Silver line

Manual

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Index

ROBLAND

EG Conformiteitsverklaring - EG Konformitätserklärung
EC Declaration of Conformity - Déclaration de Conformité CE

Geachte Klant - Sehr Geehrter Kunde - Dear Customer - Cher Client,
Gelieve hieronder onze CE-homologatienummers te willen vinden voor onze houtbewerkingsmachines
Bitte finden Sie anbei unsere CE-Homologationsnummern für unsere Holzbearbeitungsmaschinen
Please find herewith our CE-homologation numbers for our woodworking machines
Nous prions de trouver ci-après nos numéros d'homologation CE nos machines pour le travail du bois

Wij, wir, we, nous

NV WERKHUIZEN LANDUYT
Kolvestraat 44
8000 BRUGGE - BELGIE

verklaren hierbij dat de bouwwijze van de machines - erklären dass die Bauart der Maschines - herewith declare that the construction of the machines - certifions par la présente que la fabrication des machines

ROBLAND panelsaw PS Silverline
voldoen aan de volgende richtlijnen / folgende Bestimmungen entsprichen / comply with the following relevant regulations / sont conformes aux Normes suivantes:
Machine Directive 2006/42/EG - EMC Directive 2004/108/EG - EN 13857 / EN 13850 / EN 60204 part 1/ EN1870-1
Type examination was carried out by the following approved body / Die Baumusterprüfung wurde von folgender Stelle durchgeführt / Le modèle a été examiné par l'organisme suivant / Het typeonderzoek werd door volgende instelling uitgevoerd:

AIB-Vinçotte International
Bollebergen 2/B
B-9052 Zwijnaarde
België

	Serie
PS 3200 Silverline X3 formaatzaag / scie à format / Tischkreissäge / sliding table saw	0101012013-2031122013

Nr. CE: Z12-238-142-A

Brugge 17/06/2013

Yves Damman
Aftersales

tevens gemachtigd om technisch dossier samen te stellen
also authorized to establish the technical file
également authorisé d'établir le dossier technique
auch ermächtigt die technische Unterlagen zusammen zu stellen

Important instructions when ordering spare parts

Always mention the following items on your order:

- Type of machine
- Serial number from manual
- Part number and quantity
- Your reference and correct phone and fax number

Attention

Working with woodworking machines can be extremely dangerous if the safety instructions are not followed.
It is recommended you systematically use the safety equipment installed on the machine.

Safety and maintenance instructions

Woodworking with machinery is a pleasant job that will give you a lot of satisfaction. Nevertheless, working with a machine requires constant attention and care. Therefore, for your own safety, pay attention to the instructions summarised in this chapter.

- The machine can only be used safely if the operator strictly follows the operating and safety
- instructions.
- It is absolutely essential to read this manual before using the machine so you know how the machine works and what its limitations are.
- Always make sure that all safety devices are fitted to the machine and that the machine is connected to a dust extraction system.
- Provide sufficient space around the machine and good lighting in the workshop.
- When changing the tools or when doing a maintenance job, the machine must always be disconnected from its power supply.
- Knives and tools which are not correctly sharpened or are in bad condition not only diminish the quality of the work, but also increase the risk of accidents.
- Always wear suitable clothing. Loose or torn clothes are very dangerous.
- Keep children away from the machine and the workshop.
- To avoid damaging your hearing we recommend you wear ear protection when working with the machine.
- When cutting narrow pieces always use a push stick. When damaged, replace the push stick at once.
- When cutting round workpieces, always make sure the workpiece is secured against slipping.
- Always use adapted jigs and templates and saw blades adapted to the work being carried out.
- Carefully read the recommendations for adjusting the brake of the main saw brake motor.
- Make sure all periodic maintenance work is done on time. These maintenance works may only be carried out with the machine disconnected from the main power supply line thus rendering it impossible to start the machine involuntarily.
- Read carefully the instructions for cleaning the machine, clean only with the machine disconnected from it's power supply line.
- Test on a weekly basis the following electrical components: emergency stops buttons, the safety switchs on the saw unit and test if the machine can be started-up with open doors.
- Test on a weekly basis if the run down time of the saw motor brake does not exeed the 10 seconds.
- Please read the noise emmision values in the manual.
- Always wear ear protection when operating the machine.

Handling of tools

Always wear safety gloves when handling saw blades thus avoiding severe injury to the hands. Please bear in mind that even blunt tools can cause serious damage.

Normal and prohibited use

The panelsaw is designed for the following work and is equipped with protective devices for these processes only. It is not designed to work materials such as ferrous or non-ferrous metals, work different from that stated below is prohibited.

– Ripping with the parallel saw fence with/without the sawblade tilted and the fence upright or in the low
– position.
– Right-angled or mitre cuts with the 90° fence mounted to the sliding table with tilted or vertical
– sawblade.
– Cross-cutting workpieces using the adjustable stop on the 90° fence.
– Cutting panels or solid wood on the sliding table.

PROHIBITED USE

Following tasks are prohibited on the panelsaw :
– submerged cuts by removing the riving knife and/or guard;
– all types of cuts without using the table saw fence, the 90° fence or sliding table;
– Cutting large workpieces that exceed the machine capacity without using aids such as roller supports.

REMAINING RISKS

Main risks on the panelsaw are :
– unintentional contact of the hand with the running sawblade;
– workpiece kickback
– tipping of the workpiece due to insufficient support.

NOISE REDUCTION

Main risks on the panelsaw are :
– The type and condition of the sawblade is important in keeping the noise level as low as possible.
– The material and the position of the safety devices are important in reducing the noise level.
– Using the correct speed of the sawblade for the type of material will reduce the noise level as well.
– The above does not negate the fact that extra safety equipment such as ear protection must be used.

Technical Data

Saw	
Diameter saw blade and bore	450 x 30 mm
Diameter saw blade min.	199 mm
Cutting depth at 90° / 45°	150 mm / 108 mm
R.p.m.	3000 / 4000 / 5000
Sawblade tilting	90° - 45°
Cutting width parallel fence	1300 / 1525 mm
Cutting length	3200 (option 3800) mm
Dimensions cast iron table	985 x 710
Dimensions saw table extension	885 x 1125
Dimensions right hand table extension	1000 x 710
Dimensions sliding table	3200 x 420 (option 3800) mm
Dimensions cross-cut table	760 x 1505
Length cross-cut fence	2200 (telescopes/ teleskopisch 3360 mm)
Scoring saw	
Diameter saw blade and bore	125 x 20 mm
Cutting depth with 120 mm diameter blade	3,5 mm
R.p.m.	8200
Scoring saw motor power	0,94 kW (1,3 PS/hp)
Equipment	
Dust suction ports	120 + 80 mm
Mitre cross-cut fence on the cross-cut table	Standard/standard
Mitre fence and woodclamp on sliding table	Standard/standard
Extra support table and fence	Standard/standard
Digital read-out on both flip stops of the fence	Option / option
Roller suppport	Option / option

Electrical connection (Fig.3)

The electrical connection must be carried out by a qualified electrician who is able to calculate exactly the required wire cross-section and capacity of the workshop fuses.
Check that the main voltage of the machine corresponds with the voltage supply to your workshop.
Now open the electrical switch panel and introduce the cable. Connect the 3 phases to the terminals on the connection block marked L1, L2, L3. If there is a neutral conductor (blue) it must be connected to the terminal N.
Connect the earth wire (green-yellow) to the terminal marked with the earth symbol PE.

ATTENTION :

- Check first if the saw spindle runs freely and if all safety devices are fitted before starting the machine.
- If the direction of rotation of the sawblade is not correct, the wires L1 and L2 must be exchanged (clockwise direction of the spindle is correct).
- For safety reasons this must only be done without the sawblade on the spindle !

THERMAL OVERLOADS

The machine has overload protections on both saw and scoring motors. Should the motor be shut-off by one of these protectors, it is necessary to wait a few minutes untill the overload has cooled down.

Mounting of the sliding table (Fig.4)

To obtain a good arrangement and function of the sliding table; it is vital that the machine is put on a right level in both directions, with the help of a level, before putting the sliding table on the machine. All the adjustments and arrangements are done in the factory. Simply put the table onto the frame with the two lateral adjustment bolts (1) into the two lugs of the frame. Be sure that the girder rests well in the height adjustment bolts. Now place the 4 big Allen bolts (3) and tighten well. In order to obtain a good movement of the wood or the sliding table, the sliding table is set near to 2 mm above the sawing table. The parallelism between the principal blade and the sliding table, can be corrected by using 2 bolts. After the adjustment, the 4 bolts need to be tightened well with a Torque wrench with a value of 7 kg. The adjustment in height of the sliding table can be done by using 8 bolts (2) but always with the big bolts closed.

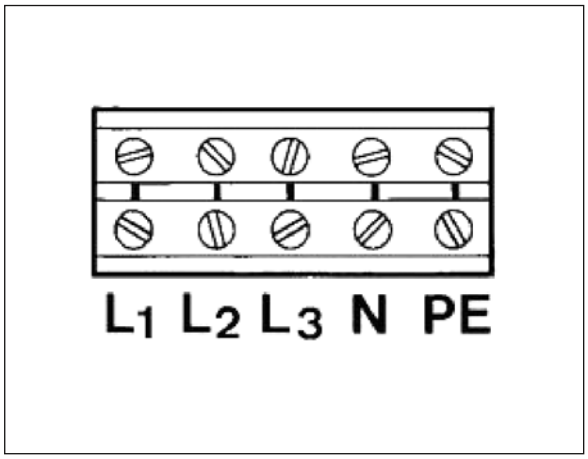


Fig.3

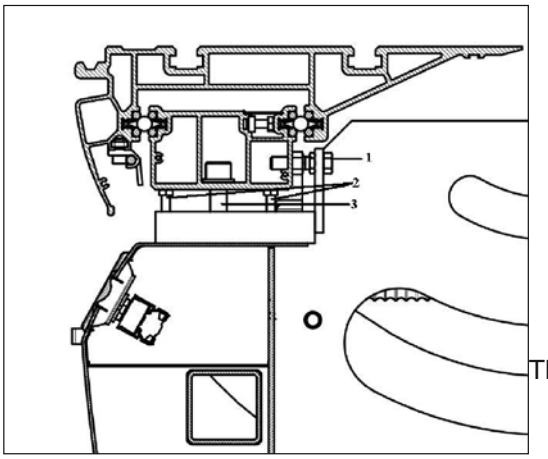


Fig.4

The

Starting up the machine

1. STARTING UP THE MACHINE

Startscreen

Turn the mains on-off switch to “ON”

After the start procedure is completed this screen will appear.

Now push the start button in order to start the reference procedure.

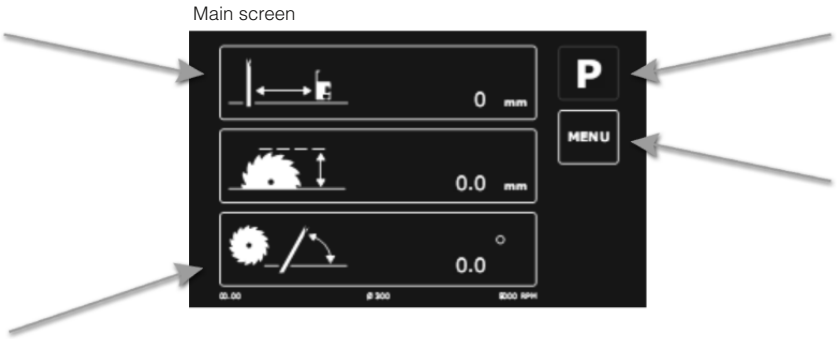
All 3 axis will now start moving to their reference points.
In order to speed-up this procedure, it is best to use the “Park” function at the end of the working day. (see 2.2)

Screen reference

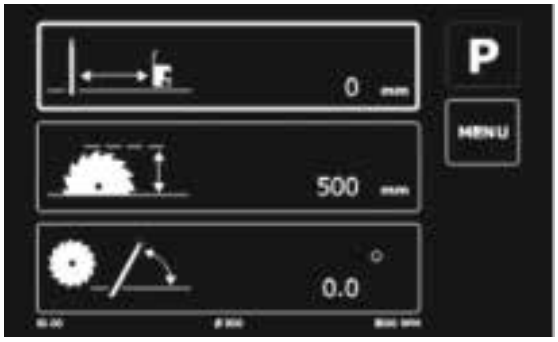
During reference procedure you will see this screen. As soon as one axis has reached the reference point an “V” will occur.

As soon as all 3 axis have reached their reference point, the main screen will appear.

Main screen

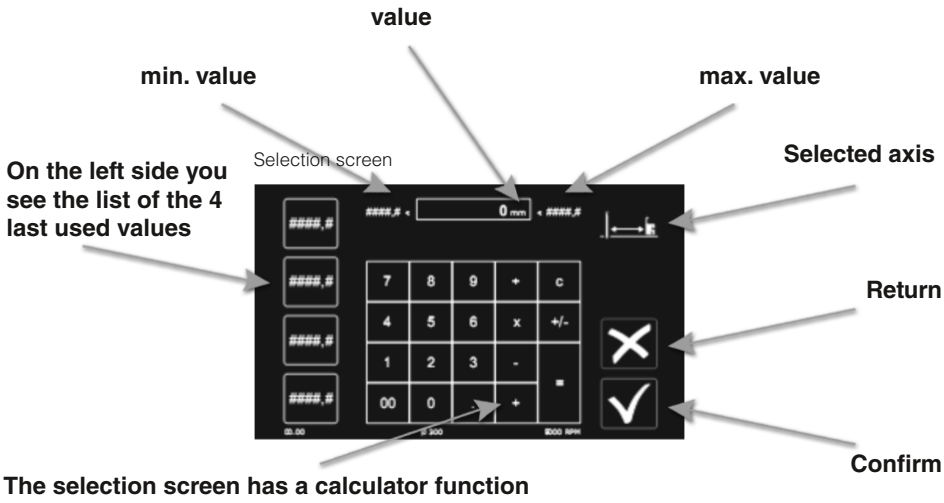


2.1 SETTING AN AXIS

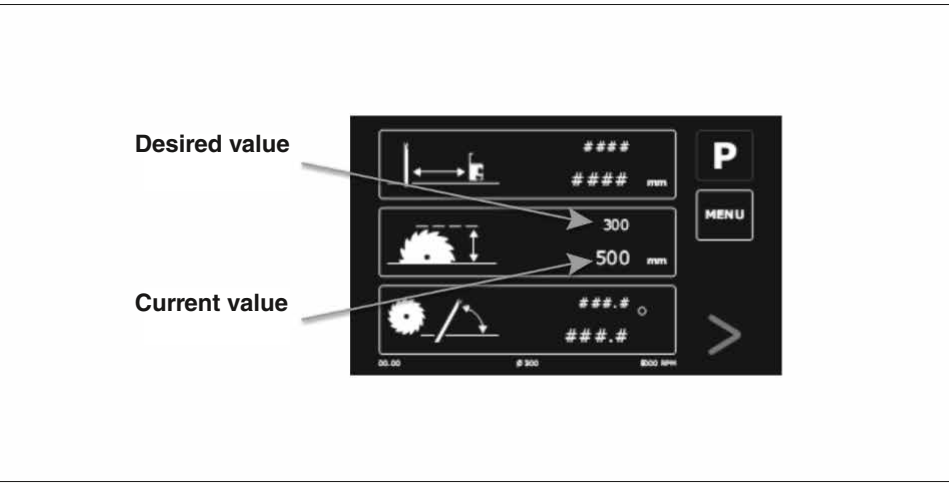


Select an axis by pushing a field.
The frame of the buton lights up in fat as confirmation this buton has been selected.

Each axis has a selection screen.



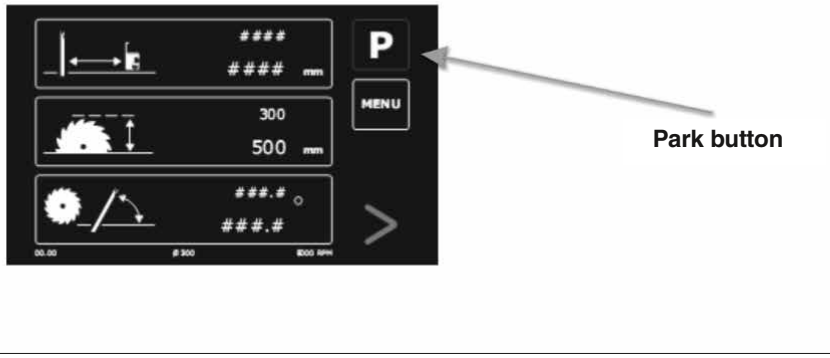
After confirming you get the main screen



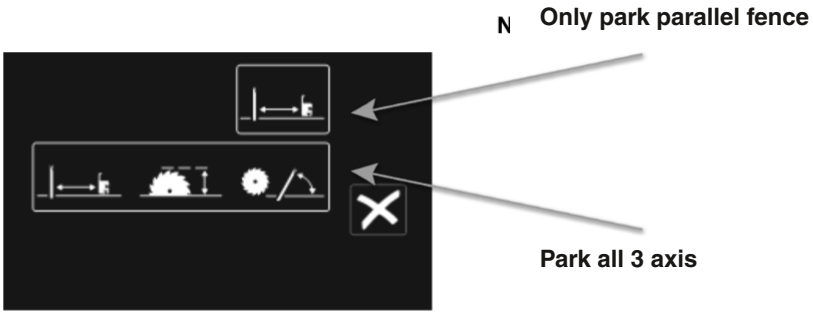
Now you will see an arrow appear and the start buton starts flashing. The axis starts moving as soon as the start button is pushed. The values of one or more axis can be adjusted at the same time.

2.2 PARK POSITION

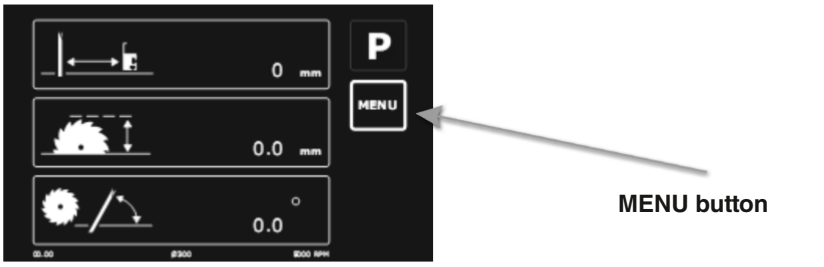
This function enables the quick start-up and reference procedure of the machine.

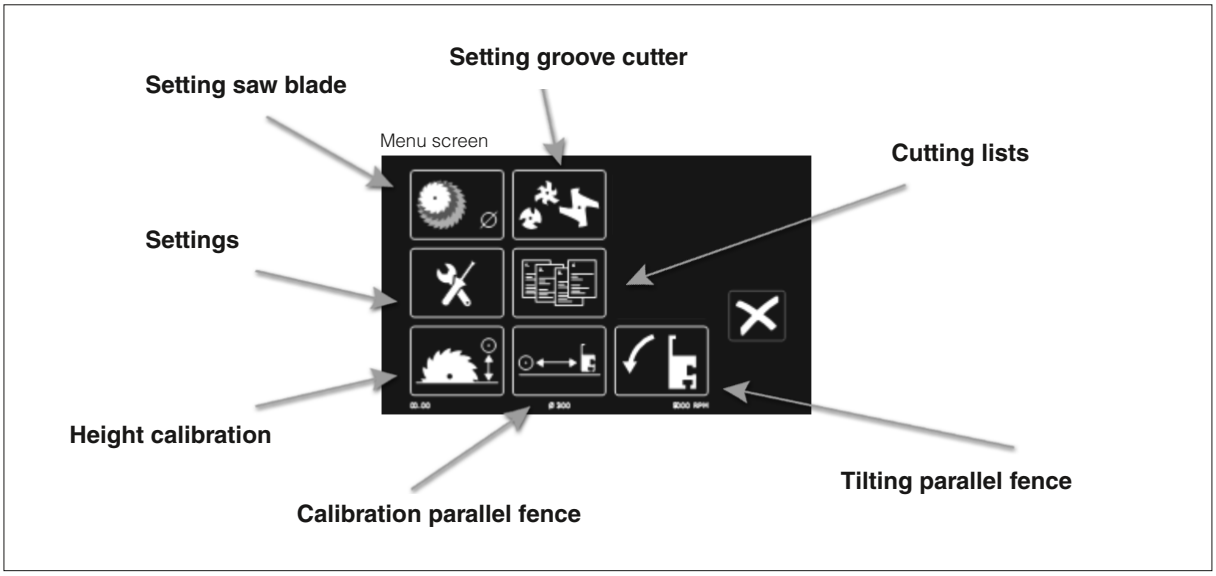


You get the choise between only parallel fence park position or all 3 axis.



3.1 MENU SCREEN



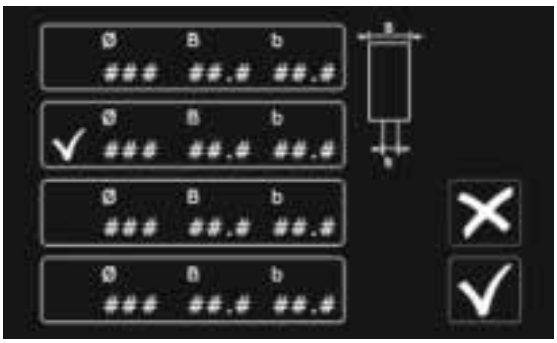


3.1.1 SETTING SAW BLADE

First a warning screen appears.

The fence will be moved away from the saw blade, set the saw blade at 90° and at its maximum height. Then the brake on the saw motor will be released.

Saw blade menu screen

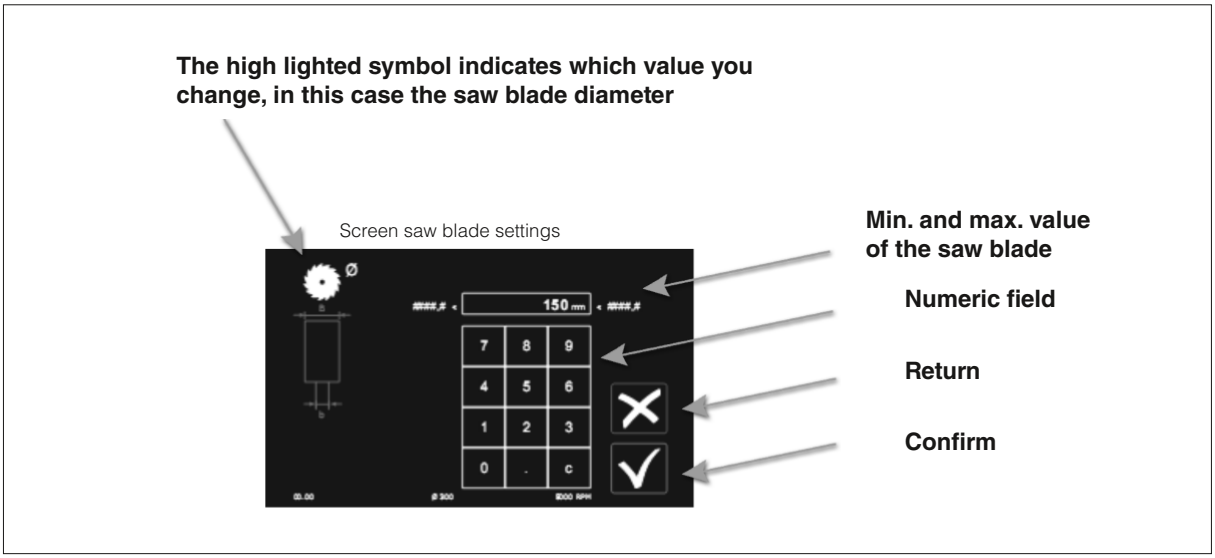


You can pre-program 4 saw blades.
By selecting the field you can select the saw blade.
By pushing the value field under diameter, B or b you can change the value.

The machine will take in account these stored values.

* * when, after sharpening the saw blade, these values have changed, you can adapt these values. The machine will aslo correct the cuting depth.

* * The difference between the saw tooth (B) and the main saw blade body (b) is important for compensating the parallel fence.



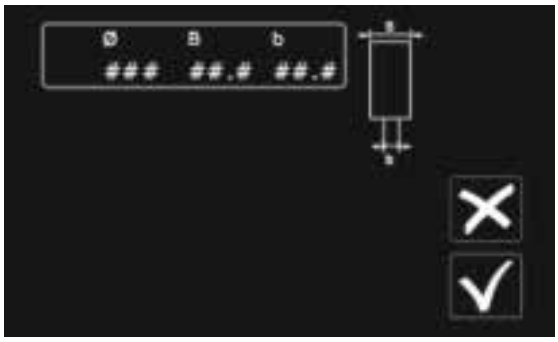
After confirming your choise of the saw blade, you will be asked an extra control of the R.P.M.

The machine shows the current R.P.M., you must confirm this is the right speed for this saw blade.

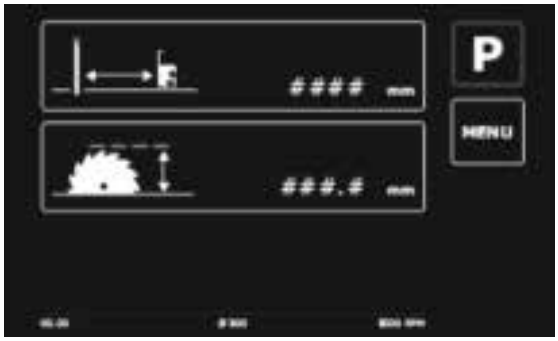
3.1.2 SETTING THE GROOVE CUTTER

This procedure is the same as for changing the saw blade. The differences are:

The table insert has to be taken away in order to mount the groove cutter tool.
The maximum dimensions of this tool is 16 mm wide and a body thickness of 12 mm.



1 groove cutter can be stored the same way as a saw blade.

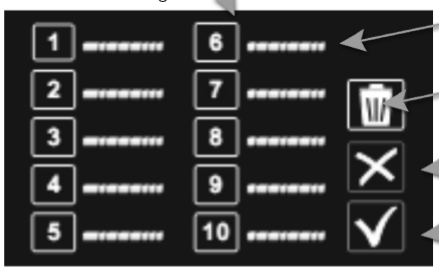


Once the groove cutter selected, the whole saw unit can only be moved up-and down.
It is impossible to groove at an angle.

3.1.3 CUTTING LISTS

There are 100 x 5 cuting lists

Menu screen cuting lists

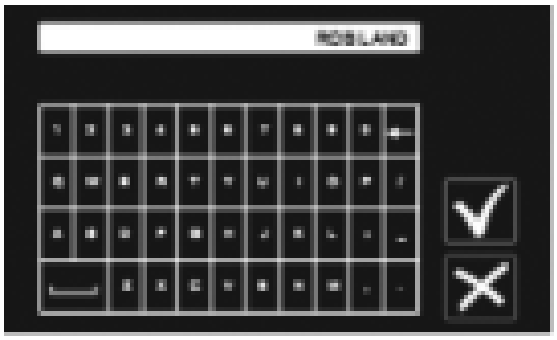


Possiblity to name each cutting list

Remove

Return

Confirm



By pushing the field after the number, each cutting list can be given a name.

By selecting the number, you can enter the screen cutting list.

Selected cuting list

Screen cutting list

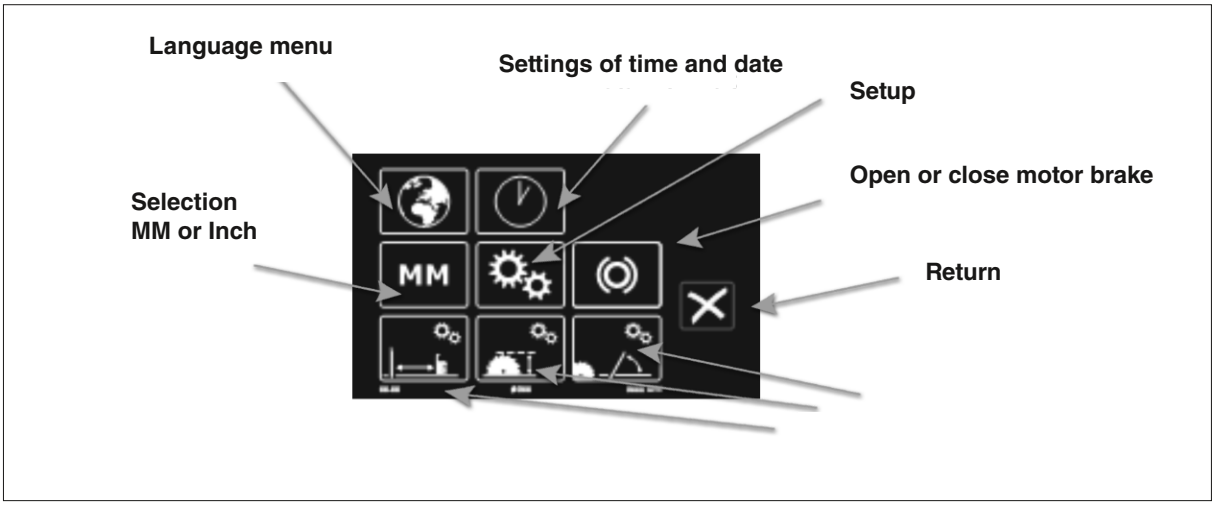
Go to next or previous cuting list

Return

Confirm

To change the value, push the value.
Changes are made in the setting a measurement screen (see 2.1)

3.1.4 SETTINGS



3.1.4.1 LANGUAGE CHOISE

Choose language and confirm.

3.1.4.2 SETTINGS OF TIME AND DATE

First select the field
Choose day, date, … with arrows < and >.
Change the value with the arrows up-and down.
Confirm in order to store the value.

3.1.4.3 SELECT WORKING IN MM OR INCH

Select the wanted system and confirm in order to store.

Starting up the machine (PS Version)

Turn the main switch (6.1) to “1” and ensure that the star-delta switch (4) is put in position “star”.

- To start the main saw motor push the start button (3).
- After about 8 seconds put the star-delta switch (4) in position “delta”. This time delay is needed to let the motor gain its full speed before switching over to “delta”. When you forget to switch over from “star” to “delta”, the motor will reach its full speed but will have no power and will be damaged.
- The scorer motor is started by pushing the start button (6); this is only possible with the main saw motor running.
- By pushing the stop button (5) the scorer motor is stopped, when the emergency stop button (1) is pushed both motors are stopped.
- The main saw motor is equipped with an automatic brake which slows down the motor within 10 seconds as soon as the machine is shut off.

WARNING:

When the machine access door is open, it is impossible to start up the machine.
The RPM indicator lights at the front of the main switch panel show the speed of the saw spindle as soon as the machine is switched on with the main switch (1).
All fuses can be found inside the electrical switch panel and each time this panel is opened the machine has to be disconnected from its power supply.

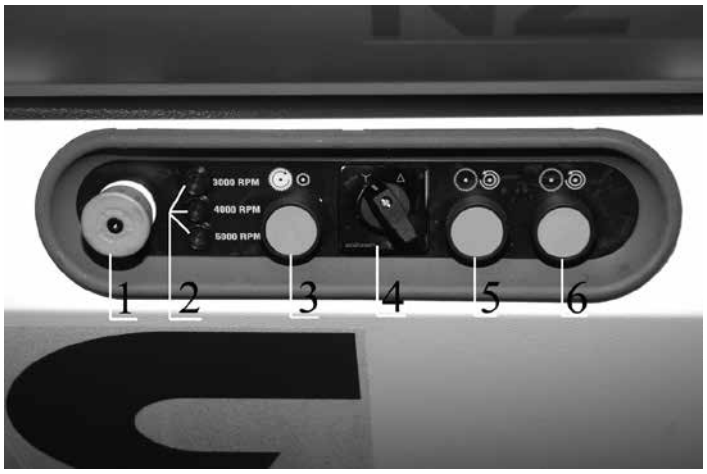


Fig.5

Fig.6

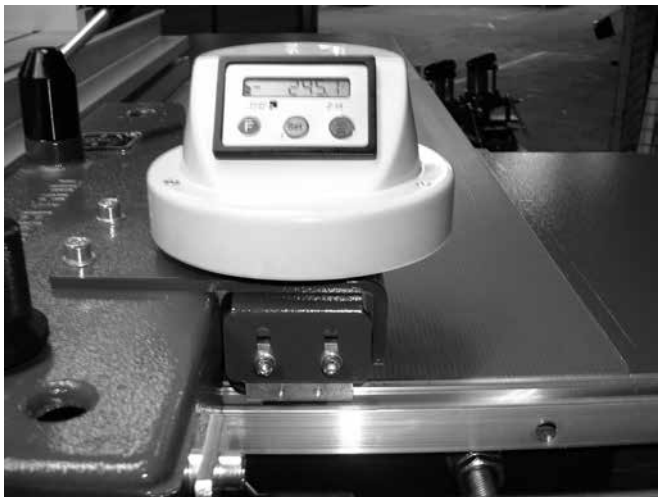
Calibration of the scale on the parallel fence (Fig.25)

Each time a new sawblade is fitted the parallel fence scale has to be calibrated to the new sawblade.
By cutting a sample and measuring its exact length, the scale can be adjusted so that the exact measure corresponds with the front side of the fence.
After the screw (1) has been loosened the scale can be adjusted. To avoid the fence contacting the sawblade while it is revolving, the stop ring (2) has to be adjusted.
Slide the fence to about 10 mm from the sawblade.
Now slide the stopring (2) across the round guide bar (3) until it comes up against the casting of the fence. Tighten the lock screw on the stop ring.

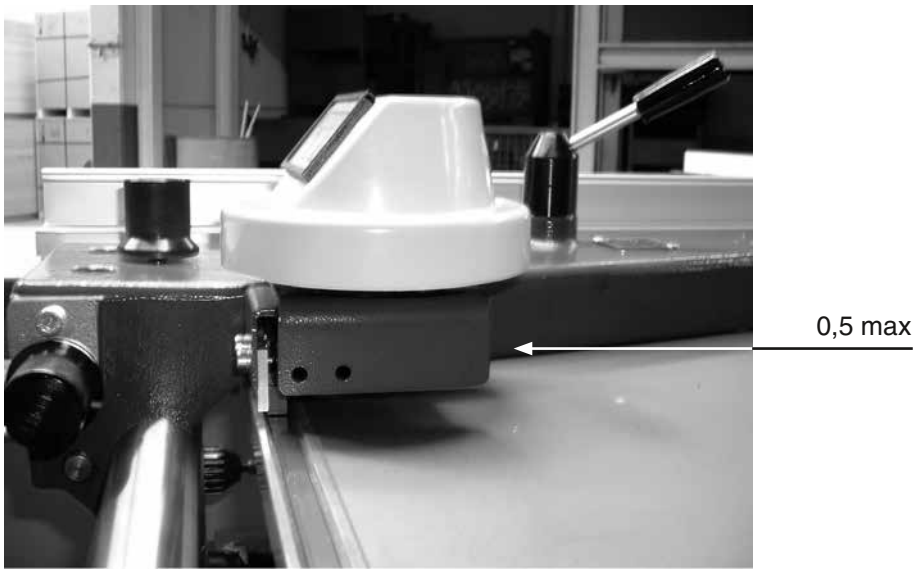
Option A5216: Retro-fit digital read-out for parallel fence

Mounting instructions for panel saw Z serie

Put the digital read-out onto the parallel fence support block using the 2 holes already drilled. On older machines these 2 holes need to be drilled.
Now put the alu profile holding the magnetic strip onto the saw table at 1 mm below the table's front edge.

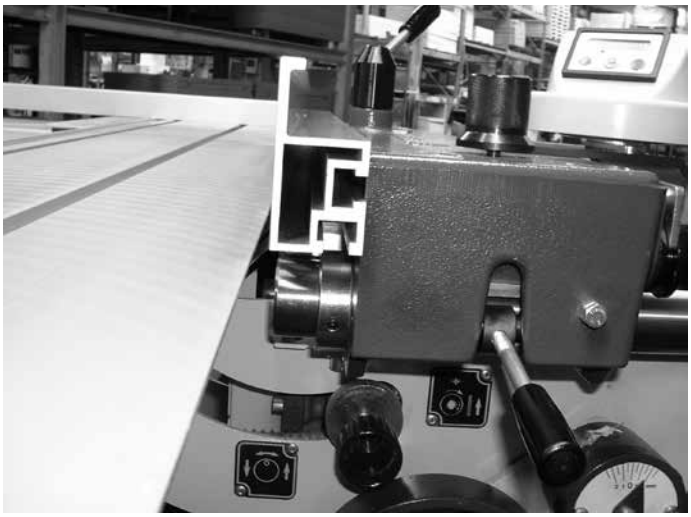


Make sure the sensor is put in the middle of the magnetic strip, and the distance between strip and sensor is set at 0,5 mm maximum.
Make sure the sensor stays at 0,5 mm over the entire lenght of the magnetic strip.

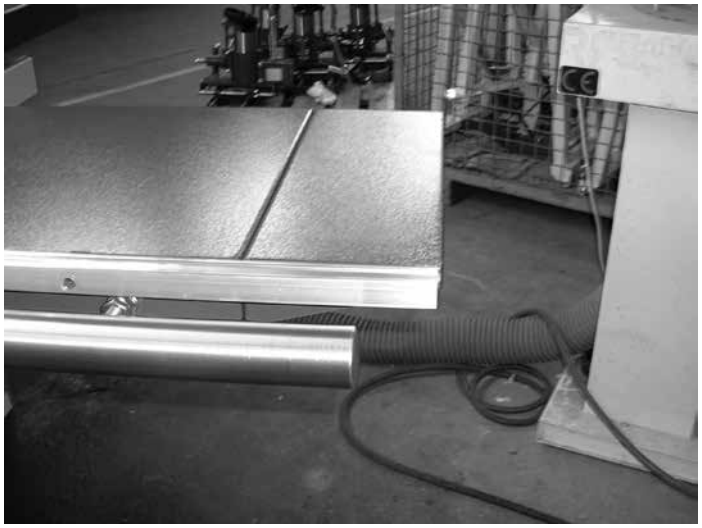


Put the digital read-out onto the parallel fence support block using the 2 holes already drilled. On older machines these 2 holes need to be drilled.
Now put the alu profile holding the magnetic strip onto the saw table at 1 mm below the table's front edge.

Make sure the sensor is put in the middle of the magnetic strip, and the distance between strip and sensor is set at 0,5 mm maximum.
Make sure the sensor stays at 0,5 mm over the entire lenght of the magnetic strip.



The little table extension as supplied, makes it possible as before to cut upto 1380 mm.
It will also act as a protection for the magnetic tape.



Mounting and adjusting the riving knife

(Fig.21)

The machine is equipped with 2 riving knives adapted for the use of saw blade diameters 300/350/400 and 450 mm.
The riving knife can adjusted in both vertical and horizontal direction.
When adjusting the riving knife, always make sure the gap between saw blade and riving knife is set between 3 and 8 mm.
Adjustment is done as follows: unlock the central bolt (1) and move the riving knife.
Adjust the riving knife in height assuring the upper edge never exceeds the base of the highest tooth in use by 3 mm.
The 4 adjustment grub screws (2) are used for the exact setting of the riving knife in line with the saw blade..
After adjustment is done, always lock the central bolt (1) with a torque of 60 Nm.
Never remove the riving knife; kickbacks are severe and very dangerous!

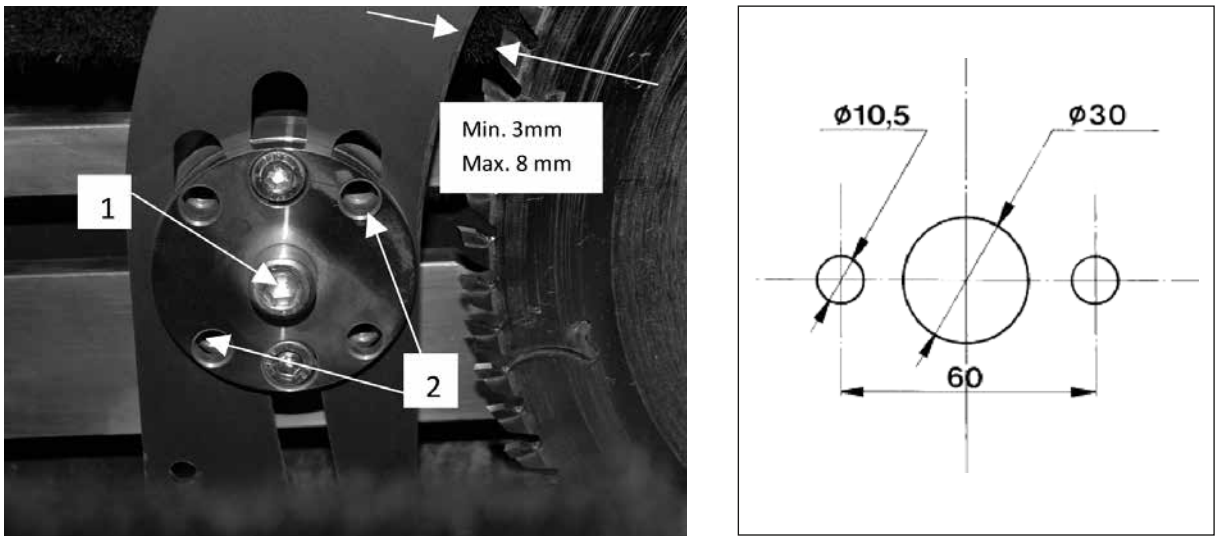


Fig.21

Lower sawblade cover

The lower sawblade cover has an extra safety device which will protect the user during sawblade changing.
To open the lower cover, the upper part of the sliding table has to be slid to the back.
Now the two locks can be opened at both sides of the cover and the safety lever can be pulled up.
Only now can the sawblade cover be opened.

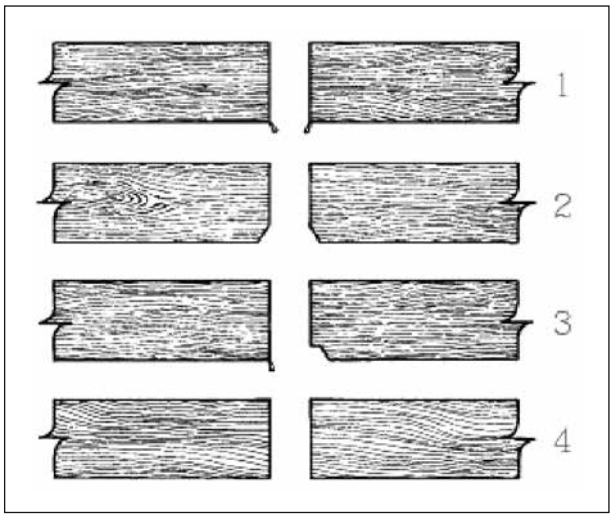


Fig.15

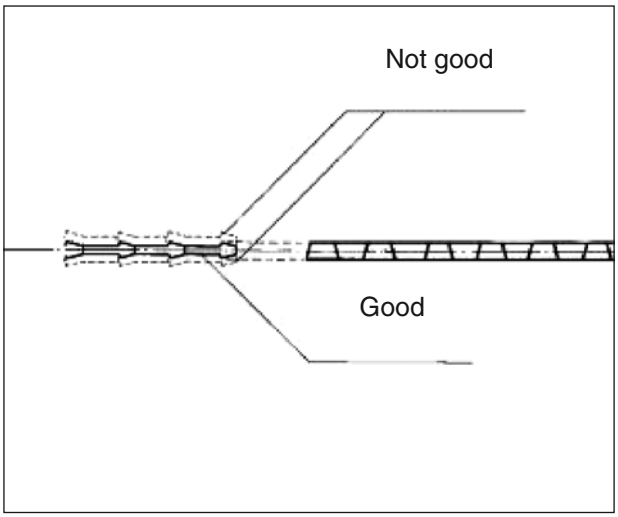


Fig.16

1. The scorer sawblade is below level and does not work properly. There will be chipping on the interior side.
2. The scorer sawblade is to far up, there will not be chipping but 2 excessive grooves.
3. The scorer sawblade is not aligned properly to the main sawblade. There will be a border on one side and a waste on the other.
4. Correct setting of the scorer saw

It would be good to fit the height of the blade only at a height necessary for an incision that would cross exactly the laminated layer or overlay.
In case of extended softwood processing without use of the scorer sawblade, it is recommended to remove the blade to avoid damage and dust projected by the main sawblade.

Blocking the sliding table (Fig.14)

- The sliding table can be blocked in two positions and with one block-system. This is vital for example by loading of the boards or cutting along the parallel guide. The system is located on the front-side of the sliding table. Pull the button (1) in your direction and turn to the right to liberate the table. Pull the sliding table till end, the table will be blocked automatically when arriving in the exact position. Continue this way to start working.

- When several movements are repeated consecutively, it is possible that the bearing cage between the two profiles moves a little bit. We can note this as well by a reducing travelling distance of the sliding table. To proceed and achieve the normal travelling distance of the sliding table, you can adapt the position of the bearing cage: simply push the table with a few short, light pushes against the buffer stop at the end of the sliding table until the position of the ball carrier is adjusted and the table can be moved again along its full stroke.

Attention: cleaning and maintenance of the sliding table

It is vital to regularly blow away the saw- and other dust, collected between the sliding table and the bearing cage. Push the sliding table to the end, to get a better reach towards the rails, the bearing cage and gliding tracks. Oil serves to lubricate the sliding rails and is an extra guarantee of good use and function.

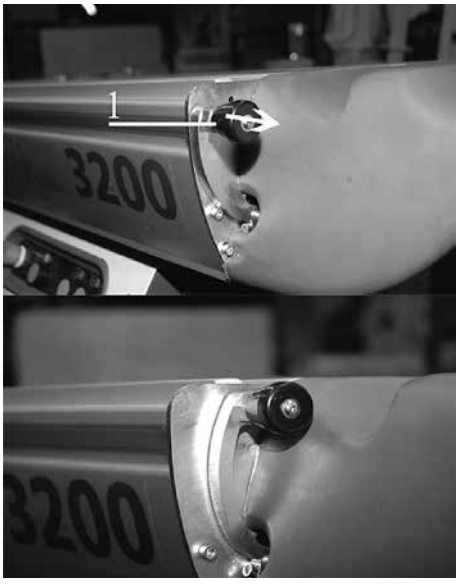


Fig.14

Mounting of the cross-cut table (Fig.17)

The cross-cut table can be mounted on the sliding table as follows: make sure that both mounting brackets are well placed in the lateral groove of the sliding table.
The locking itself is done with the two locking handles (1). Make sure the cross-cut table rests well on the vertical post of the telescopic arm. The machine serves only to put the cross-cut table at the back of the sliding table, with a maximum at the centre.
The cross-cut table and fence are factory set at 90° to the saw blade but if for some reason this is not the case and not exact anymore, the 90° angle setting adjustment is done by loosening the 4 bolts (2) and shifting the complete cross-cut table. Make sure these 4 bolts are well tightened after the adjustment is done.

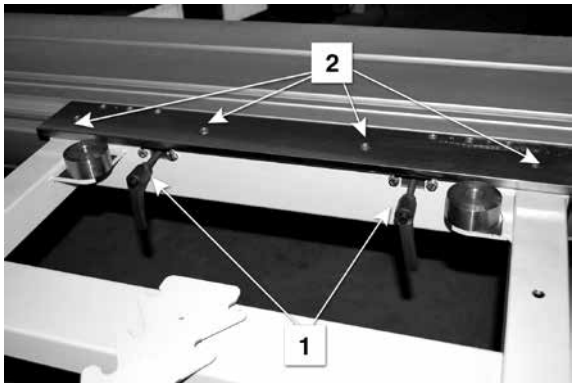
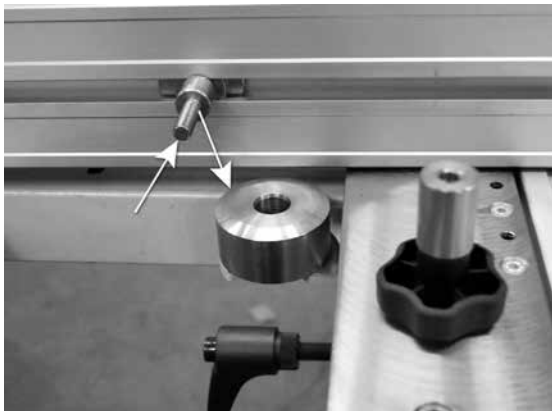


Fig.17

Mounting of the cross-cut fence (Fig.18)

The cross-cut fence has 2 positioning pins which locate in 2 precision holes in the cross-cut table. Make sure the fence is placed fully down on to the table, put the locking knobs in place and tighten them well.
The two adjustment grub screws in the left side bore assure the correct, play free, position of the fence and do not serve as 90° angle setting, this adjustment is done as described above by shifting the complete cross-cut table (fig. 17.2).
The cross-cut fence can be used on 2 positions: at the front, or back side of the cross-cut table.



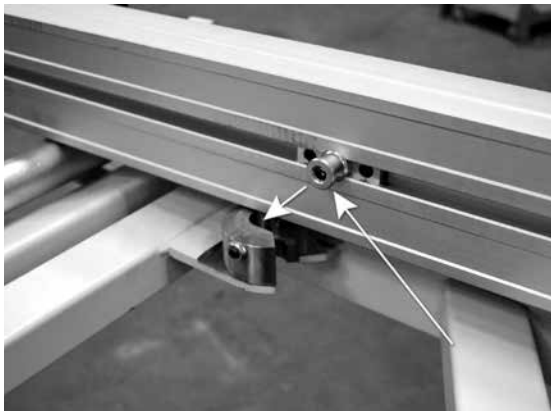
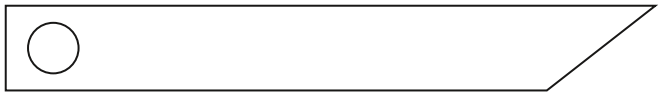


Fig.18

Adjusting the cross-cut fence (Fig.19-20)

All measuring tapes are factory calibrated and the measure is read directly at the index (fig. 19.1).
The optional digital read out, or the normal standard stop, is calibrated as follows: put the 300 mm calibration gauge
(Z1253) against the cross-cut fence and the saw blade tooth.
Now slide the digital stop up against the gauge and push << F en SET >>.



The read out is now automatically set at 300mm.
In order to check if the normal measuring tape matches the 300 mm at the index (fig.19, 1),
Make a test cut by putting both flip stops at any given position and check if the obtained measures are correct.
When using the telescopic part of the cross-cut fence (up to 3360 mm) unlock the handle (fig.20.1)
And slide out the extension. Reading is done on the fixed part of the cross-cut fence, or on the optional digital read out.
By means of the button << inc >> measure is, when pushing the button << Abs >> the absolute measure is shown. The flip stop is equipped with a fine adjustment, unlock the handle (fig. 19.2) and lock the serrated knob (fig. 19.3). Now fine adjustment is done by turning the serrated knob (fig.19.4).
After fine adjustment is done, lock the flip stop in place by locking the handle (fig.19.2)

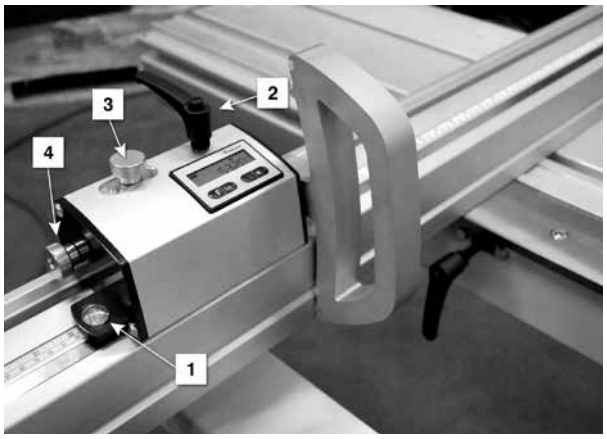


Fig.19

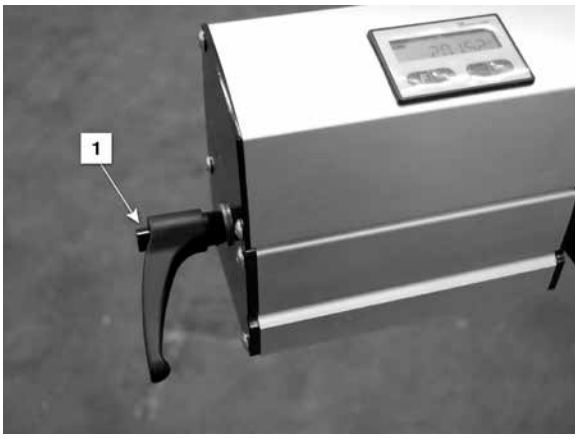


Fig.20

Using the sawguard (Fig.26-27)

According norms and applicable prescriptions, the sawguard always should be positioned, just allowing the passing of the wood or work pieces.
The adjustment of height can be done with the handle (1 and 2), using the previously adapted graduated scale (3). The guard can not go under the definite measurement. Allowing to block the protection to avoid it goes up on its own. The handle (2) as well serves as a height stop to avoid that the protection goes up to high according to the handled work piece.

The guard has got a shifting skirt, remove the screw (1) then the little skirt and place the larger one, closing again with the screw.

Attention: it is evident that for special tasks, it is necessary to make or build specific protection.

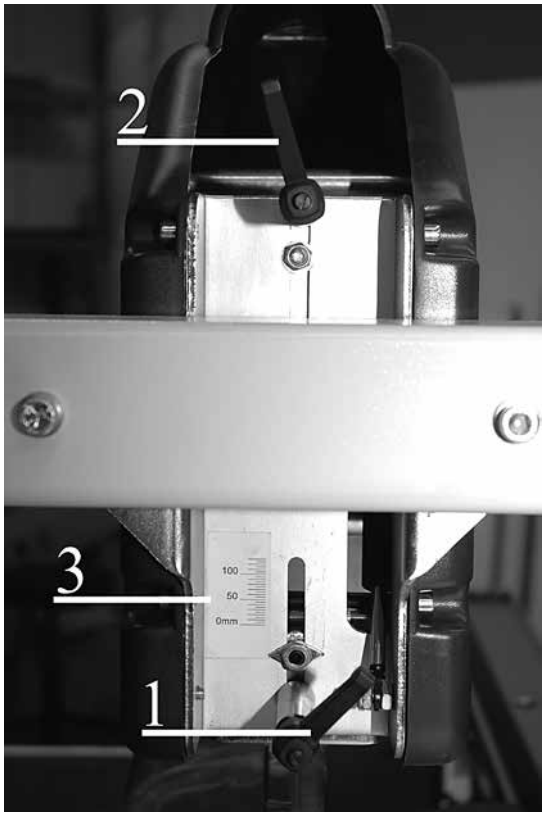


Fig.26

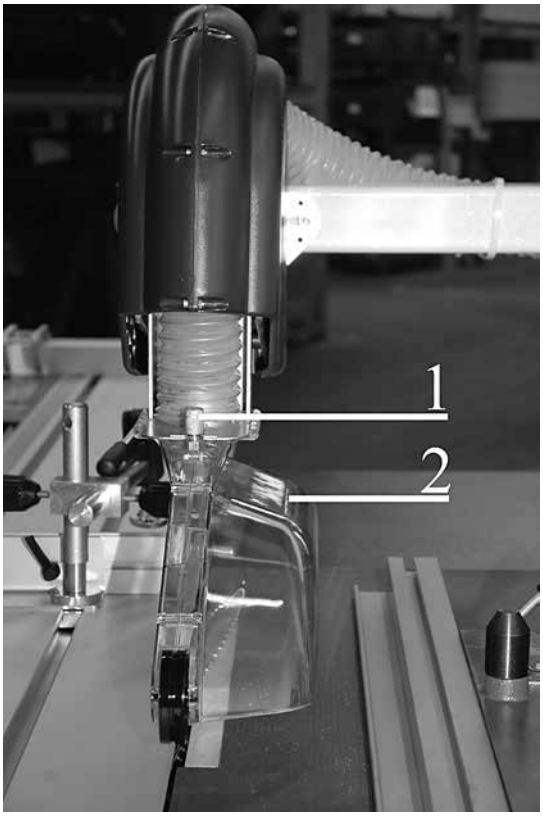


Fig.27

Maintenance of the machine

The interior and exterior of the machine have to be cleaned regularly to avoid an accumulation of dust and woodchips.
Any deposition of resin on the sliding table and other surfaces has to be removed.
Never smoke while cleaning the machine, and especially when using petrol, kerosene or other inflammable products. This could lead to an explosion and serious burns for the operator.
All moving parts have to be kept clean and have to be lubricated with a little very thin oil, diesel or penetrating oil.
All bearings in the machine are double sealed and need no lubrication. The use of a dust extraction system will most certainly extend the life of your machine.
The lifetime of the motors can be extended by blowing out sawdust from the cooling fan and motor itself.
In particular the sliding table needs care and attention : see chapter “operating the sliding table”.

Problems: causes and solutions

1 The machine does not start when the start button is activated :

- access door is still open : close the door correctly
- main fuse is switched off : power cut, power shortage or motor overload
- star-delta switch in wrong position : put switch on “star”
- main switch off : put switch on “1”

2 Reduction of speed when working :

- belt tension not correct : tension the belt
- motor overload due to incorrect feed rate : reduce the feed rate
- blunt tools : sharpen tools

3 Vibration of the sawblade or arbor :

- unbalanced tool : replace or have the tool balanced
- worn or damaged belt : replace the belt

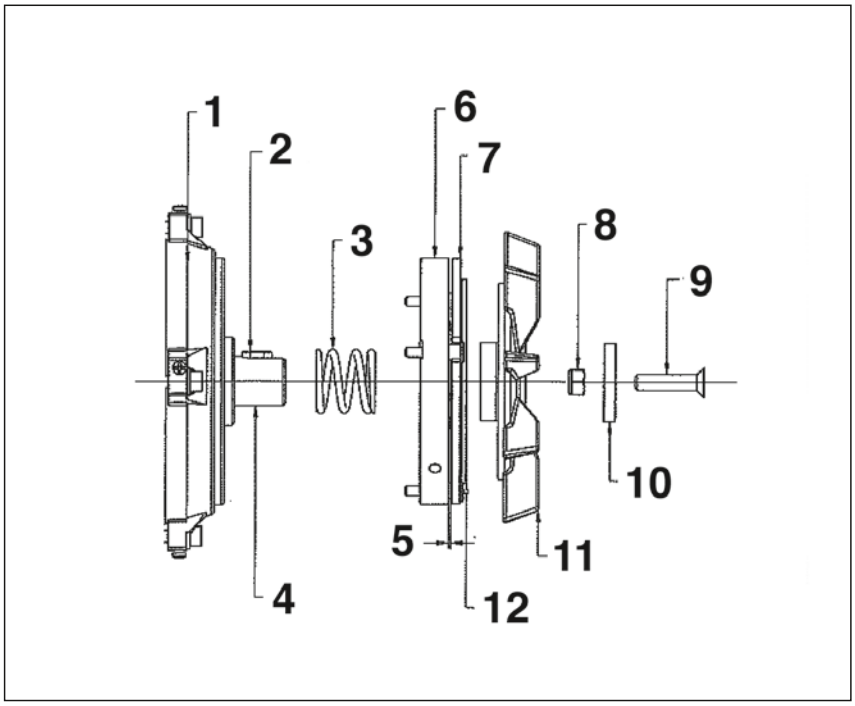
4 Thermal overload does not re-arm automatically after shut-off and cooling down period :

- overload is not set on automatic reset or the overload is faulty

If you cannot solve the problem yourself or you do not find your problem in this list, please contact your Robland dealer.

Adjusting the brake of the saw motor

If the run down time of the saw motor exceeds 10 seconds, then the brake will need to be readjusted.
This is done as follows: without removing the motor cowling, turn the bolt holding the ventilator fan on the motor axle one 1/16th of a turn clockwise and make a brake test.
When needed adjust the brake furthermore untill it does not exceed 10 seconds.
The air gap between ventilator fan (brake disk) and brake liner (Ferrodo) is factory set at 0,25 mm, this under normal conditions.



1 Motor frame
2 Key
3 Spring
4 Motor axle
5 Air gap
6 Electromagnet
7 Mobile disk
8 Locking nut
9 Adjustment bolt
10 Washer
11 Braking disk cast iron
12 Brake liner (Ferrodo)

Electrical parts list PS

L1-L2-L3	3 phases
PE	Earthing
Q1	Main On/Off switch
F1-F2-F3	Main fuses
F4-F5-F6	Main saw motor fuses
F7-F8-F9	Scoring saw motor fuses
F10-F11-F12	Fuses positioning axes
F13-F14	Fuses power supply transformator
F15	Main saw motor brake fuse
F16	Fuse power supply 24 V DC
KN	Emergency stop button magnetic starter
T1	Power supply 400 V – 24 V DC
eb1	Thermal overload scoring saw motor 1,4-2,0 A
SE1	Safety switch back door
SE2	Safety switch lower saw blade cover access door
SE3	Safety switch parallel fence
SE4	Microcontact 3000 RPM
SE5	Microcontact 4000 RPM
S1	Safety switch side of machine
S2	Safety switch front of machine
S3	Safety switch electrical cabinet
LN	Warning light emergency switch activ
LR	Warning light scoring saw activ
LH	Warning light main saw motor activ
LS	Warning light positioning axes
Soft Start	Soft Start main saw motor
Dr.1	Power supply line net filter
EMC	EMC filter
FRQ 0	Inverter servo drive parallel fence
FRQ1	Inverter tilt/up and down
M1	Main saw motor
M2	Scoring saw motor
M3	Motor up and down saw
M4	Motor tilt saw
M5	Motor parallel fence

EL1	Encoder motor up and down
EL2	Encoder motor
KR	Magnetic starter brake
K2	Magnetic starter scoring saw motor
KM1	Magnetic starter motor up-and down
KM2	Magnetic starter tilt motor
Rem	Main saw motor brake
S3.0	Start main saw motor (push button)
S3.1	Start main saw motor (option MOBST)
S4	Stop main saw motor
S5	Start scoring saw motor (push button)
S5.1	Start scoring saw motor (option MOBST)
S6	Stop scoring saw motor
S7	Start positioning
S8	Stop/Reset positioning
S9	Stop main saw motor/scoring saw motor (option MOBST)
IT107	ESA touchscreen IT107W
Ref 0	Ref contact axis parallel fence
Ref 1	Ref contact axis up-and down
Ref 2	Ref contact axis tilt
C5	KEB plc
D1	Rectifier bridge

	KLEURCODES ELEKTRISCH SCHEMA	CODES COULEUR SCHEMA ELECTRIQUE	COLOUR CODES ELECTRICAL DIAGRAM	FARB CODES SCHALTPLAN
①	rood	rouge	red	rot
②	rood-blauw	rouge-bleu	red-blue	rot-blau
③	blauw	bleu	blue	blau
④	zwart	noir	black	schwartz
⑤	grijs	gris	grey	grau
⑥	grijs-rose	gris-rose	grey-pink	grau-rosa
⑦	grijs-bruin	gris-marron	grey-brown	grau-braun
⑧	geel	jaune	yellowl	gelb
⑨	geel-bruin	jaune-marron	yellow-brown	gelb-braun
⑩	groen	vert	green	grun
⑪	rose	rose	pink	rosa
⑫	rose-bruin	rose-marron	pink-brown	rosa-braun
⑬	wit-rood	blanc-rouge	white-red	weiss-rot
⑭	wit-blauw	blanc-bleu	white-blue	weiss-blau
⑮	wit-zwart	blanc-noir	white-black	weiss-schwartz
⑯	wit-grijs	blanc-gris	white-gray	weiss-grau
⑰	wit-geel	blanc-jaune	white-yellow	weiss-gelb
⑱	wit-groen	blanc-vert	white-green	weiss-grun
⑲	wit-rose	blanc-rose	white-pink	weiss-rosa
⑳	wit	blanc	white	weiss
㉑	bruin	marron	brown	braun
㉒	bruin-rood	marron-rouge	brown-red	braun-rot
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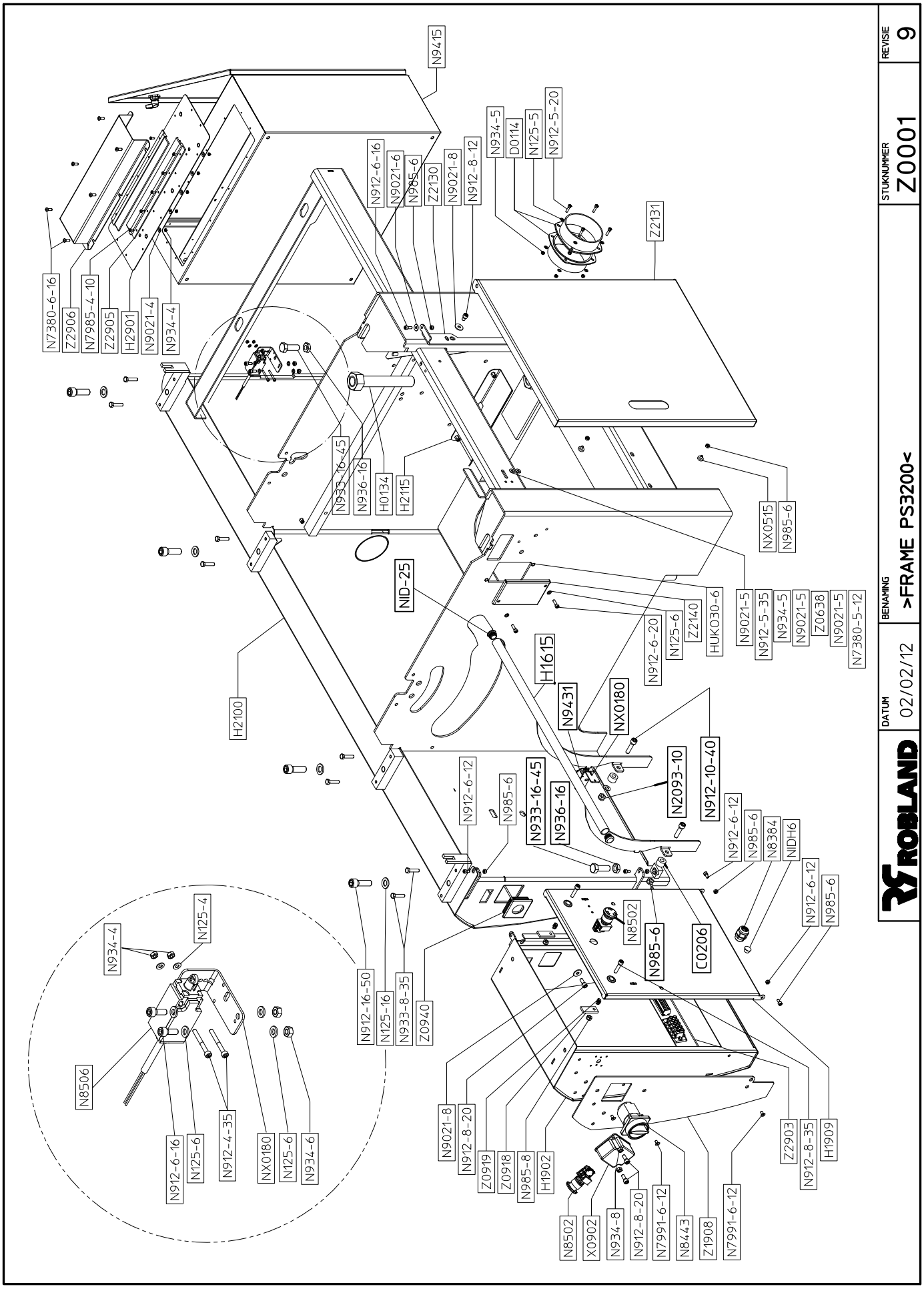
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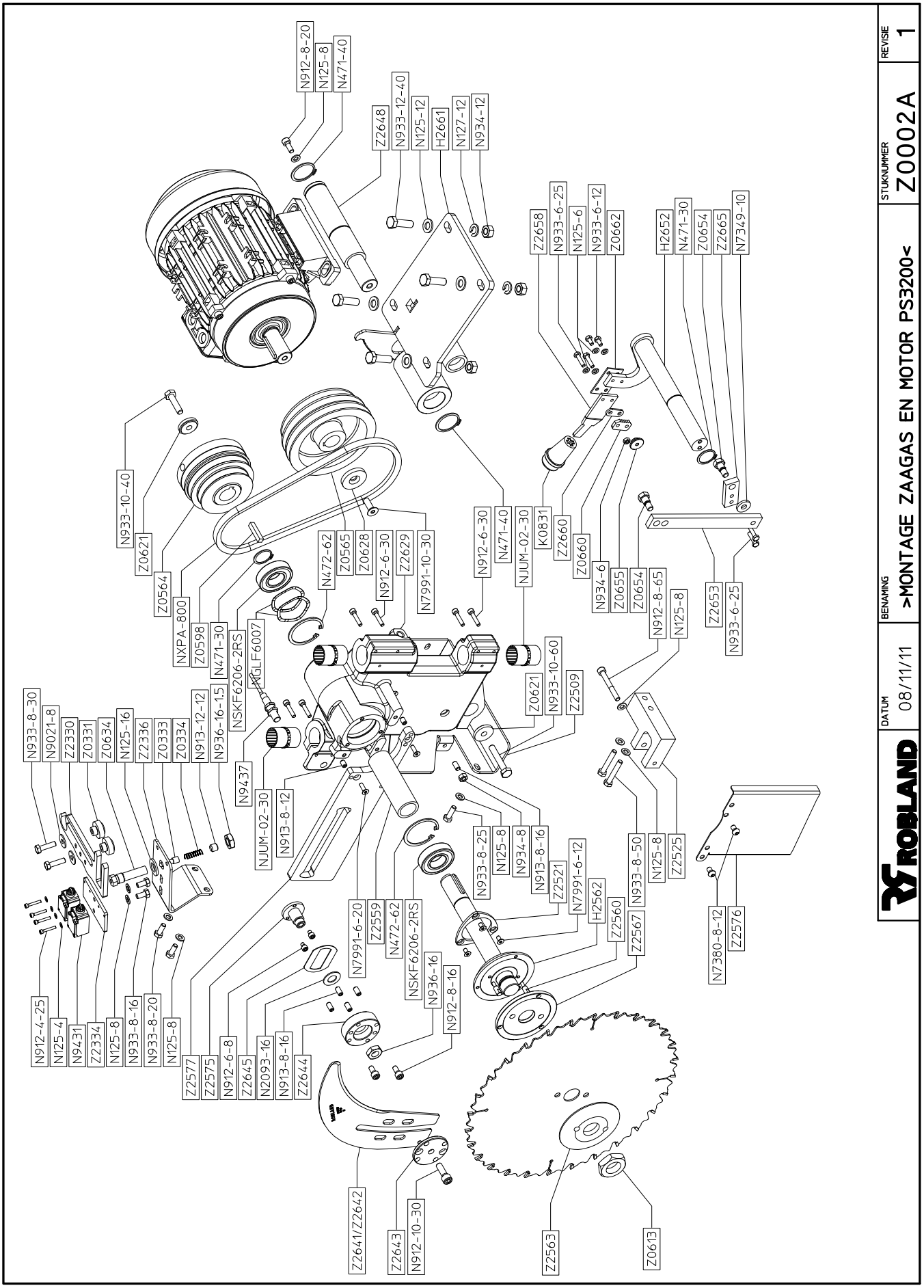
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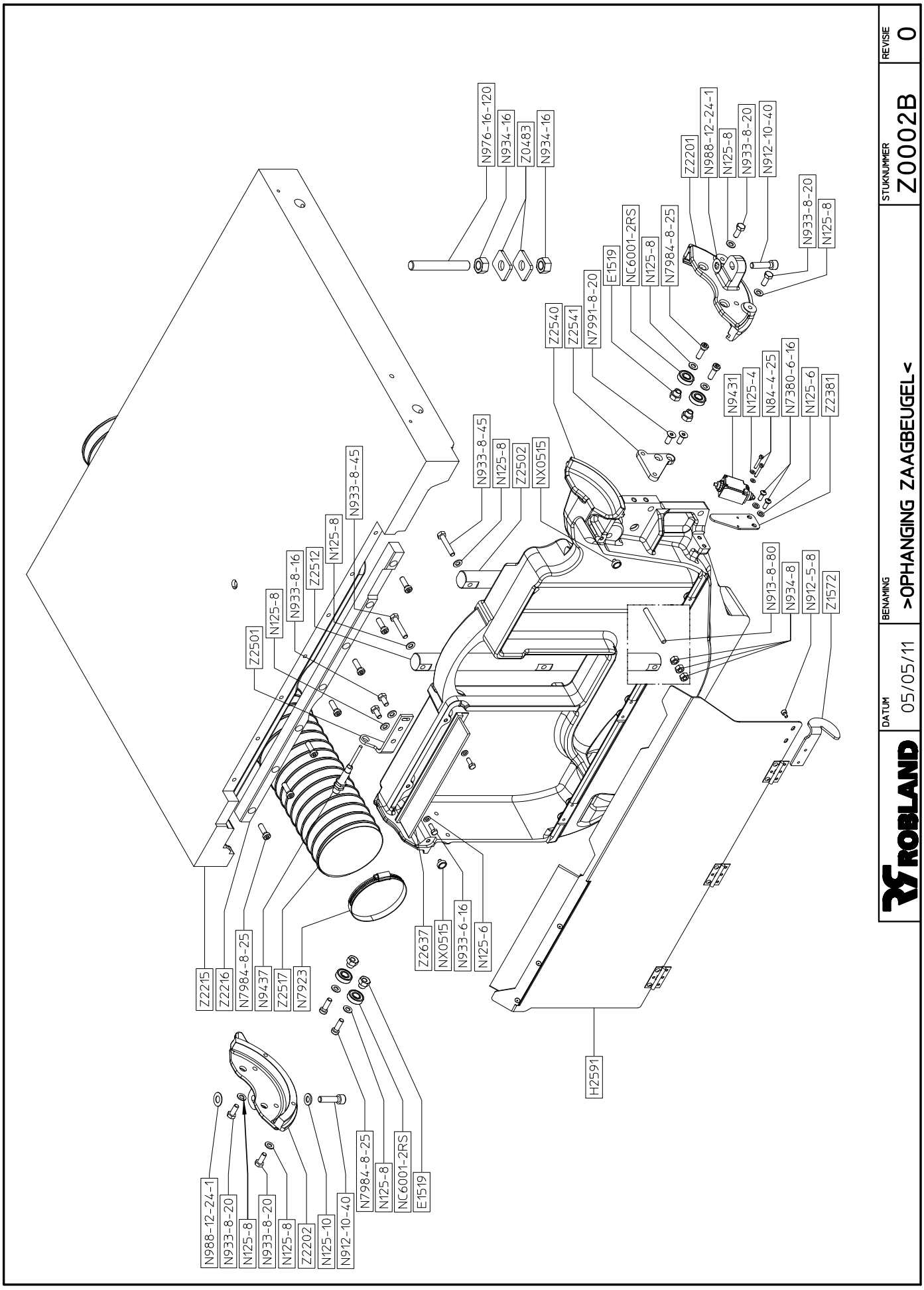
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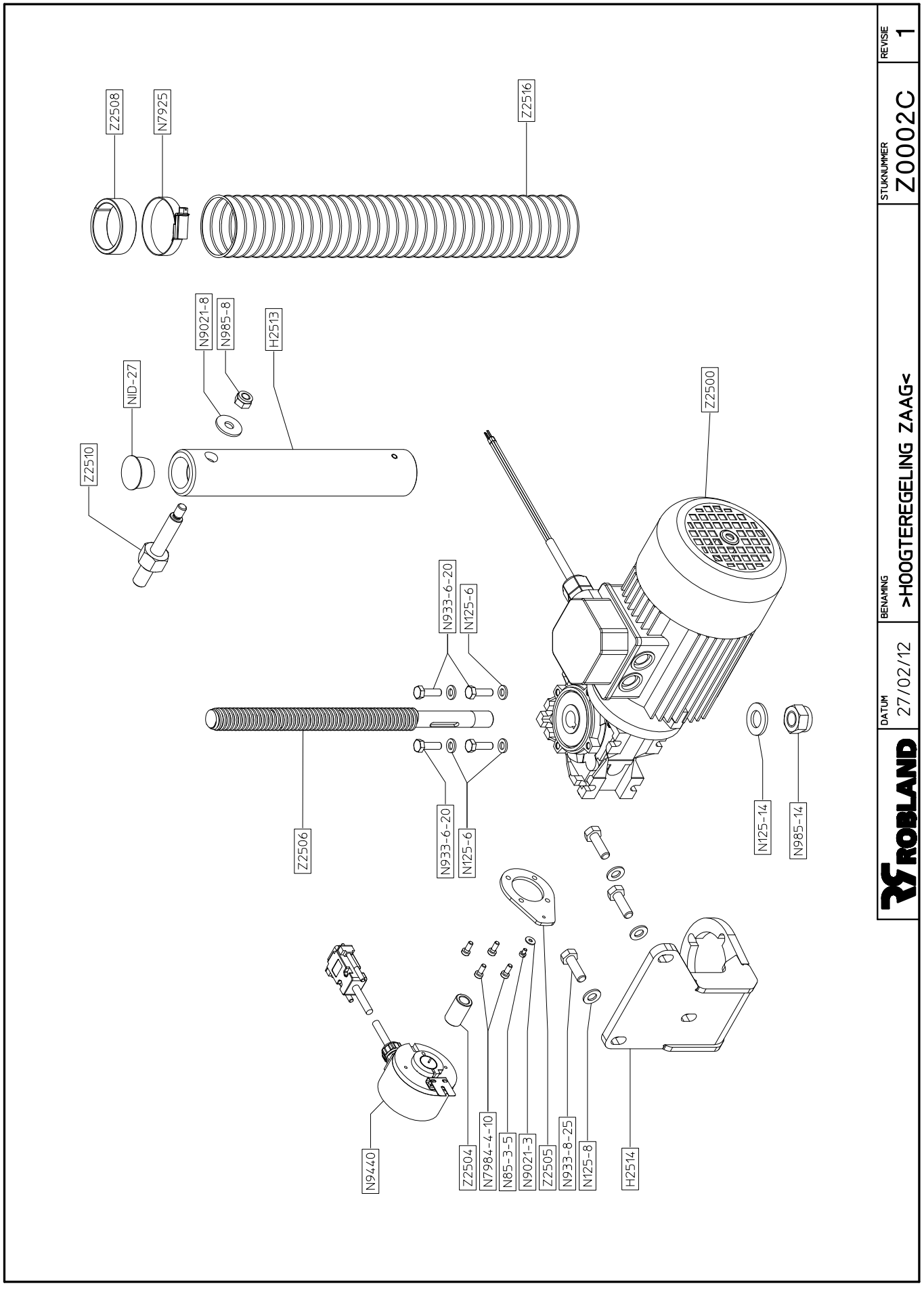
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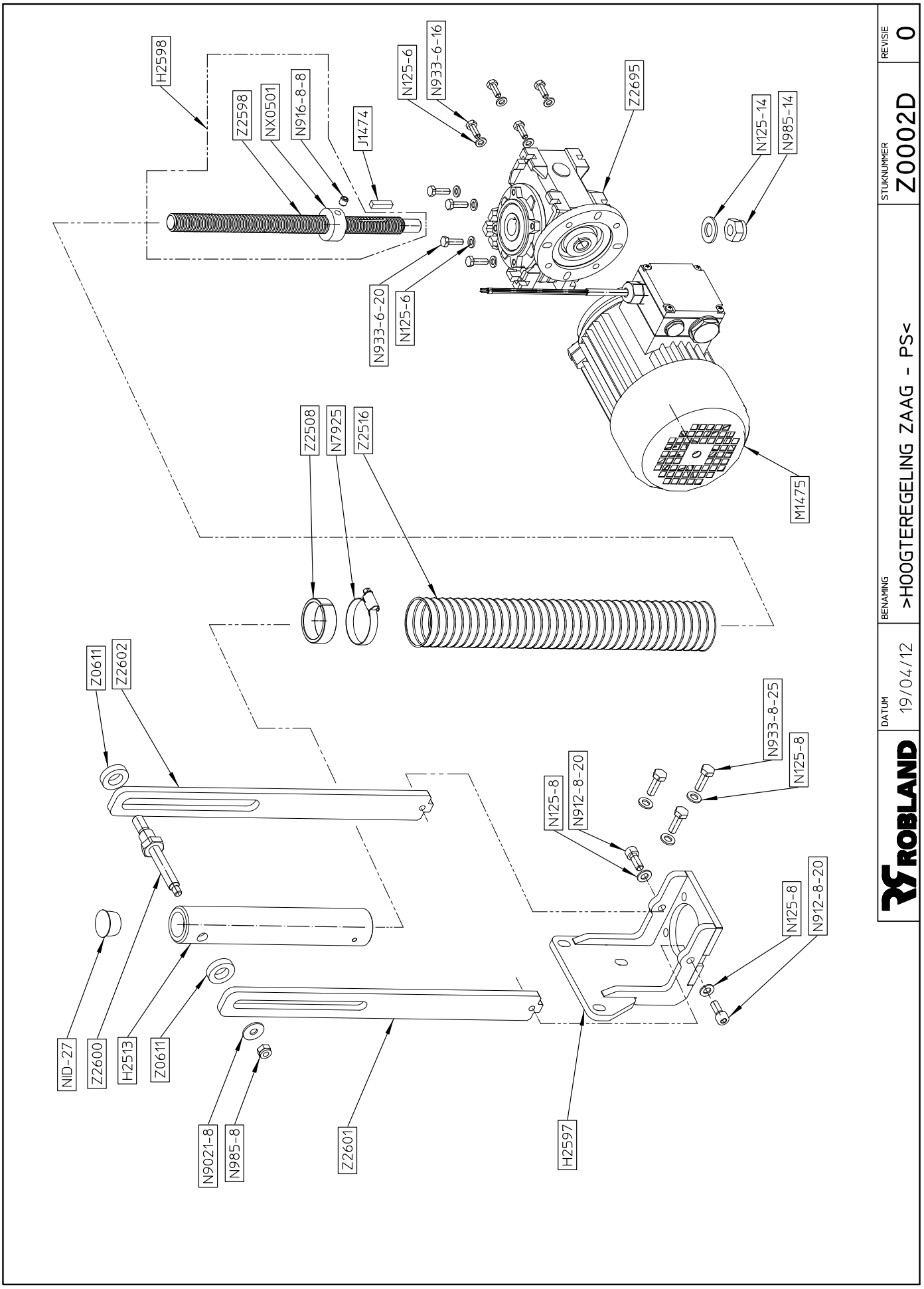
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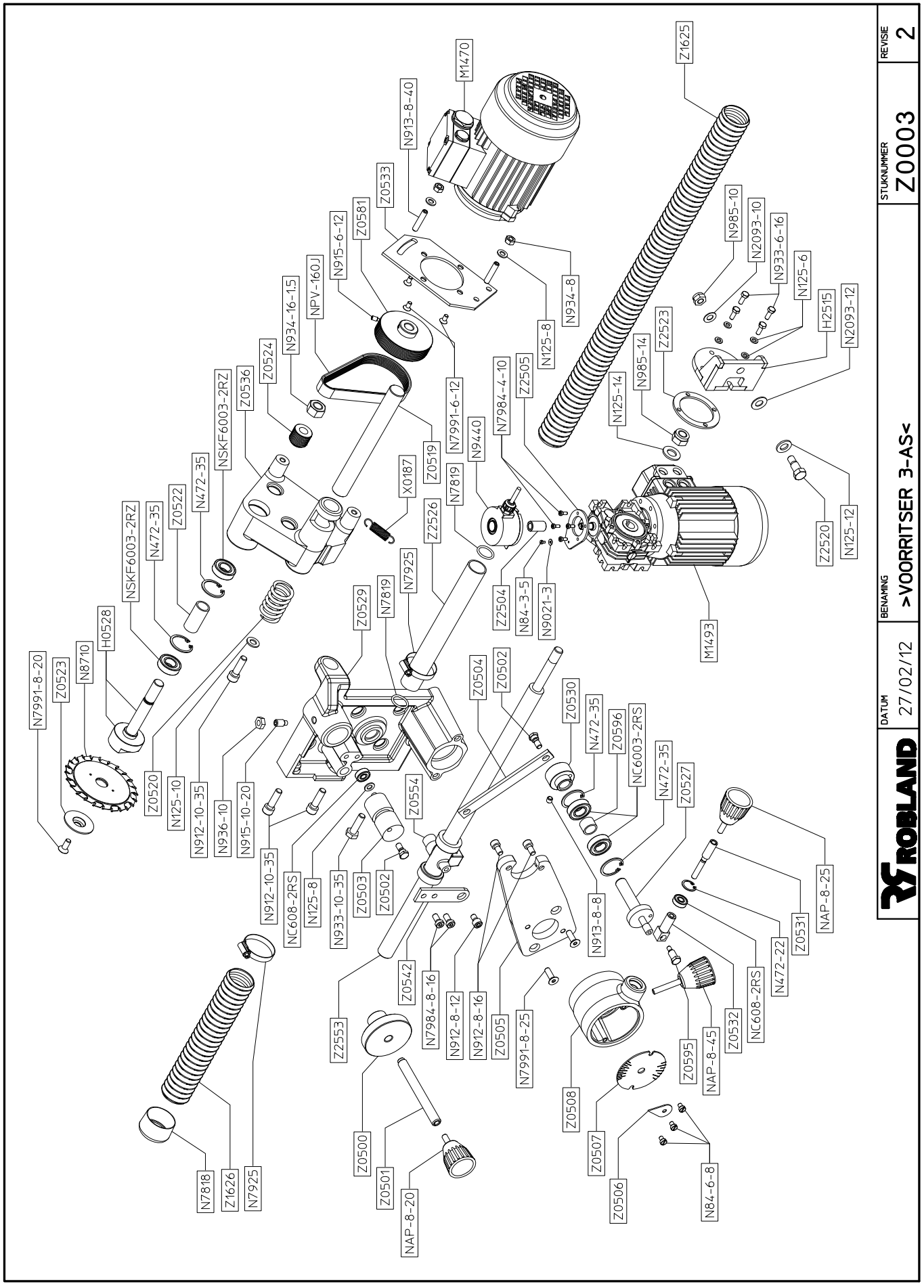
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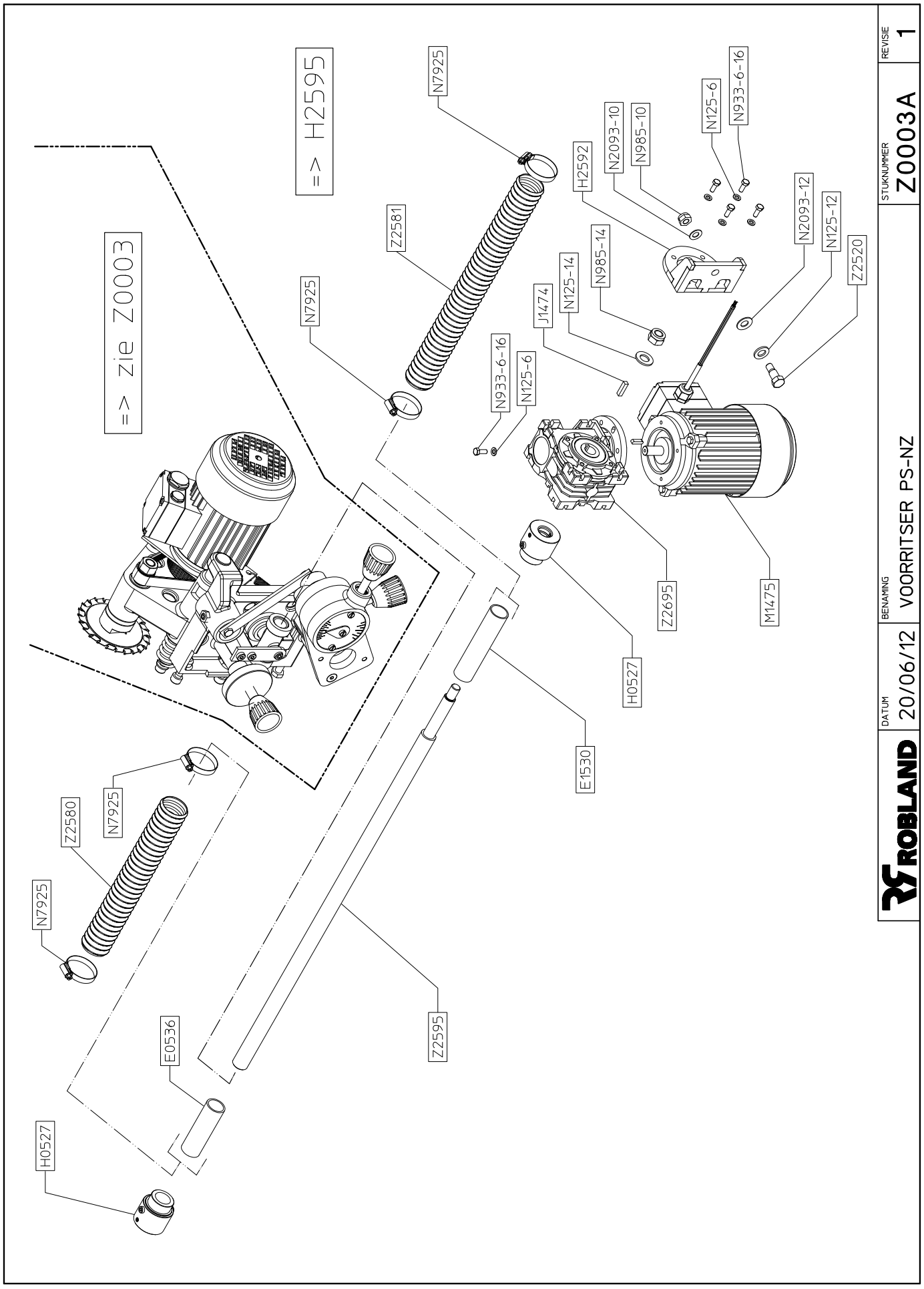
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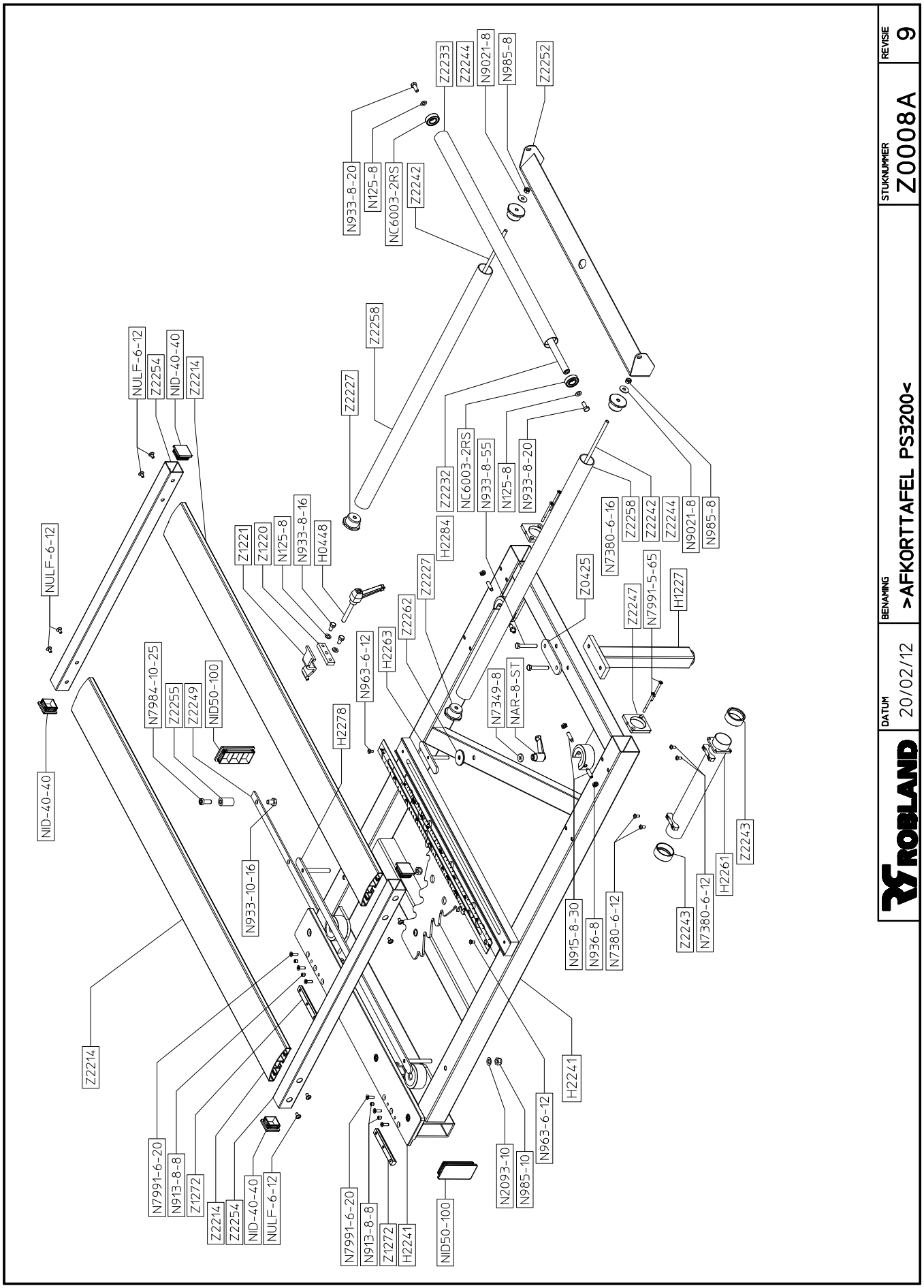
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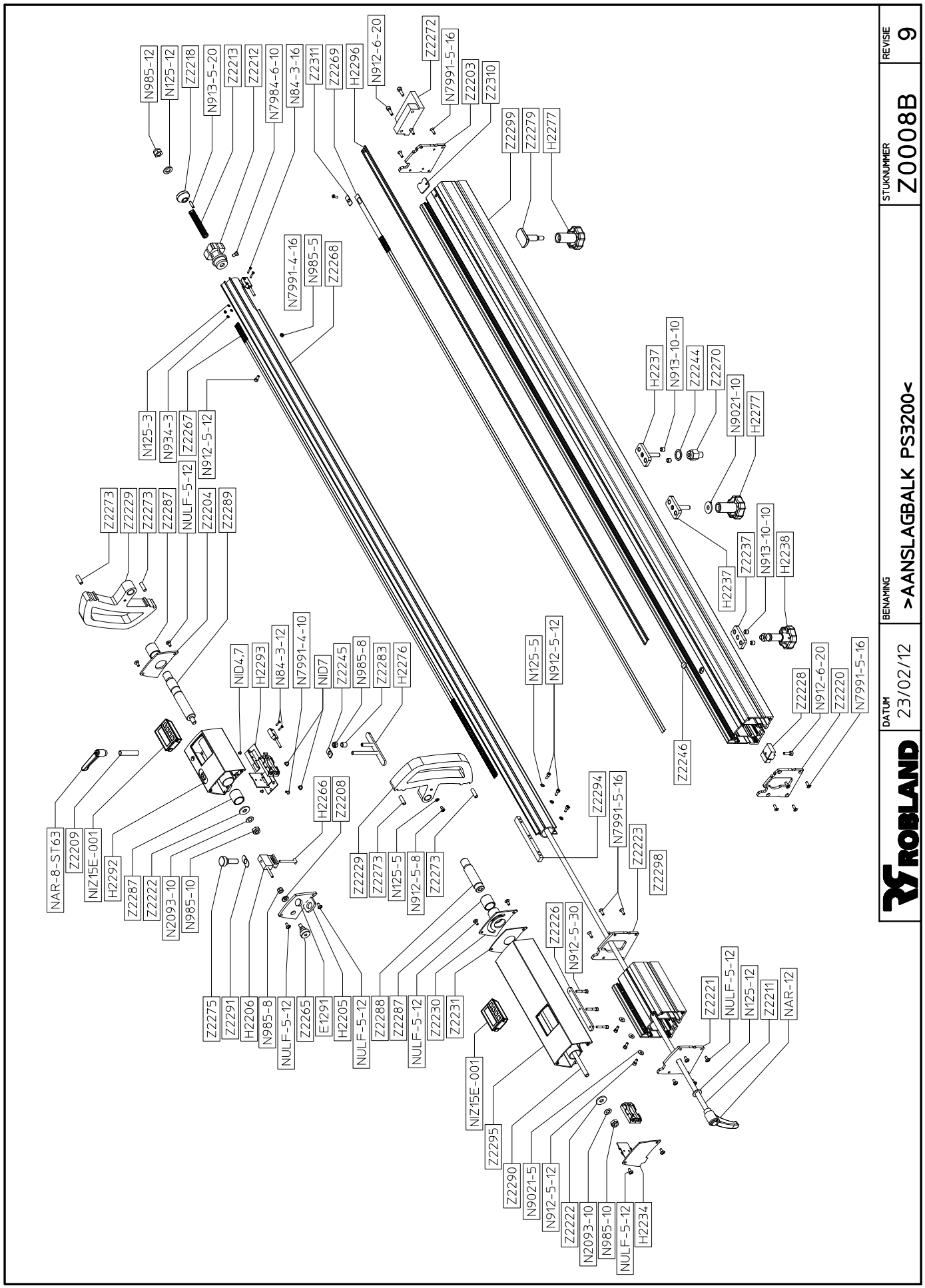
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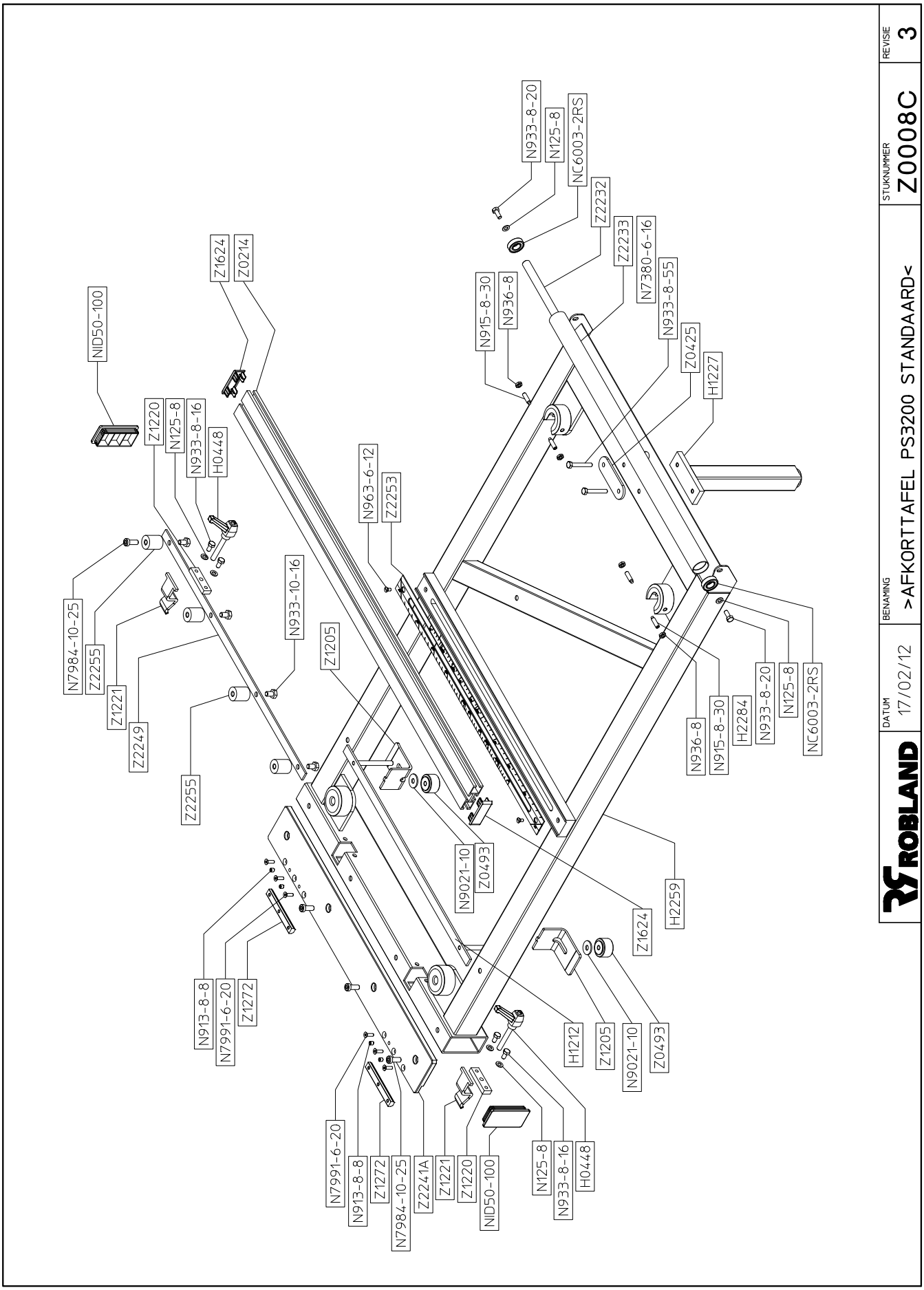
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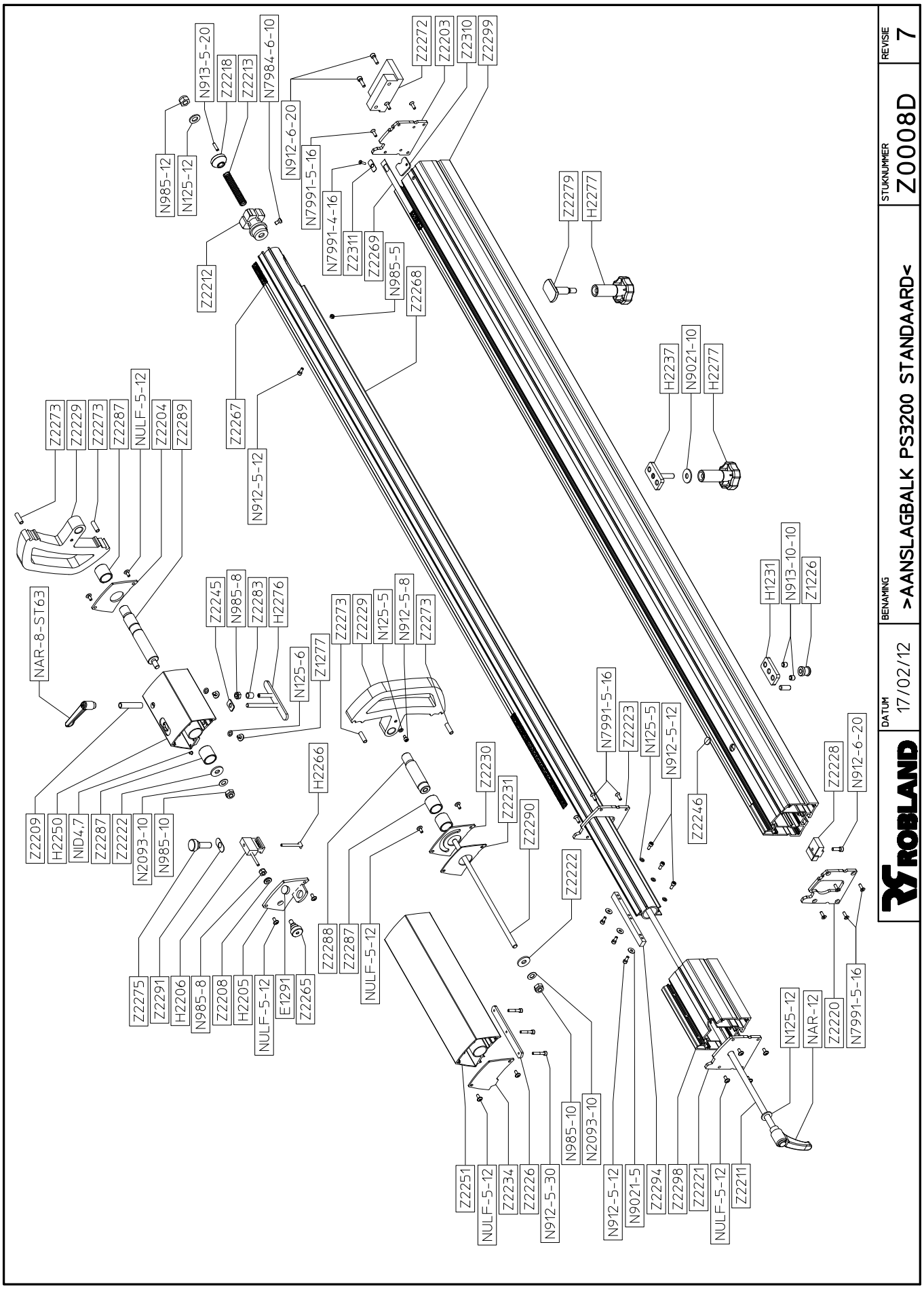
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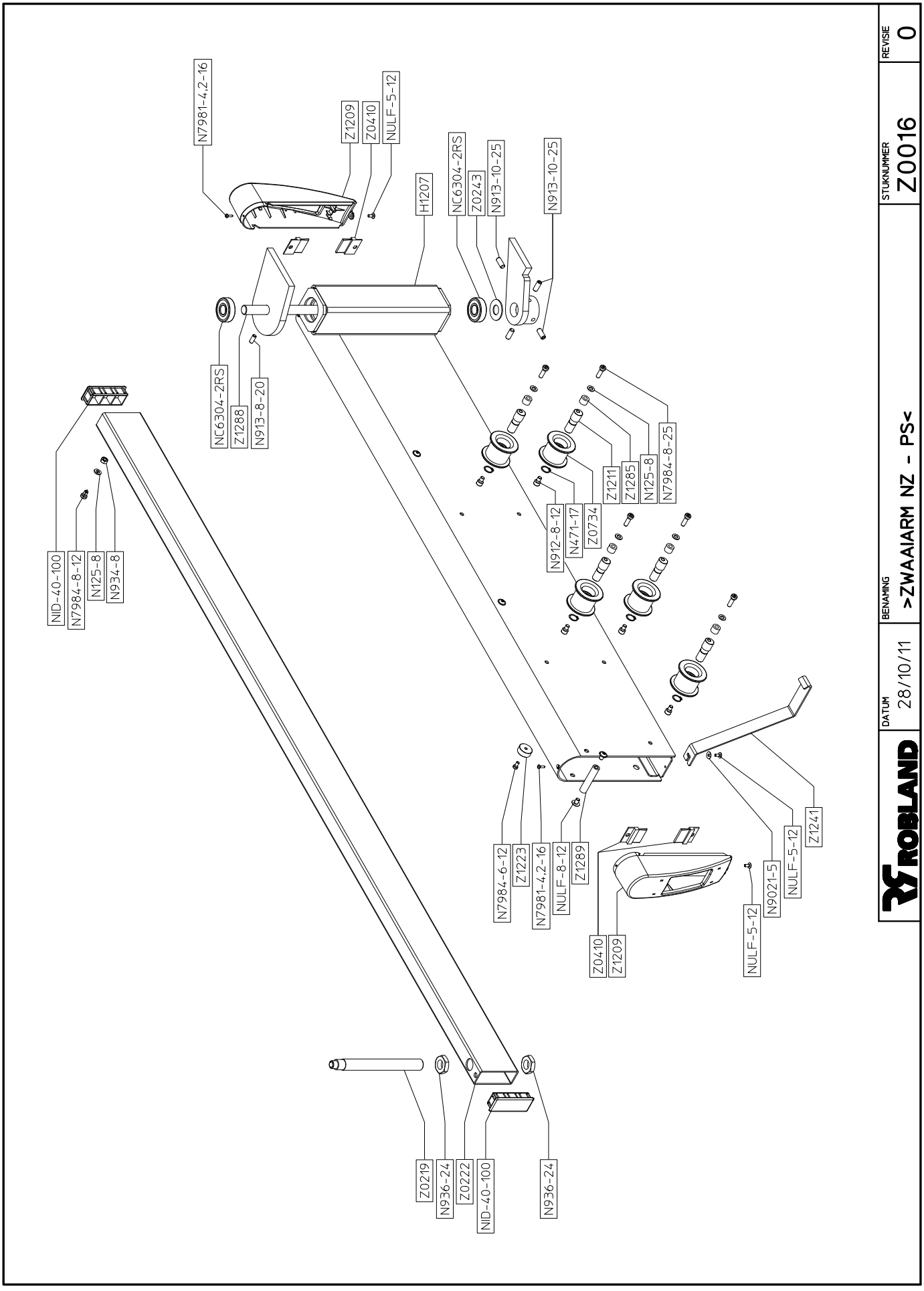
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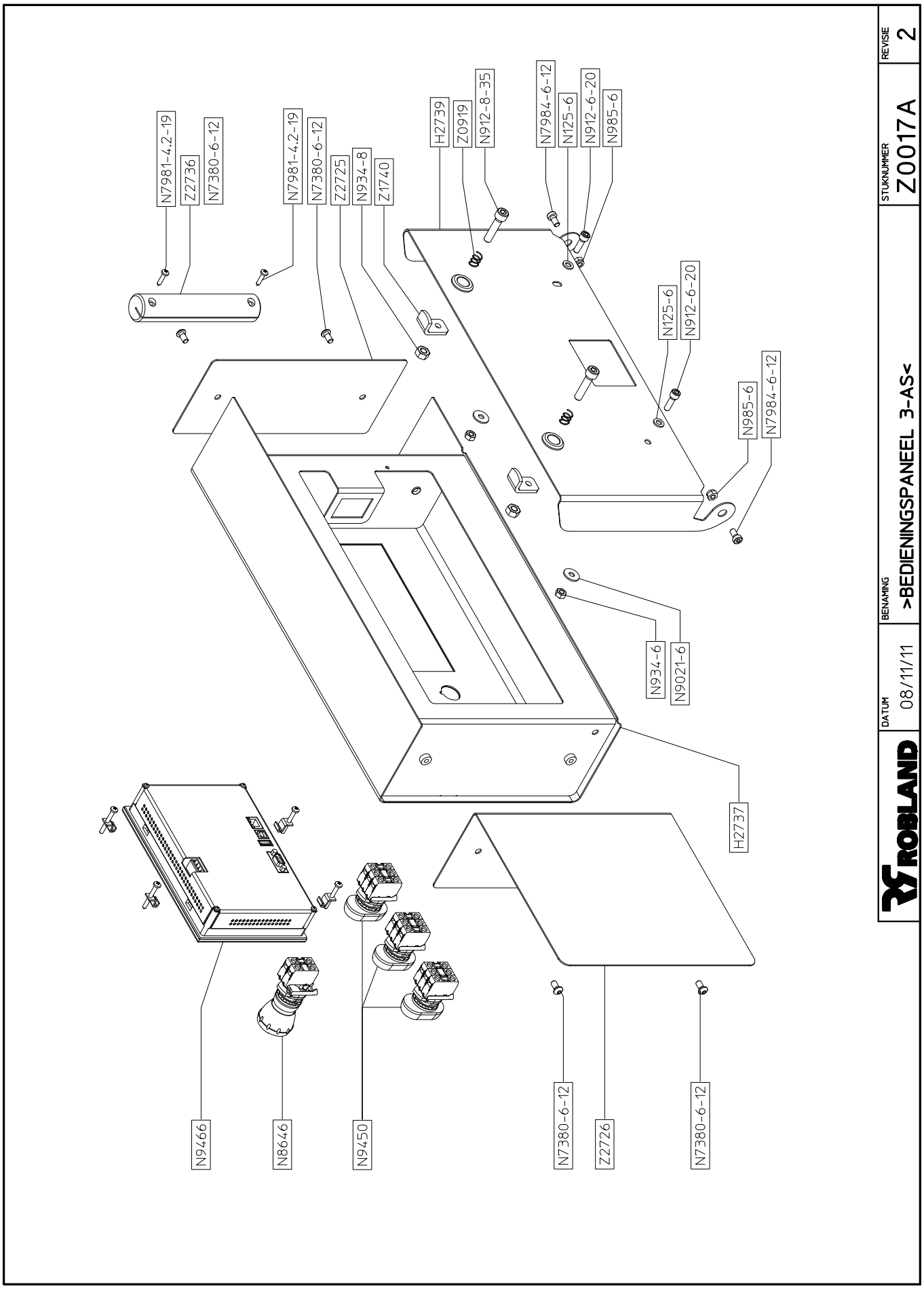
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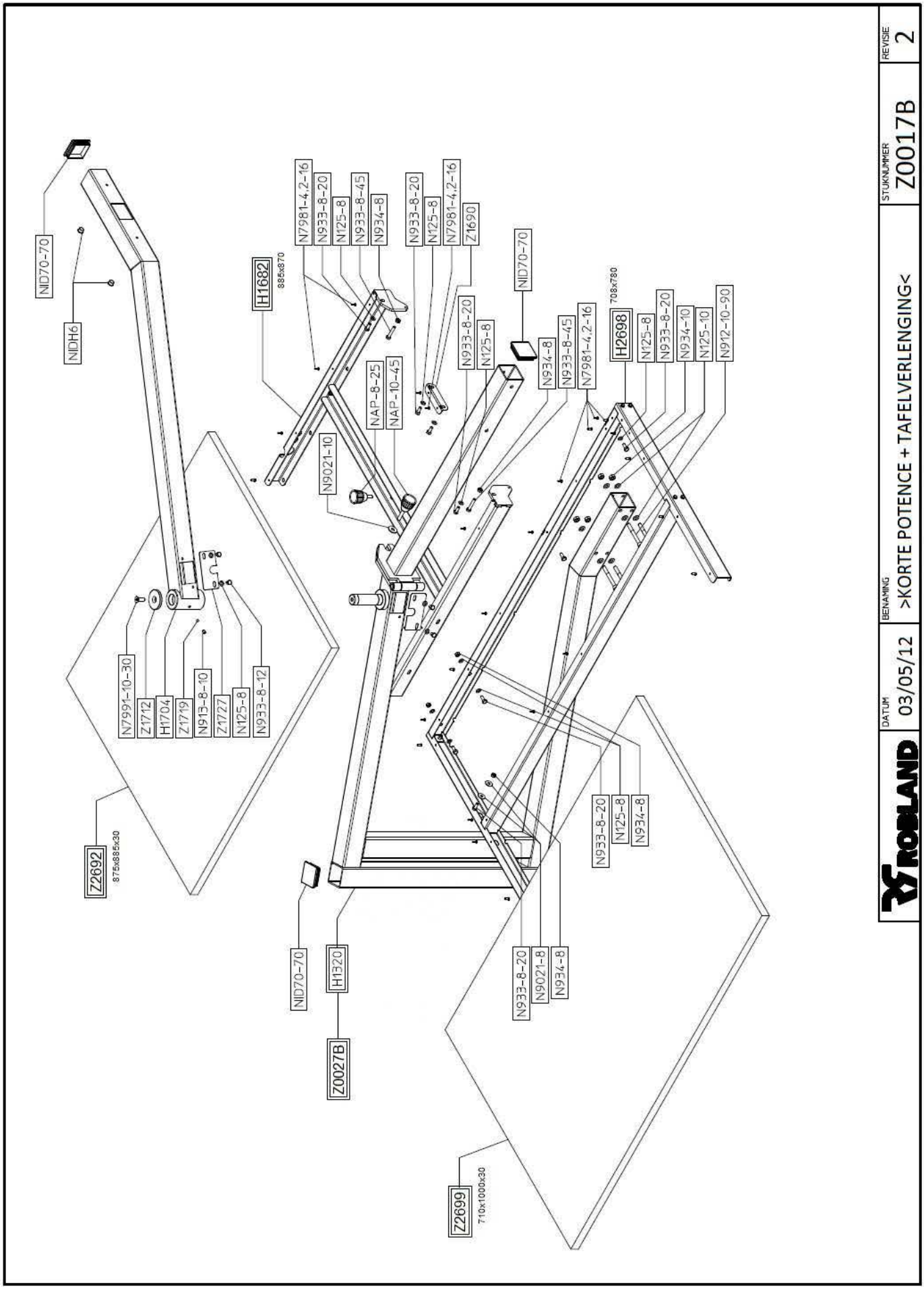
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Z1719
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Z1727
N125-8
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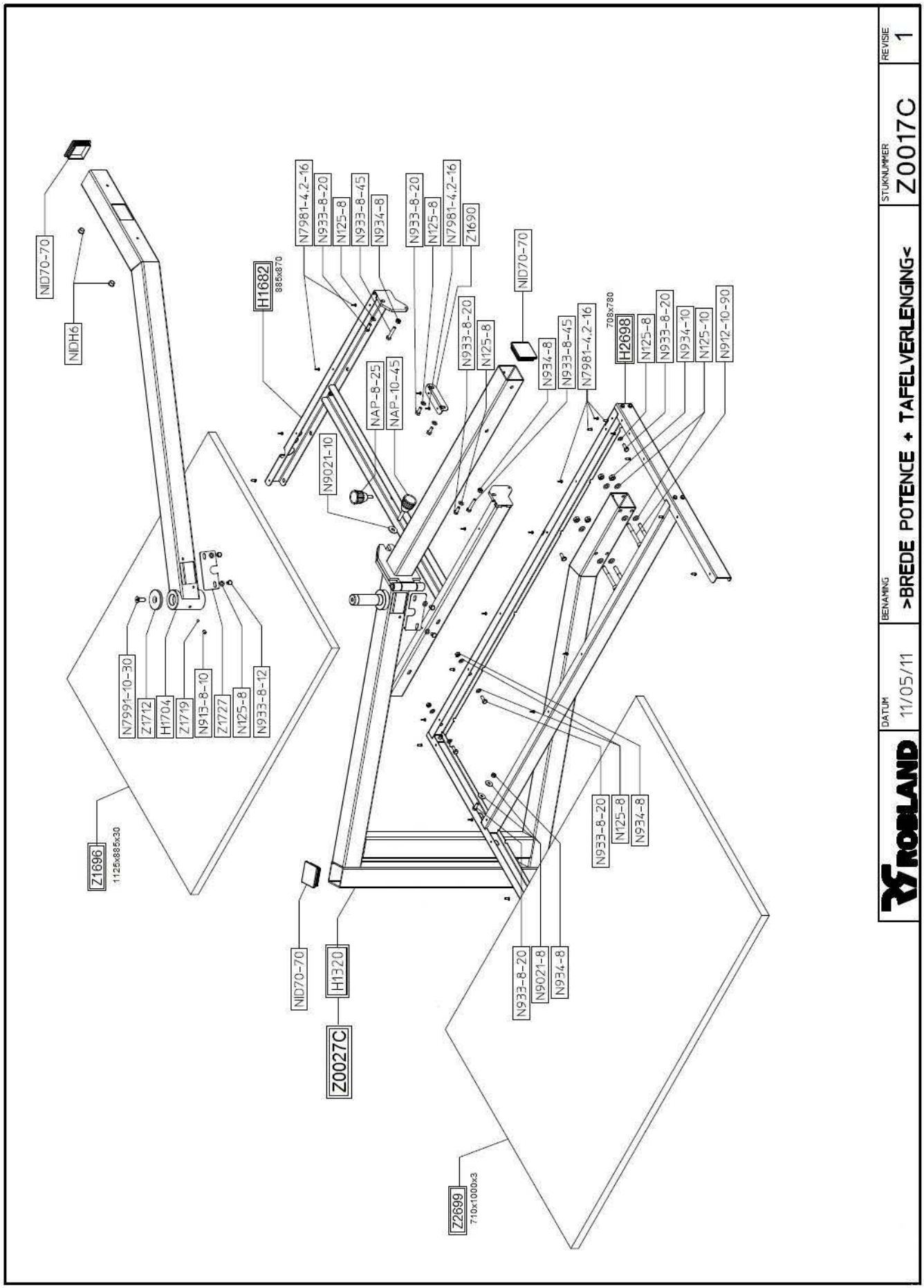
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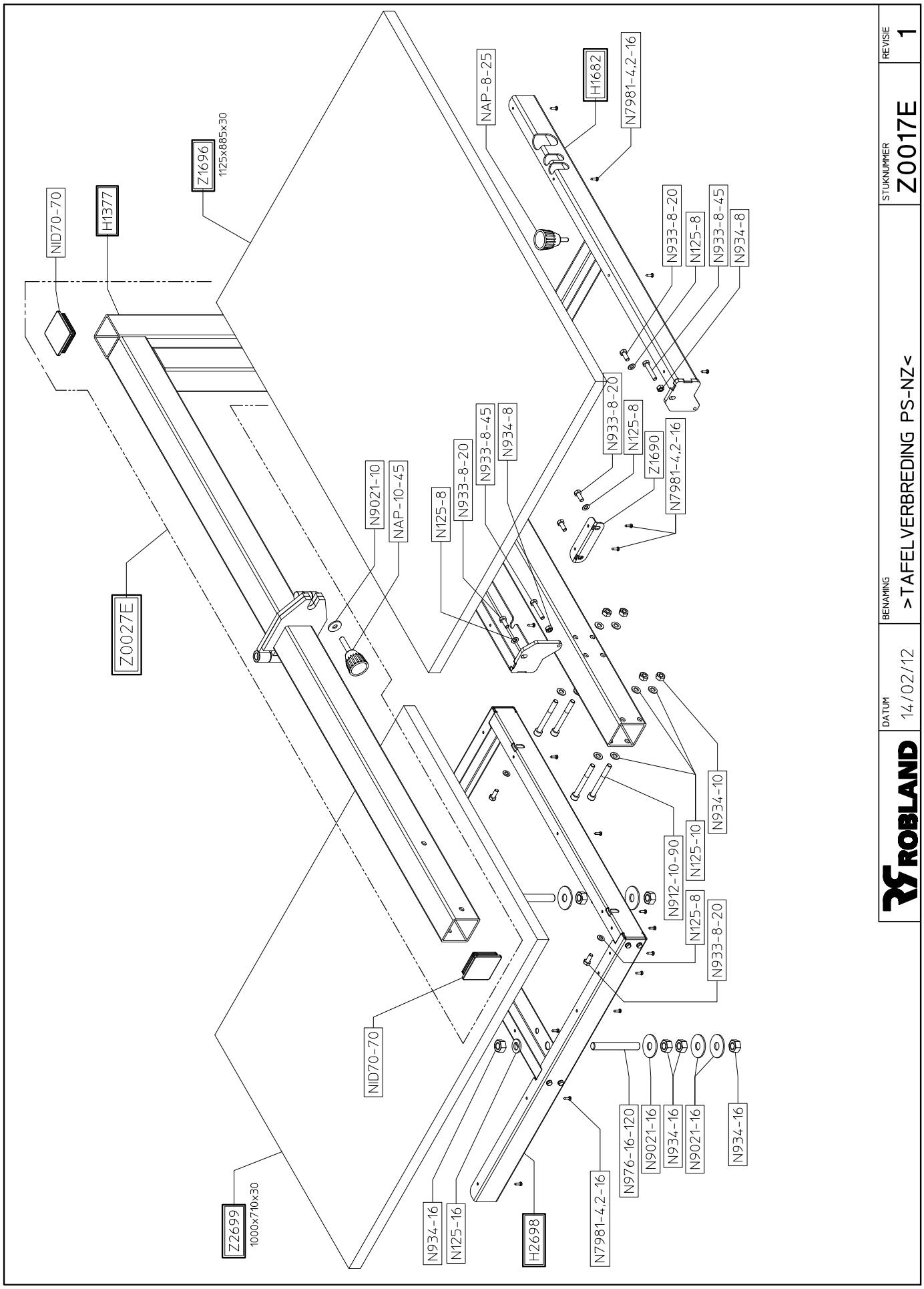
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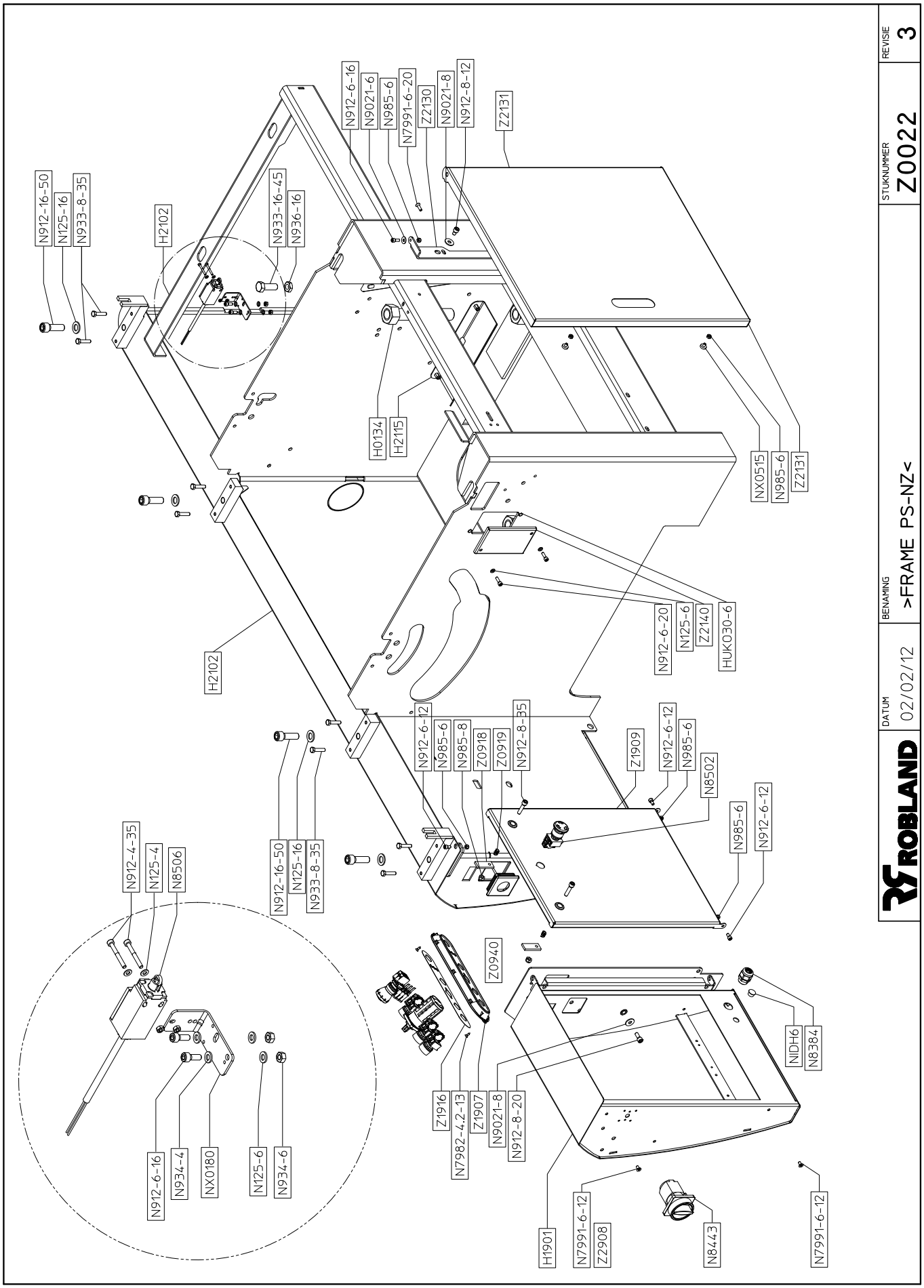
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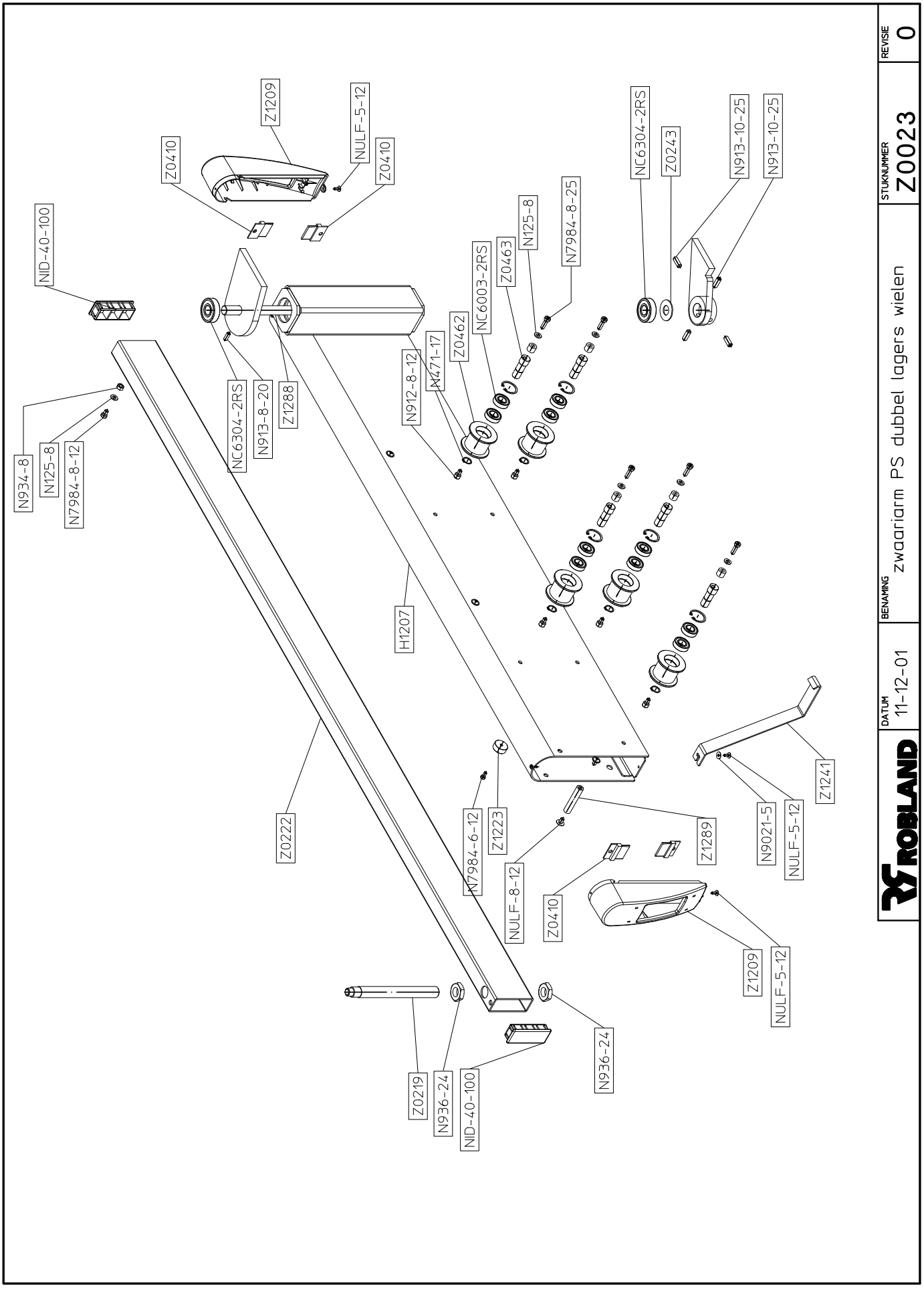
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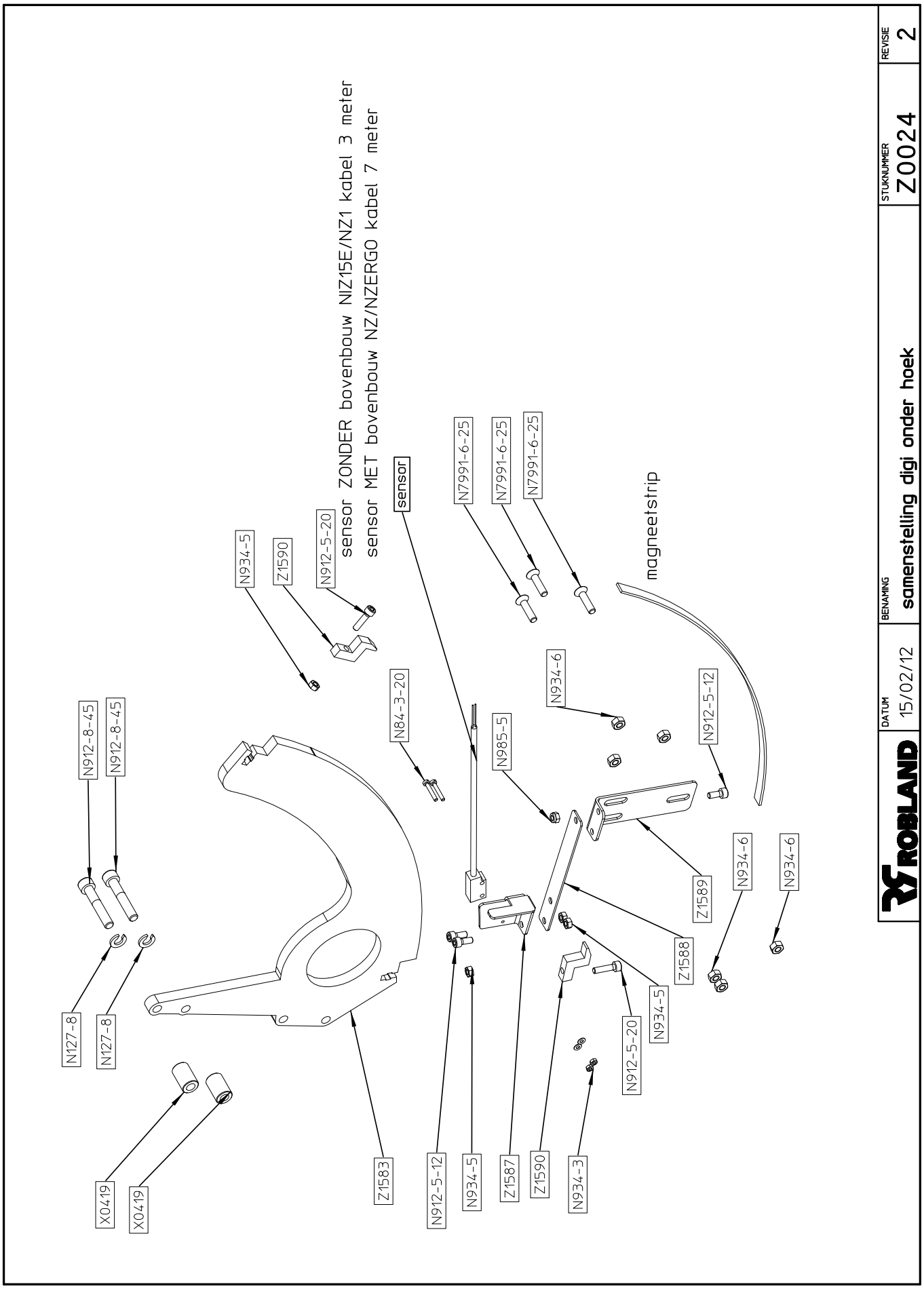
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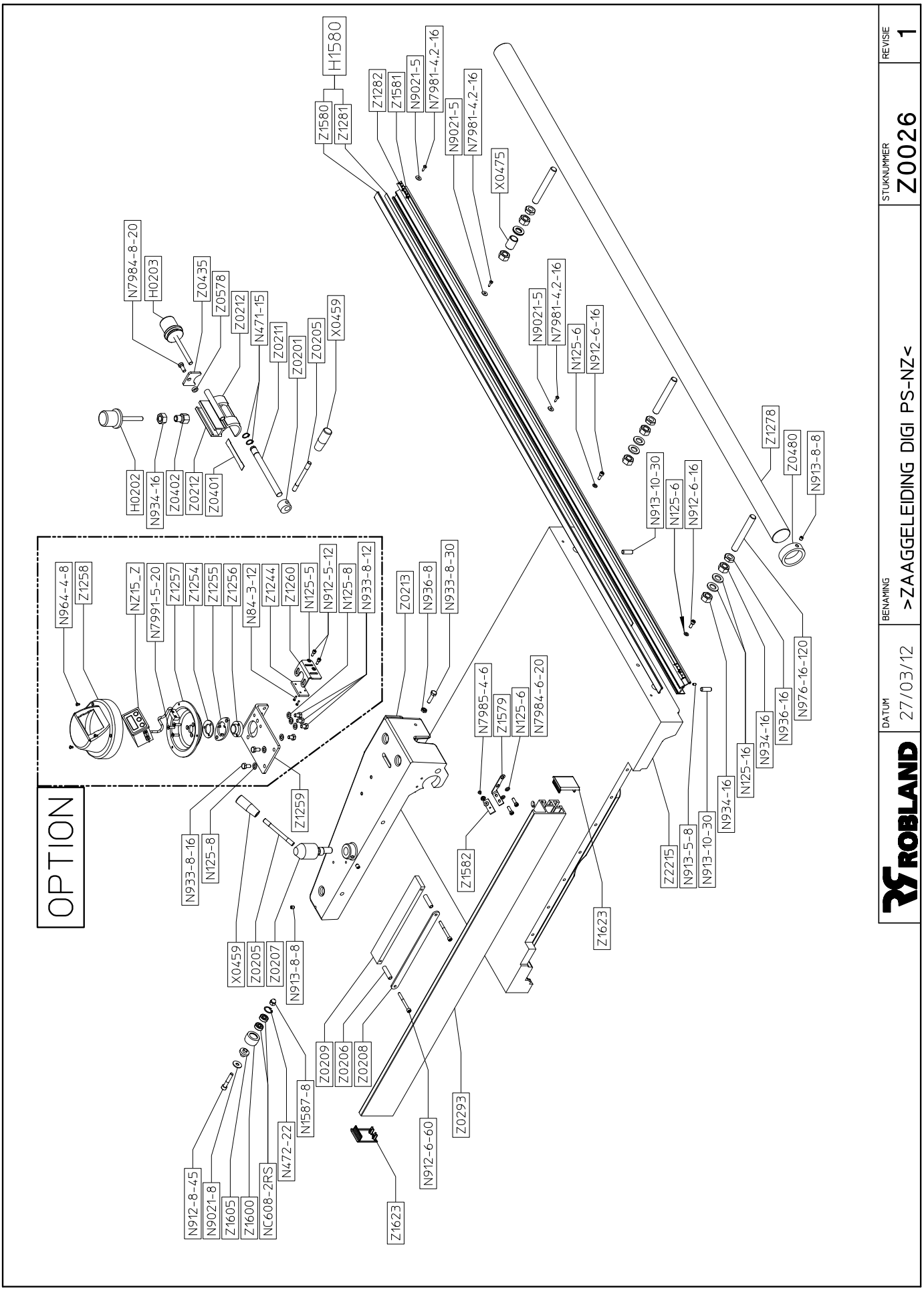
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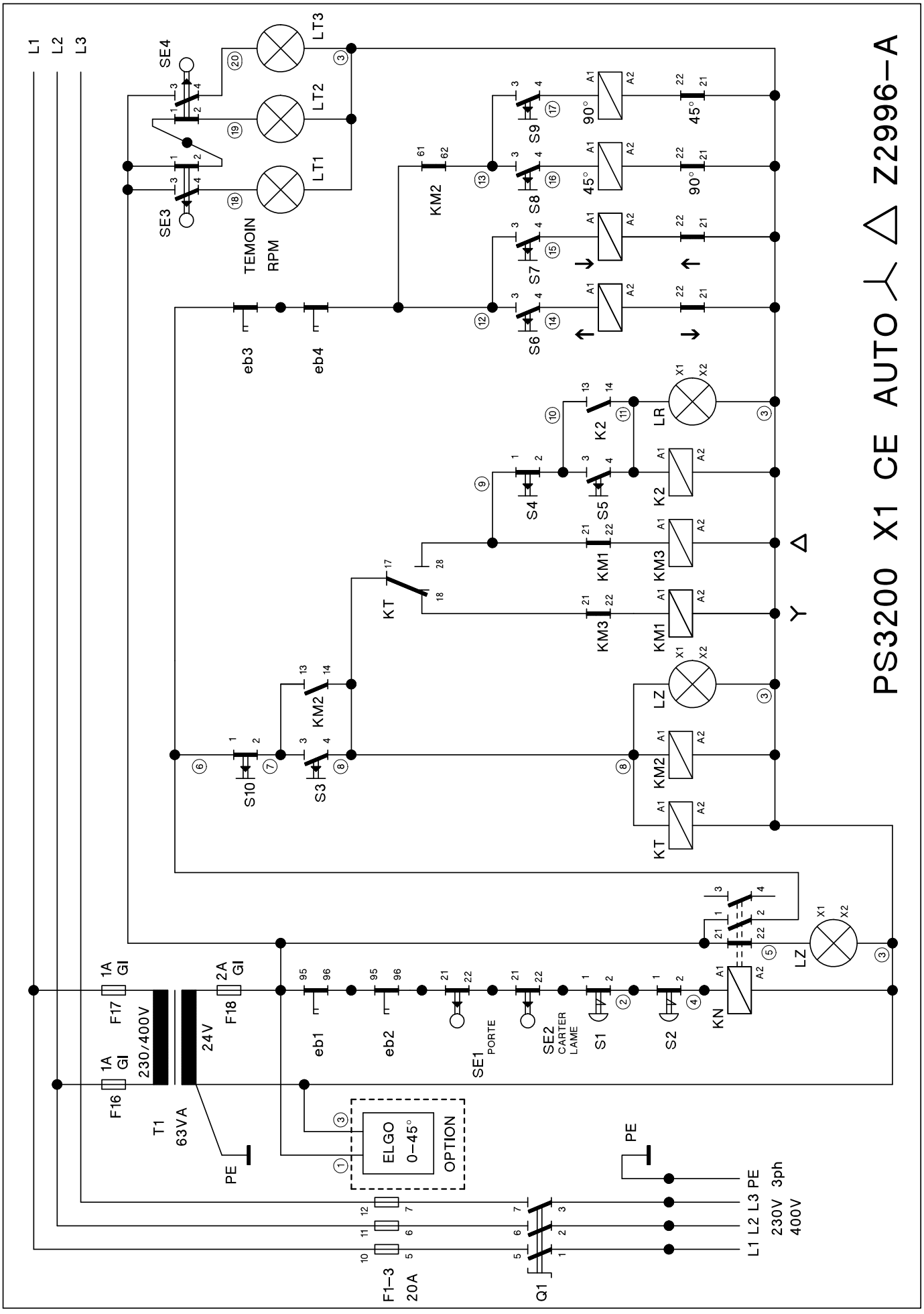
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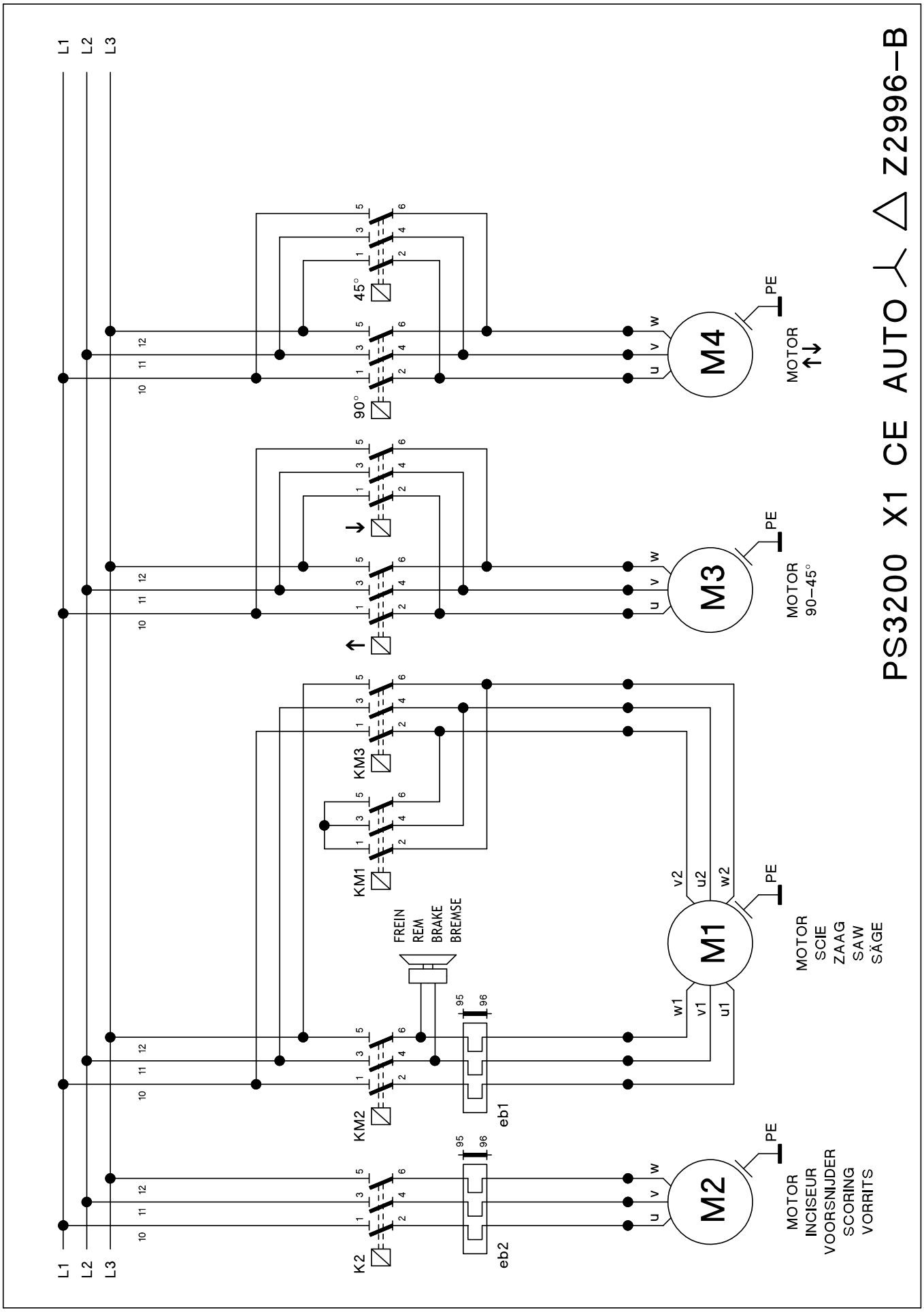
SE4
SE3
LT3
LT2
LT1
TEMOIN RPM
KM2
S9
S8
S7
S6
90°
45°
eb3
eb4
K2
LR
S4
S5
KM1
KM3
KT
S10
S3
LZ
F17 1A GI
F16 1A GI
230/400V
24V
F18 2A GI
T1 63VA
eb1
eb2
SE1 PORTE
SE2 CARTER LAME
S1
S2
KN
ELGO 0–45°
OPTION
PE
F1–3 20A
Q1
L1 L2 L3 PE
230V 3ph
400V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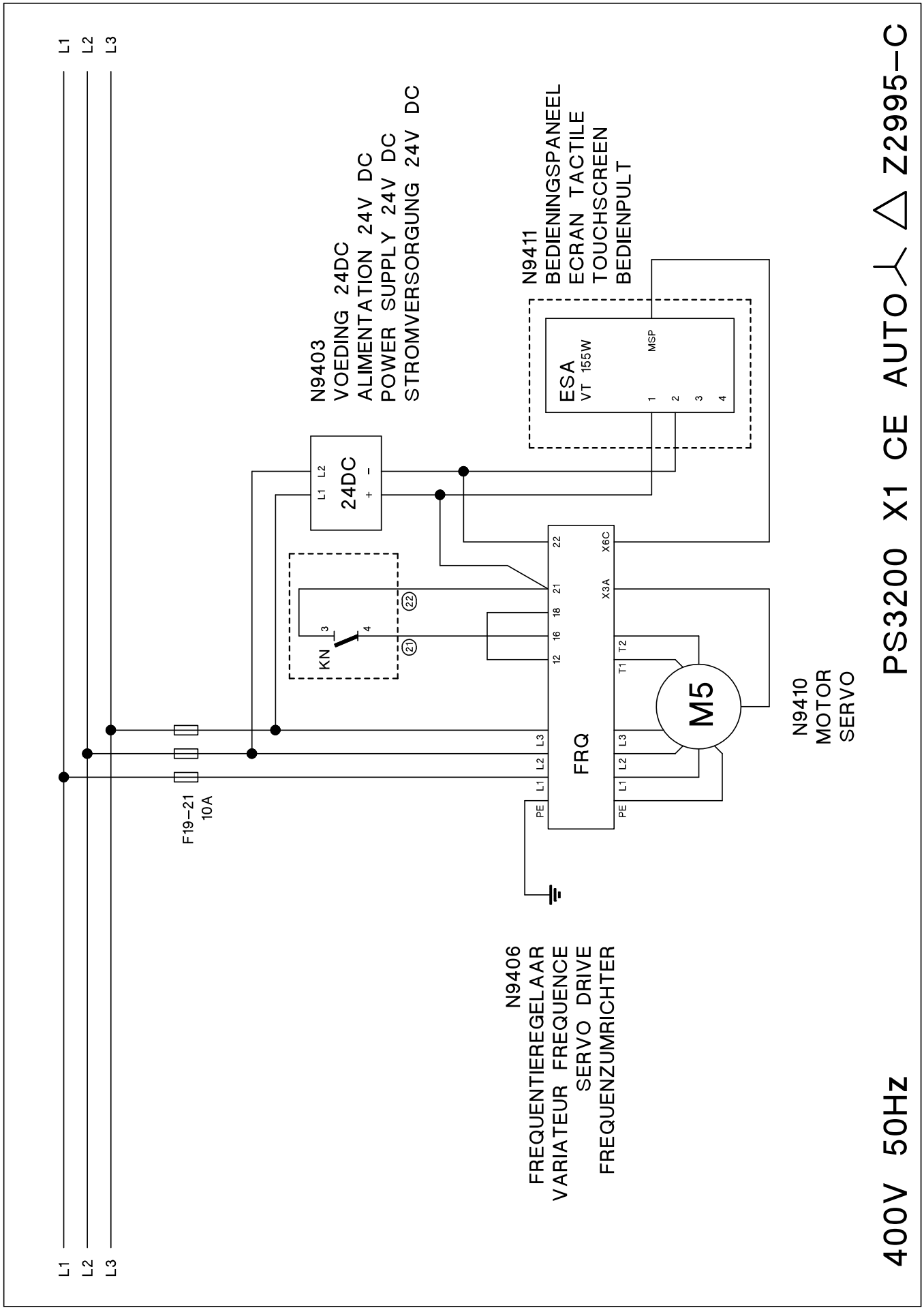
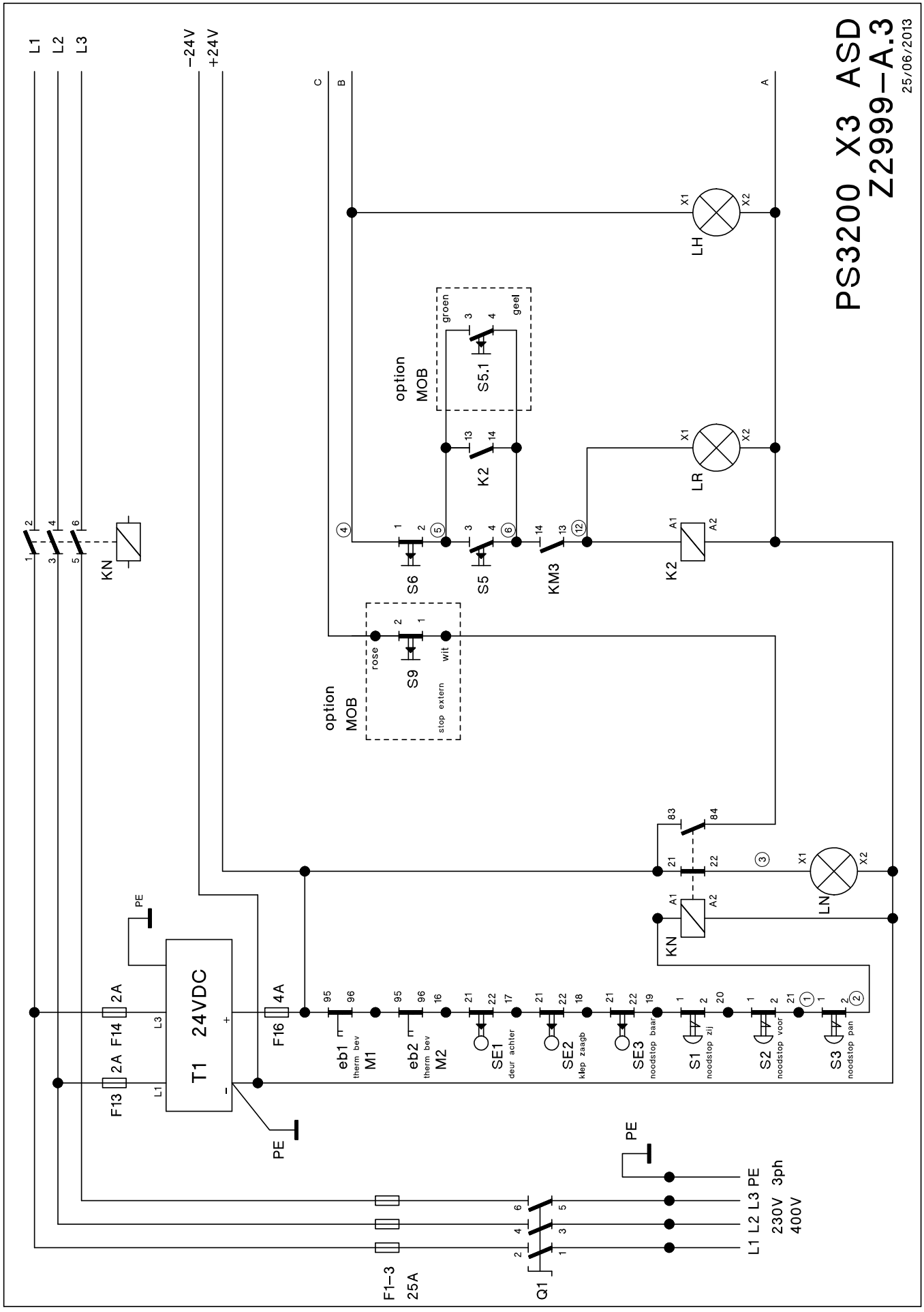
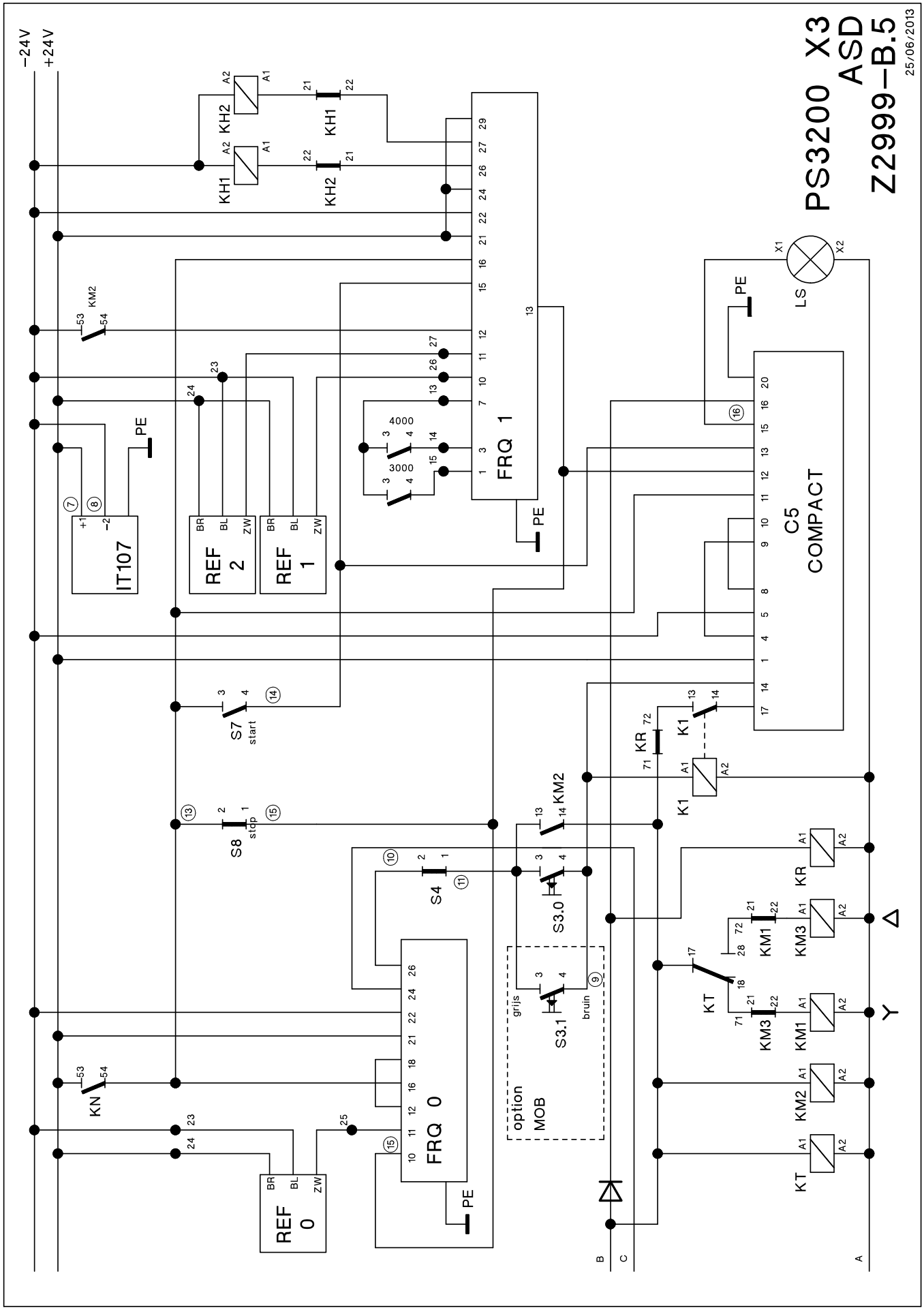
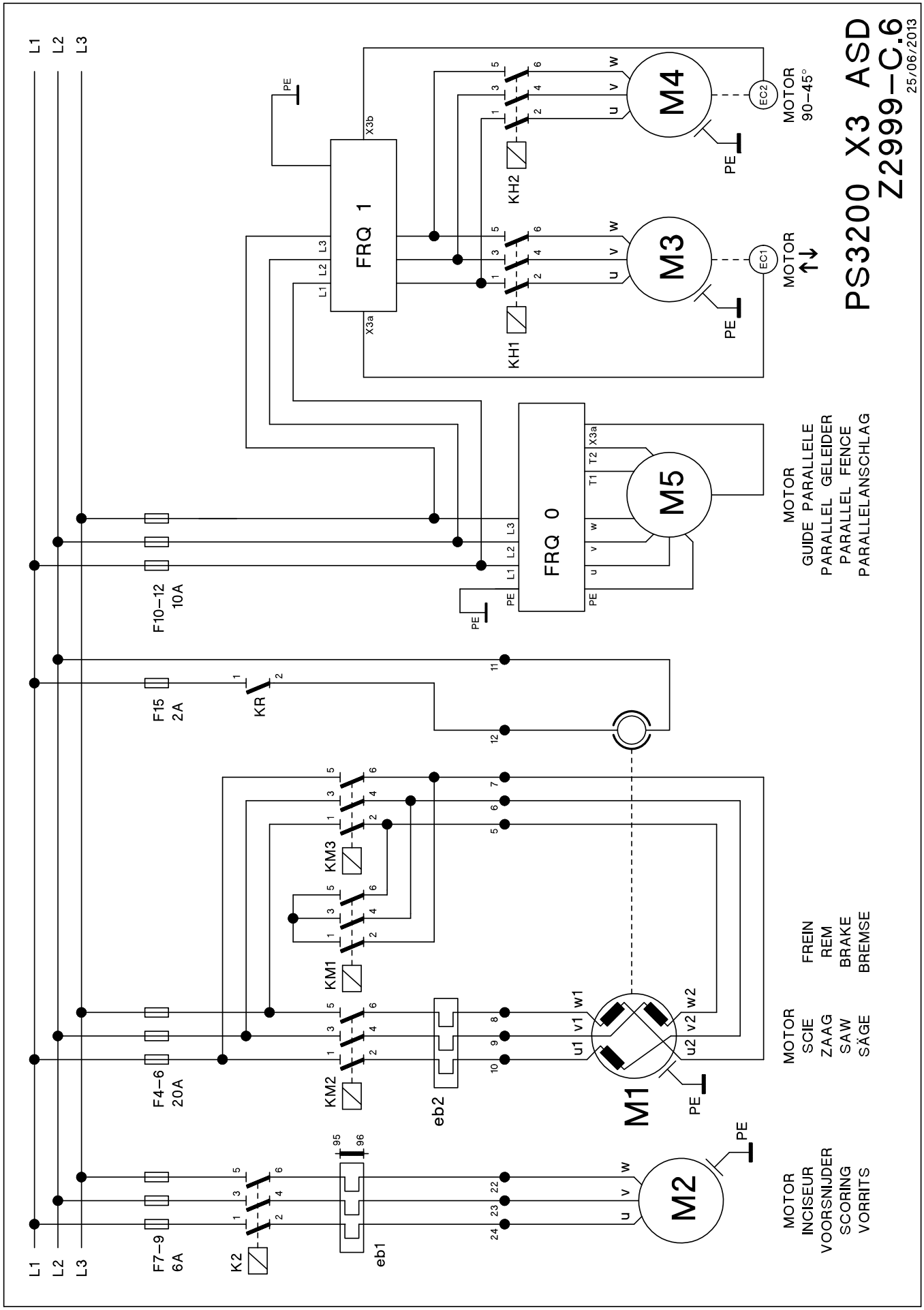
L2
L3
M4
MOTOR
M3
MOTOR
90-45°
M1
MOTOR
SCIE
ZAAG
SAW
SÄGE
M2
MOTOR
INCISEUR
VOORSNIJDER
SCORING
VORRITS
PE
45°
90°
KM1
KM2
KM3
K2
FREIN
REM
BRAKE
BREMSE
eb1
eb2
u
v
w
u1
v1
w1
u2
v2
w2
95
96


PS3200 X1 CE AUTO △ Z2995-C
400V 50Hz
L1
L2
L3
F19-21
10A
N9403
VOEDING 24DC
ALIMENTATION 24V DC
POWER SUPPLY 24V DC
STROMVERSORGUNG 24V DC
24DC
N9411
BEDIENINGSPANEEL
ECRAN TACTILE
TOUCHSCREEN
BEDIENPULT
ESA
VT 155W
MSP
KN
FRQ
M5
N9410
MOTOR
SERVO
N9406
FREQUENTIEREGELAAR
VARIATEUR FREQUENCE
SERVO DRIVE
FREQUENZUMRICHTER


PS3200 X3 ASD
Z2999–A.3
25/06/2013
L1
L2
L3
–24V
+24V
T1 24VDC
F13 2A
F14 2A
F16 4A
KN
K2
KM3
S5
S6
S9
S5.1
option MOB
stop extern
rose
wit
groen
geel
LH
LR
LN
eb1 therm bev M1
eb2 therm bev M2
SE1 deur achter
SE2 klep zaagb
SE3 noodstop baar
S1 noodstop zij
S2 noodstop voor
S3 noodstop pan
PE
F1–3 25A
Q1
L1 L2 L3 PE
230V 3ph
400V


PS3200 X3
ASD
Z2999-B.5
25/06/2013
-24V
+24V
KH2
KH1
KM2
PE
IT107
REF 2
REF 1
REF 0
FRQ 1
FRQ 0
4000
3000
C5
COMPACT
LS
S7
start
S8
stop
S4
S3.0
S3.1
grijs
bruin
option
MOB
KR
K1
KM1
KM3
KT
KN
A
B
C
Δ
Y


PS3200 X3 ASD
Z2999–C.6
25/06/2013
L1
L2
L3
F10–12
10A
F15
2A
F4–6
20A
F7–9
6A
K2
KR
KM1
KM2
KM3
KH1
KH2
eb1
eb2
FRQ 1
FRQ 0
X3a
X3b
M1
M2
M3
M4
M5
EC1
EC2
PE
MOTOR
SCIE
ZAAG
SAW
SÄGE
FREIN
REM
BRAKE
BREMSE
MOTOR
INCISEUR
VOORSNIJDER
SCORING
VORRITS
MOTOR
GUIDE PARALLELE
PARALLEL GELEIDER
PARALLEL FENCE
PARALLELANSCHLAG
MOTOR
90–45°
MOTOR