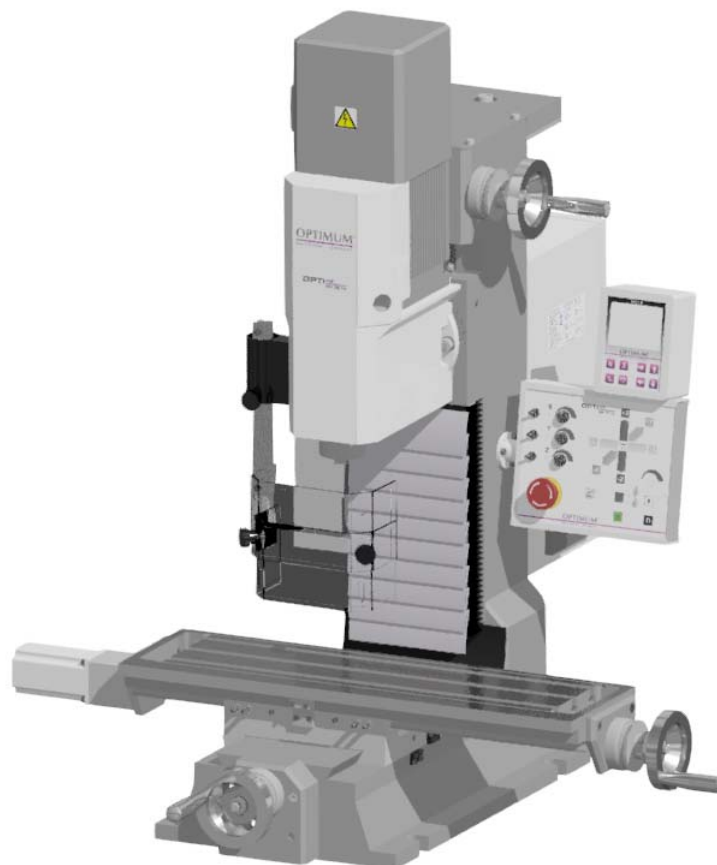


# Ersatzteile Spare parts

Fräsmaschine  
Milling machine

**OPTi**mill<sup>®</sup>  
MH 25 SV

Artikel Nr. *Item no.* 333 8160



## 1 Ersatzteile - Spare parts

### 1.1 Ersatzteilbestellung - Ordering spare parts

Bitte geben Sie folgendes an - *Please indicate the following :*

- Seriennummer - *Serial No.*
- Maschinenbezeichnung - *Machines name*
- Herstellungsdatum - *Date of manufacture*
- Artikelnummer - *Article no.*

Die Artikelnummer befindet sich in der Ersatzteilliste. *The article no. is located in the spare parts list.* Die Seriennummer befindet sich am Typschild. *The serial no. is on the rating plate.*

### 1.2 Hotline Ersatzteile - Spare parts Hotline



+49 (0) 951-96555 -118

ersatzteile@stuermer-maschinen.de



### 1.3 Service Hotline



+49 (0) 951-96555 -100

service@stuermer-maschinen.de



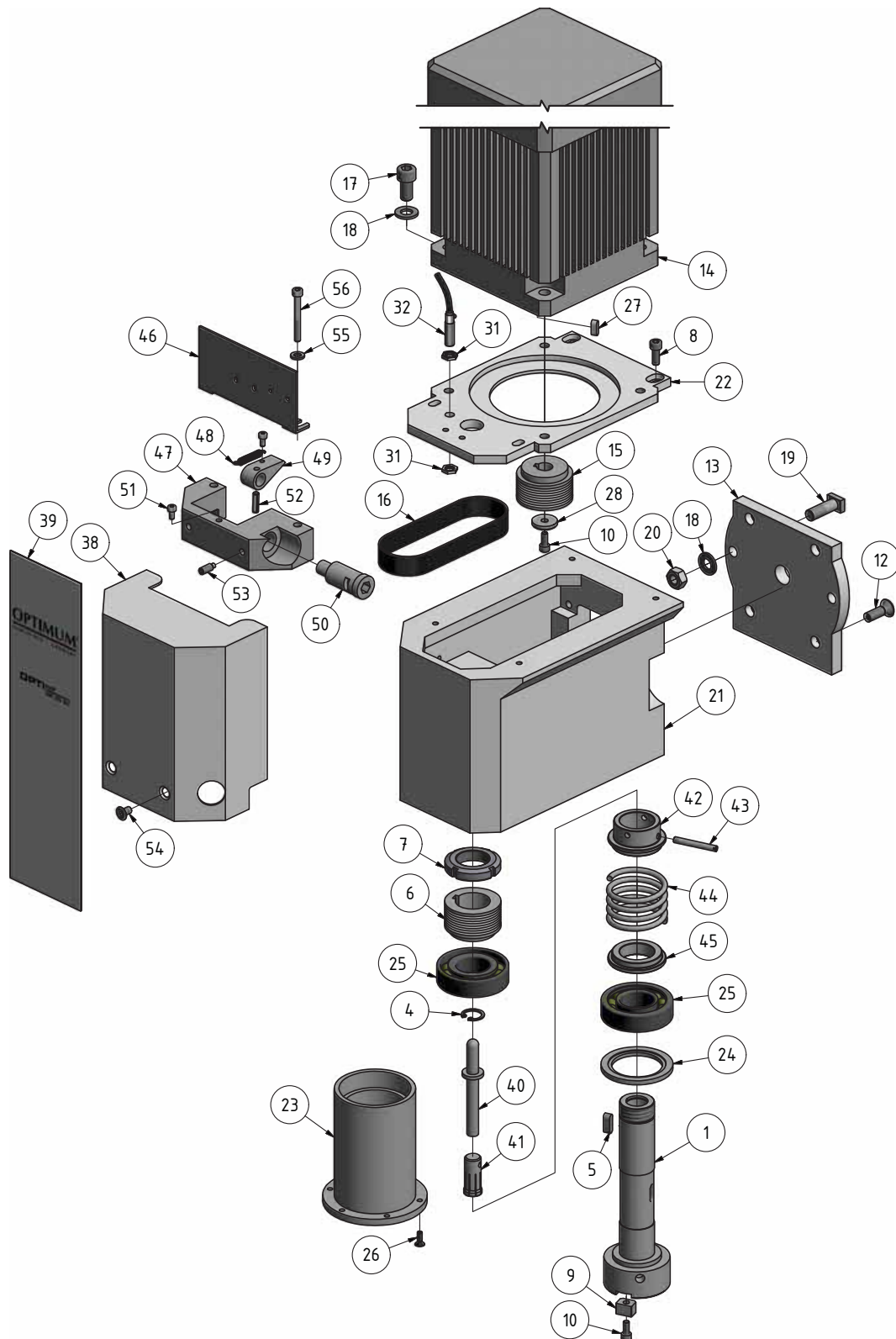
### 1.4 Elektrische Ersatzteile - Electrical spare parts

### 1.5 Schaltplan - Wiring diagram

Der aktuelle Schaltplan mit Ersatzteilliste befindet sich im Schaltschrank der Fräsmaschine.  
*The current circuit diagram and spare parts list is located in the control cabinet of the milling machine.*

## 1.6 Ersatzteilzeichnungen - Spare part drawings

### A Fräskopf - Milling head

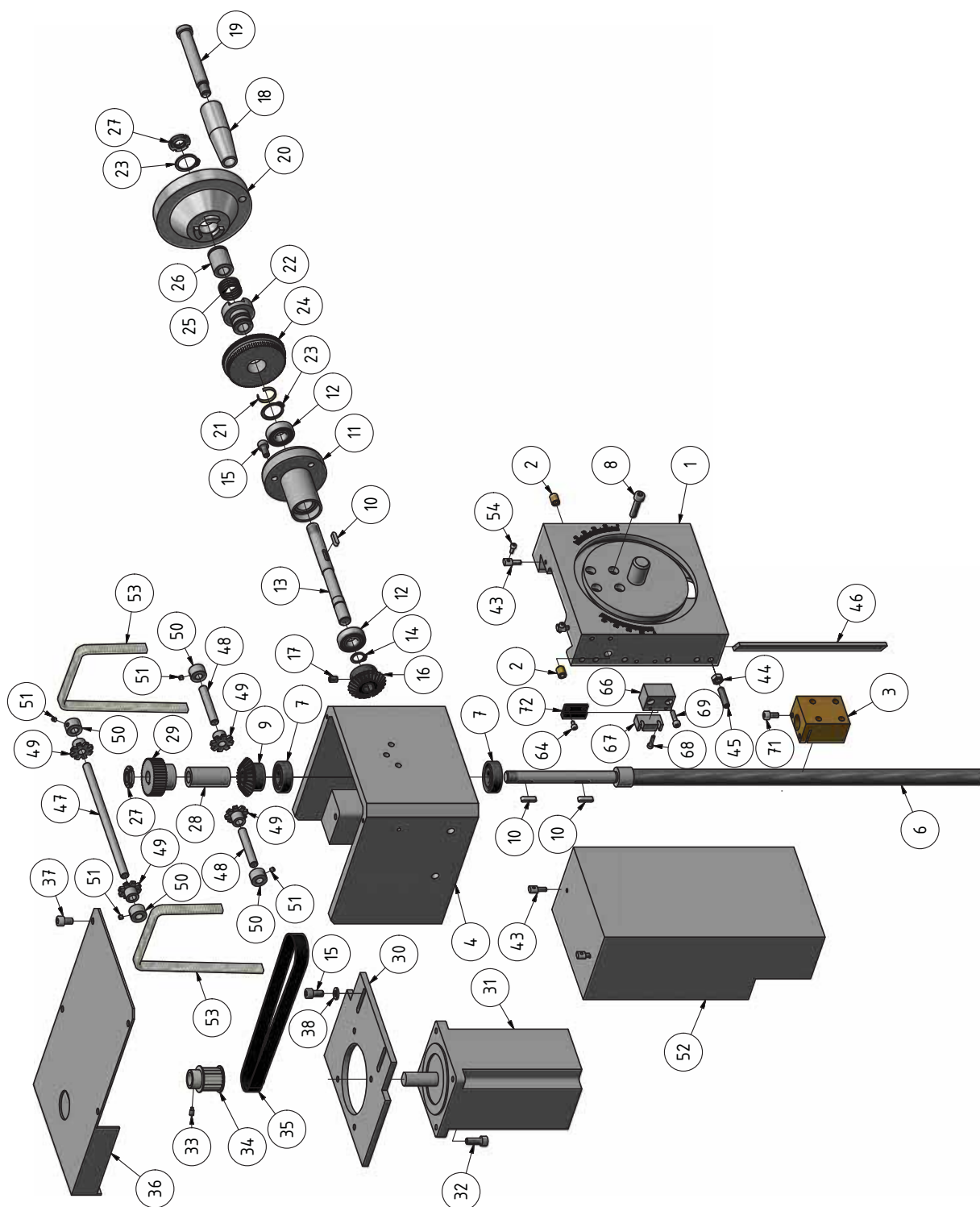


Img.1-1: Fräskopf - Milling head

| Teileliste Fräskopf - Parts list milling head - MH25SV |                        |                       |       |                                                                                                                           |               |
|--------------------------------------------------------|------------------------|-----------------------|-------|---------------------------------------------------------------------------------------------------------------------------|---------------|
| Pos.                                                   | Bezeichnung            | Description           | Menge | Grösse                                                                                                                    | Artikelnummer |
|                                                        |                        |                       | Qty.  | Size                                                                                                                      | Item no.      |
| 1                                                      | Bohrspindel            | Drill spindle         | 1     |                                                                                                                           | 03338160101   |
| 4                                                      | Sicherungsring         | Retaining ring        | 1     | 19                                                                                                                        |               |
| 5                                                      | Passfeder              | Fitting key           | 1     | DIN 6885 - A 6 x 6 x 18                                                                                                   | 03338160105   |
| 6                                                      | Riemenscheibe          | Pulley                | 1     |                                                                                                                           |               |
| 7                                                      | Nutmutter              | Groove nut            | 1     | M30 x 1,5                                                                                                                 |               |
| 8                                                      | Innensechskantschraube | Socket head screw     | 4     | ISO 4762 - M6 x 16                                                                                                        |               |
| 9                                                      | Nutenstein             | Slot nut              | 2     |                                                                                                                           | 03338160109   |
| 10                                                     | Innensechskantschraube | Socket head screw     | 3     | ISO 4762 - M5 x 12                                                                                                        |               |
| 11                                                     | Scheibe                | Washer                | 2     | DIN 125 - A 6,4                                                                                                           |               |
| 12                                                     | Schraube               | Screw                 | 4     | M8 x 25                                                                                                                   |               |
| 13                                                     | Platte                 | Plate                 | 1     |                                                                                                                           | 03338160113   |
| 14                                                     | Motor                  | Motor                 | 1     | SSM15 - A2 - 1.5-15/90<br>Senlima Electric Motor<br>1.5 KW ; 400/230V<br>3.5 / 6.1A ; 10.1 Nm<br>S1 ; IP54 ; Ins. class F | 03338160114   |
| 15                                                     | Riemenscheibe          | Pulley                | 1     |                                                                                                                           | 03338160115   |
| 16                                                     | Flachriemen            | Flat belt             | 1     |                                                                                                                           | 03338160116   |
| 17                                                     | Innensechskantschraube | Socket head screw     | 4     | ISO 4762 - M10 x 20                                                                                                       |               |
| 18                                                     | Scheibe                | Washer                | 6     | DIN 125 - A 10,5                                                                                                          |               |
| 19                                                     | T-Schraube             | T-Screw               | 2     |                                                                                                                           | 03338160119   |
| 20                                                     | Sechskantmutter        | Hexagon nut           | 2     | ISO 4032 - M10                                                                                                            |               |
| 21                                                     | Gehäuse                | Housing               | 1     |                                                                                                                           | 03338160121   |
| 22                                                     | Motorplatte            | Motor plate           | 1     |                                                                                                                           | 03338160122   |
| 23                                                     | Pinole                 | Sleeve                | 1     |                                                                                                                           | 03338160123   |
| 24                                                     | Ring                   | Ring                  | 1     |                                                                                                                           | 03338160124   |
| 25                                                     | Kugellager             | Ball bearing          | 2     | 7206                                                                                                                      | 0407206       |
| 26                                                     | Schraube               | Screw                 | 6     | ISO 7046/M4 x 12                                                                                                          |               |
| 27                                                     | Passfeder              | Fitting key           | 1     | DIN 6885 - A 5 x 5 x 14                                                                                                   |               |
| 28                                                     | Scheibe                | Washer                | 1     |                                                                                                                           | 03338160128   |
| 31                                                     | Sechskantmutter        | Hexagon nut           | 2     |                                                                                                                           | 03338160131   |
| 32                                                     | Drehzahlsensor         | Rotation speed sensor | 1     |                                                                                                                           | 033381602B2   |
| 38                                                     | Abdeckung              | Cover                 | 1     |                                                                                                                           | 03338160138   |
| 39                                                     | Frontlabel             | Front lable           | 1     |                                                                                                                           | 03338160139   |
|                                                        |                        |                       |       |                                                                                                                           |               |
| 40                                                     | Stößel                 | Plunger               | 1     |                                                                                                                           | 03338155140   |
| 41                                                     | Schnapper              | Catcher               | 1     |                                                                                                                           | 03338155141   |
| 42                                                     | Buchse                 | Bushing               | 1     |                                                                                                                           | 03338155142   |
| 43                                                     | Gewindestift           | Grub screw            | 1     |                                                                                                                           | 03338155143   |
| 44                                                     | Feder                  | Spring                | 1     |                                                                                                                           | 03338155144   |

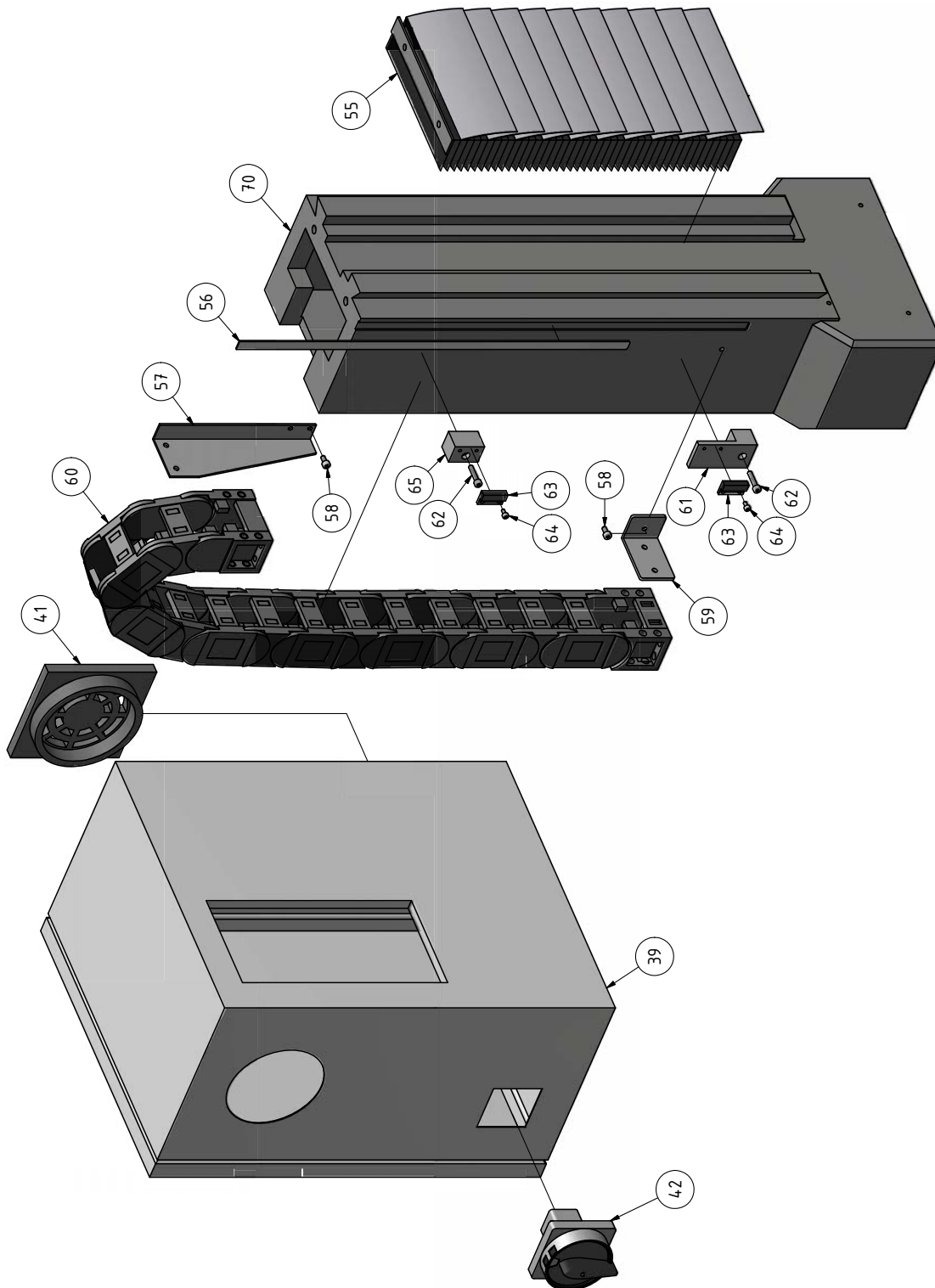
|    |                        |                   |   |       |             |
|----|------------------------|-------------------|---|-------|-------------|
| 45 | Ring                   | Ring              | 1 |       | 03338155145 |
| 46 | Platte                 | Plate             | 1 |       | 03338155146 |
| 47 | Führung                | Guide             | 1 |       | 03338155147 |
| 48 | Feder                  | Spring            | 1 |       | 03338155148 |
| 49 | Exzenter               | Eccentric         | 1 |       | 03338155149 |
| 50 | Bolzen                 | Bolt              | 1 |       | 03338155150 |
| 51 | Innensechskantschraube | Socket head screw | 2 | M4x8  |             |
| 52 | Spannstift             | Spring pin        | 1 |       | 03338155152 |
| 53 | Gewindestift           | Grub screw        | 1 | M6x14 |             |
| 54 | Senkschraube           | Screw             | 2 | M6x10 |             |
| 55 | Scheibe                | Washer            | 2 | 5     |             |
| 56 | Innensechskantschraube | Socket head screw | 2 | M5x45 |             |

## B Säule - Column 1-2



Img.1-2: Säule - Column 1-2

## C Säule - Column 2-2



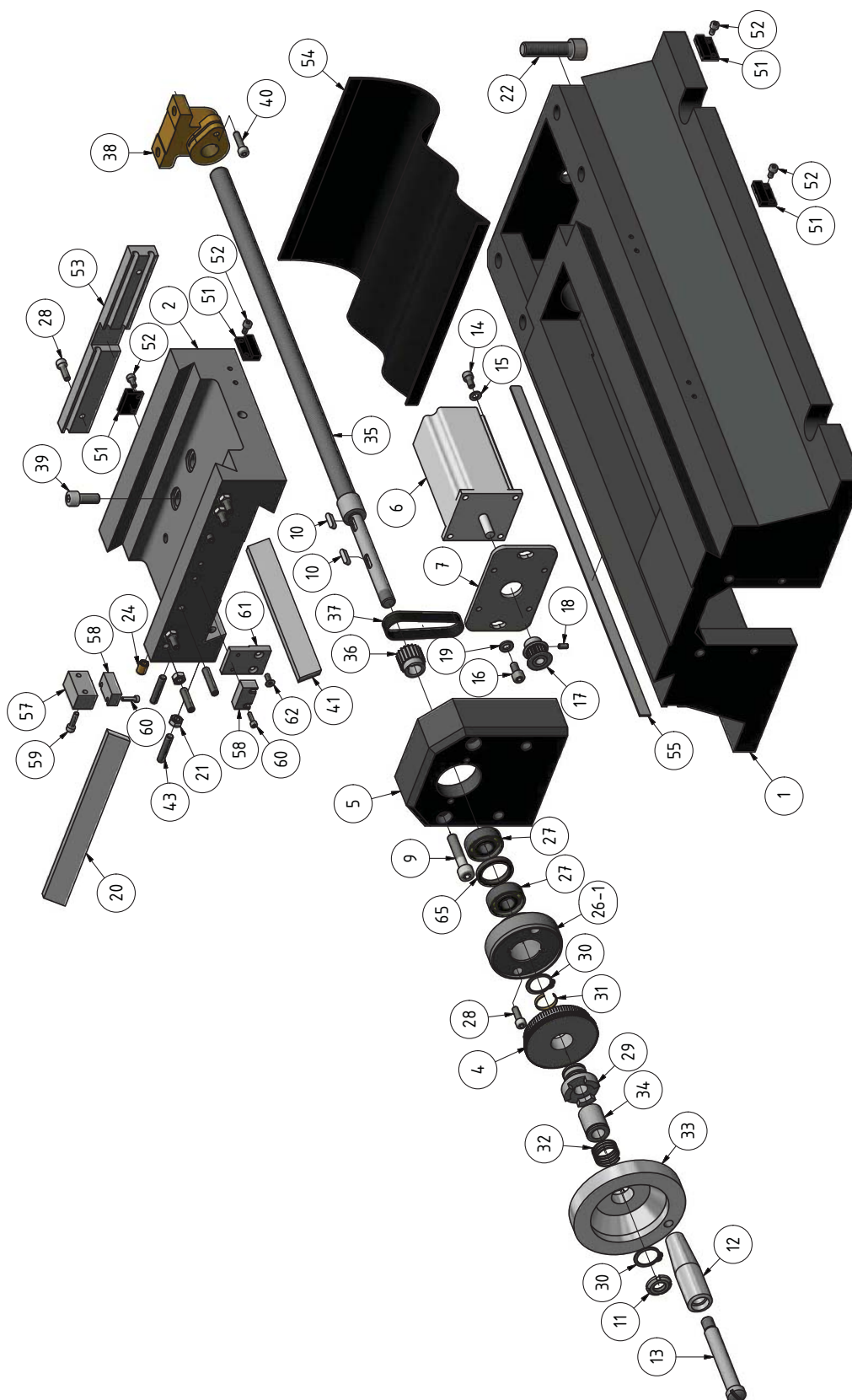
Img.1-3: Säule - Column 2-2

| Teileliste Säule - Parts list column - MH25SV |                        |                   |       |                         |               |
|-----------------------------------------------|------------------------|-------------------|-------|-------------------------|---------------|
| Pos.                                          | Bezeichnung            | Description       | Menge | Grösse                  | Artikelnummer |
|                                               |                        |                   | Qty.  | Size                    | Item no.      |
| 1                                             | Führung                | Guide             | 1     |                         | 03338160201   |
| 2                                             | Schmiernippel          | Lubrication cup   | 2     | 8mm                     | 03338160202   |
| 3                                             | Spindelmutter          | Spindle nut       | 1     |                         | 03338160203   |
| 4                                             | Halter                 | Holder            | 1     |                         | 03338160204   |
| 5                                             | Innensechskantschraube | Socket head screw | 2     | ISO 4762 - M8 x 25      |               |
| 6                                             | Spindel                | Spindle           | 1     |                         | 03338160206   |
| 7                                             | Kugellager             | Ball bearing      | 2     | 7201 BEP                | 0407201       |
| 8                                             | Innensechskantschraube | Socket head screw | 4     | ISO 4762 - M6 x 25      |               |
| 9                                             | Kegelrad               | Bevel gear        | 1     |                         | 03338160209   |
| 10                                            | Passfeder              | Fitting key       | 3     | DIN 6885 - A 4 x 4 x 16 |               |
| 11                                            | Flansch                | Flange            | 1     |                         | 03338160211   |
| 12                                            | Kugellager             | Ball bearing      | 2     | 6001-RZ                 | 0406001.2R    |
| 13                                            | Welle                  | Shaft             | 1     |                         | 03338160213   |
| 14                                            | Sicherungsring         | Retaining ring    | 1     | DIN 471 - 12x1          |               |
| 15                                            | Innensechskantschraube | Socket head screw | 5     | ISO 4762 - M6 x 12      |               |
| 16                                            | Kegelrad               | Bevel gear        | 1     |                         | 03338160216   |
| 17                                            | Schraube               | Screw             | 1     | DIN 913 - M6 x 8        |               |
| 18                                            | Hülse                  | Sleeve            | 1     |                         | 03338160218   |
| 19                                            | Schraube               | Screw             | 1     |                         | 03338160219   |
| 20                                            | Handrad                | Handle            | 1     |                         | 03338160220   |
| 21                                            | Federblech             | Spring            | 1     |                         | 03338160221   |
| 22                                            | Kupplung               | Clutch            | 1     |                         | 03338160222   |
| 23                                            | Sicherungsring         | Retaining ring    | 2     | DIN 471 - 20x1,2        |               |
| 24                                            | Skalenring             | Scala ring        | 1     |                         | 03338160224   |
| 25                                            | Feder                  | Spring            | 1     |                         | 03338160225   |
| 26                                            | Buchse                 | Bushing           | 1     |                         | 03338160226   |
| 27                                            | Nutmutter              | Groove nut        | 2     | DIN 981 - KM 1          |               |
| 28                                            | Buchse                 | Bushing           | 1     |                         | 03338160228   |
| 29                                            | Zahnrad                | Gear              | 1     |                         | 03338160229   |
| 30                                            | Motorplatte            | Motor plate       | 1     |                         | 03338160230   |
| 31                                            | Schrittmotor           | Steppmotor        | 1     | 4,2 Nm ; 6A             | 3573307       |
| 32                                            | Innensechskantschraube | Socket head screw | 4     | ISO 4762 - M6 x 16      |               |
| 33                                            | Gewindestift           | Grub screw        | 1     | ISO 4028 - M4 x 8       |               |
| 34                                            | Zahnriemenscheibe      | Gear wheel        | 1     |                         | 03338160234   |
| 35                                            | Zahnrimen              | Gear belt         | 1     |                         | 03338160235   |
| 36                                            | Abdeckung              | Cover             | 1     |                         | 03338160236   |
| 37                                            | Innensechskantschraube | Socket head screw | 4     | ISO 4762 - M6 x 10      |               |
| 38                                            | Scheibe                | Washer            | 2     | DIN 125 - A 6,4         |               |
| 39                                            | Schaltschrank          | Switch box        | 1     |                         | 03338160239   |
| 41                                            | Lüfter                 | Fan               | 2     |                         | 03338160241   |
| 42                                            | Hauptschalter          | Main switch       | 1     |                         | 03338160242   |
| 43                                            | Spezialschraube        | Special Screw     | 4     | M4x10                   | 03338160243   |



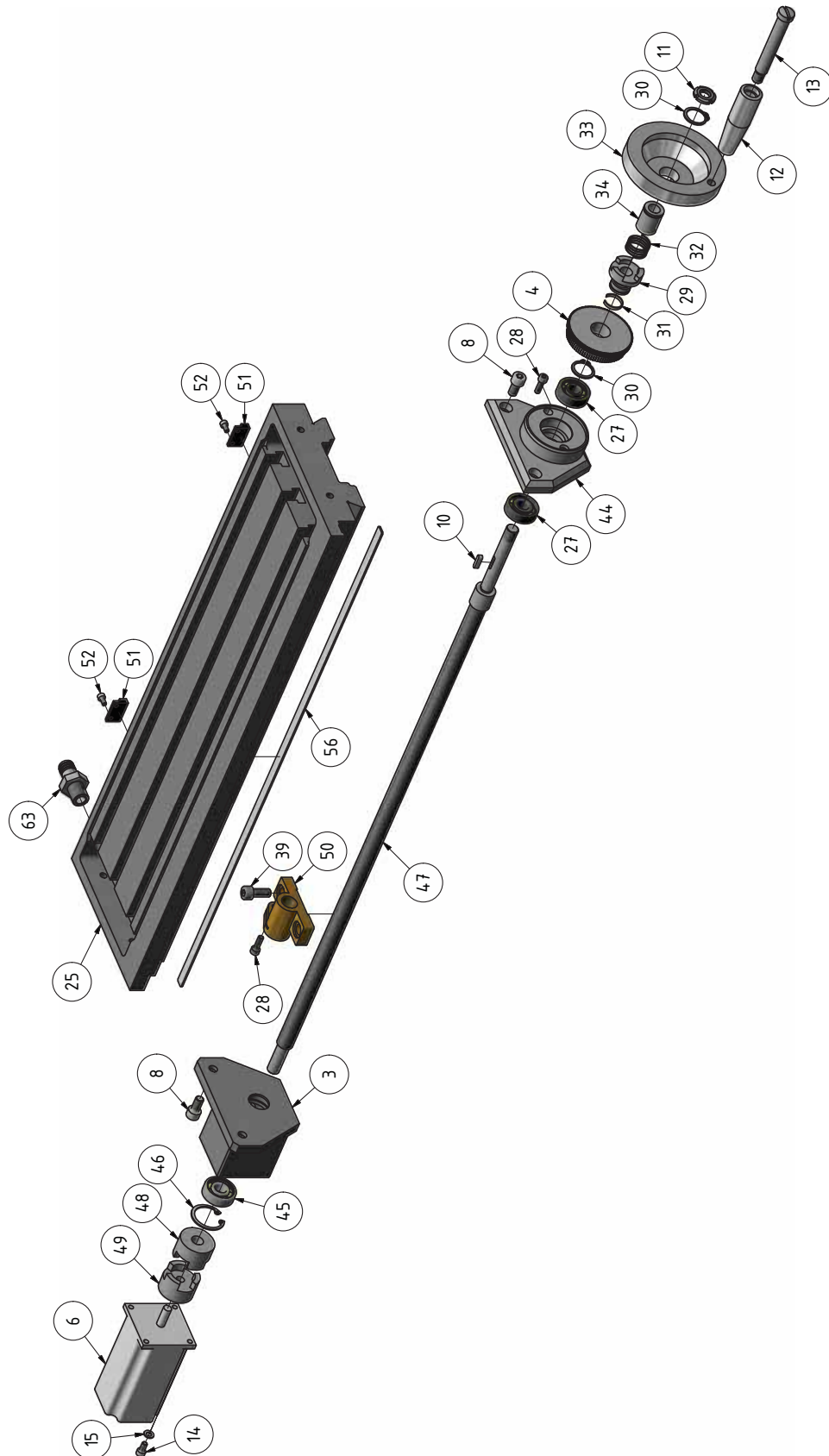
|    |                        |                           |   |                    |                |
|----|------------------------|---------------------------|---|--------------------|----------------|
| 44 | Sechskantmutter        | Hexagon nut               | 6 | ISO 4032 - M6      | 03338160245CPL |
| 45 | Gewindestift           | Grub screw                | 6 | ISO 4026 - M6 x 30 |                |
| 46 | Keilleiste             | Gib                       | 1 |                    | 03338160246    |
| 47 | Welle                  | Shaft                     | 1 |                    | 03338160247    |
| 48 | Welle                  | Shaft                     | 2 |                    | 03338160248    |
| 49 | Zahnrad                | Gear                      | 4 |                    | 03338160249    |
| 50 | Buchse                 | Bushing                   | 4 |                    | 03338160250    |
| 51 | Gewindestift           | Grub screw                | 4 | DIN 913 - M4 x 4   |                |
| 52 | Gegengewicht           | Balance weight            | 1 |                    | 03338160252    |
| 53 | Kette                  | Chain                     | 2 |                    | 03338160253    |
| 54 | Innensechskantschraube | Socket head screw         | 2 | ISO 4762 - M3 x 8  |                |
| 55 | Abdeckung              | Cover                     | 1 |                    | 03338160255    |
| 56 | Messstreifen           | Measuring gib             | 1 |                    | 03338160256    |
| 57 | Halter                 | Holder                    | 1 |                    | 03338160257    |
| 58 | Innensechskantschraube | Socket head screw         | 3 | ISO 4762 - M4 x 8  |                |
| 59 | Halter                 | Holder                    | 1 |                    | 03338160259    |
| 60 | Energiekette           | Energie chain             | 1 |                    | 03338160260    |
| 61 | Halter                 | Holder                    | 1 |                    | 03338160261    |
| 62 | Innensechskantschraube | Socket head screw         | 2 | ISO 4762 - M4 x 20 |                |
| 63 | Signalgeber            | Transmitter               | 2 |                    | 03338160263    |
| 64 | Innensechskantschraube | Socket head screw         | 6 | ISO 4762 - M3 x 6  |                |
| 65 | Halter                 | Holder                    | 1 |                    | 03338160265    |
| 66 | Halter                 | Holder                    | 1 |                    | 03338160266    |
| 67 | Sensor Verfahrweg      | Sensor traveling distance | 1 |                    | 03338160267    |
| 68 | Innensechskantschraube | Socket head screw         | 2 | ISO 4762 - M3 x 12 |                |
| 69 | Innensechskantschraube | Socket head screw         | 2 | ISO 4762 - M4 x 16 |                |
| 70 | Säule                  | Columb                    | 1 |                    | 03338160270    |
| 71 | Innensechskantschraube | Socket head screw         | 2 | ISO 4762 - M5 x 10 |                |
| 72 | Signalgeber            | Transmitter               | 1 |                    | 03338160272    |

## D Frästisch - Milling table 1-2



Img.1-4: Frästisch - Milling table 1-2

## E Frästisch - Milling table 2-2

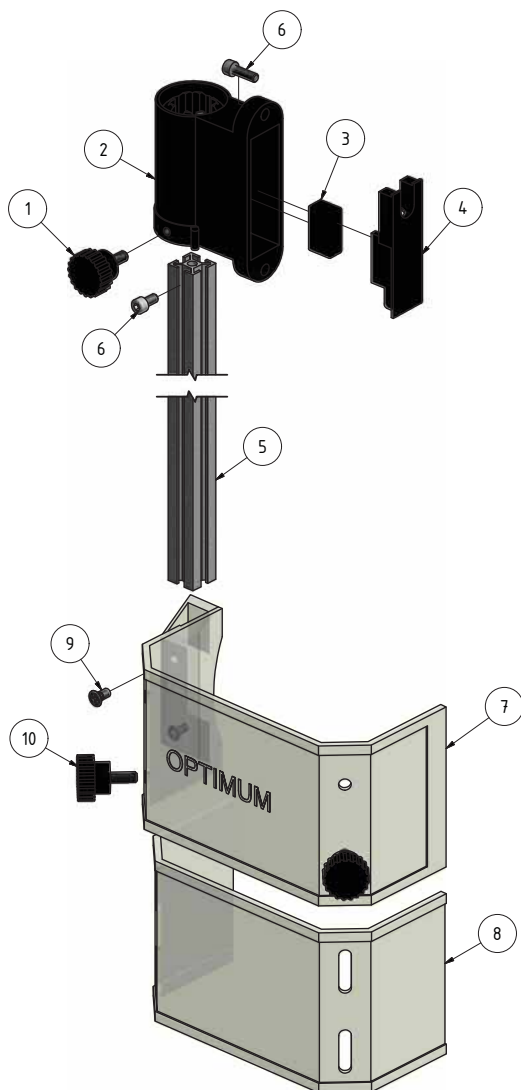


Img.1-5: Frästisch - Milling table 2-2

| Teilleiste Frästisch - Parts list milling table - MH25SV |                             |                            |       |                         |               |
|----------------------------------------------------------|-----------------------------|----------------------------|-------|-------------------------|---------------|
| Pos.                                                     | Bezeichnung                 | Description                | Menge | Grösse                  | Artikelnummer |
|                                                          |                             |                            | Qty.  | Size                    | Item no.      |
| 1                                                        | Führung                     | Guide                      | 1     | 301303                  | 03338160301   |
| 2                                                        | Tischführung                | Table guide                | 1     |                         | 03338160302   |
| 3                                                        | Lagerbock                   | Bearing block              | 1     |                         | 03338160303   |
| 4                                                        | Skalenring                  | Scale ring                 | 2     |                         | 03338160304   |
| 5                                                        | Lagerbock                   | Bearing block              | 1     |                         | 03338160305   |
| 6                                                        | Schrittmotor                | Step motor                 | 2     | 2,2Nm; 3A               | 357 3304      |
| 7                                                        | Platte                      | Plate                      | 1     |                         | 03338160307   |
| 8                                                        | Innensechskantschraube      | Socket head screw          | 4     | ISO 4762 - M8 x 16      |               |
| 9                                                        | Innensechskantschraube      | Socket head screw          | 2     | ISO 4762 - M8 x 40      |               |
| 10                                                       | Passfeder                   | Fitting key                | 3     | DIN 6885 - A 4 x 4 x 16 |               |
| 11                                                       | Nutmutter                   | Groove nut                 | 2     | DIN 981 - KM 1          |               |
| 12                                                       | Hülse                       | Sleeve                     | 2     |                         | 03338160312   |
| 13                                                       | Schraube                    | Screw                      | 2     |                         | 03338160313   |
| 14                                                       | Innensechskantschraube      | Socket head screw          | 8     | ISO 4762 - M5 x 10      |               |
| 15                                                       | Unterlegscheibe             | Washer                     | 8     | DIN 125 - A 5,3         |               |
| 16                                                       | Innensechskantschraube      | Socket head screw          | 2     | ISO 4762 - M6 x 12      |               |
| 17                                                       | Zahnriemenscheibe           | Gear wheel                 | 1     |                         | 03338160317   |
| 18                                                       | Gewindestift                | Grub screw                 | 1     | ISO 4026 - M4 x 8       |               |
| 19                                                       | Unterlegscheibe             | Washer                     | 2     | DIN 125 - A 6,4         |               |
| 20                                                       | Keilleiste                  | Gib                        | 1     |                         | 03338160320   |
| 21                                                       | Sechskantmutter             | Hexogen nut                | 8     | ISO 4032 - M6           |               |
| 22                                                       | Innensechskantschraube      | Socket head screw          | 4     | ISO 4762 - M12 x 45     |               |
| 23                                                       | Unterlegscheibe             | Washer                     | 4     | DIN 125 - A 13          |               |
| 24                                                       | Schmiernippel               | Lubrication cup            | 2     | 8                       | 03338160324   |
| 25                                                       | Frästisch                   | Mill table                 | 1     |                         | 03338160325   |
| 26                                                       | Flansch X-Achse bis 06.2017 | Flange X-axis to 06.2017   | 1     |                         | 03338160326   |
|                                                          | Flansch X-Achse ab 06.2017  | Flange X-axis from 06.2017 | 1     |                         | 033381603261  |
| 27                                                       | Kugellager                  | Ball bearing               | 4     | 7201                    | 0407201       |
| 28                                                       | Innensechskantschraube      | Socket head screw          | 7     | ISO 4762 - M5 x 16      |               |
| 29                                                       | Kupplung                    | Clutch                     | 2     |                         | 03338160329   |
| 30                                                       | Sicherungsring              | Retaining ring             | 4     | DIN 471 - 20x1,2        |               |
| 31                                                       | Federblech                  | Spring                     | 2     |                         | 03338160331   |
| 32                                                       | Feder                       | Spring                     | 2     |                         | 03338160332   |
| 33                                                       | Handrad                     | Handle                     | 2     |                         | 03338160333   |
| 34                                                       | Buchse                      | Bushing                    | 2     |                         | 03338160334   |
| 35                                                       | Spindel                     | Spindle                    | 1     |                         | 03338160335   |
| 36                                                       | Zahnriemenscheibe           | Gear wheel                 | 1     |                         | 03338160336   |
| 37                                                       | Zahnriemen                  | Gear belt                  | 1     |                         | 03338160337   |
| 38                                                       | Spindelmutter               | Spindle nut                | 1     |                         | 03338160338   |
| 39                                                       | Innensechskantschraube      | Socket head screw          | 4     | ISO 4762 - M8 x 20      |               |
| 40                                                       | Innensechskantschraube      | Socket head screw          | 1     | ISO 4762 - M5 x 20      |               |

|    |                        |                           |    |                    |                |
|----|------------------------|---------------------------|----|--------------------|----------------|
| 41 | Keilleiste             | Gib                       | 1  |                    | 03338160341    |
| 42 | Gewindestift           | Grub screw                | 4  | ISO 4026 - M6 x 25 |                |
| 43 | Gewindestift           | Grub screw                | 8  | ISO 4026 - M6 x 30 |                |
| 44 | Lagerbock              | Bearing block             | 1  |                    | 03338160344    |
| 45 | Kugellager             | Bearing                   | 1  | 6201               | 0406201        |
| 46 | Sicherungsring         | Retaining ring            | 1  | DIN 472 - 32 x 1,2 |                |
| 47 | Spindel                | Spindle                   | 1  |                    | 03338160347    |
| 48 | Kupplung               | Clutch                    | 1  |                    | 03338160348CPL |
| 49 | Kupplung               | Clutch                    | 1  |                    |                |
| 50 | Spindelmutter          | Spindle nut               | 1  |                    | 03338160350    |
| 51 | Signalgeber            | Transmitter               | 4  |                    | 03338160351    |
| 52 | Innensechskantschraube | Socket head screw         | 12 | ISO 4762 - M4 x 8  |                |
| 53 | Halter                 | Holder                    | 1  |                    | 03338160353    |
| 54 | Gummiabdeckung         | Rubber cover              | 1  |                    | 03338160354    |
| 55 | Messstreifen           | Measuring strip           | 1  |                    | 03338160355    |
| 56 | Messstreifen           | Measuring strip           | 1  |                    | 03338160356    |
| 57 | Halter                 | Holder                    | 1  |                    | 03338160357    |
| 58 | Sensor Verfahrweg      | Sensor traveling distance | 2  |                    | 03338160358    |
| 59 | Innensechskantschraube | Socket head screw         | 2  | ISO 4762 - M4 x 16 |                |
| 60 | Innensechskantschraube | Socket head screw         | 4  | ISO 4762 - M3 x 12 |                |
| 61 | Halter                 | Holder                    | 1  |                    | 03338160361    |
| 62 | Schraube               | Screw                     | 2  | DIN 7991 - M4x10   |                |
| 63 | Anschluss              | Plug                      | 1  |                    |                |
| 64 | Signalgeber            | Transmitter               | 2  |                    | 03338160364    |
| 65 | Abstandring            | Spacer                    | 1  |                    | 03338160365    |

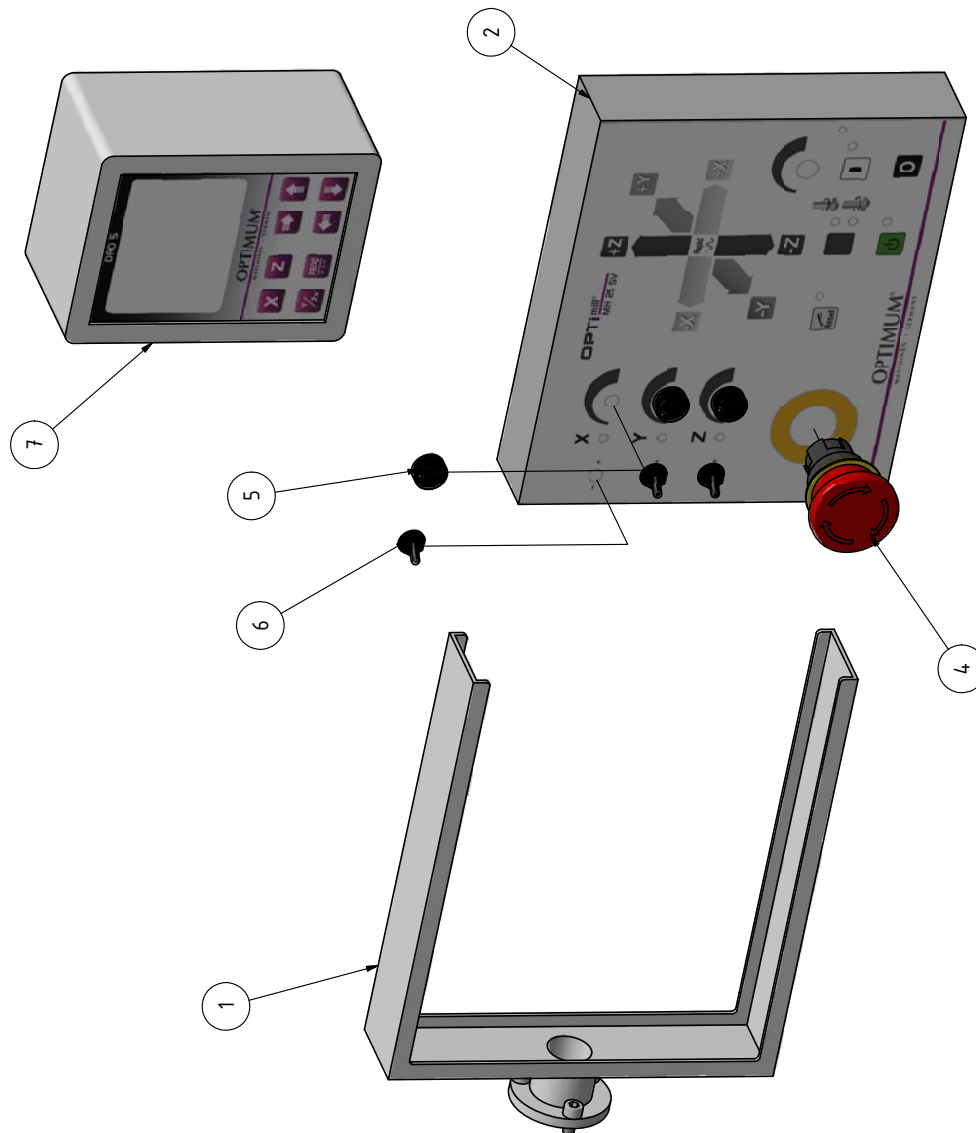
## F Fräsfutterschutz - Milling chuck cover



Img.1-6: Fräsfutterschutz - Milling chuck cover

| Teilliste Fräsfutterschutz - Parts list milling chuck cover - MH25SV |                    |                    |       |        |               |
|----------------------------------------------------------------------|--------------------|--------------------|-------|--------|---------------|
| Pos.                                                                 | Bezeichnung        | Description        | Menge | Grösse | Artikelnummer |
|                                                                      |                    |                    | Qty.  | Size   | Item no.      |
|                                                                      |                    |                    | Qty.  | Size   | Item no.      |
| 1                                                                    | Rändelschraube     | Knurled screw      | 1     |        | 033381604 01  |
| 2                                                                    | Halterung          | Fixture            | 1     |        | 033381604 02  |
| 3                                                                    | Mikroschalter      | Microswitch        | 1     |        | 033381602B1   |
| 4                                                                    | Platte             | Plate              | 1     |        | 033381604 04  |
| 5                                                                    | Alu- Profil        | Aluminium profile  | 1     |        | 03338160405   |
| 6                                                                    | Schraube           | Screw              | 2     | M5x10  |               |
| 7                                                                    | Fräsfutterschutz A | Mill chuck cover A | 1     |        | 03338160407   |
| 8                                                                    | Fräsfutterschutz B | Mill chuck cover B | 1     |        | 03338160408   |
| 9                                                                    | Schraube           | Screw              | 2     | M5x10  |               |
| 10                                                                   | Rändelschraube     | Knurled screw      | 2     |        | 03338160410   |

## G Bedienpanel - Operating panel

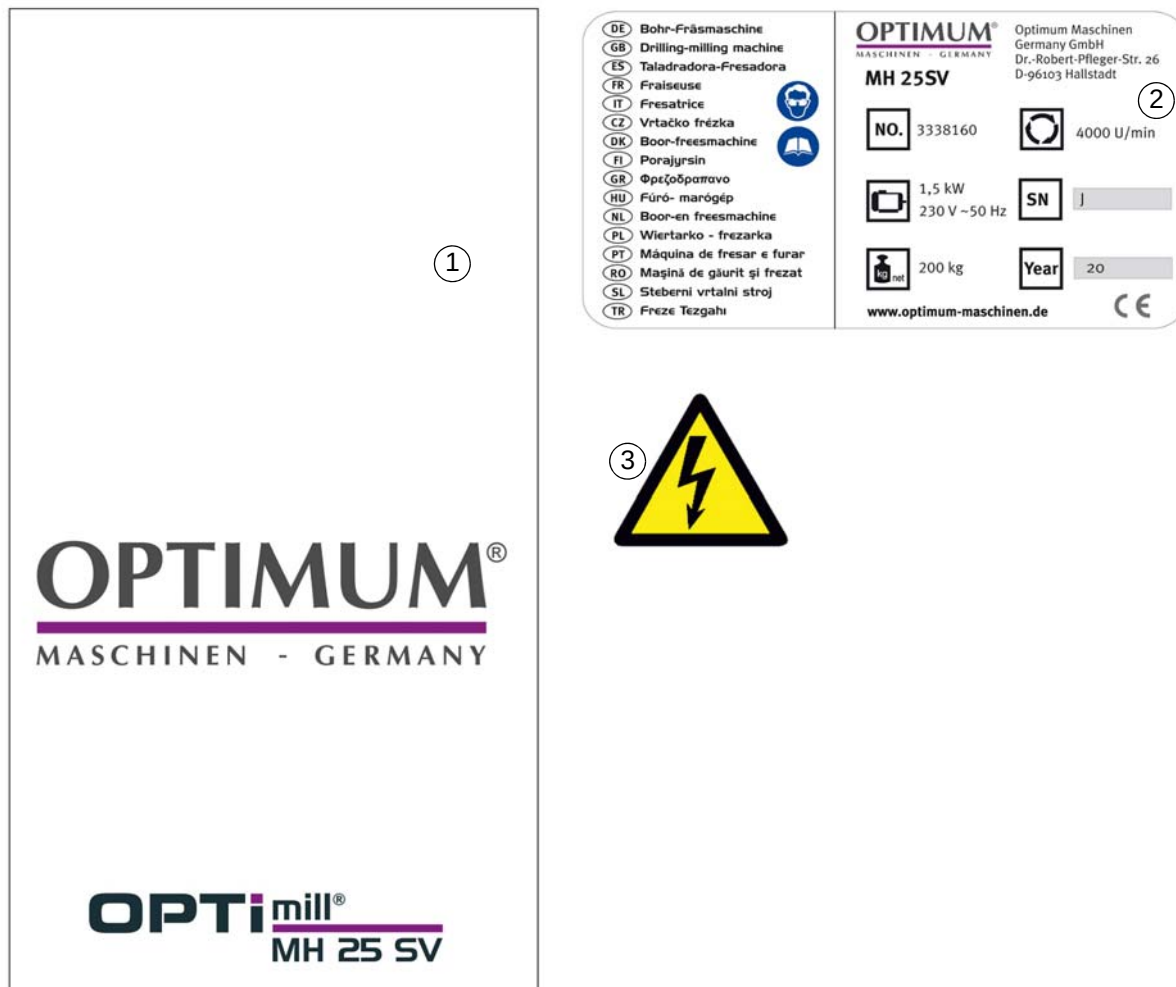


Img.1-7:

| Teileliste Bedienpanel - Parts list operating panel - MH25SV |                                |                               |       |        |               |
|--------------------------------------------------------------|--------------------------------|-------------------------------|-------|--------|---------------|
| Pos.                                                         | Bezeichnung                    | Description                   | Menge | Grösse | Artikelnummer |
|                                                              |                                |                               | Qty.  | Size   | Item no.      |
| 1                                                            | Halterung                      | Support                       | 1     |        | 03338160501   |
| 2                                                            | Bedienpanel komplett           | Operating panel complete      | 1     |        | 03338160502   |
| 4                                                            | Not-Halt Pilzkopfschalter      | Emergency stop button         | 1     |        | 03338160504   |
| 5                                                            | Potentiometer                  | Potentiometer                 | 1     |        | 03338160505   |
| 6                                                            | Schalter                       | Switch                        | 2     |        | 03338160506   |
| 7                                                            | Digitale Positionsanzeige DRO5 | Digital position display DRO5 | 1     |        | 3383975       |

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## H Maschinenschilder - Machine labels



Img.1-8: Maschinenschilder - Machine labels

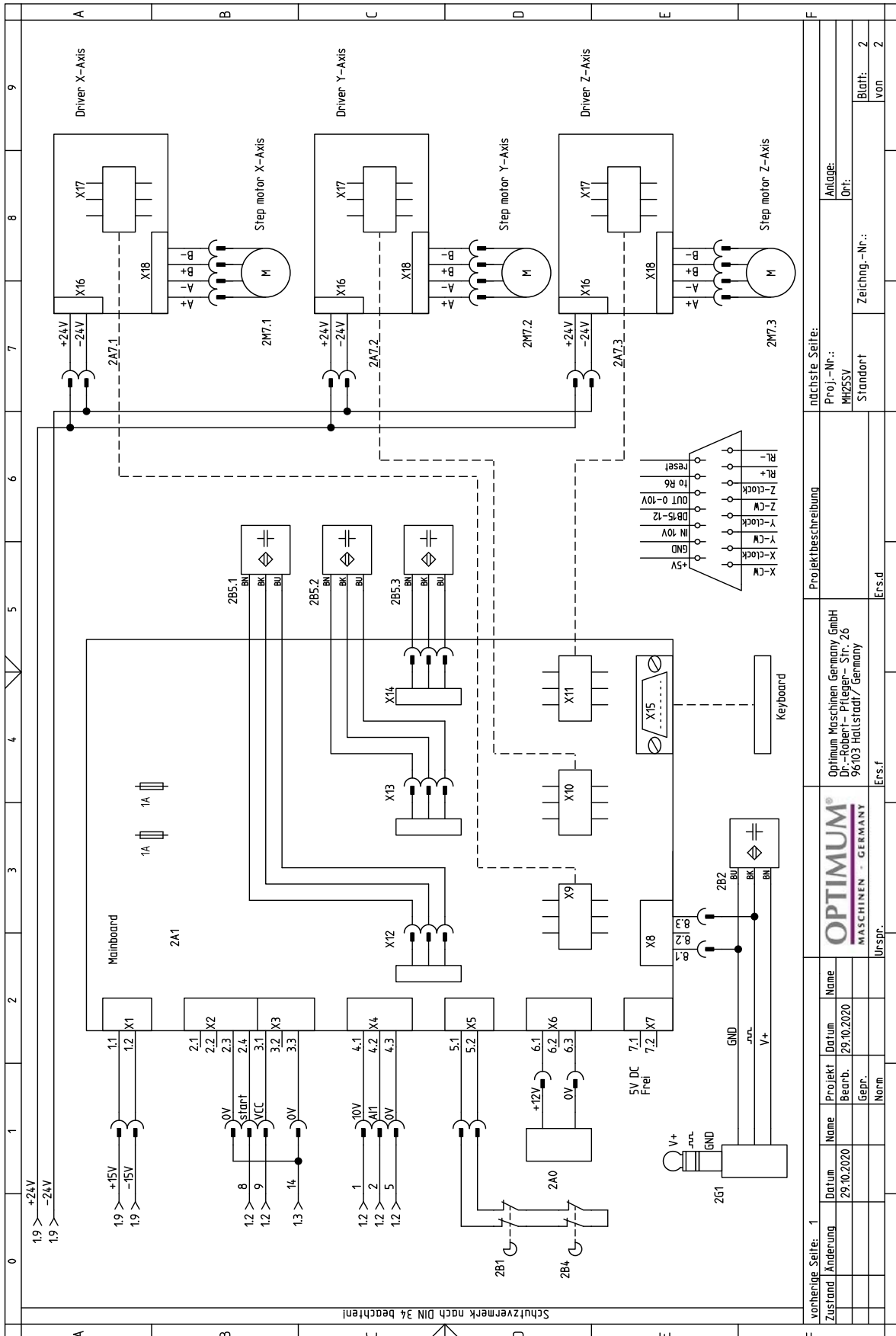
| Ersatzteilliste Maschinenschilder - Spare part list machine labels - MH25SV |                   |               |       |        |               |
|-----------------------------------------------------------------------------|-------------------|---------------|-------|--------|---------------|
| Pos.                                                                        | Bezeichnung       | Description   | Menge | Grösse | Artikelnummer |
|                                                                             |                   |               | Qty.  | Size   | Item no.      |
| 1                                                                           | Frontschild       | Front lable   | 1     |        | 03338160L01   |
| 2                                                                           | Maschinenlabel    | Machine lable | 1     |        | 03338160L02   |
| 3                                                                           | Sicherheitsschild | Safety lable  | 1     |        | 03338160L03   |



### 1.7 Schaltplan, Einzelplatinen - Wiring diagram, single boards



J



Img.1-10: Schaltplan - Wiring diagram

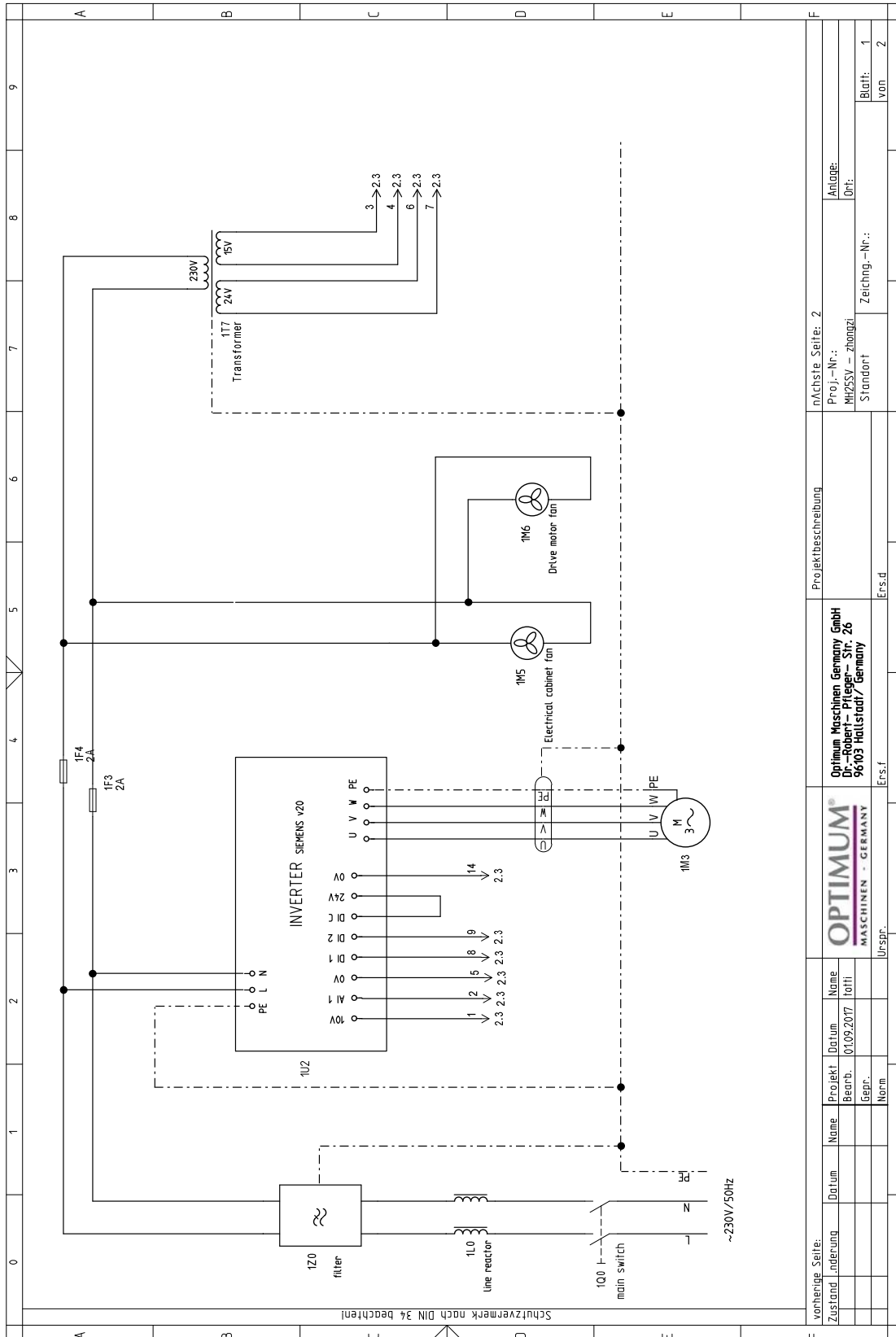
MH25SV\_parts.fm

| MH25SV - Teilleiste elektrische Bauteile, Einzelplatten - Electrical parts list, single boards |                                                                                     |                          |       |                                                                                                                           |                       |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|-------|---------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Pos.                                                                                           | Bezeichnung                                                                         | Description              | Menge | Grösse                                                                                                                    | Artikelnummer         |
|                                                                                                |                                                                                     |                          | Qty.  | Size                                                                                                                      | Item no.              |
| 1Z0                                                                                            | Netzfilter                                                                          | Line filter              | 1     |                                                                                                                           | 033381601Z0           |
| 1F7                                                                                            | Feinsicherung                                                                       | Microfuse                | 1     | Träge 2A                                                                                                                  | 033381601F7           |
| 1F8                                                                                            |                                                                                     |                          | 1     |                                                                                                                           |                       |
| 1G5                                                                                            | Ventilator Schaltkasten                                                             | Fan switch box           | 1     |                                                                                                                           | 033381602 41          |
| 1G6                                                                                            | Ventilator Antriebsmotor                                                            | Fan drive motor          | 1     |                                                                                                                           | 033381602 41          |
| 1T7                                                                                            | Transformer                                                                         | Transformer              | 1     |                                                                                                                           | 03338160PS            |
| 1T7microfuse                                                                                   | Feinsicherung                                                                       | Micro fuse               | 3     | Träge 10A                                                                                                                 | 0333816021T7microfuse |
|                                                                                                |    |                          |       |                                                                                                                           |                       |
| 3T2                                                                                            | Netzteil                                                                            | Power pack               | 1     |                                                                                                                           | 03338160PS            |
| 1M4                                                                                            | Antriebsmotor                                                                       | Drive Motor              | 1     | SSM15 - A2 - 1.5-15/90<br>Senlima Electric Motor<br>1.5 KW ; 400/230V<br>3.5 / 6.1A ; 10.1 Nm<br>S1 ; IP54 ; Ins. class F | 03338160114           |
| 1S0                                                                                            | Hauptschalter                                                                       | Main switch              | 1     |                                                                                                                           | 033381601S0           |
| 1U2                                                                                            | Frequenzumrichter                                                                   | Frequency converter      | 1     |                                                                                                                           | 033381601U2           |
| 2A0                                                                                            | Digitalpositionsanzeige DRO5                                                        | Digital indicator DRO5   | 1     |                                                                                                                           | 3383975               |
| 2A1                                                                                            | Mainboard                                                                           | Mainboard                | 1     |                                                                                                                           | 033381602A1           |
| 2A1microfuse                                                                                   | Feinsicherung                                                                       | Microfuse                | 2     | Träge 1A                                                                                                                  | 033381602A1microfuse  |
|                                                                                                |  |                          |       |                                                                                                                           |                       |
| 2A7.1                                                                                          | Steuerkarte X-Achse                                                                 | Control card X-Axis      | 1     |                                                                                                                           | 033381602A7           |
| 2A7.2                                                                                          | Steuerkarte Y-Achse                                                                 | Control card Y-Axis      | 1     |                                                                                                                           | 033381602A7           |
| 2A7.3                                                                                          | Steuerkarte Z-Achse                                                                 | Control card Z-Axis      | 1     |                                                                                                                           | 033381602A7           |
| 2B1                                                                                            | Schalter Fräsfutterschutz                                                           | Mill chuck switch        | 1     |                                                                                                                           | 033381602B1           |
| 2B4                                                                                            | Schalter Werkzeugwechsler                                                           | Toll chnager switch      | 1     |                                                                                                                           | 033381602B4           |
| 2B2                                                                                            | Drehzahlsensor                                                                      | Rotation speed sensor    | 1     |                                                                                                                           | 033381602B2           |
| 2B5.1                                                                                          | Sensor Endschalter Z-Achse                                                          | Sensor end switch Z-Axis | 1     |                                                                                                                           | 033381602S5           |
| 2B5.2                                                                                          | Sensor Endschalter Y-Achse                                                          | Sensor end switch Y-Axis | 1     |                                                                                                                           | 033381602S5           |
| 2B5.3                                                                                          | Sensor Endschalter X-Achse                                                          | Sensor end switch X-Axis | 1     |                                                                                                                           | 033381602S5           |
| 2G1                                                                                            | Stecker                                                                             | Plug                     | 1     |                                                                                                                           | 03338160              |
| 2M7.1                                                                                          | Schrittmotor X-Achse                                                                | Stepp motor X-Axis       | 1     |                                                                                                                           | 3573304               |
| 2M7.2                                                                                          | Schrittmotor Y-Achse                                                                | Stepp motor Y-Axis       | 1     |                                                                                                                           | 3573304               |
| 2M7.3                                                                                          | Schrittmotor Z-Achse                                                                | Stepp motor Z-Axis       | 1     |                                                                                                                           | 3573307               |

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## 1.8 Schaltplan, zusammen gefasste Platinen - Wiring diagram,merged boards

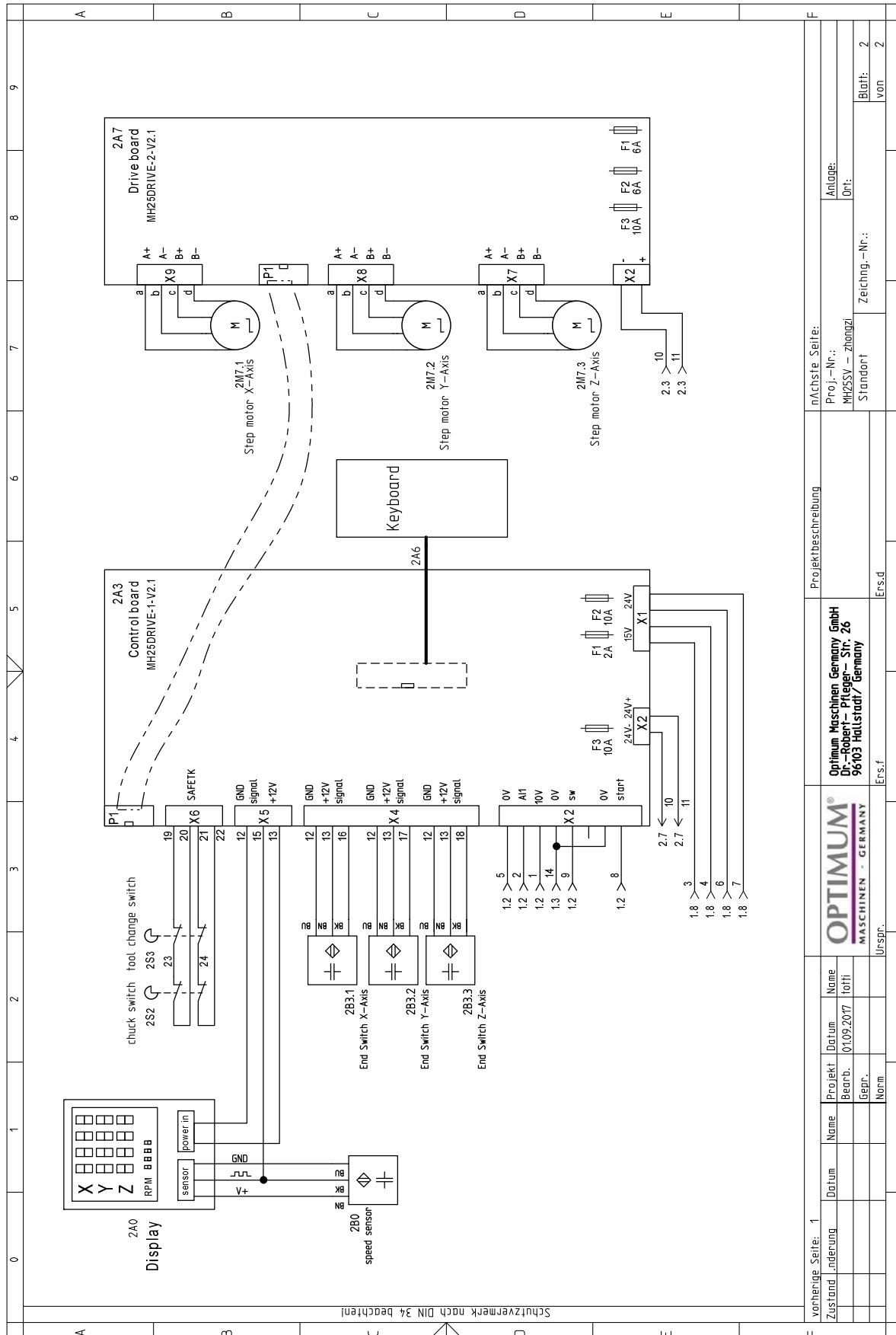
K



Img.1-11: Schaltplan - Wiring diagram

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Img.1-12: Schaltplan - Wiring diagram

| MH25SV - Teileliste elektrische Bauteile, zusammen gefasste Platinen - Electrical parts list, merged boards |    |                              |                           |        |                                                                                                                           |               |
|-------------------------------------------------------------------------------------------------------------|----|------------------------------|---------------------------|--------|---------------------------------------------------------------------------------------------------------------------------|---------------|
| Pos.                                                                                                        |    | Bezeichnung                  | Description               | Menge  | Grösse                                                                                                                    | Artikelnummer |
|                                                                                                             |    |                              |                           | Qty.   | Size                                                                                                                      | Item no.      |
| 1Q0                                                                                                         |    | Hauptschalter                | Main switch               | 1      |                                                                                                                           | 033381601S0   |
| 1L0                                                                                                         |    | Netzdrossel                  | Line reactor              | 1      |                                                                                                                           | 033381601L0   |
| 1Z0                                                                                                         |    | Netzfilter                   | Line filter               | 1      |                                                                                                                           | 033381601Z0   |
| 1F3<br>1F4                                                                                                  |    | Sicherung                    | Fuse                      | 1<br>1 | 2A                                                                                                                        | 033381601F7   |
| 1U2                                                                                                         |    | Frequenzumrichter            | Frequency converter       | 1      | Siemens V20                                                                                                               | 033381601U2   |
| 1M3                                                                                                         |    | Antriebsmotor                | Drive Motor               | 1      | SSM15 - A2 - 1.5-15/90<br>Senlima Electric Motor<br>1.5 KW ; 400/230V<br>3.5 / 6.1A ; 10.1 Nm<br>S1 ; IP54 ; Ins. class F | 03338160114   |
| 1M5                                                                                                         |    | Ventilator Schaltkasten      | Control box fan           | 1      |                                                                                                                           | 033381602 41  |
| 1M6                                                                                                         |    | Ventilator Antriebsmotor     | Drive motor fan           | 1      |                                                                                                                           | 033381602 41  |
| 1T7                                                                                                         |    | Transformer                  | Transformer               | 1      |                                                                                                                           | 03338160PS    |
| 2A0                                                                                                         |    | Digitalpositionsanzeige DRO5 | Digital indicator DRO5    | 1      |                                                                                                                           | 3383975       |
| 2B0                                                                                                         |    | Drehzahlsensor               | Rotation speed sensor     | 1      |                                                                                                                           | 033381602B2   |
| 2S2                                                                                                         |    | Schalter Fräsfutterschutz    | Mill chuck switch         | 1      |                                                                                                                           | 033381602B1   |
| 2S3                                                                                                         |    | Schalter<br>Werkzeugwechsler | Tool change switch        | 1      |                                                                                                                           | 033381602B4   |
| 2B3.1                                                                                                       |    | Sensor Endschalter Z-Achse   | Sensor end switch Z-Axis  | 1      |                                                                                                                           | 033381602S5   |
| 2B3.2                                                                                                       |    | Sensor Endschalter Y-Achse   | Sensor end switch Y-Axis  | 1      |                                                                                                                           | 033381602S5   |
| 2B3.3                                                                                                       |    | Sensor Endschalter X-Achse   | Sensor end switch X-Axis  | 1      |                                                                                                                           | 033381602S5   |
| 2A3                                                                                                         |    | Steuerplatine                | Control board             | 1      | MH25DRIVE-1-V2.1                                                                                                          | 033381602A3   |
| 2A3                                                                                                         | F1 | Feinsicherung                | Microfuse                 | 1      | Träge 2A                                                                                                                  | 033381602A3F1 |
| 2A3                                                                                                         | F2 | Feinsicherung                | Microfuse                 | 1      | Träge 10A                                                                                                                 | 033381602A3F2 |
| 2A3                                                                                                         | F3 | Feinsicherung                | Microfuse                 | 1      | Träge 10A                                                                                                                 | 033381602A3F2 |
| 2A6                                                                                                         |    | Tastatur Anschlussleitung    | Keyboard Connection cable | 1      |                                                                                                                           | 033381602A6   |
| Keyboard                                                                                                    |    | Tastatur                     | Keyboard                  | 1      |                                                                                                                           | 03338160502   |
| Keyboard                                                                                                    | 4  | Not-Halt Pilzkopfschalter    | Emergency stop button     | 1      |                                                                                                                           | 03338160504   |
| Keyboard                                                                                                    | 5  | Potentiometer                | Potentiometer             | 1      |                                                                                                                           | 03338160505   |
| Keyboard                                                                                                    | 6  | Schalter                     | Switch                    | 3      |                                                                                                                           | 03338160506   |
| 2M7.1                                                                                                       |    | Schrittmotor X-Achse         | Stepp motor X-Axis        | 1      |                                                                                                                           | 3573304       |
| 2M7.2                                                                                                       |    | Schrittmotor Y-Achse         | Stepp motor Y-Axis        | 1      |                                                                                                                           | 3573304       |
| 2M7.3                                                                                                       |    | Schrittmotor Z-Achse         | Stepp motor Z-Axis        | 1      |                                                                                                                           | 3573307       |
| 2A7                                                                                                         |    | Antriebsplatine              | Drive board               | 1      | MH25DRIVE-2-V2.1                                                                                                          | 033381602A7   |
| 2A7                                                                                                         | F1 | Feinsicherung                | Microfuse                 | 1      | Träge 6A                                                                                                                  | 033381602A7F1 |
| 2A7                                                                                                         | F2 | Feinsicherung                | Microfuse                 | 1      | Träge 6A                                                                                                                  | 033381602A7F1 |
| 2A7                                                                                                         | F3 | Feinsicherung                | Microfuse                 | 1      | Träge 10A                                                                                                                 | 033381602A3F2 |

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