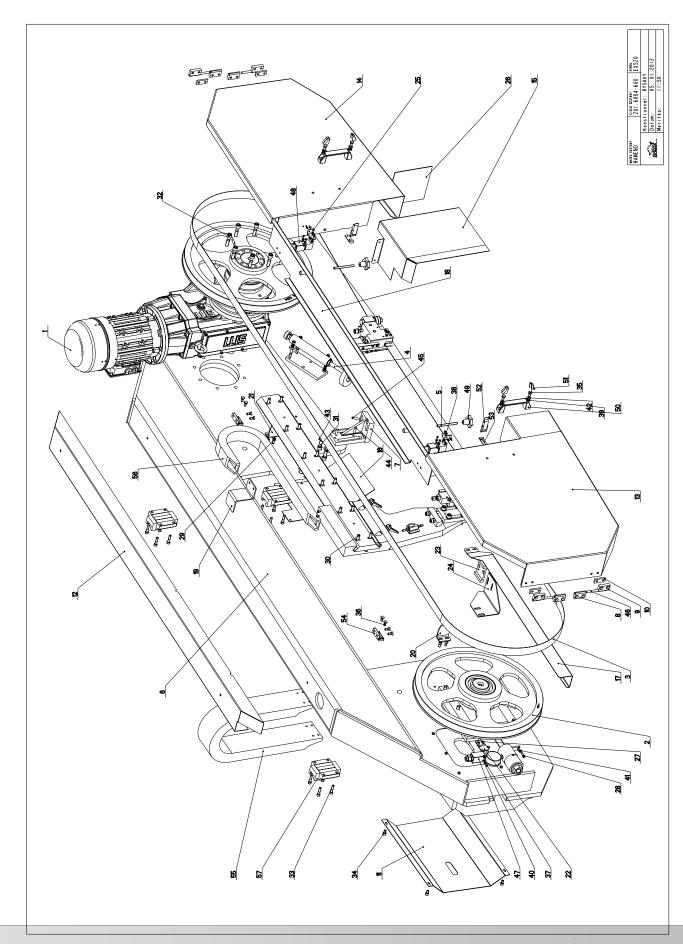
7.6. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 1

Cisto 201	Cisto Sestavy 201. 6004-600	Ver.	Nazev sestavy RAMENO/SHOULDER/SĀGERAHMEN		
Poz.	Objednaci cislo	Ver.	Nazev połozky	Rozmer	Ks
_	201.6005-430	0	POHON / DRIVE / ANTRIEB		_
2	201.6008-400	_	NAPINANI / TENSIONING / SPANNUNG		_
٣	201.6010-400	e	VEDENI PASU / BELT GUIDE / SÅGEBANDFÜHRUNG		_
4	201.6114-100	0	KARTAC / BRUSH / BÜRSTE		_
2	30.0203-005	0	SROUB / BOLT / SCHRAUBE	M8	2
9	30.6004-601	0	RAMENO / SHOULDER / SÄGERAHMEN		_
7	30.6010-136	2	DRZAK / HOLDER / HALTER		_
8	30.6014-109.1	_	DESKA / /	HR 30x12	4
6	30.6014-110	_	PANT / HINGE / TÜRBAND	HR 30x12	4
0_	30.6014-111	0	DESKA / BOARD / PLATTE	HR 20x6	4
Ξ	30.6014-319	_	KRYT NAPINANI / TENSIONING COVER / BANDSPANNUNGSABDECKUNG	P2x420	_
1.2	30.6014-433	2	KRYT RAMENE / SHOULDER COVER / RAHMENABDECKUNG	P 1.5 - 245	_
-3	30.6014-434	2	DVERE / DOOR / TÜR		_
1 4	30.6014-435	2	DVERE / DOOR / TÜR		_
1.5	30.6014-436	0	KRYT KARTACKU / BRUSH COVER / BÜRSTENABDECKUNG	P 2x557x475	_
9	30.6014-437	_	KRYT / COVER / ABDECKUNG	P 2x 421	_
1.1	30.6014-450	0	KRYT PASU / BELT COVER / BANDABDECKUNG	P 2 - 177x871	_
8	30.6014-451	_	KRYT PASU / BELT COVER / BANDABDECKUNG		_
6	30.6114-109	0	DRZAK / HOLDER / HALTER	P 4x70x195	_
20	30.6114-123	0	DRZAK / HOLDER / HALTER	P 4 - 55	_
21	30.6114-124	_	DRZAK / HOLDER / HALTER	P 4 - 55	_
22	30.6114-143	_	DRZAK / HOLDER / HALTER	P3-35	_
23	30.6114-145	0	KLUZAK / GLIDER / GLEITER	TYC 60x15	_
24	30.6114-146	2	DRZAK / HOLDER / HALTER	P3-150x199	_
25	30.6114-147	0	DRZAK / HOLDER / HALTER	P 3x30x60	2
56	30.6114-160	0	CLONA / CURTAIN / SCHÜRZE	2×180	_
2.7	90.001.25.016	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M6X12	2
28	90.001.25.018	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M6X20	_
53	90.001.25.031	0	SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE	8×16	4
30	90.001.25.050	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MI0X40	12
3.1	90.001.25.059	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M12X35	4
32	90.001.25.062	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M12X50	∞
33	90.001.55.035	0	SROUB IMBUS CERNENY / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M8X35	9_
34	90.001.55.082	0	SROUB IMBUS ZINEK / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M8X14	4

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



Rameno / Sägerahmen / Saw arm - 2 7.7.





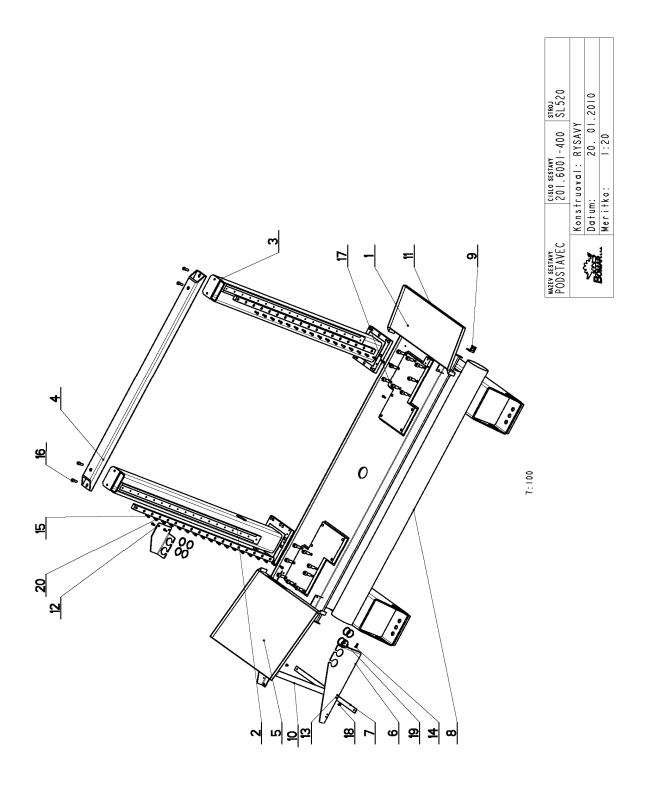
7.8. Kusovník / Stückliste / Piece list – Rameno / Sägerahmen / Saw arm - 2

35	90.005.55.014	0	SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE	SROUB M8X16	4
36	90.011.27.027	0	SROUB ZAPUSTNY / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB M8X20	8
37	90.012.50.007	0	SROUB / ROLLER BOLT / ZYLINDERSCHRAUBE	SROUB M4X30	9
38	90.013.27.001	0	SROUB / BOLT / SCHRAUBE	M4x8	8
39	90.100.55.005	0	MATICE / NUT / MUTTER	MATICE _ M8	4
40	90.150.50.002	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 4,3	9
4	90.150.50.004	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 6,4	_
42	90.150.50.005	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 8,4	4
43	90.150.50.007	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 13	4
44	90.300.02.010	0	KOLIK VALC. KAL. / CYLINDRICAL PIN TEMPERED / ZYLINDERSTIFT GEHARTET	KOLIK 8X32	2
45	110.300.005.09	0	KOLIK VALC. KAL. / CYLINDRICAL PIN TEMPERED / ZYLINDERSTIFT GEHARTET	KOLIK 8X40	2
46	90.300.02.017	0	KOLIK VALC. KAL. / CYLINDRICAL PIN TEMPERED / ZYLINDERSTIFT GEHARTET	KOLIK 8X70	4
47	91.173.009	0	SPINAC KONCOVY / END SWITCH / ENDSCHALTER		_
48	91.173.012	0	SPINAC KONCOVY / END SWITCH / ENDSCHALTER	OKS8-2×NC	2
49	94.003.001	0	HLAVICE / HEAD / KOPF		2
50	94.012.001	0	RUKOJET / HANDLE / GRIFF		2
51	94.012.002	0	KRYT / COVER / ABDECKUNG		4
52	99.100.003	0	ZAMEK / LOCK / SCHLOSS		2
53	99.100.004	0	ZAMEK / LOCK / SCHLOSS	D13-00	2
54	99.100.007	0	PANT / HINGE / TÜRBAND		2
55	100.071.09	0	RETEZ ENERGII / ENERGY BELT / ENERGIEKETTE	36×75/R-100	_
56	99.170.015	0	RETEZ ENERGII / ENERGY BELT / ENERGIEKETTE	0300 037 095	_
5.7	99.201.011	0	VOZIK LINEARNIHO VEDENI / LINEAR GUIDE CART / LINEARFÜHRUNGSWAGEN	немзесс	4

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



7.9. Podstavec / Untersatz / Base



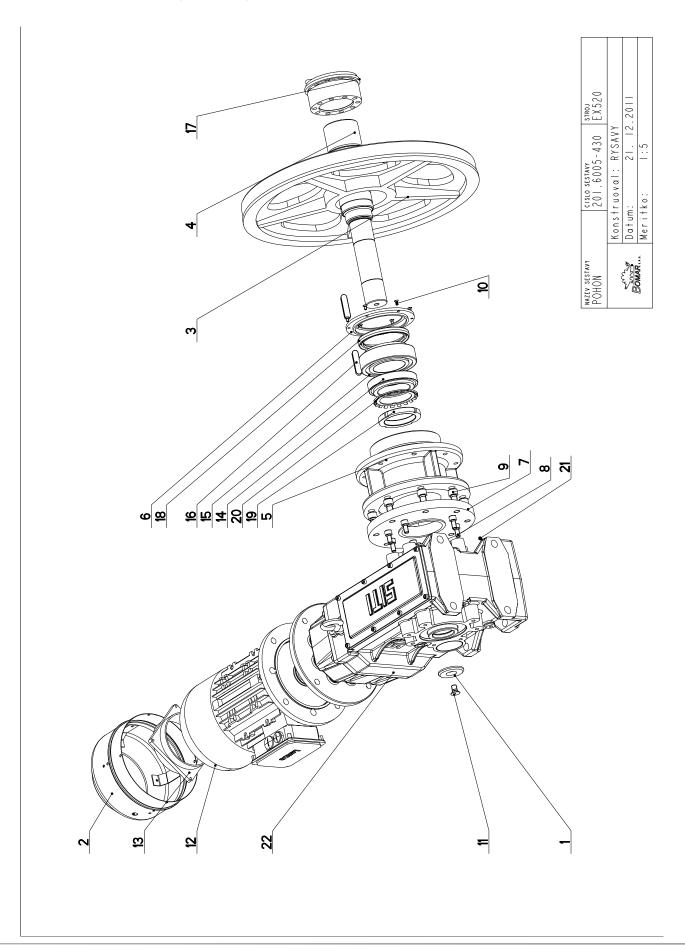


7.10. Kusovník / Stückliste / Piece list – Podstavec / Untersatz / Base

Cislo Sestary 201.6001-400		NO28" \$6540", PODSTAVEC/BASE/UNTERSATZ		
Poz. Objednaci cislo	Ver.	Nazev polozky	Rozmer	ž
30,6001-401	en	PODSTAVEC / BASE / UNIERSATZ		_
2 30.6001-402	e	SLOUP / POLE / SÂULE		_
3 30,6001-403	_	STOND / POLE / SÂULE		_
4 30.6001-404	0	VYZTUHA / REINFORCEMENT / VERSTEIFUNG		_
5 30,6101-105	_	DRZAK / HOLDER / HALTER	P 4x273x582	_
90.6101-106	_	DRZAK / HOLDER / HALTER	P 4x 273	_
7 30,6101-108	0	VZPERA / PROP / STREBE	HR 30x5	_
8 30.6101-109	_	TRUBKA / TUBE / ROHR	D 150	_
9 30.6101-111	0	DRZAK 1 HOLDER 1 HALTER	PROFIL 40x40x4	_
10 30.6114-131	0	OKAP / GUTTER CHANNEL / BLECH		_
11 30,6114-134	0	OKAP / GUTTER CHANNEL / BLECH		_
12 30.6114-136	_	DRZAK / HOLDER / HALTER	P5x210	_
13 90.001.25.017	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M6X16	4
14 90.001.25.032	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	8x20	=
15 90.001.25.033	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	8x25	36
16 90.001.25.059	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M12X35	4
17 90.001.25.074	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MI6X45	9_
18 90.011.27.007	0	SROUB ZAPUSTNY / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB M8X12	2
19 95.800.019	0	KROUZEK POJIST.VNEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUßEN	POJISTNY KROUZEK 52	-21
20 99.200.033	0	VEDENI LINEARNI / LINEAR GUIDE / LINEARE FÜHRUNG	LGR 35R	2



7.11. Pohon / Antrieb / Drive





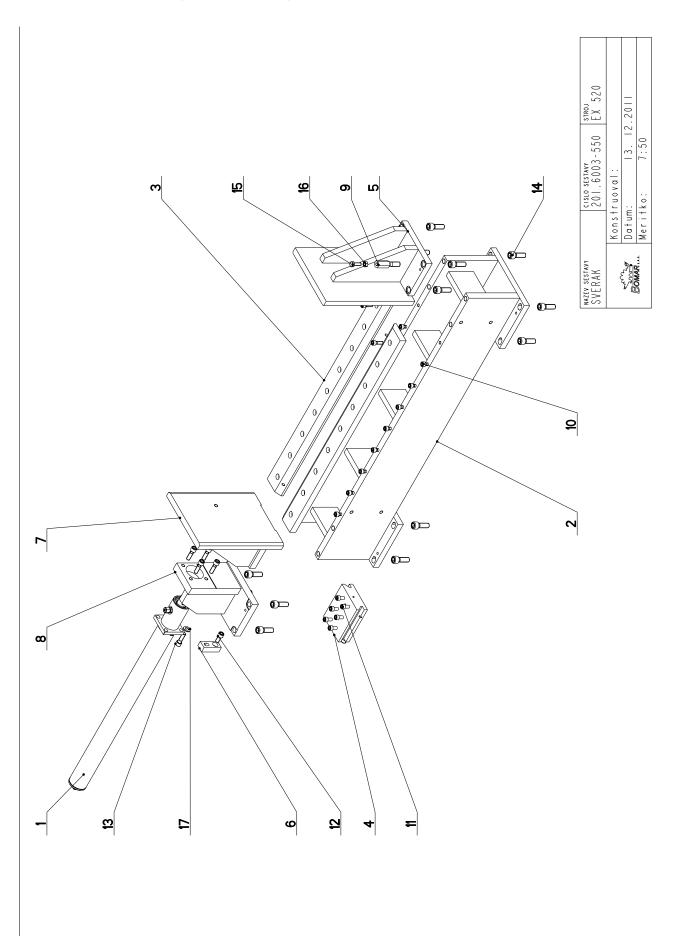
7.12. Kusovník / Stückliste / Piece list – Pohon / Antrieb / Drive

Cis10 201	Cisto Sestavy 201, 6005-430	0 Ver	Nozev sestovy Pohon/DRIVE /ANTRIEB		
P o z .	Objednaci cislo	Ver.	Nazev polozky	Rozmer	Кs
_	30.0804-009	2	PODLOZKA / WASHER / UNTERLEGSCHEIBE	d 60	_
2	30.4304-018	e	VENTILATOR / VENTILATOR / VENTILATOR		_
m	30.6005-001	4	KOLO HNACI / DRIVE WHEEL / ANTRIEBSRAD	ODLITEK	_
4	30.6105-251	0	HRIDEL / SHAFT / WELLE	001 P	_
2	30.Y605-001	_	PRIRUBA / FLANGE / FLANSCHE		_
9	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
6	90.001.25.107	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M14X35	∞
0_	90.011.27.003	0	SROUB ZAPUSTNY / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB M5X10	9
Ξ	90.011.27.009	0	ZAPUSTNY IMBUS / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB MI2X20	_
1.2	91.001.117	0	ELEKTROMOTOR / ELECTRIC MOTOR / ELEKTROMOTOR	4kW 4P B5 112	_
13	91.015.100	0	VENTILATOR / VENTILATOR / VENTILATOR		_
1 4	95.300.028	0	LOZISKO KUZELIK / BEARING / LAGER	32015AX	_
1.5	95.300.029	0	LOZISKO KUZELIK / BEARING / LAGER	33215A	_
91	95.810.032	0	PERO TESNE / SPRING / FEDER	PERO 14X9X60	2
1.1	95.825.001	0	POUZDRO UPINACI / FIXING SLEEVE / SPANNHÜLSE	KTR210- 80x120	_
8	95.830.047	0	GUFERO / GIT SEAL / DICHTUNG	GUFERO 95X120X12	_
6	95.850.015	0	MATICE KM / KM NUT / KM-MUTTER	MATICE KM15	_
20	95.855.016	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	POJISTNA PODLOŽKA MBIS	_
21	95.860.001	0	HLAVICE MAZACI / HEAD / KOPF	KM5	_
22	99.003.022	0	PREVODOVKA KUZELOCEL / CONICAL TRANSMISSION / KEGELRADGETRIEBE	MBH100C PAM112	

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. Svěrák / Schraubstock / Vice





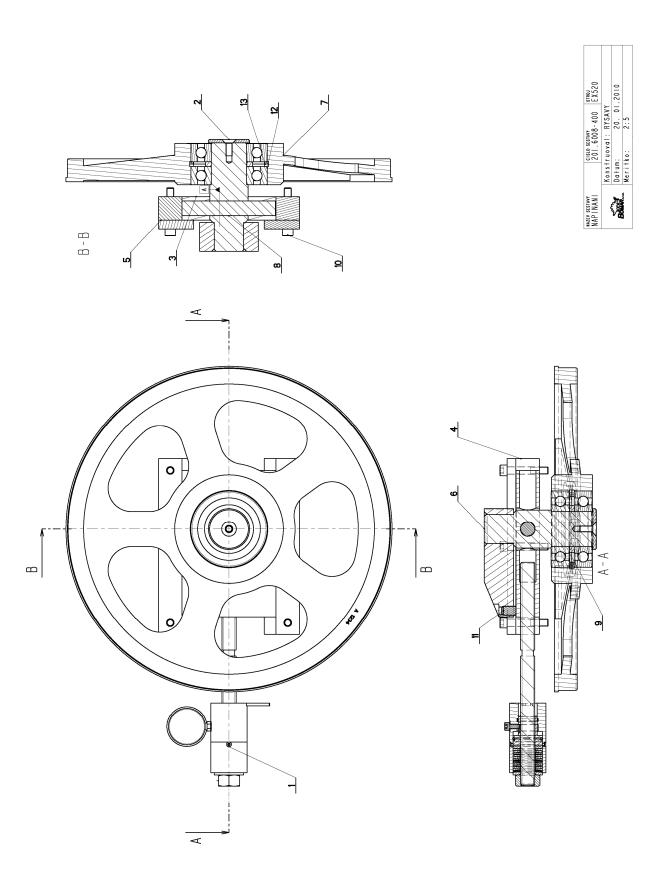
7.14. Kusovník / Stückliste / Piece list – Svěrák / Schraubstock / Vice

C1810 201	Cisto Sestavy 201,6003-550	Ver.	Nazev sestavy SVERAK/VICE/SCHRAUBSTOCK		
P o z .	Objednaci cislo	Ver.	Nazer polozky	Rozmer	Кs
_	201.6007-500	_	VALEC SVERAKU / VICE CYLINDER / SCHRAUBSTOCKZYLINDER		
2	30.6003-409	4	PODSTAVEC SVERAKU / VICE BASE / SCHRAUBSTOCKUNTERSATZ		
3	30.6003-551	0	LISTA SVERAKU / VICE TRIM / SCHRAUBSTOCKLEISTE	HR 82x27	2
4	30.6003-552	0	KLUZAK / GLIDER / GLEITER	HR 130x50	
5	30.6103-001	8	CELIST PEVNA / SOLID JAW / FESTE BACKE		_
9	30.6103-005	0	DRZAK / HOLDER / HALTER	HR 30x20	_
7	30.6103-102	3	CELIST POHYBLIVA / MOVING JAW / BEWEGLICHE BACKE		
8	30.6103-108	-	KONZOLA / CONSOLE / KONSOLE		
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	8_
Ξ	90.001.25.054	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M10X60	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	5
1 4	90.001.25.074	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MI6X45	91
1.5	90.005.55.025	0	SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE	SROUB MI0X30	
91	90.100.55.006	0	MATICE / NUT / MUTTER	MATICE _ MI0	_
1.7	90.150.50.007	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 13	

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



7.15. Napínání / Spannung / Tensioning





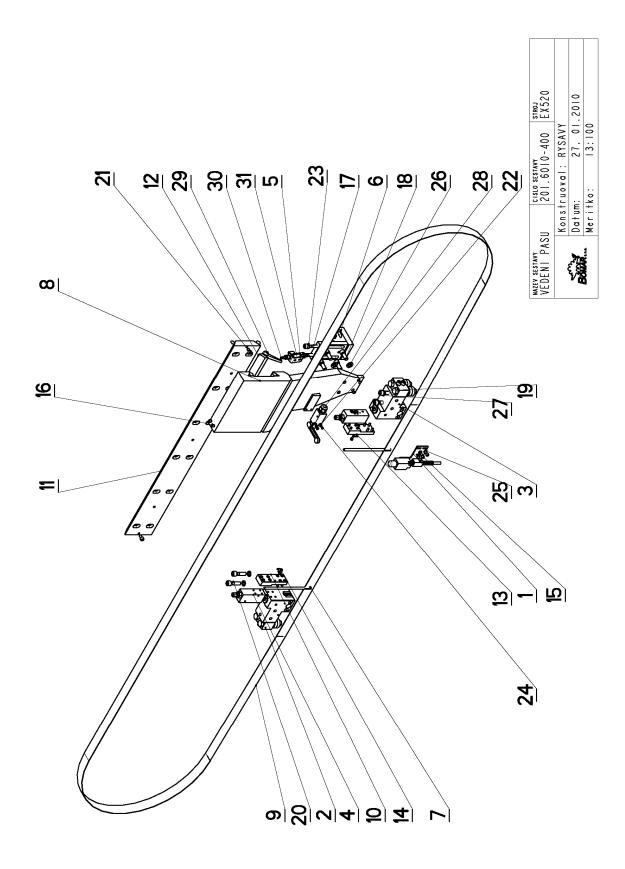
7.16. Kusovník / Stückliste / Piece list – Napínání / Spannung / Tensioning

Poz. Objednaci cislo Ver. Nozev polozky Rozmer 1 201.6107-350 2 VALEC / ROLLER / ZYLINDER SESTAVA 2 30.1804-010 0 PODLOZKA / WASHER / UNTERLEGSCHE BE d 70 3 30.6008-001 0 KOSTRA NAPINANI / TENSIONING CUBE / BANDSPANUNGSWÜRFEL d 70 4 30.6008-002 0 LISTA VODICI / LEAD TRIM / FÜHRUNGSLEISTE HR 40x40 5 30.6008-003 0 LISTA VODICI / LEAD TRIM / FÜHRUNGSLEISTE HR 60x15 6 30.6008-004 1 NAPINANI / TENSIONING / SPANNUNG HR 60x15 7 30.6008-006 5 KOLO NAPINAAL / TENSIONING WHEEL / UMENKRAD HR 60x15 8 30.6008-014 1 CEP NAPINAMI / TENSIONING WHEEL / UMENKRAD A 25 hG 9 30.6708-002 1 KROUZEK DISTANCH / DISTANCE RING / DISTANZRING HR 60x15 10 90.002, 20, 028 0 LISKO / BEARING / LAGER 11 90.002, 20, 028 0 LOZISKO / BEARING / LAGER 13 95.801, 025 0 KROUZEK POJIST-WIT	Cislo 201.	Cisto Sestary 201. 6008-400	, - Yer	Nazev sestovy Napinani/Tensioning/Spannung		
Objednaci cislo Ver. Nazev polozky 201.6107-350 2 VALEC / ROLLER / ZYLINDER 30.1804-010 0 PODLOZKA / WASHER / UNTERLEGSCHE BE 30.6008-001 0 KOSTKA NAPINANI / TENSIONING CUBE / BANDSPANNUNGSWÜRFEL 30.6008-002 0 LISTA VODICI / LEAD TRIM / FÜHRUNGSLEISTE 30.6008-004 1 INAPINANI / TENSIONING / SPANNUNG 30.6008-004 1 NAPINANI / TENSIONING WHEEL / UMLENKAD 30.6008-014 1 CEP NAPINACI / TENSIONING WHEEL / UMLENKAD 30.6008-02 1 KROUZEK DISTANCNI / DISTANCRI RING / DISTANZRING 90.001.25.064 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.002.2D.028 0 SROUB STANCCI / ADJUSTWENT BOLT / STELLSCHRAUBE 95.001.041 0 LOZISKO / BERRING / LAGER 95.001.042 0 KROUZEK POJIST.VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN						
201.6107-350 2 VALEC / ROLLER / ZYLINDER 30.1804-010 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE 30.6008-001 0 KOSTKA NAPINANI / TENSIONING CUBE / BANDSPANNUNGSWÜRFEL 30.6008-002 0 LISTA VODICI / LEAD TRIM / FÜHRUNGSLEISTE 30.6008-003 0 LISTA VODICI / LEAD TRIM / FÜHRUNGSLEISTE 30.6008-004 1 NAPINANI / TENSIONING WHEEL / UMLENKRAD 30.6008-005 5 KOLO NAPINACI / TENSIONING WHEEL / UMLENKRAD 30.6008-014 1 CEP NAPINANI / TENSIONING LUG / SPANNUNGSBOLZN 30.6008-02 1 KROUZEK DISTANCN I / DISTANCE RING / DISTANZRING 30.6008-02 1 KROUZEK DISTANCN I / DISTANCE RING / STELLSCHRAUBE 30.0002-22D.028 0 SROUB STAVECI / ADJUSTWENT BOLT / STELLSCHRAUBE 2 95.001.041 0 KROUZEK POLIST. VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	Poz.	Objednaci cisto	Ver.	Nazer polozky	Rozmer	ž
30.1804-010 0 PODLOZKA / WASHER / UNTERLEGSCHEIBE 30.6008-001 0 KOSTKA NAPINANI / TENSIONING CUBE / BANDSPANNUNGSWÜFFEL 30.6008-002 0 LISTA VODICI / LEAD TRIM / FÜHRUNGSLEISTE 30.6008-003 0 LISTA VODICI / LEAD TRIM / FÜHRUNGSLEISTE 30.6008-004 1 NAPINANI / TENSIONING WHEEL / UMLENKRAD 30.6008-004 1 NAPINANI / TENSIONING WHEEL / UMLENKRAD 30.6008-004 1 CEP NAPINANI / TENSIONING WHEEL / UMLENKRAD 30.6008-004 1 CEP NAPINANI / TENSIONING WHEEL / UMLENKRAD 30.6008-002 1 KROUZEK DISTANCH / DISTANCE RING / INBUSSCHRAUBE 0 90.001.25.064 0 SROUB STAVECI / ADJUSTWENT BOLT / STELLSCHRAUBE 1 90.002.2D.028 0 LOZISKO / BEARING / LAGER 2 95.001.041 0 KROUZEK POJIST. VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	_	201,6107-350	~		SESTAVA	_
30.6008-001 0 KOSTKA NAPINANI / TENSIONING CUBE / BANDSPANNUNGSWÜRFEL 30.6008-002 0 LISTA YODICI / LEAD TRIM / FÜHRUNGSLEISTE 30.6008-003 0 LISTA YODICI / LEAD TRIM / FÜHRUNGSLEISTE 30.6008-004 1 NAPINANI / TENSIONING YEEL / UNLENKRAD 30.6008-014 5 KOLO NAPINACI / TENSIONING WHEEL / UNLENKRAD 30.6008-014 1 CEP NAPINANI / TENSIONING WHEEL / UNLENKRAD 30.6008-02 1 KROUZEK DISTANCH / DISTANCE RING / DISTANZRING 9 1 KROUZEK DISTANCH / ADJUSTWENT BOLT / INBUSSCHRAUBE 1 90.002.2D.028 0 SROUB STAVECI / ADJUSTWENT BOLT / STELLSCHRAUBE 2 95.001.041 0 LOZISKO / BEARING / LAGER 3 95.801.025 0 KROUZEK POJIST.YNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	2	30.1804-010	0		0 J D	_
30.6008-002 0 LISTA VODICI / LEAD TRIM / FÜHRUNGSLEISTE 30.6008-003 0 LISTA VODICI / LEAD TRIM / FÜHRUNGSLEISTE 30.6008-004 1 NAPINANI / TENSIONING YEELSTE 30.6008-006 5 KOLO NAPINACI / TENSIONING WHEEL / UMLENKRAD 30.6008-014 1 CEP NAPINANI / TENSIONING WHEEL / UMLENKRAD 30.6008-02 1 KROUZEK DISTANCNI / DISTANCE RING / DISTANZRING 90.001.25.064 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 1 90.002.2D.028 0 SROUB STAVECI / ADJUSTWENT BOLT / STELLSCHRAUBE 2 95.001.041 0 LOZISKO / BEARING / LAGER 3 95.801.025 0 KROUZEK POJIST. VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	m	30.6008-001	0	NI / TENSIONING CUBE / BANDSPANNUNGSWÜRFEL	HR 160×40	_
30.6008-003 0 LISTA VODICI / LEAD TRIM / FÜHRUNGSLEISTE 30.6008-004 1 NAPINANI / TENSIONING / SPANNUNG 30.6008-006 5 KOLO NAPINANI / TENSIONING WHEEL / UMLENKRAD 30.6008-014 1 CEP NAPINANI / TENSIONING LUG / SPANNUNGSBOLZEN 30.6008-014 1 CEP NAPINANI / TENSIONING LUG / SPANNUNGSBOLZEN 9 30.6108-014 1 KROUZEK DISTANCNI / DISTANCR RING / DISTANCR 1 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 1 SROUB STAVECI / ADJUSTMENT BOLT / STELLSCHRAUBE 2 95.001.041 0 LOZISKO / BEARING / LAGER 3 55.001.041 0 KROUZEK POJIST. VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	4	30.6008-002	0	/ LEAD TRIM / FÜHRUNGSLEISTE	HR 40x40	2
30.6008-004 I NAPINANI / TENSIONING / SPANNUNG 30.6008-006 5 KOLO NAPINACI / TENSIONING WHEEL / UMLENKRAD 30.6008-014 I CEP NAPINANI / TENSIONING LUG / SPANNUNGSBOLZEN 30.6008-014 I KROUZEK DISTANCH / DISTANCE RING / DISTANZEN 90.001.25.064 0 SROUB IMBUS / ALLEN HEAD BOLT / IMDUSSCHRAUBE I 90.002.2D.028 0 SROUB STAVEC! / ADJUSTMENT BOLT / STELLSCHRAUBE 2 95.001.041 0 LOZISKO / BEARING / LAGER 3 95.801.025 0 KROUZEK POJIST. VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	ς,	30.6008-003	0	/ LEAD TRIM / FUHRUNGSLEISTE	HR 60x15	2
30.6008-006 5 KOLO NAPINACI / TENSIONING WHEEL / UMLENKRAD 30.6008-014 1 CEP NAPINANI / TENSIONING LUG / SPANUNGSBOLZEN 30.6008-014 1 KROUZEK DISTANCNI / DISTANCE RING / DISTANZRING 0 90.001.25.064 0 SROUB IMBUS / ALLEN HEAD BOLT / INBUSSCHRAUBE 1 90.002.2D.028 0 SROUB STAVECI / ADJUSTNENT BOLT / STELLSCHRAUBE 2 95.001.041 0 LOZISKO / BEARING / LAGER 3 95.801.025 0 KROUZEK POJIST. VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	s	30.6008-004	_	NAPINANI / TENSIONING / SPANNUNG		_
30.6008-014 1 CEP NAPINANI / TENSIONING LUG / SPANNUNGSBOLZEN 30.6708-002 1 KROUZEK DISTANCHI / DISTANCE RING / DISTANZRING 0 90.001.25.064 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 1 90.002.2D.028 0 SROUB STAVECI / ADJUSTNENT BOLT / STELLSCHRAUBE 2 95.001.041 0 LOZISKO / BEARING / LAGER 3 95.801.025 0 KROUZEK POJIST. VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	ŕ	30.6008-006	Z.	KOLO NAPINACI / TENSIONING WHEEL / UMLENKRAD		_
30. 6708-002 1 KROUZEK DISTANCHI / DISTANCE RING / DISTANZRING 90. 001. 25. 064 0 SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90. 002. 2D. 028 0 SROUB STAVECI / ADJUSTMENT BOLT / STELLSCHRAUBE 95. 001. 041 0 LOZISKO / BEARING / LAGER 95. 801. 025 0 KROUZEK POJIST, VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	80	30.6008-014	_	/ TENSIONING LUG / SPANNUNGSBOLZEN	d 25 h6	_
90.001.25.064 0 SROUB IMPUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE 90.002.20.028 0 SROUB STAVECI / ADJUSTMENT BOLT / STELLSCHRAUBE 95.001.041 0 LOZISKO / BEARING / LAGER 95.801.025 0 KROUZEK POJIST.VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	6	30.6708-002	_	ICNI / DISTANCE RING / DISTANZRING	TRUBKA 82.5x12.5	_
90.002.2D.028 0 SROUB STAVECI / ADJUSTMENT BOLT / STELLSCHRAUBE 95.001.041 0 LOZISKO / BEARING / LAGER 95.801.025 0 KROUZEK POJIST. VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	0	90.001.25.064	0	/ ALLEN HEAD BOLT / INBUSSCHRAUBE	M12X70	9
95.001.041 0 LOZISKO / BEARING / LAGER 95.801.025 0 KROUZEK POJIST. VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	=	90.002.20.028	0	/ ADJUSTWENT BOLT / STELLSCHRAUBE	SROUB MI6x1,5x25	_
95.801.025 0 KROUZEK POJIST.VNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	12	95.001.041	0		6312A	2
	e-	95.801.025	٥	YNITR / INSIDE SAFETY RING / SICHERUNGSRING INNEN	POJISTNY KROUZEK 130	2

I.ZRUSEN SROUB 30.6108-018. 067/ZM072 14.3.2008 SLEZACKOVA



7.17. Vedení pásu / Sägebandführung / Belt guide



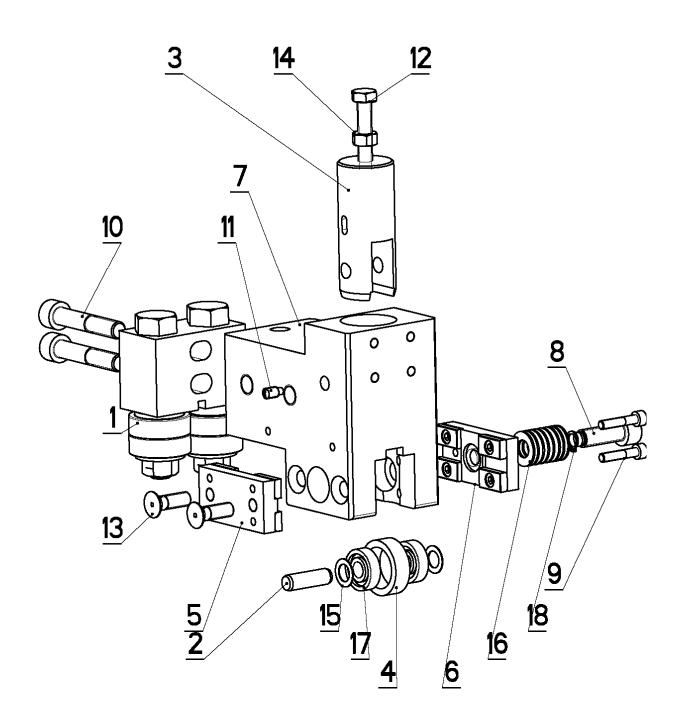


7.18. Kusovník / Stückliste / Piece list – Vedení pásu / Sägebandführung / Belt guide

		ļ			
cisto 201.	Cisto Sestary 201.6010-400	Уег. З	NG26" 36340") VEDENI PASU/BELT GUIDE/SĀGEBANDFÜHRUNG		
Poz.	Objednaci cislo	Ver.	Nozev polozky	Rozmer	ž
_	201.6110-020	_	DORAZ / STOP PIECE / ANSCHLAG		_
2	201.6110-550	m	KOSTKA VODICI / LEAD CUBE / FÜHRUNGSKLOTZ		_
m	201,6110-610	m	KOSTKA VODICI / LEAD CUBE / FÜHRUNGSKLOTZ		_
4	201.6816-100	0	KOSTKA REGULACE / REGULATION CUBE / REGELUNGSWÜRFEL		2
ις.	30.1814-011	0	DRZAK / HOLDER / HALTER	р 3- 76	_
ي	30.6010-135	0	DRZAK / HOLDER / HALTER		_
-	30.6010-315	0	TRUBKA / TUBE / ROHR	TR 8x I	2
∞	30.6010-401	_	DRZAK / HOLDER / HALTER		_
g,	30.6010-408	_	PAS PILOVY / SAW BELT / SÅGEBAND	41x1,3	_
01	30.6016-002	0	DESKA / BOARD / PLATTE	HR 40x20	2
=	30.6110-002	_	LISTA / TRIM / LEISTE	TYC 120x25	_
2	30.6110-004	2	LISTA TREC! / FRICTION TRIM / FRIKTIONSLEISTE	TYC 35x12	_
-3	30.9010-003	0	DRZAK / HOLDER / HALTER	P1.5x10	2
7	90.001.25.009	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M5X16	2
15	90.001.25.017	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MEXIS	3
9	90.001.25.018	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M6X20	18
<u>~</u>	90.001.25.052	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MIOX50	7
∞_	90.001.25.058	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M12X30	4
5	90.001.25.060	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MIZX40	7
50	90.001.25.061	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M12X45	2
21	90.001.55.082	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M8X14	2
22	90.012.50.007	0	SROUB / BOLT / SCHRAUBE	SROUB M4X30	2
23	90.100.55.006	0	MATICE / NUT / MUTTER	MATICE _ MIO	2
24	90.150.50.002	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 4,3	2
52	90.150.50.004	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 6,4	m
56	90.150.50.007	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 13	4
12	90,163,00,003	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	NORD-LOCK	4
28	91.173.018	0	SPINAC KONCOVY / END SWITCH / ENDSCHALTER	PZ-FR55-M2	_
29	94.008.003	0	PAKA UPINACI / ATTACHWENT LEVER / SPANNHEBEL	M8x40	2
30	94.202.002	0	DAPTOR / REDUKTION	GES 6/R1/4"	2
<u>چ</u>	99.260.003	0	VENTIL / VALVE / VENTIL	1/4"	_



7.19. Vodící kostka / Führungsklotz / Guiding cube - 1



NAZEV SESTAVY KOSTKA VOD	ICI	CISLO SESTAVY 201.6110-550	stroj N440
	Konst	ruoval: HLADII	L
500	Datum	n: 27. 0	1.2010
DOMAK	Merit	ko: 3:5	

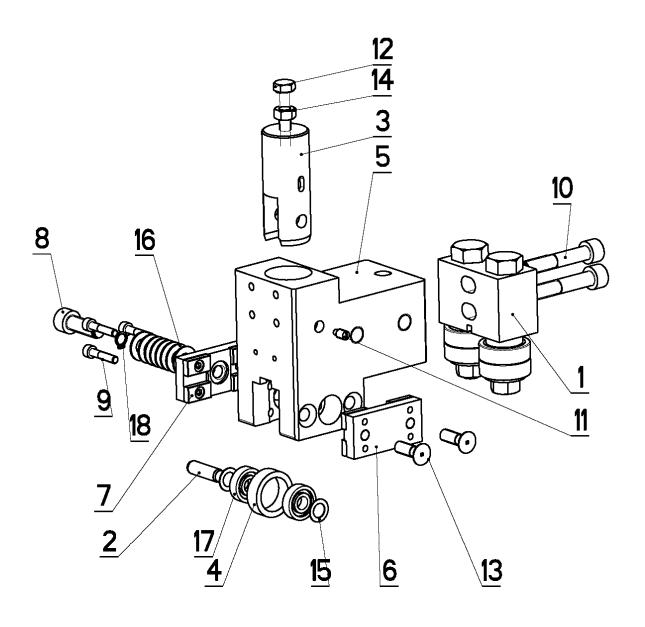


7.20. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 1

Cisto Sestavy 201.6110-550	10-550	¥er.	NO26* 36346", KOSTKA VODICI/LEAD CUBE/FÜHRUNGSKLOTZ		
Poz. Obj	Objednaci cisto	Ver.	Nazev polozky	Rozmer	ž
1 201	201,6110-510	0	VEDENI / GUIDE / BACKENFÜHRUNG		_
2 30.	30.6710-108	_	KOTIK / PIN / BOLZEN	TYC 10	_
3 30.	30,6710-109	0	PIST / PISTON / KOLBEN	d 32	_
4 30.	30.6710-110	_	KROUZEK / RING / RING	LH 2403210	_
5 30.	30. 4410-110	0	DRZAK TVRDOKOVU / POA HOLDER / HM-HALTER		_
6 30.	30.7410-120	0	DRZAK TYRDOKOVU / POA HOLDER / HM-HALTER		_
7 30.	30. 4410-201	_	KOSTKA VODICI LEVA / LEAD CUBE / FÜHRUNGSKLOTZ	HR 110x70	_
30.	30.Y610-503	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MIDX30	_
90.	90.001.25.011	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M5X25	m
.06 01	90.001.25.053	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MI0X55	2
11 90.	90.004.2D.002	0	SROUB STAVEC! / ADJUSTMENT BOLT / STELLSCHRAUBE	SROUB M6X12	_
12 90.	90.005.55.019	0	SROUB GHRAMNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE	SROUB M8X40	_
13 90.	90.011.27.016	0	SROUB ZAPUSTNY / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB M8X25	2
14 90.	90,100,55,005	0	MATICE / NUT / MUTTER	MATICE _ M8	_
15 90.	90.154.50.003	0	PODLOZNA / WASHER / UNTERLEGSCHEIBE	10x16x0.50	2
16 90.	90.350.0Z.005	0	PRUZINA TALIROVA / DISC SPRING / TELLERFEDER	20X10.2X1.1	\$
17 95.	95.001.044	0	LOZISKO / BEARING / LAGER	609 2RS	2
18 95.	95.800.002	0	KROUZEK POJIST.VNEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUßEN	POJISTNY KROUZEK 8	_



7.21. Vodící kostka / Führungsklotz / Guiding cube - 2



NAZEV SESTAVY KOSTKA VOD	ICI	CISLO SESTAV	-	STROJ EX520
_	Konst	ruoval:	HLADIL	
200	Datum	1;	27. 01	.2010
EJUNIAH 1.1.	Merit	ko:	1:2	

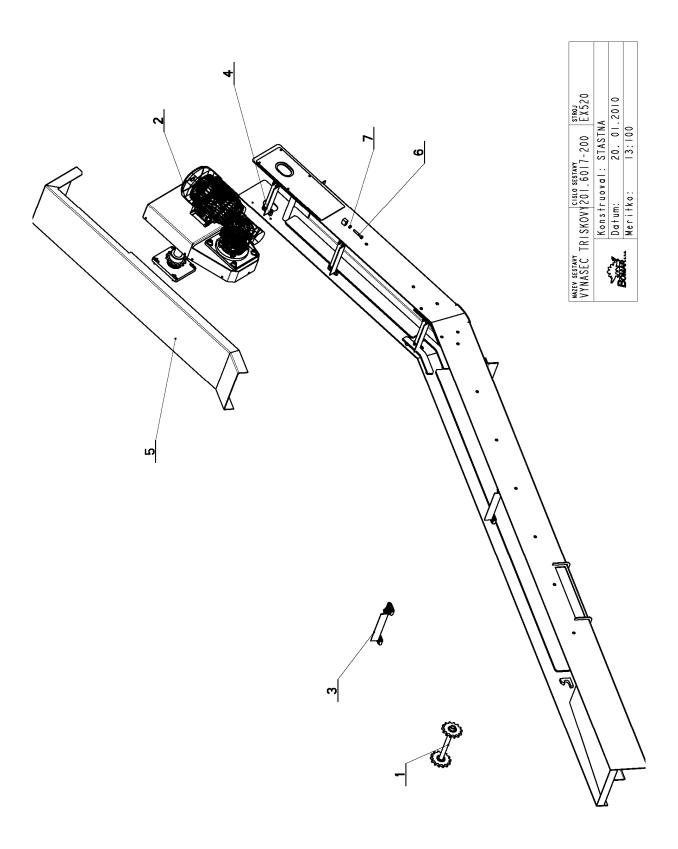


7.22. Kusovník / Stückliste / Piece list – Vodící kostka / Führungsklotz / Guiding cube - 2

Cisto Sestary 201. 6110-610	عور.	NO26" 36310") KOSTKA VODICI/LEAD CUBE/FÜHRUNGSKLOTZ		
Poz. Objednaci cisto	Ver.	Nozev polozky	Rozmer	ž
1 201,6110-510	0	VEDENI / GUIDE / BACKENFÜHRUNG		_
2 30,6710-108	_	KOLIK / PIN / BOLZEN	TYC 10	_
3 30,6710-109	0	PIST / PISTON / KOLBEN	d 32	
4 30.6710-110	_	KROUZEK / RING / RING	LH 2403210	_
5 30, 4410-101	_	KOSTKA VODICI / LEAD CUBE / FÜHRUNGSKLOTZ	HR 110x70	_
6 30. 7410-110	0	DRZAK TYRDOKOVU / POA HOLDER / HM-HALTER		
7 30. 4410-120	0	DRZAK TVRDOKOVU / POA HOLDER / HM-HALTER		
8 30, Y610-503	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MIDX30	
9 90.001.25.011	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M5X25	e
10 90.001.25.053	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MIOX55	2
11 90.004.2D.002	0	SROUB STAYEC! / ADJUSTMENT BOLT / STELLSCHRAUBE	SROUB M6X12	_
12 90.005.55.019	0	SROUB GHRANNY / 6 SIDED BOLT / SECHSKANTSCHRAUBE	SROUB M8X40	_
13 90.011.27.016	٥	SROUB ZAPUSTNY / COUNTERSINK BOLT / SENKSCHRAUBE	SROUB M8X25	2
14 90,100,55,005	0	MATICE / NUT / MUTTER	MATICE _ M8	_
15 90.154.50.003	0	PODLOZNA / WASHER / UNTERLEGSCHEIBE	10x16x0.50	2
16 90.350.02.005	0	PRUZINA TALIROVA / DISC SPRING / TELLERFEDER	20X10.2X1.1	
17 95.001.044	0	LOZISKO / BEARING / LAGER	609 2RS	2
18 95.800.002	0	KROUZEK POJIST.VNEJS / OUTSIDE SAFETY RING / SICHERUNGSRING AUßEN	POJISTNY KROUZEK 8	



7.23. Třískový vynašeč / Spanabführung / Chip extractor



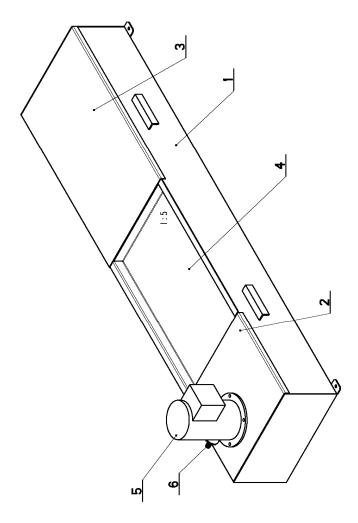


7.24. Kusovník / Stückliste / Piece list – Třískový vynašeč / Spanabführung / Chip extractor

Cislo Sestary 201, 6017-200	Ver.	Nozev sestovy VYNASEC TRISKOVY/CHIP EXTRACTOR/SPANABFÜHRUNG		
Poz. Objednaci cislo	Ver.	Ver. Nozev polozky	Rozmer	ŝ
1 201.6017-103	0	KOLO NAPINACI / TENSIONING WHEEL / UMLENKRAD		_
2 201.6017-250	_	POHON / DRIVE / ANTRIEB		_
3 201,6717-304	_	RETEZ / CHAIN / KETTE		8
4 30.6017-301	0	KORYTO / CHANNEL / RINNE		_
5 30.6117-103	~	KRYT / COVER / ABDECKUNG		_
6 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



7.25. Chlazení / Kühlung / Cooling





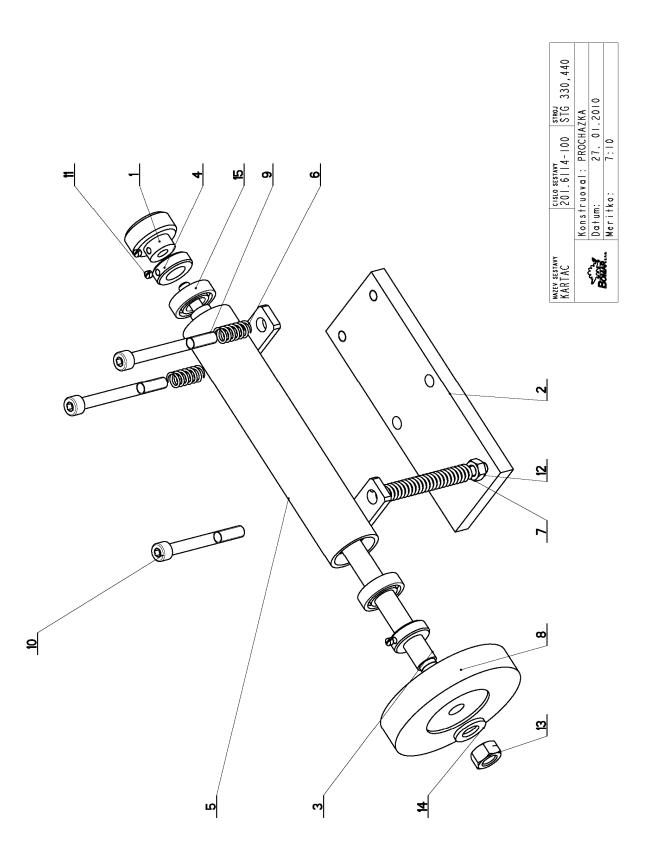


7.26. Kusovník / Stückliste / Piece list – Chlazení / Kühlung / Cooling

Cislo 201.	Cisto Sestary 201.6106-000	- × -	Ver. Nazew sestowy I CHLAZENI/COOLING/KÜHLUNG		
		-			
Poz.	Poz. Objednaci cisto	Ver.	Ver. Nazev polozky R	Rozmer	Кs
_	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	_
S	91.020.XXX	0	CERPADLO CHLAZENI / COOLING PUMP / KÜHLMITTELPUMPE	3 COA 4-14	_
ø	94.202.014	0	REDUKCE / REDUCTION / ADAPTOR / REDUKTION	3/4"-10	_



7.27. Kartáč / Bürste / Brush





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

Cislo Sestovy 201.6114-100	۷۹. 0	Nozev sestovy KARTAC/BRUSH/BÜRSTE		
Poz. Objednaci cisto	Ver.	Nozev polozky	Rozmer	ž
1 30.0814-204	0	KOLECKO / WHEEL / ROLLE	SESTAVA	_
2 30.6114-105	0	DESKA / BOARD / PLATTE	HR.70x12	_
3 30,6114-116	0	HRIDEL / SHAFT / WELLE	D 15	_
4 30.6114-119	_	KROUZEK / RING / RING	d 28	2
5 30.6114-128	0	DRZAK / HOLDER / HALTER		_
6 31,1506-115	٥	PRUZINA / SPRING / FEDER	1.6x12x25x7.5	2
7 31.2107-206	0	PRUZINA / SPRING / FEDER		_
8 49.250.017	0	KARTAC / BRUSH / BÜRSTE	SPB 100x12	_
9 90.001.25.067	0	SROUB IMBUS / ALLEM HEAD BOLT / IMBUSSCHRAUBE	M8X80	2
10 90.001.25.095	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MBX70	_
11 90.003.2D.001	0	SROUB STAVECI / ADJUSTMENT BOLT / STELLSCHRAUBE	SROUB M5x6	æ
12 90.100.55.005	0	MATICE / NUT / MUTTER	MATICE _ M8	_
13 90.100.55.007	0	MATICE / NUT / MUTTER	MATICE _ MI2	_
14 90,150,50,007	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 13	_
15 95.001.006	0	LOZISKO / BEARING / LAGER	6002 2RS	2



7.29. Odměřování / Gehrungmessung / Measuring

Poz. Objednoci cislo Ver.	ODMEROVAÑI/MEASURING/GEHRUNGSMESSUNG		
30.2014-001 0	Nozes polozky	Rozmer	ž
	OBJIMKA / CLAMP / KLAMWERSTÜCK		_
2 30.6114-021 0	TYC / POLE / STANGE	d 20	_
3 30,6114-023 0	DRZAK / HOLDER / HALTER	P 3x20	2
4 90.001.25.092 0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	M6XI4	4
94.007.001	SROUB / BOLT / SCHRAUBE	M5x10	_
99.120.002	PRAVITKO / RULER / SKALENBANDMAB	•	_
		20 2 E	



7.30. Rošt / Gitter / Grill

0	Cisto Sestavy	Ver.	Nazev sestavy		
-	18-400	_			
- 0	Objednaci cisto	Ver.	Nozer polozky	Rozmer	ξs
m	30,6018-401	0	DRZAK / HOLDER / HALTER		_
ا <u>سر</u> ا	30.6018-402	_	ROST / GRILL / GITTER		_
3	30,6018-403	0	PODLOZNA / WASHER / UNTERLEGSCHEIBE	HR 70 x 12	2
5	90.001.25.086	0	SROUB IMBUS / ALLEN HEAD BOLT / IMBUSSCHRAUBE	MI6X40	4
ऊ ∣	90.150.50.009	0	PODLOZKA / WASHER / UNTERLEGSCHEIBE	PODLOZKA 17	4
	W 4				
) }		