

Product manual, spare parts

IRBP /D2009

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Product manual, spare parts

**IRBP A -250/500/750
IRBP B -250/500/750
IRBP C -500/1000
IRBP D -300/600
IRBP K -300/600/1000
IRBP L -300/600/1000/2000/5000
IRBP R -300/600/1000**

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Revision: F

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Table of contents

| | |
|---|-----------|
| Overview of this manual | 7 |
| 1 Positioners | 9 |
| 1.1 IRBP A | 9 |
| 1.2 IRBP B | 10 |
| 1.3 IRBP C | 12 |
| 1.4 IRBP D | 13 |
| 1.5 IRBP K | 14 |
| 1.6 IRBP L | 15 |
| 1.7 IRBP R | 16 |
| 2 Rotary units and supports | 19 |
| 2.1 MTD 250 | 19 |
| 2.2 MTD 500/750 | 24 |
| 2.3 MTD 2000 | 29 |
| 2.4 MTD 5000 | 34 |
| 2.5 MID 1.1 | 39 |
| 2.6 MID 1.2 | 41 |
| 2.7 MID 2.1 | 43 |
| 2.8 Support collar | 45 |
| 2.9 Stop lug | 47 |
| 3 Motor units | 49 |
| 3.1 Motor units for MTD 250 | 49 |
| 3.2 Motor unit for MTD 500-750 | 52 |
| 3.3 Motor units for MTD 2000 | 55 |
| 3.4 Motor units for MTD 5000 | 58 |
| 3.5 Motor unit for MID 1.2 | 61 |
| 3.6 Motor unit for MID 2.1-2.2 | 64 |
| 4 Electrical spare parts | 67 |
| 4.1 External connectors | 67 |
| 4.1.1 Spare parts, cables | 67 |
| 4.2 Internal connectors | 69 |
| 4.2.1 Spare parts, connectors in manipulator | 69 |
| 4.2.2 Spare part, SMB box | 74 |
| 4.3 Electrical options | 75 |
| 4.3.1 SIB V , spare parts | 75 |
| 4.3.2 Spare parts, SIB V option board 1 and 2 | 77 |
| 4.3.3 Spare parts, manual jog L/K/R | 78 |
| 4.3.4 Spare parts station sync | 79 |
| 4.3.5 Spare parts, active relay supervision | 80 |
| 5 Controller | 81 |
| 5.1 Spare parts, controller IRBP | 81 |
| 6 Safety equipment | 89 |
| 6.1 Spare parts, light beam | 89 |

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Overview of this manual

About this manual

This manual contains information on all the spare parts for positioner IRBP A, B, C, D, K, R, and L presented in *Product manual - IRBP /D2009*.

Usage

This manual should be used as a complement to the product manual during:

- maintenance work
- repair work.

Who should read this manual?

This manual is intended for:

- maintenance personnel
- repair personnel.

Prerequisites

A maintenance/repair technician working with an ABB manipulator must:

- be trained by ABB and have the required knowledge of mechanical and electrical installation/repair/maintenance work.

Organization of chapters

The manual is organized in the following chapters:

| Chapter | Contents |
|---------|---------------------------|
| 1 | Frame parts |
| 2 | Rotary units and supports |
| 3 | Motor units |
| 4 | Electrical spare parts |
| 5 | Controller |
| 6 | Safety equipment |

References

| Reference | Document ID |
|-------------------------------------|----------------|
| <i>Product manual - IRBP /D2009</i> | 3HAC037731-001 |

Revisions

| Revision | Description |
|----------|---|
| - | First edition |
| A | This revision includes the following additions and/or changes: • Added IRBP C in IRBP C on page 12 . |
| B | This revision includes the following additions and/or changes: • Structural modification of chapter 1, and references to the components. |

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Overview of this manual

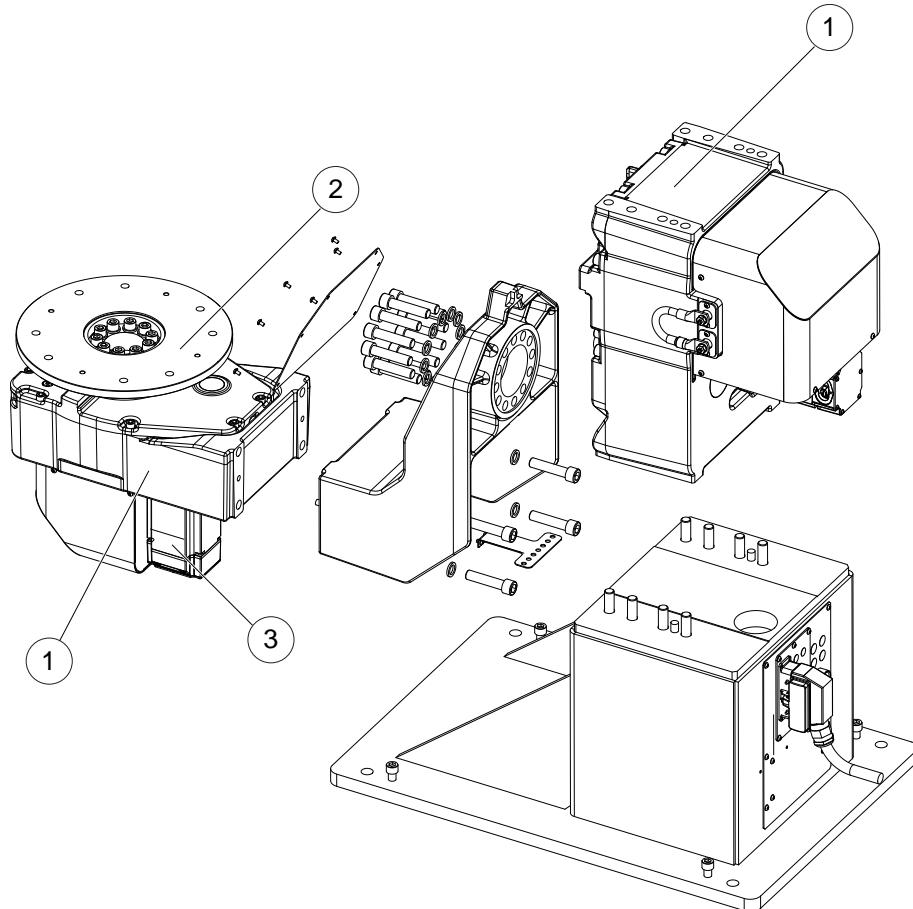
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| Revision | Description |
|----------|--|
| C | This revision includes the following additions and/or changes: <ul style="list-style-type: none">Article number changed for grease in MTD 250, see Rotary units and supports on page 19.Part number for Graphite white spare parts added. |
| D | This revision includes the following additions and/or changes: <ul style="list-style-type: none">Page 3, model designation updated for model K and RFigures and tables updated for IRBP B and IRBP R, MID unit added.Added that lifting eyes no longer is delivered with the IRBP:s.New spare part numbers for gearboxes and motors, added, valid from these serial numbers, onwards: SEROP POF-110001- and CNAUS POF-510001- |
| E | This revision includes the following additions and/or changes: <ul style="list-style-type: none">Description for spare part 3HAC035881-001/002 is changed from "Cable WCS1/WCS2" to "Cable slipring WCS3/WCS4".Number for Insulation kit for MTD 500, 750 and 2000 is changed to 3HAC032214-002. |
| F | This revision will be released in R16.2 and includes the following additions and/or changes: <ul style="list-style-type: none">Replaced spare part number for Motor unit MTD 500-750 Orange (Is 3HAC038210-014, was 3HAC038187-014). |

1 Positioners

1.1 IRBP A

Frame parts



xx1000000187

| Pos | Part | Spare part |
|-----|-------------|---|
| 1 | Gearbox | MTD 250, see MTD 250 on page 19 MTD 500/750, see MTD 500/750 on page 24 |
| 2 | Rotary disc | MTD 250, see MTD 250 on page 19 MTD 500/750, see MTD 500/750 on page 24 |
| 3 | Motor unit | MTD 250, see Motor units for MTD 250 on page 49 MTD 500/750, see Motor unit for MTD 500-750 on page 52 |



Note

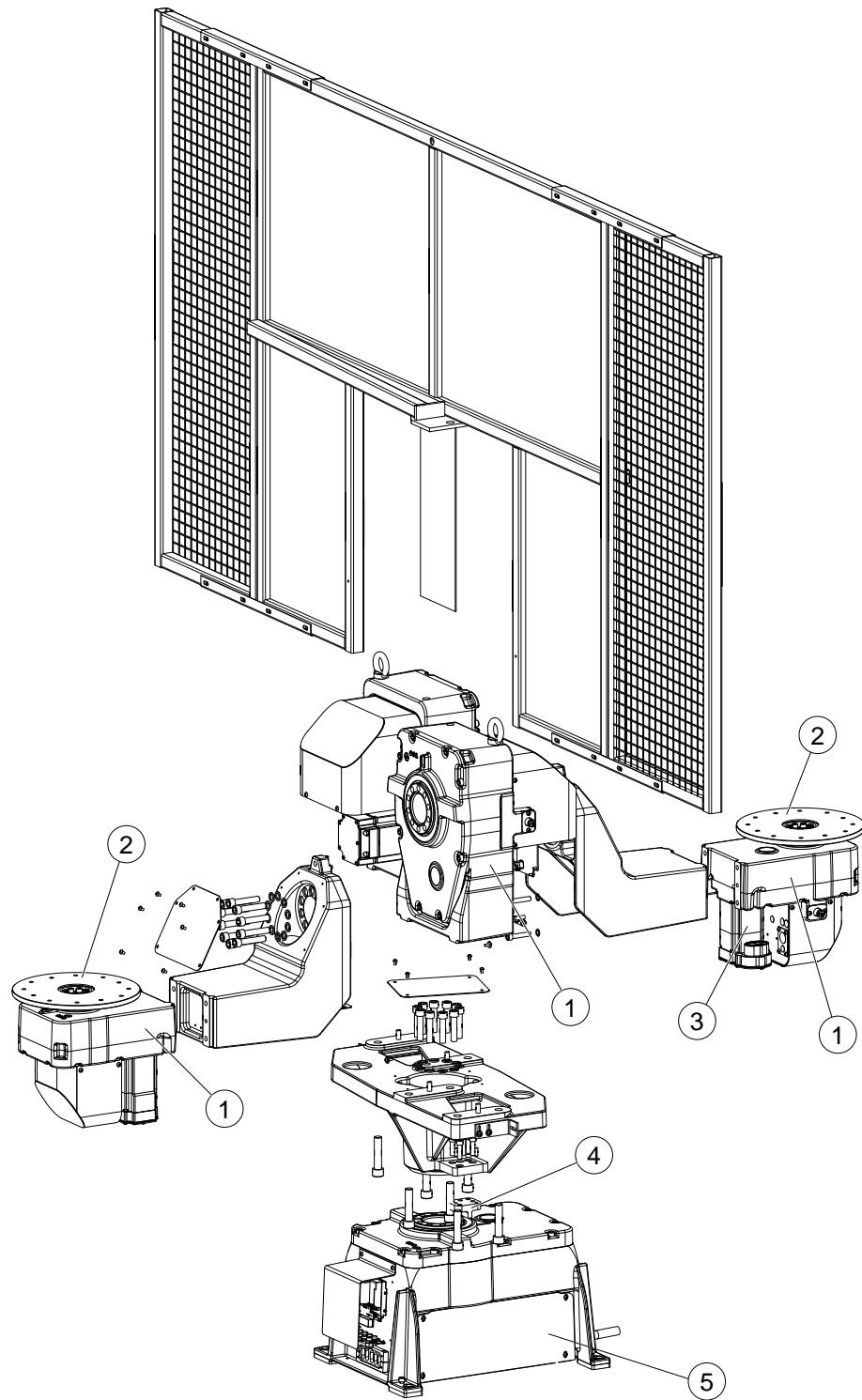
Lifting eyes are not delivered with the IRBP.

1 Positioners

1.2 IRBP B

1.2 IRBP B

Frame parts



xx1000000190

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| Pos | Part | Spare part |
|-----|-------------|--|
| 1 | Gearbox | MTD 200, see MTD 250 on page 19 MTD 500/750, see MTD 500/750 on page 24 |
| 2 | Rotary disc | MTD 200, see MTD 250 on page 19 MTD 500/750, see MTD 500/750 on page 24 |
| 3 | Motor units | See Motor units on page 49 |
| 4 | Stop lug | See Stop lug on page 47 |
| 5 | Rotary unit | 250 MID 1.1, see MID 1.1 on page 39 500/750 MID 2.1, see MID 2.1 on page 43 |



Note

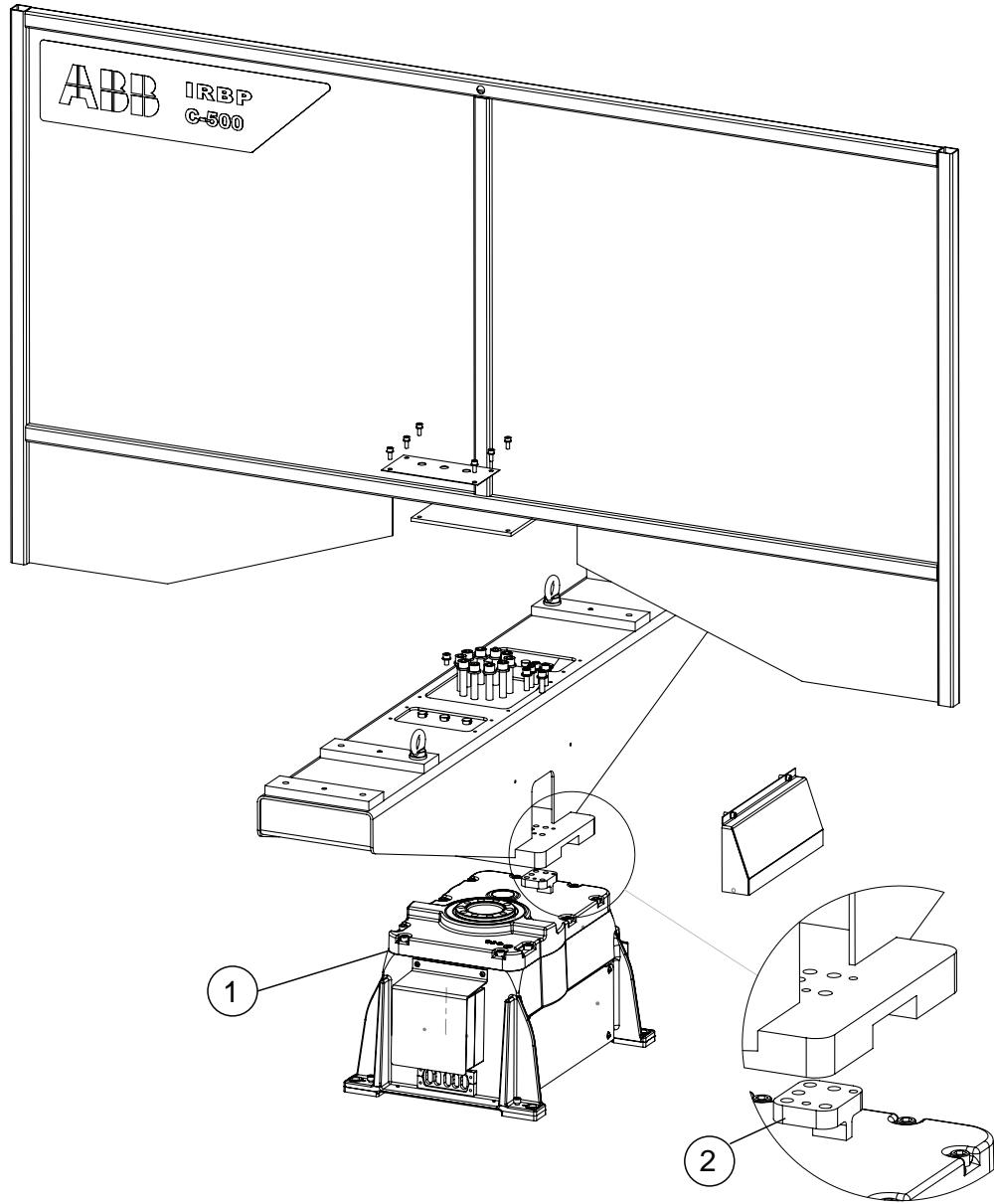
Lifting eyes are not delivered with the IRBP.

1 Positioners

1.3 IRBP C

1.3 IRBP C

Frame parts



xx1300000002

| Pos | Part | Spare part |
|-----|-------------|--|
| 1 | Rotary unit | 500, MID 1.1, see MID 1.1 on page 39 1000, MID 2.1, see Motor unit for MID 2.1-2.2 on page 64 |
| 2 | Stop lug | See Stop lug on page 47 |

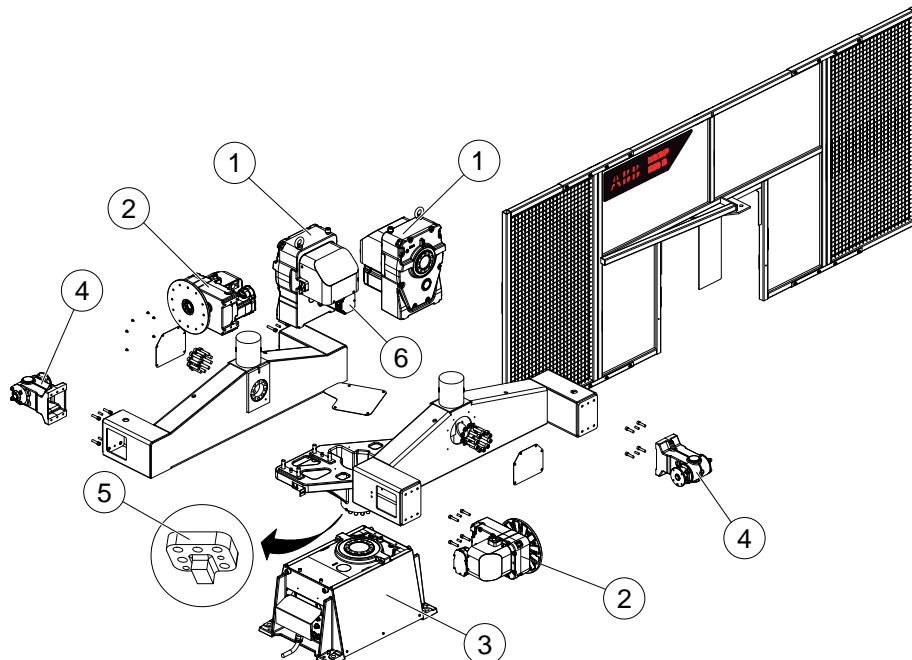


Note

Lifting eyes are not delivered with the IRBP.

1.4 IRBP D

Frame parts



xx1000000185

| Pos | Part | Spare part |
|-----|----------------|---|
| 1 | Rotary unit | MID 1.2 on page 41 |
| 2 | Rotary unit | 300, (MTD 250), see MTD 250 on page 19 600, (MTD 500/750), See MTD 500/750 on page 24 |
| 3 | Rotary unit | MID 2.1-2.2, see MID 2.1 on page 43 |
| 4 | Support collar | Support collar on page 45 |
| 5 | Stop lug | Stop lug on page 47 |
| 6 | Motor unit | 300, (MTD 250), see Motor units for MTD 250 on page 49 600, (MTD 500/750), see Motor unit for MTD 500-750 on page 52 |



Note

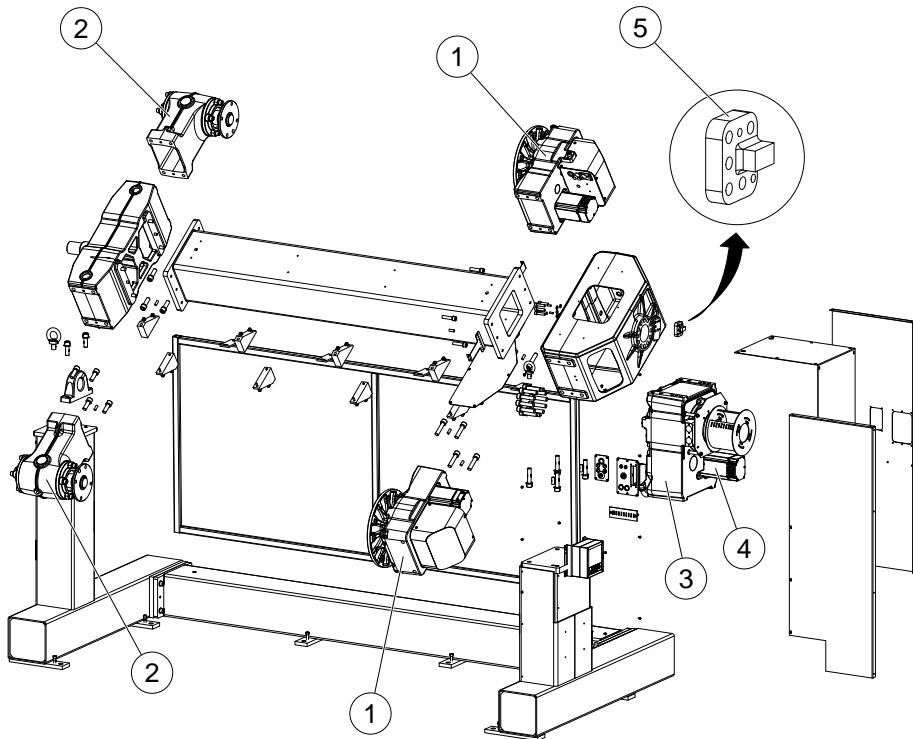
Lifting eyes are not delivered with the IRBP.

1 Positioners

1.5 IRBP K

1.5 IRBP K

Frame parts



xx1000000184

| Pos | Part | Spare part |
|-----|----------------|---|
| 1 | Rotary unit | 300, (MTD 250), see MTD 250 on page 19 600, (MTD 500/750), see MTD 500/750 on page 24 1000, (MTD 500/750), see MTD 500/750 on page 24 |
| 2 | Support collar | See Support collar on page 45 |
| 3 | Rotary unit | MID 1.2 , see MID 1.2 on page 41 |
| 4 | Motor unit | 300, (MTD 250), see Motor units for MTD 250 on page 49 600, (MTD 500/750), see Motor unit for MTD 500-750 on page 52 1000, (MTD 500/750), see Motor unit for MTD 500-750 on page 52 |
| 5 | Stop lug | See Stop lug on page 47 |

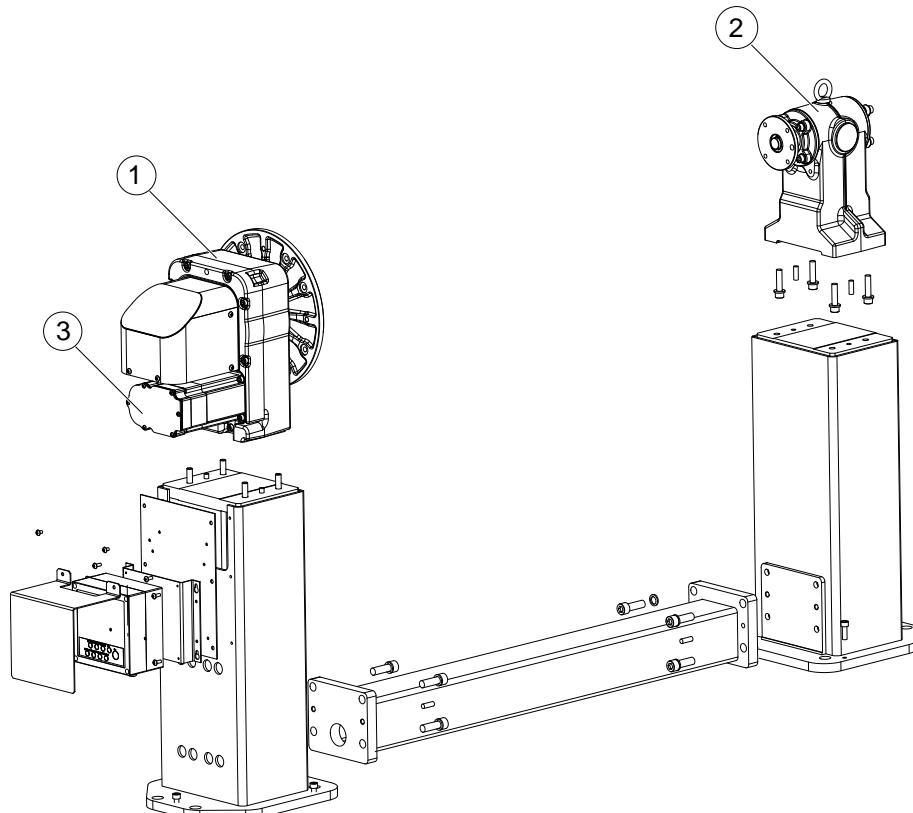


Note

Lifting eyes are not delivered with the IRBP.

1.6 IRBP L

Frame parts



xx1000000188

| Pos | Part | Spare part |
|-----|----------------|---|
| 1 | Rotary unit | 300, (MTD 250), see MTD 250 on page 19 600, (MTD 500)/750), see MTD 500/750 on page 24 1000, (MTD 500)/750), see MTD 500/750 on page 24 2000, (MTD 2000), see MTD 2000 on page 29 5000, (MTD 5000), see MTD 5000 on page 34 |
| 2 | Support collar | See Support collar on page 45 |
| 3 | Motor unit | 300, (MTD 250), see Motor units for MTD 250 on page 49 600, (MTD 500/750), see Motor unit for MTD 500-750 on page 52 1000, (MTD 500/750), see Motor unit for MTD 500-750 on page 52 2000, (MTD 2000), see Motor units for MTD 2000 on page 55 5000, (MTD 5000), see Motor units for MTD 5000 on page 58 |



Note

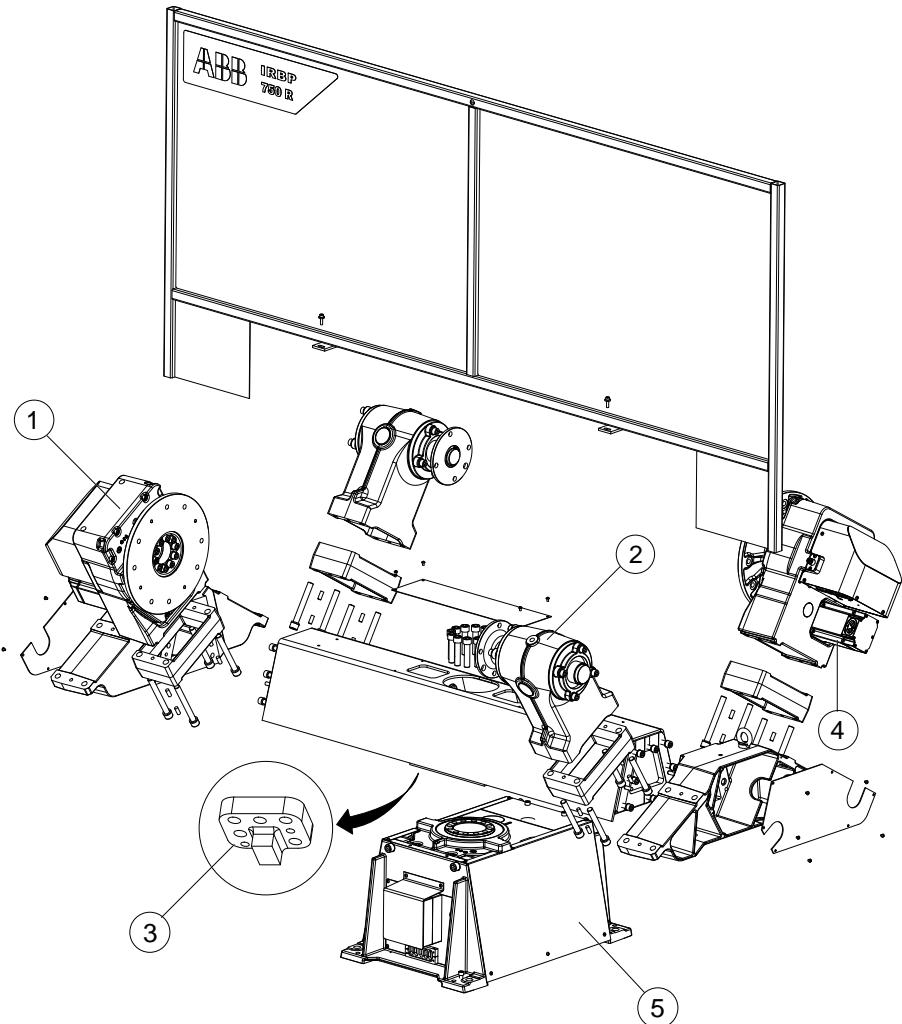
Lifting eyes are not delivered with the IRBP.

1 Positioners

1.7 IRBP R

1.7 IRBP R

Frame parts



xx1000000194

| Pos | Parts | Spare part |
|-----|----------------|---|
| 1 | Rotary unit | 300, (MTD 250), see MTD 250 on page 19 600, (MTD 500/750), see MTD 500/750 on page 24 1000, (MTD 500/750), see MTD 500/750 on page 24 |
| 2 | Support collar | See Support collar on page 45 |
| 3 | Stop lug | See Stop lug on page 47 |
| 4 | Motor unit | 300, (MTD 250), see Motor units for MTD 250 on page 49 600, (MTD 500/750), see Motor unit for MTD 500-750 on page 52 1000, (MTD 500/750), see Motor unit for MTD 500-750 on page 52 |
| 5 | Rotary unit | 300, MID1.1, see MID 1.1 on page 39 600, MID 2.1, see MID 2.1 on page 43 1000, MID 2.1, see MID 2.1 on page 43 |

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Note

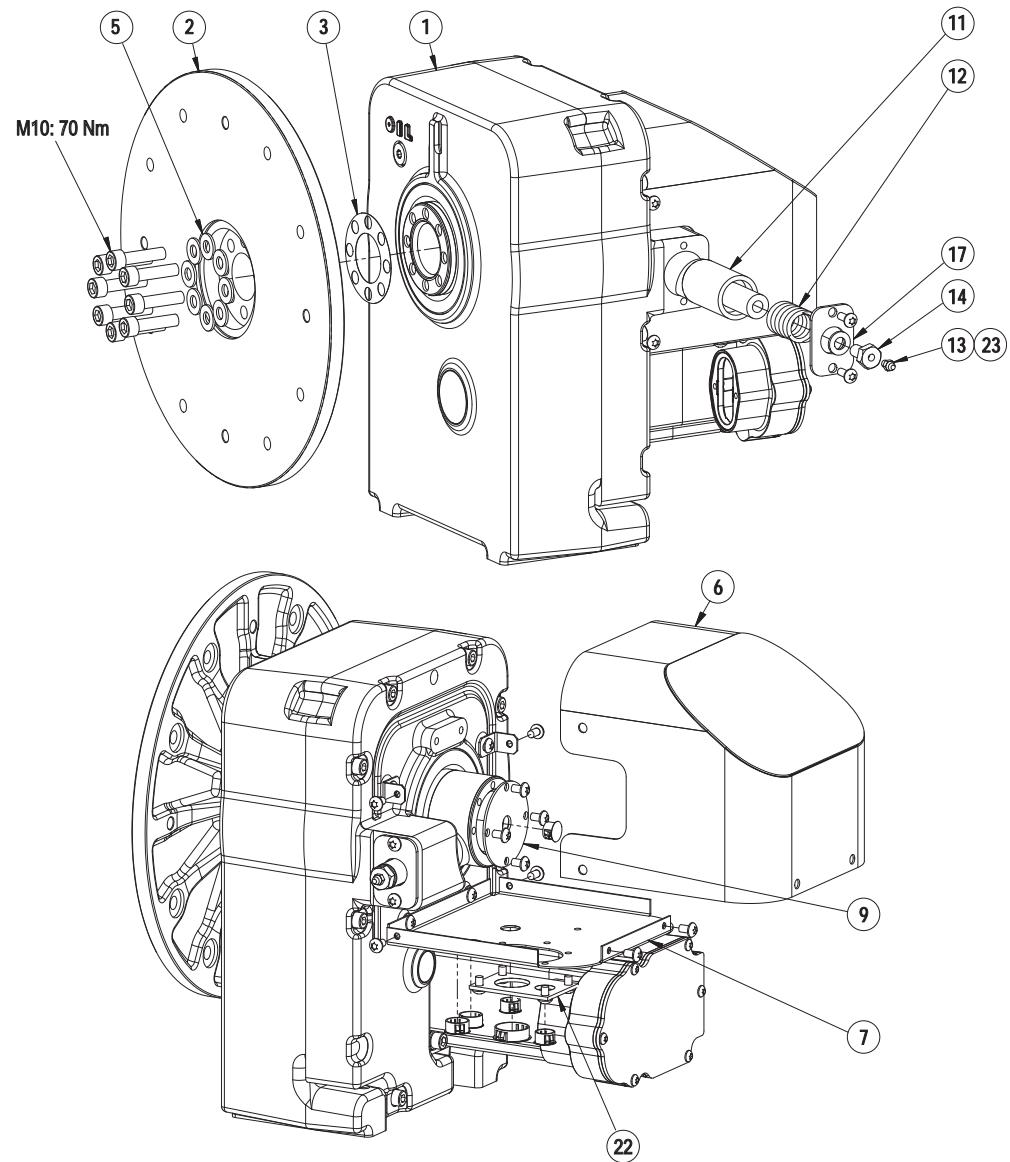
Lifting eyes are not delivered with the IRBP.

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2 Rotary units and supports

2.1 MTD 250

Rotary unit MTD 250



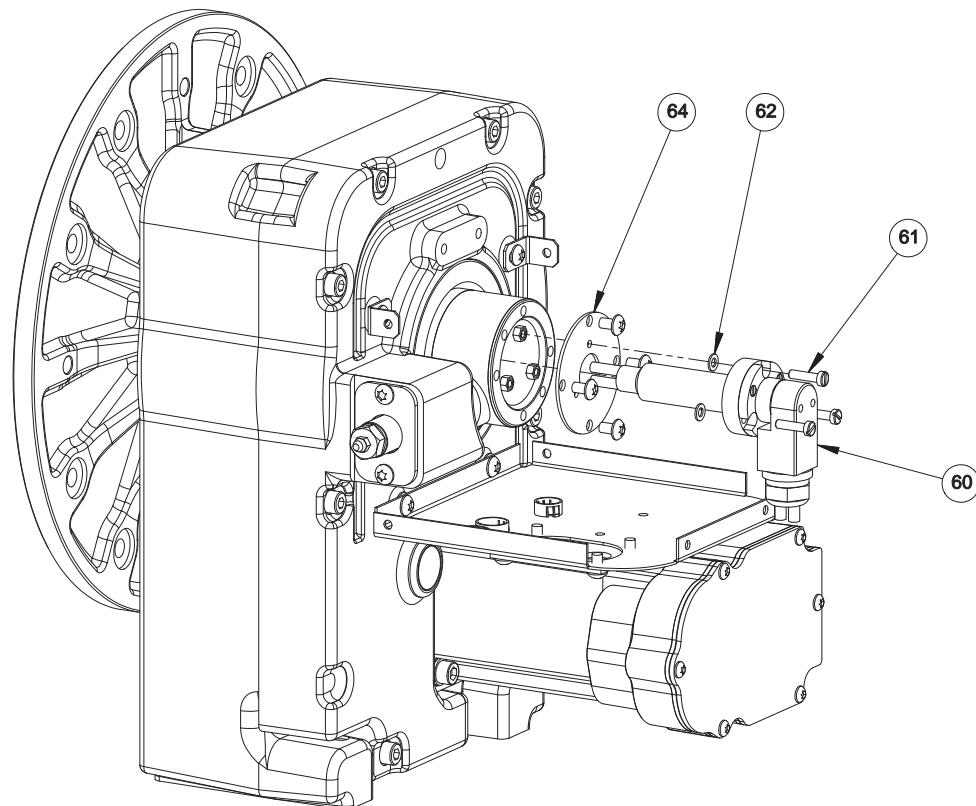
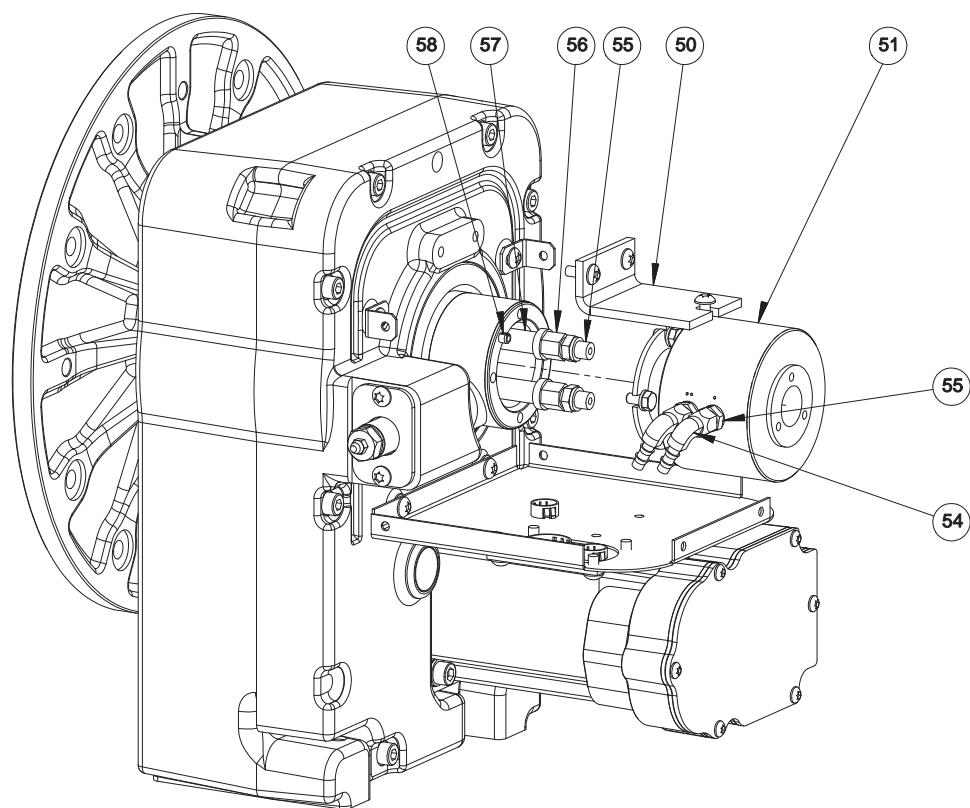
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2 Rotary units and supports

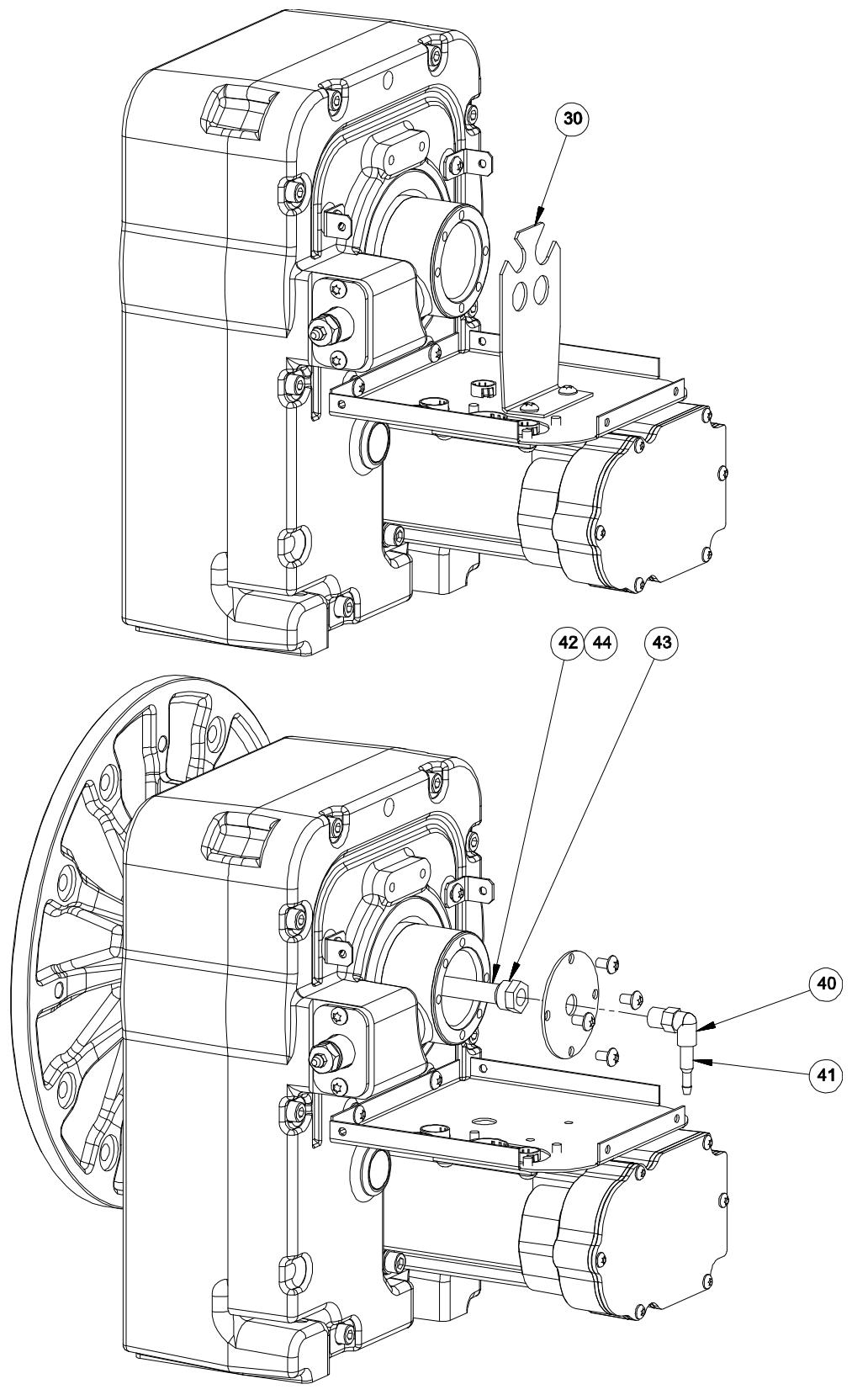
2.1 MTD 250

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2 Rotary units and supports

2.1 MTD 250

Continued

Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|-----------------------------|-----|----------------------|-----------|
| 1 | 3HAC035434-005 | Gearbox MTD 250, incl motor | 1 | Graphite White | |
| 1 | 3HAC035434-007 | Gearbox MTD 250, incl motor | 1 | ABB Orange | |
| 6 | 3HAC052131-001 | Cover MTD 250 | 1 | Graphite White | |
| 6 | 3HAC034827-001 | Cover MTD 250 | 1 | ABB Orange | |

Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|-----------------------------|-----|----------------------|-----------|
| 1 | 3HAC035434-003 | Gearbox MTD 250, incl motor | 1 | ABB Orange | |
| 6 | 3HAC034827-001 | Cover MTD 250 | 1 | ABB Orange | |

Components valid for all serial numbers



Note

These components are valid for all serial numbers of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|--------------------------|-----|----------------------|---------------|
| 2 | 3HAC032817-001 | Rotary disc MTD 250 | 1 | | |
| 3 | 3HAC035527-001 | Friction shim | 1 | | |
| 5 | 3HAC028304-003 | Washer 10.5/22 | 8 | | 10.5 x 22 T=2 |
| 7 | 3HAC034870-001 | Bottom sheet MTD 250 | 1 | | |
| 9 | 503839001 | Cover MTC 250 | 1 | | |
| 11 | 503852001 | Contact bar 250 | 1 | | |
| 12 | 418554002 | Spring 3x22x45 | 1 | | 3X22X4 |
| 13 | 25452021-21 | Lubricating nipple | 1 | | AH M6 |
| 14 | 503880001 | Screw, Current Collector | 1 | | |
| 17 | 503857001 | Washer MTC | 1 | | |

Continues on next page

2 Rotary units and supports

2.1 MTD 250

Continued

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|----------------------------|-----|----------------------|------------|
| 22 | 3HAC036336-001 | Insulated connection plate | 1 | | |
| 23 | 0501869002 | Special grease type P 34 | 5 | | |
| 40 | 501728007 | ROTATING COUPLING | 1 | | |
| 41 | 192200103 | Hose Nipple | 1 | 1/4" D4.25-4.4" | |
| 42 | 504478001 | Hose 1/4 | 1 | | |
| 43 | 503882001 | NIPPEL 1/4 | 1 | | |
| 44 | 193761002 | HOSE CLAMP | 1 | D 13/7 | |
| 50 | 503871001 | Bar MTC 250 | 1 | | |
| 51 | 503875880 | SWIVEL | 1 | 2-CH | DIAM. 45 |
| 54 | 504474001 | Elbow Coupling M12X1.5 | 2 | Steel-A2F | 90 degrees |
| 55 | 504476001 | Coupling | 4 | | M10X1 |
| 56 | 504477001 | NIPPEL 1/4 | 2 | | M12X1.5 |
| 57 | 504478001 | Hose 1/4 | 2 | | |
| 58 | 9ABA142-57 | Spring pin, slotted | 2 | Steel | 6x16 |
| 60 | 3HAC032972-002 | Slip ring capsule | 1 | | |
| 61 | 3HAC033459-002 | Screw | 3 | Polyamide | M5x20 |
| 62 | 3HAC033458-001 | Washer | 3 | Polyamide | 5.3x10x1 |
| 64 | 503883001 | Cover elec. Swivel MTC 250 | | | |

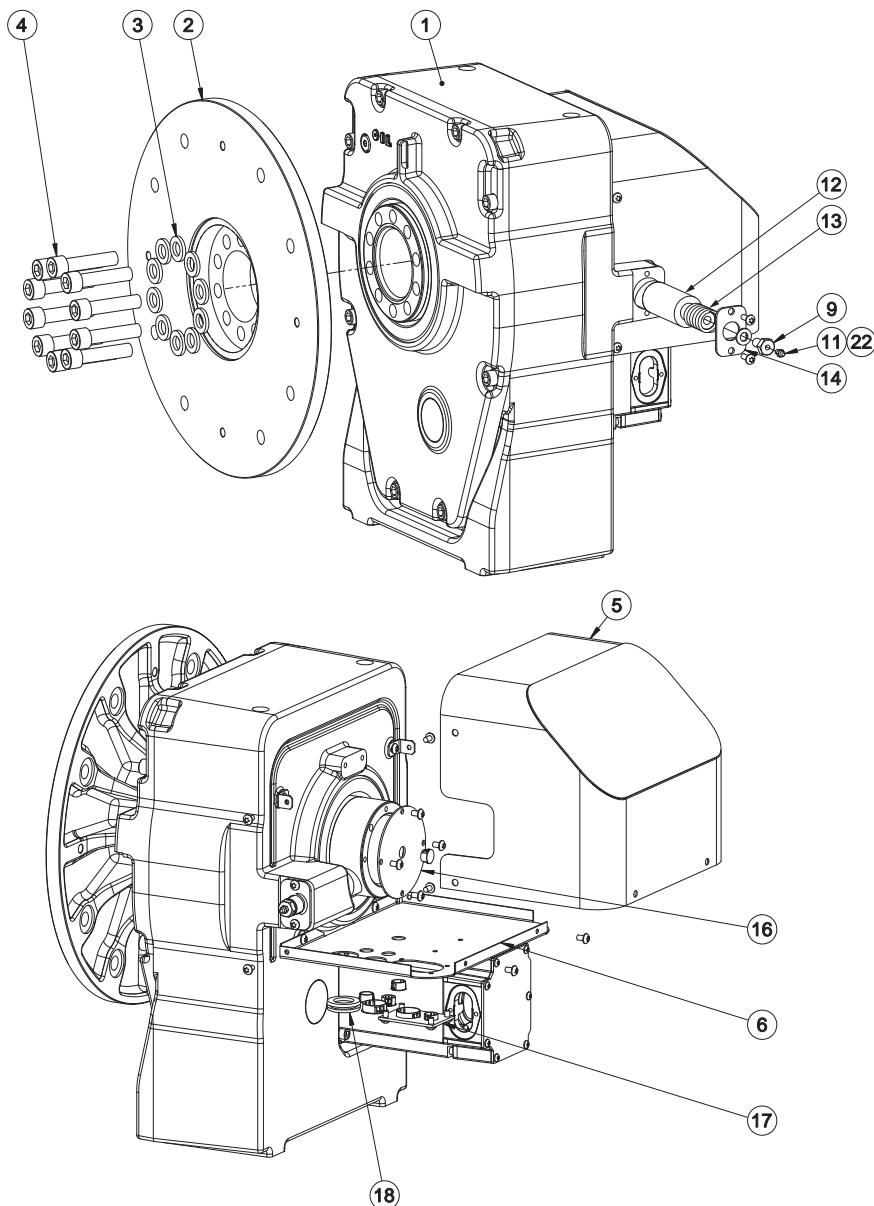
2 Rotary units and supports

2.2 MTD 500/750

2.2 MTD 500/750

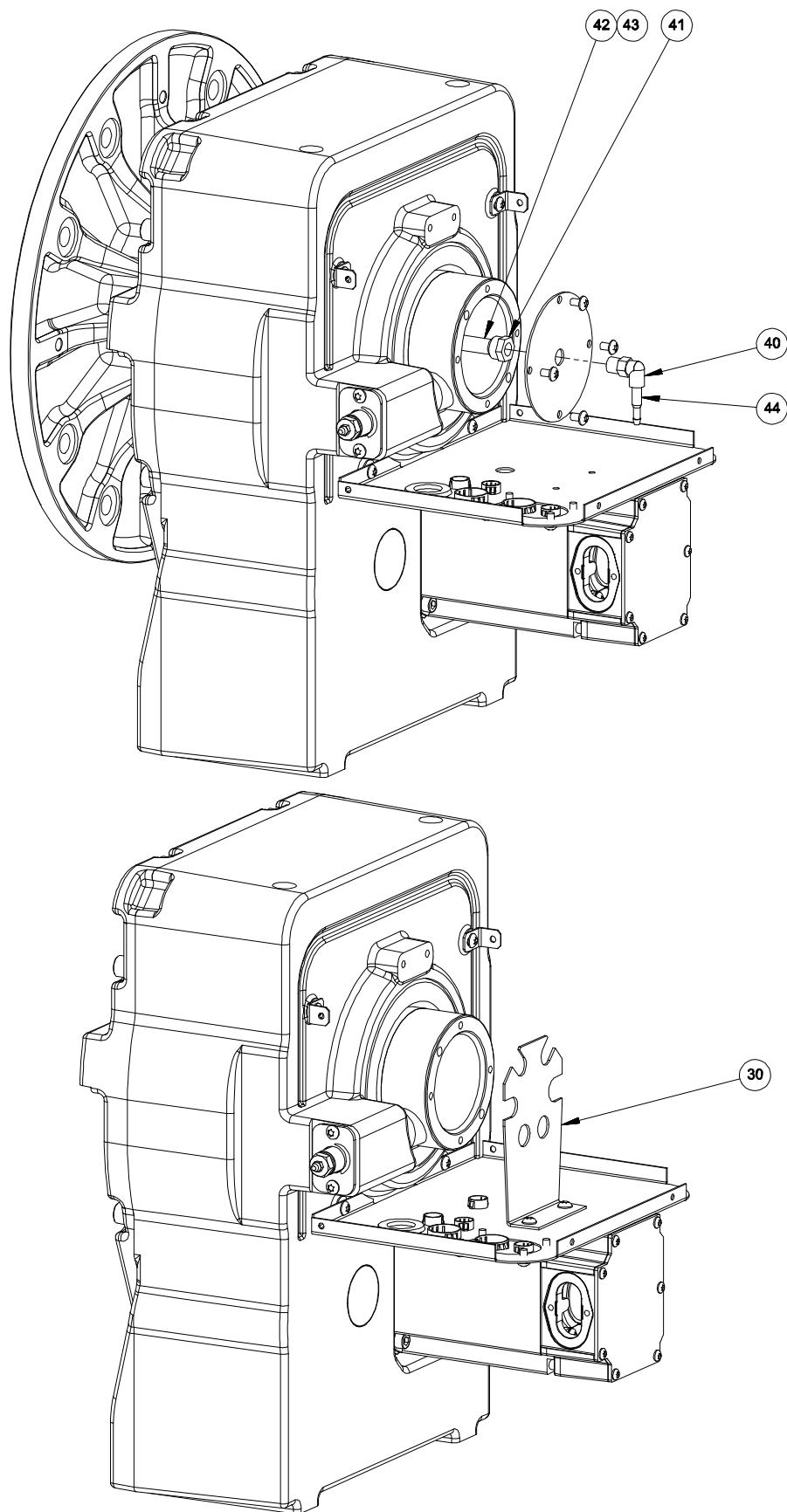
Rotary unit MTD 500/750

M16 12.9; 300 Nm



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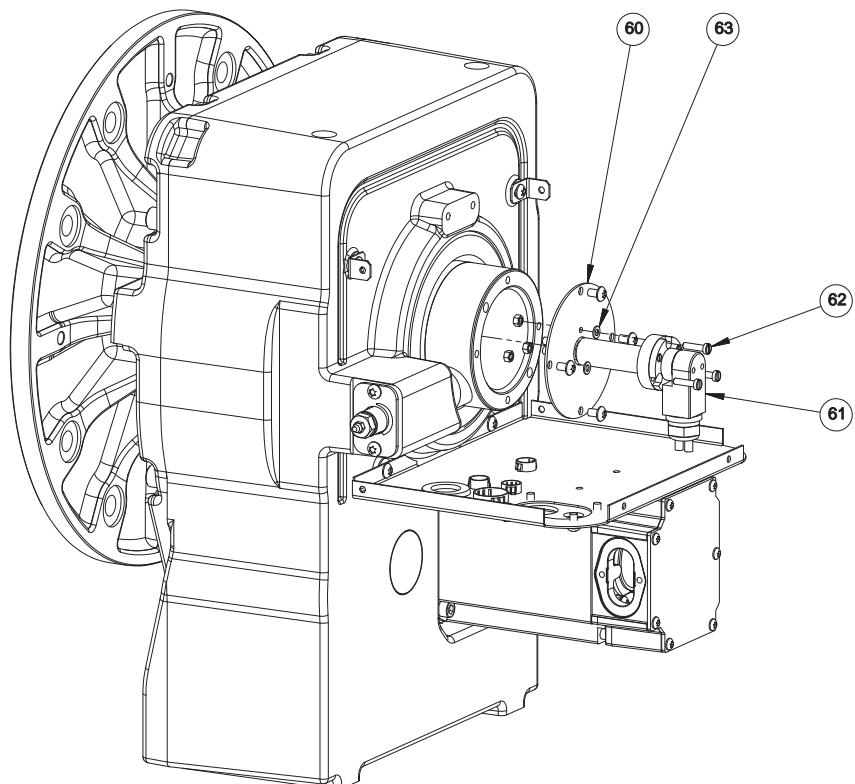
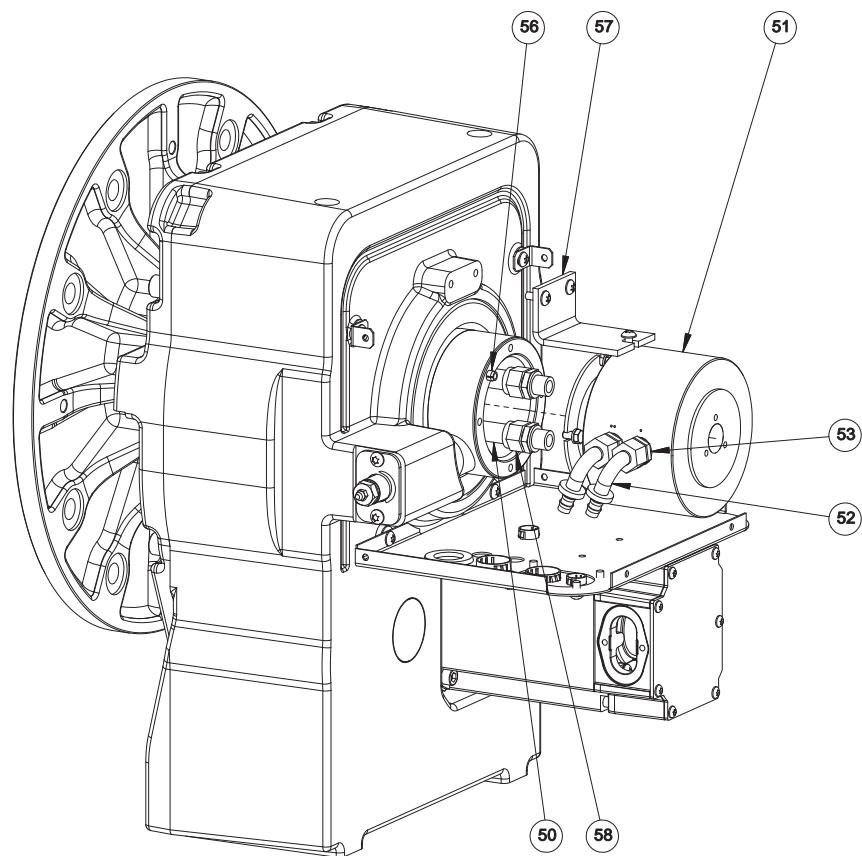
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2 Rotary units and supports

2.2 MTD 500/750

Continued



xx1000000166

Continues on next page

Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|-----------------------------|-----|----------------------|-----------|
| 1 | 3HAC035436-003 | Gearbox MTD 500, incl motor | 1 | Graphite White | |
| 1 | 3HAC035436-005 | Gearbox MTD 500, incl motor | 1 | Graphite White | |
| 1 | 3HAC035436-007 | Gearbox MTD 500, incl motor | 1 | ABB Orange | |
| 1 | 3HAC035398-004 | Gearbox MTD 750, incl motor | 1 | ABB Orange | |
| 1 | 3HAC035398-008 | Gearbox MTD 750, incl motor | 1 | Graphite White | |
| 1 | 3HAC035398-012 | Gearbox MTD 750, incl motor | 1 | ABB Orange | |
| 5 | 3HAC050288-001 | Cover MTD 500/750 | 1 | Graphite White | |
| 5 | 3HAC036974-001 | Cover MTD 500/750 | 1 | ABB Orange | |

Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|-----------------------------|-----|----------------------|-----------|
| 1 | 3HAC035436-002 | Gearbox MTD 500, incl motor | 1 | ABB Orange | |
| 1 | 3HAC035398-004 | Gearbox MTD 750, incl motor | 1 | ABB Orange | |
| 6 | 3HAC036974-001 | Cover MTD 500/750 | 1 | ABB Orange | |

Components valid for all serial numbers



Note

These components are valid for all serial numbers of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|---------------------------|-----|----------------------|-------------|
| 2 | 3HAC032819-001 | Rotary disc MTD 750 | 1 | | |
| 3 | 3HAC028304-005 | Washer 17/30 | 10 | | 17 x 30 T=4 |
| 4 | 3HAB7700-5 | Hex socket head cap screw | 10 | UNBRAKO 12.9 GI 610 | M16x70 |
| 6 | 3HAC036350-001 | Bottom sheet MTD 500/750 | 1 | | |
| 9 | 503880001 | Screw, Current Collector | 1 | | |

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2 Rotary units and supports

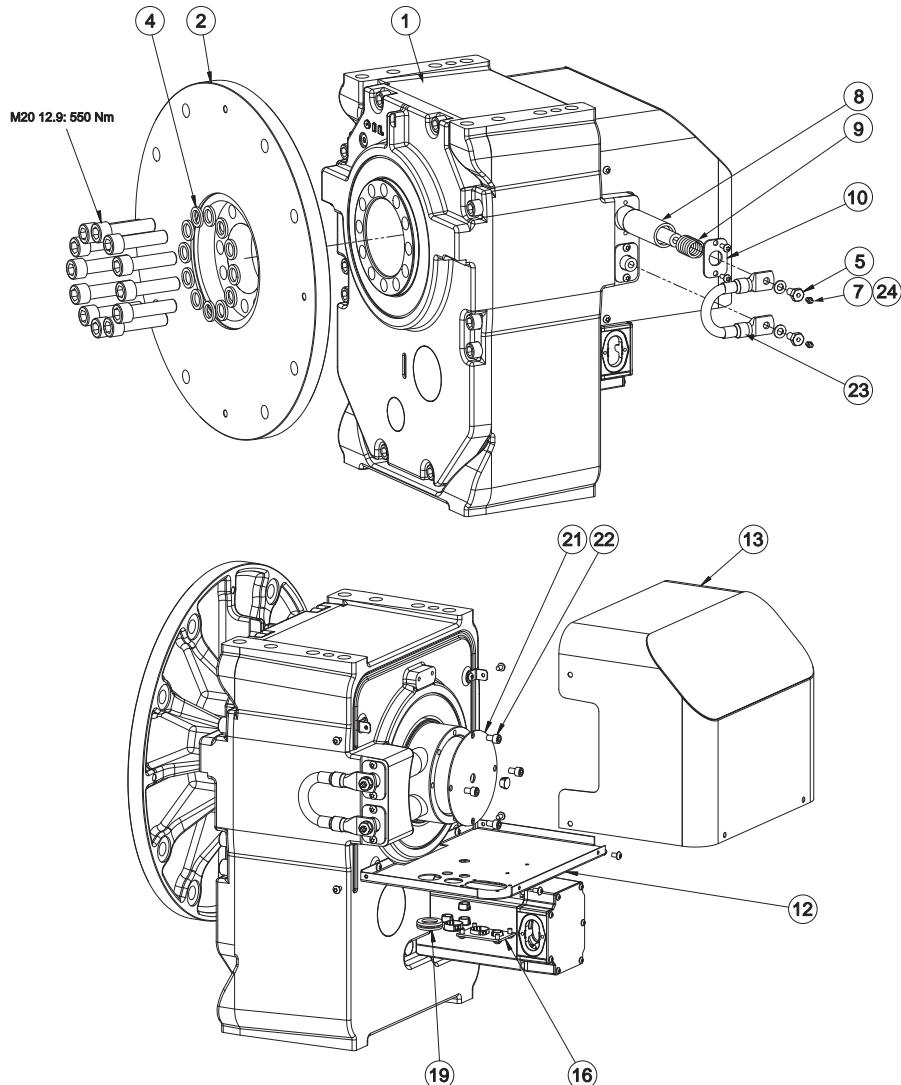
2.2 MTD 500/750

Continued

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|--------------------------------|-----|----------------------|------------------|
| 11 | 25452021-21 | Lubricating nipple | 1 | | AH M6 |
| 12 | 503853001 | Contact Bar 500/750 | 1 | MTC 500/750 | |
| 13 | 418554002 | Spring 3x22x45 | 1 | | Spring 3x22x4 |
| 14 | 503857001 | Washer MTC | 1 | | |
| 16 | 503839002 | Cover MTC 500/750 | 1 | | |
| 17 | 3HAC036336-001 | Insulated connection plate | 1 | | |
| 18 | 504189010 | Shelter plug D 32X40/3 | 1 | | D= 32X40/3 |
| 22 | 0501869002 | Special grease type P 34 | 5 | | |
| 30 | 3HAC036352-001 | Cable bracket MTD 500/750 | 1 | | |
| 40 | 501728007 | ROTATING COUPLING | 1 | | |
| 41 | 503882001 | NIPPEL 1/4 | 1 | | |
| 42 | 504478001 | Hose 1/4 | 1 | | |
| 43 | 193761002 | HOSE CLAMP | 1 | | D 13/7 |
| 44 | 192200103 | Hose Nipple | 1 | | 1/4", D4.25-4.4" |
| 50 | 504478002 | Hose 3/8 | 2 | | |
| 51 | 503876880 | Swivel 2-K | 1 | D 75 | |
| 52 | 504475003 | Nipple 90deg. | 2 | | M18X1.5 |
| 53 | 504476003 | Coupling | 4 | | M16X1.5 |
| 56 | 9ABA142-73 | Spring-Type Straight Pins 8x16 | 2 | | D8x16 |
| 57 | 503889001 | Bar MTC 750 | 1 | | |
| 58 | 504477003 | Hose Nipple 3/8 M18X1.5 | 2 | | |
| 60 | 503883002 | Cover elec. Swivel MTC 750 | 1 | | |
| 61 | 3HAC032972-002 | Slip ring capsule | 1 | | |
| 62 | 3HAC033459-002 | Screw | 3 | Polyamide | M5x20 |
| 63 | 3HAC033458-001 | Washer | 3 | Polyamide | 5.3x10x1 |

2.3 MTD 2000

Rotary unit MTD 2000



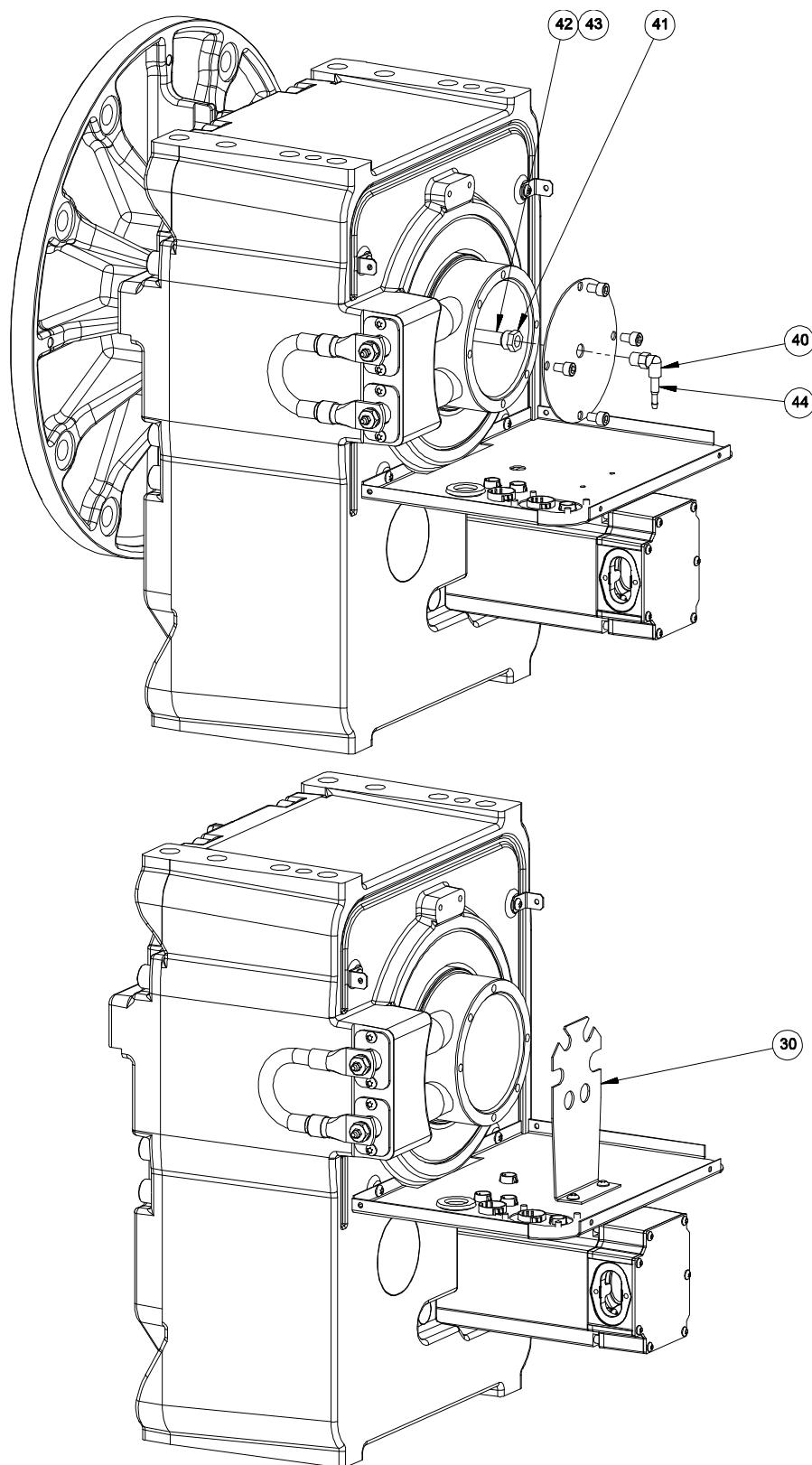
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2 Rotary units and supports

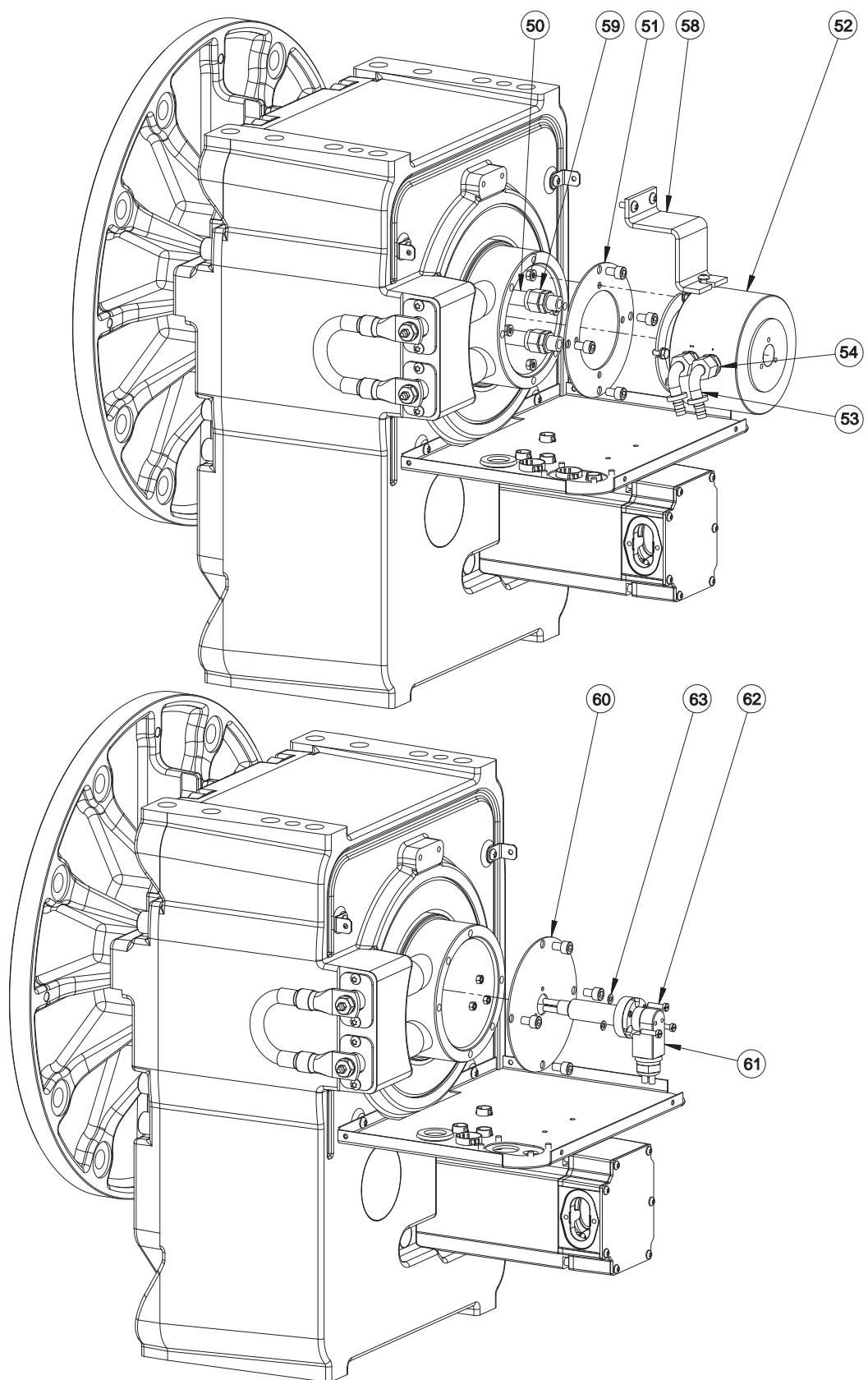
2.3 MTD 2000

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2 Rotary units and supports

2.3 MTD 2000

Continued

Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|------------------------------|-----|----------------------|-----------|
| 1 | 3HAC035406-008 | Gearbox MTD 2000, incl motor | 1 | Graphite White | |
| 1 | 3HAC035406-012 | Gearbox MTD 2000, incl motor | 1 | ABB Orange | |
| 13 | 3HAC050326-001 | Cover MTD 2000 | 1 | Graphite White | |
| 13 | 3HAC036975-001 | Cover MTD 2000 | 1 | ABB Orange | |

Components valid up to these serial number:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|------------------------------|-----|----------------------|-----------|
| 1 | 3HAC035406-004 | Gearbox MTD 2000, incl motor | 1 | ABB Orange | |
| 13 | 3HAC036975-001 | Cover MTD 2000 | 1 | ABB Orange | |

Components valid for all serial numbers



Note

These components are valid for all serial numbers of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|----------------------------|-----|----------------------|------------|
| 2 | 3HAC032820-001 | Rotary disc MTD 2000 | 1 | | |
| 4 | 3HAC035525-001 | Washer | 12 | | 21x31 T=4 |
| 5 | 503880001 | Screw, Current Collector | 2 | | |
| 7 | 25452021-21 | Lubricating nipple | 2 | | AH M6 |
| 8 | 503854001 | Contact Bar 2000 | 2 | MTC 2000 | |
| 9 | 418554002 | Spring 3x22x45 | 2 | | 3X22X4 |
| 10 | 503857001 | Washer MTC | 2 | | |
| 12 | 3HAC036356-001 | Bottom sheet MTD 2000 | 1 | | |
| 16 | 3HAC036336-001 | Insulated connection plate | 1 | | |
| 19 | 504189010 | Shelter plug D 32X40/3 | 1 | | D= 32X40/3 |

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2 Rotary units and supports

2.3 MTD 2000

Continued

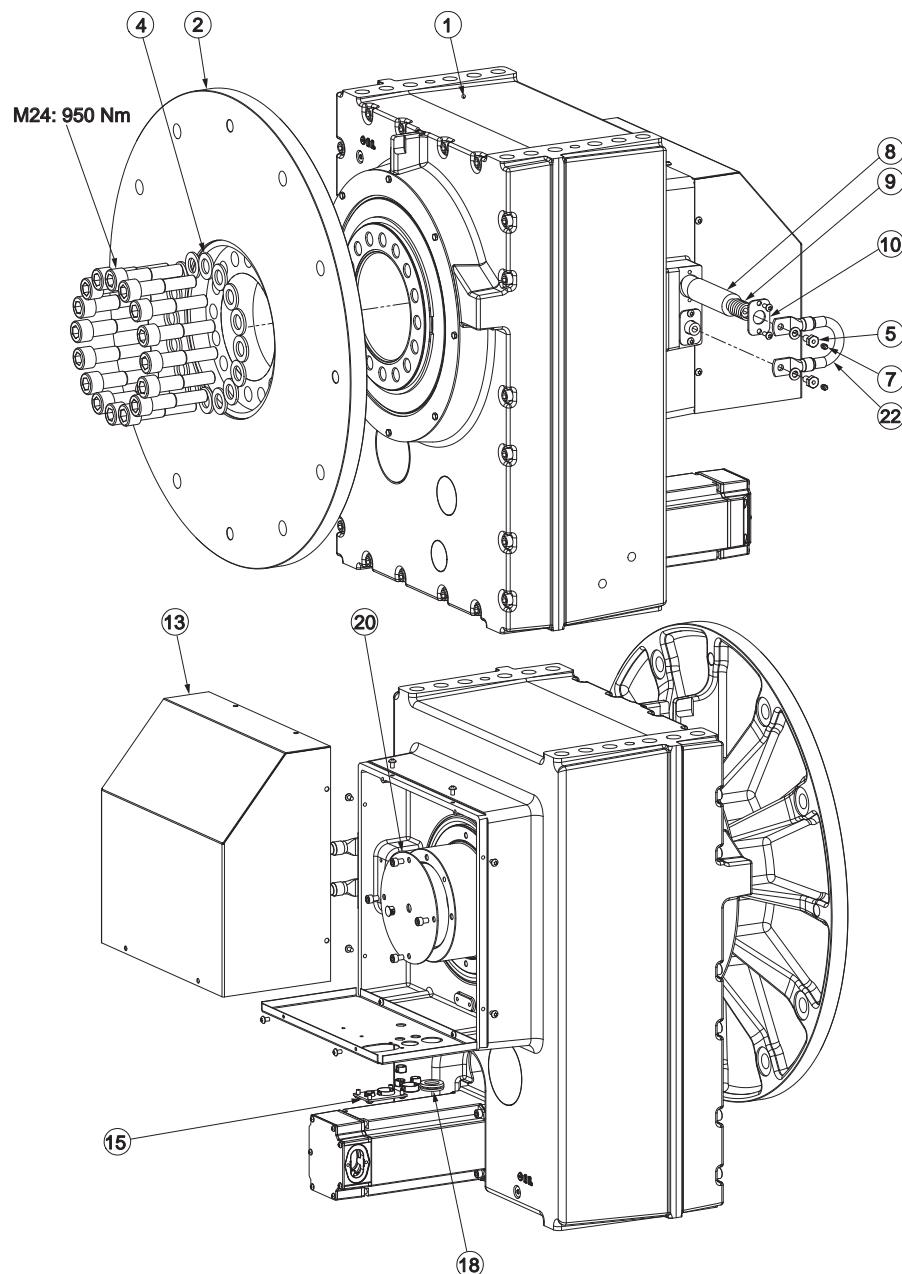
| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|--|-----|----------------------|-----------|
| 20 | 3HAC029662-001 | Blind Plug D=14 | 1 | | |
| 21 | 503839003 | Cover MTC 2000 | 1 | | |
| 23 | 504504890 | Welding return cable 95mm ² | 1 | | 0.15m |
| 24 | 0501869002 | Special grease type P 34 | 12 | | |
| 40 | 501728007 | ROTATING COUPLING | 1 | | |
| 41 | 503882001 | Nipple 1/4 | 1 | | |
| 42 | 504478001 | Hose 1/4 | 1 | | |
| 43 | 193761002 | HOSE CLAMP | 1 | D 13/7 | |
| 44 | 192200103 | Hose Nipple | 1 | 1/4" D4.25-4.4" | |
| 50 | 504478002 | Hose 3/8 | 2 | | |
| 51 | 503873001 | SVIVELADAPTER MTC 2000 | 1 | | |
| 52 | 503876880 | Swivel 2-K | 1 | D 75 | |
| 53 | 504475003 | Nipple 90deg. | 2 | | M18X1.5 |
| 54 | 504476003 | Coupling | 4 | | M16X1.5 |
| 59 | 504477003 | Hose Nipple 3/8 M18X1.5 | 2 | | |
| 60 | 503883003 | Cover elec. Swivel MTC 2000 | 1 | | |
| 61 | 3HAC032972-002 | Slip ring capsule | 1 | | |
| 62 | 3HAC033459-002 | Screw | 3 | Polyamide | M5x20 |
| 63 | 3HAC033458-001 | Washer | 3 | Polyamide | 5.3x10x1 |

2 Rotary units and supports

2.4 MTD 5000

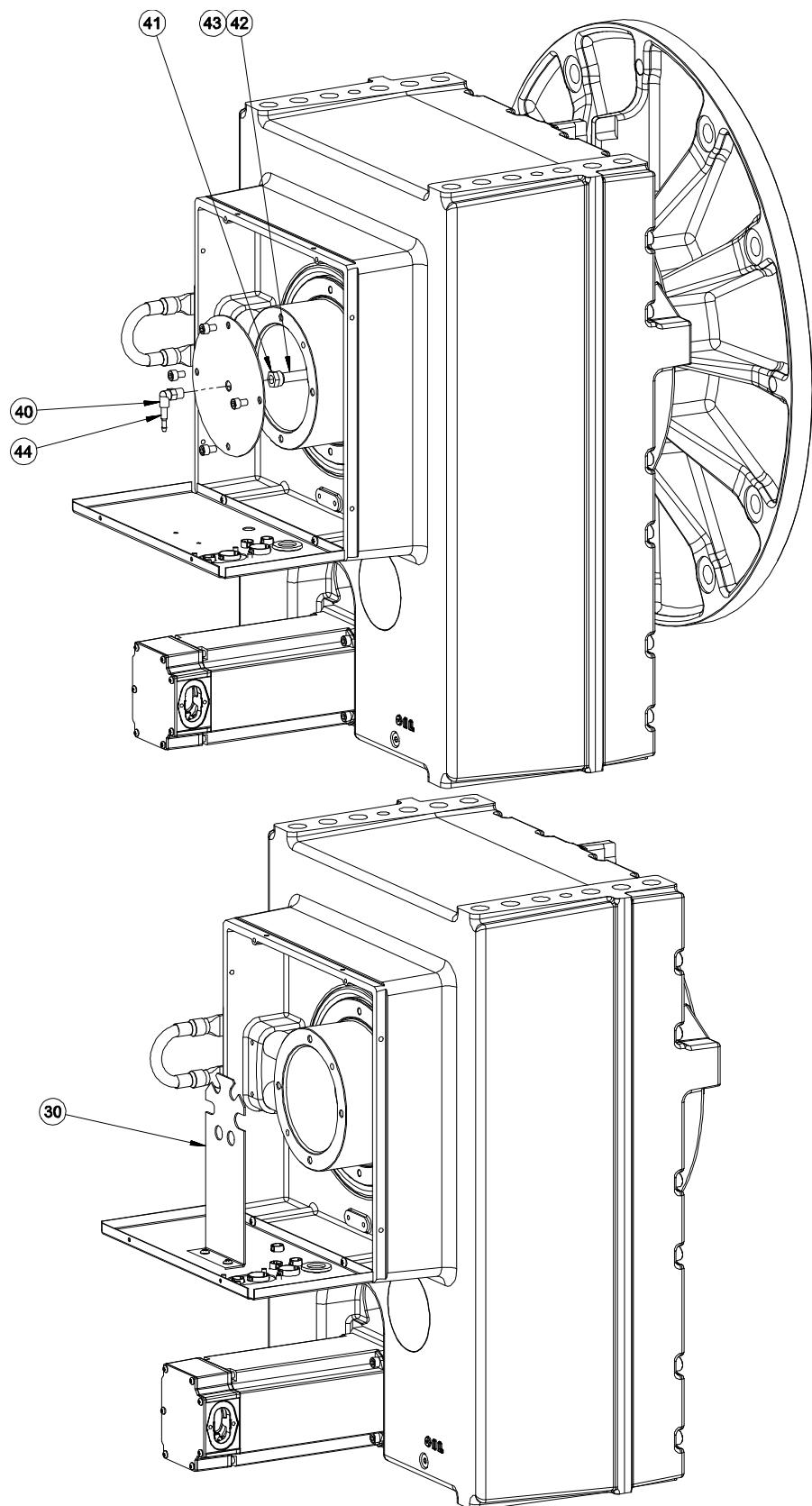
2.4 MTD 5000

Rotary unit MTD 5000



xx1000000172

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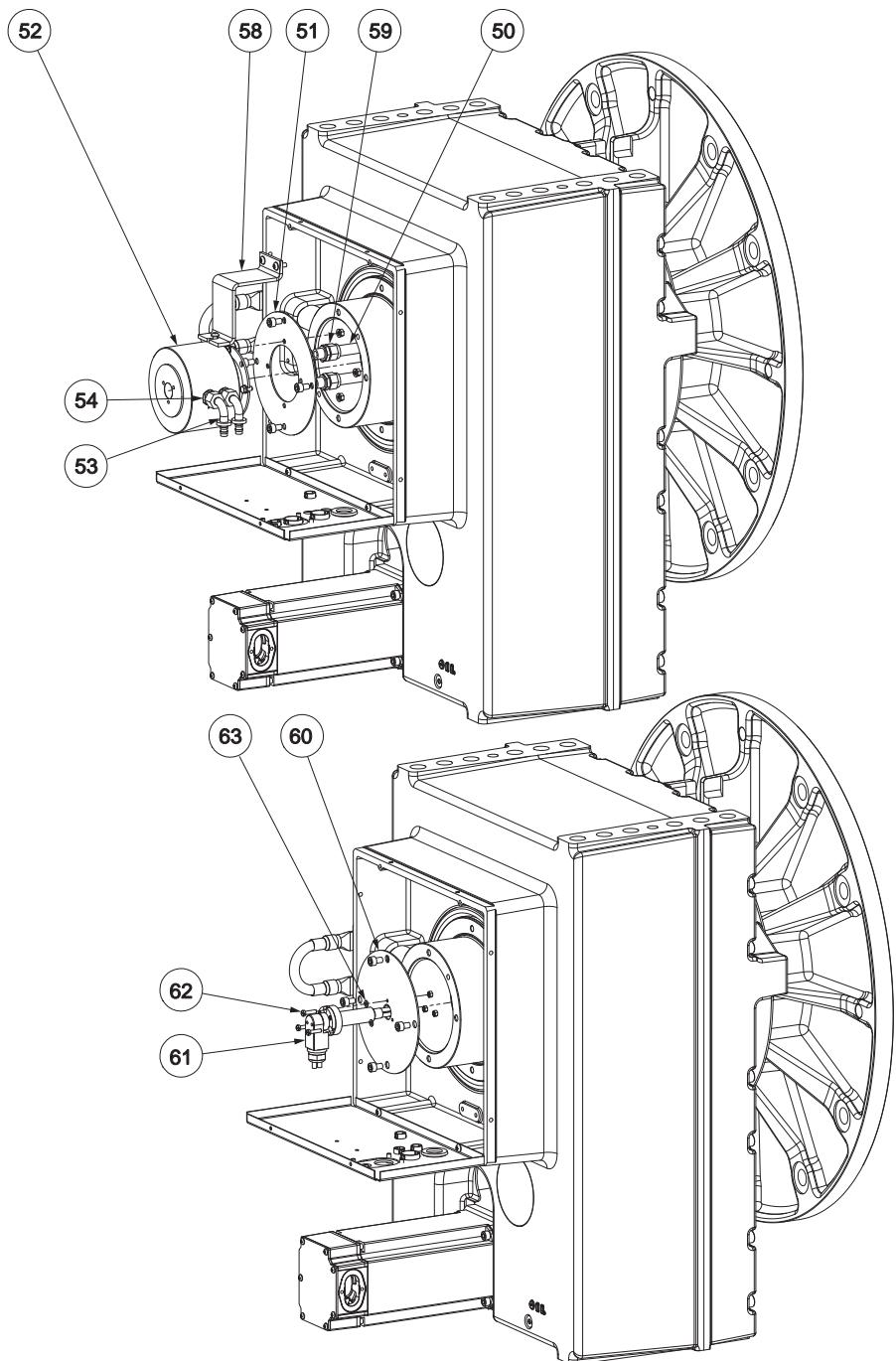
xx1000000173

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2 Rotary units and supports

2.4 MTD 5000

Continued



xx1000000174

Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

Continues on next page

2 Rotary units and supports

2.4 MTD 5000

Continued

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|------------------------------|-----|----------------------|-----------|
| 1 | 3HAC035444-004 | Gearbox MTD 5000, incl motor | 1 | Graphite White | |
| 1 | 3HAC035444-006 | Gearbox MTD 5000, incl motor | 1 | ABB Orange | |
| 13 | 3HAC050667-001 | Cover MTC 5000 | 1 | Graphite White | |
| 13 | 503849880 | Cover MTC 5000 | 1 | ABB Orange | |

Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|------------------------------|-----|----------------------|-----------|
| 1 | 3HAC035444-002 | Gearbox MTD 5000, incl motor | 1 | ABB Orange | |
| 13 | 503849880 | Cover MTC 5000 | 1 | ABB Orange | |

Components valid for all serial numbers



Note

These components are valid for all serial numbers of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|--|-----|----------------------|-------------|
| 2 | 3HAC032821-001 | Rotary disc MTD 5000 | 1 | | |
| 4 | 3HAC028304-007 | Washer 25/44 | 16 | | 25 x 44 T=4 |
| 5 | 503880001 | Screw, Current Collector | 2 | | |
| 7 | 25452021-21 | Lubricating nipple | 2 | | AH M6 |
| 8 | 503855001 | Contact bar 5000 | 2 | | |
| 9 | 418554002 | Spring 3x22x45 | 2 | | 3X22X4 |
| 10 | 503857001 | Washer MTC | 2 | | |
| 15 | 3HAC036336-001 | Insulated connection plate | 1 | | |
| 18 | 504189010 | Shelter plug D 32X40/3 | 1 | | D= 32X40/3 |
| 20 | 503839004 | Welding return cable 95mm ² | 1 | | |
| 22 | 504504890 | Welding return cable 95mm ² | 1 | | 0.15m |
| 23 | 0501869002 | Special grease type P 34 | 16 | | |
| 40 | 501728007 | ROTATING COUPLING | 1 | | |
| 41 | 503882001 | NIPPEL 1/4 | 1 | | |
| 42 | 504478001 | Hose 1/4 | | | 1.1 m |
| 43 | 193761002 | HOSE CLAMP | 1 | D 13/7 | |
| 44 | 192200103 | Hose Nipple | 1 | 1/4", D4.25-4.4" | |

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2 Rotary units and supports

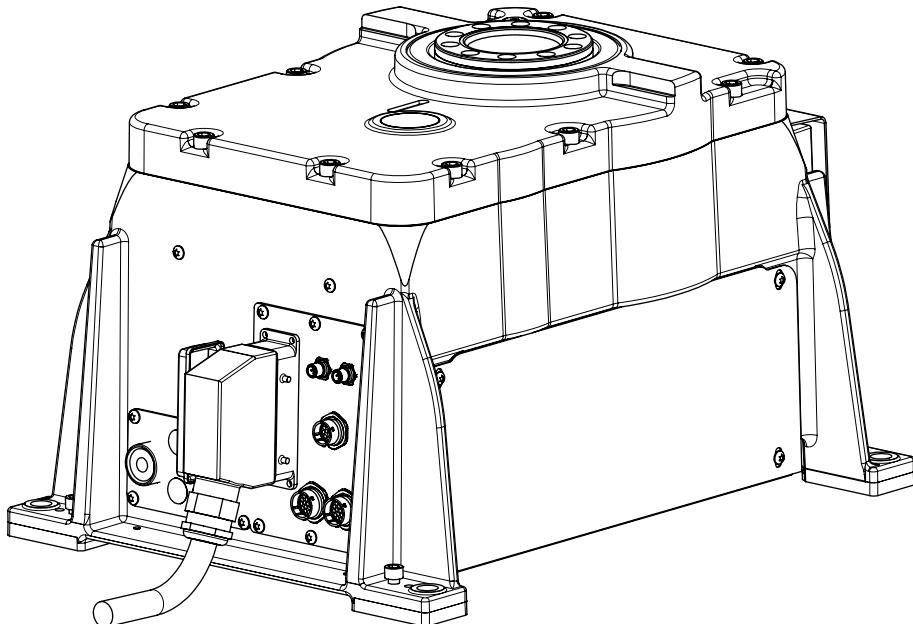
2.4 MTD 5000

Continued

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|-----------------------------|-----|----------------------|-----------|
| 50 | 504478002 | Hose 3/8 | | | 2.2 m |
| 51 | 503874001 | SVIVELADAPTER MTC 5000 | 1 | | |
| 52 | 503876880 | Swivel 2-K | 1 | D 75 | |
| 53 | 504475003 | Nipple 90deg. | 2 | | M18X1.5 |
| 54 | 504476003 | Coupling | 4 | | M16X1.5 |
| 58 | 503879001 | STAG MTC 5000 | 1 | | |
| 59 | 504477003 | Hose Nipple 3/8 M18X1.5 | 2 | | |
| 60 | 503883004 | Cover elec. Swivel MTC 5000 | 1 | | |
| 61 | 3HAC032972-002 | Slip ring capsule | 1 | | |
| 62 | 3HAC033459-002 | Screw | 3 | Polyamide | M5x20 |
| 63 | 3HAC033458-001 | Washer | 3 | Polyamide | 5.3x10x1 |

2.5 MID 1.1

Rotary unit MID 1.1



xx1300002584

Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|-----------------------------|-----|----------------------|-----------|
| 1 | 3HAC035480-004 | Gearbox MID 1.1, incl motor | 1 | Dark grey | |
| 1 | 3HAC035480-002 | Gearbox MID 1.1, incl motor | | Black | |

Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|-----------------------------|-----|----------------------|-----------|
| 1 | 3HAC035480-004 | Gearbox MID 1.1, incl motor | 1 | Black | |

Continues on next page

2 Rotary units and supports

2.5 MID 1.1

Continued

Components valid for all serial numbers



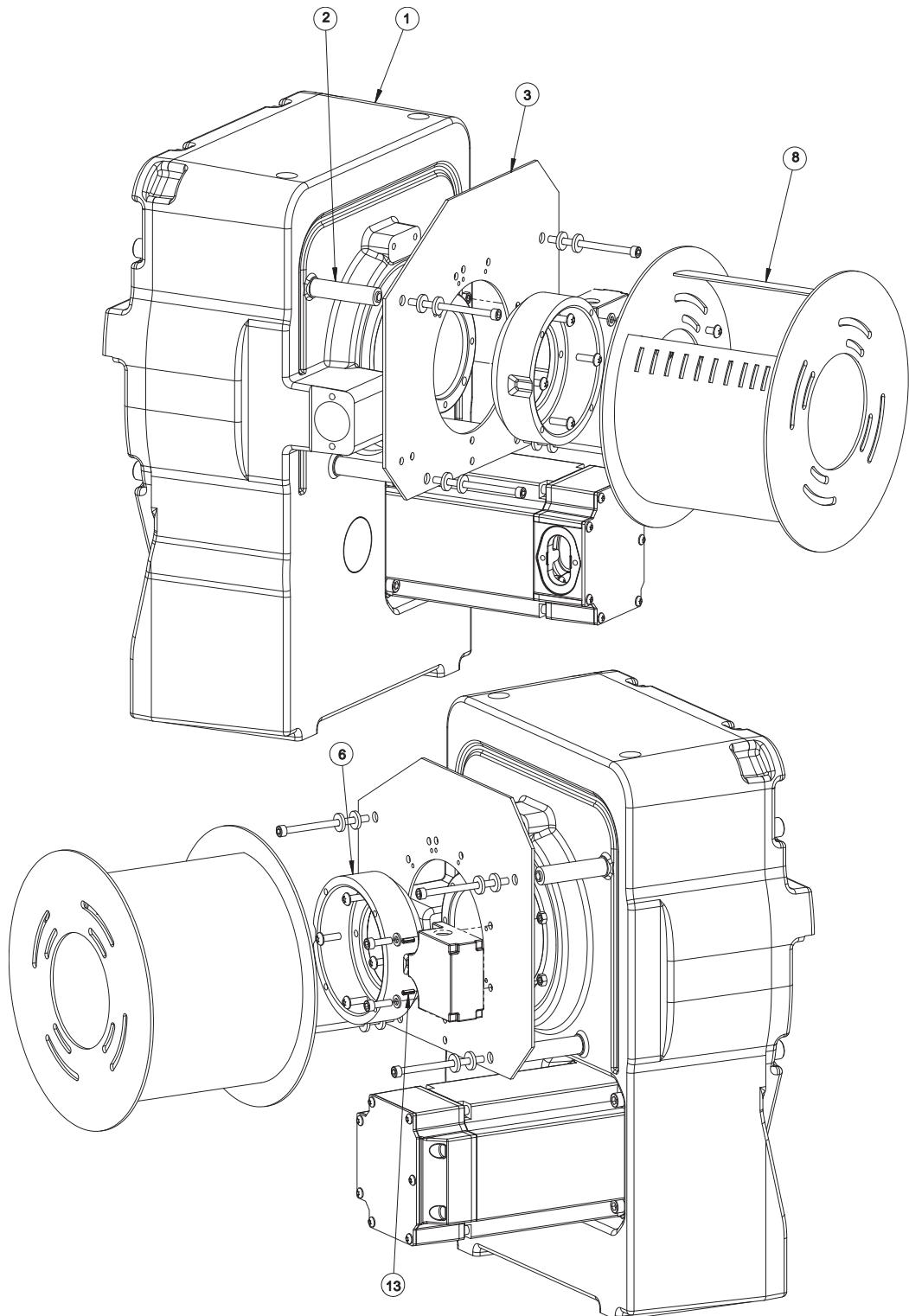
Note

These components are valid for all serial numbers of the IRBP.

| Item | Component | Description | Qty | Material, type, etc | Dimension |
|------|-------------|---------------------------|-----|---------------------|-----------|
| 2 | 503827001 | Distance | 4 | | |
| 3 | 503940001 | Limit Switch plate MIC 1 | 1 | | |
| 4 | 9ADA183-430 | Hex socket head cap screw | 4 | Steel 8.8-A2F | M6x90 |
| 5 | 9ADA327-4 | Plain washer, large | 8 | Steel-mZn12c | 6.4x17x3 |
| 6 | 503938001 | Limit switch disc MIC 1 | 1 | | |
| 8 | 503865880 | Cable drum MIC x.2 | 1 | | |
| 13 | 9ABA142-31 | Spring pin, slotted | 2 | Steel | 4x12 |

2.6 MID 1.2

Rotary unit MID 1.2



xx1000000176

Continues on next page

2 Rotary units and supports

2.6 MID 1.2

Continued

Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|-----------------------------|-----|----------------------|-----------|
| 1 | 3HAC035398-007 | Gearbox MID 1.2, incl motor | 1 | Graphite White | |
| 1 | 3HAC035398-011 | Gearbox MID 1.2, incl motor | 1 | ABB Orange | |

Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|-----------------------------|-----|----------------------|-----------|
| 1 | 3HAC035398-003 | Gearbox MID 1.2, incl motor | 1 | ABB Orange | |

Components valid for all serial numbers



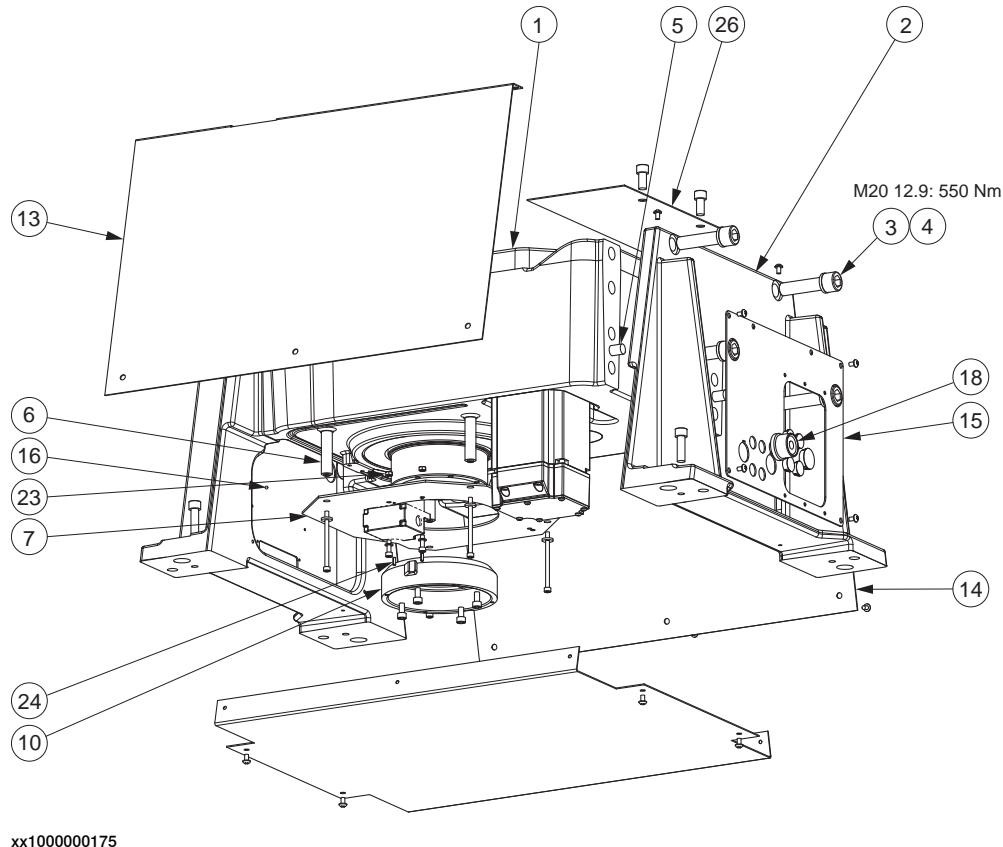
Note

These components are valid for all serial numbers of the IRBP.

| Item | Component | Description | Qty | Material, type, etc | Dimension |
|------|------------|--------------------------|-----|---------------------|-----------|
| 2 | 503827001 | Distance | 4 | | |
| 3 | 503940001 | Limit Switch plate MIC 1 | 1 | | |
| 6 | 503938001 | Limit switch disc MIC 1 | 1 | | |
| 8 | 503865880 | Cable drum MIC x.2 | 1 | | |
| 13 | 9ABA142-31 | Spring pin, slotted | 2 | Steel | 4x12 |

2.7 MID 2.1

Rotary unit MID 2.1



Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|-----------------------------|-----|----------------------|-----------|
| 1 | 3HAC035406-007 | Gearbox MID 2.1, incl motor | 1 | Graphite White | |
| 1 | 3HAC035406-011 | Gearbox MID 2.1, incl motor | 1 | ABB Orange | |

Components valid up to these serial numbers:

SEROP: - POF-110000

Continues on next page

2 Rotary units and supports

2.7 MID 2.1

Continued

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|-----------------------------|-----|----------------------|-----------|
| 1 | 3HAC035406-005 | Gearbox MID 2.1, incl motor | 1 | ABB Orange | |

Components valid for all serial numbers



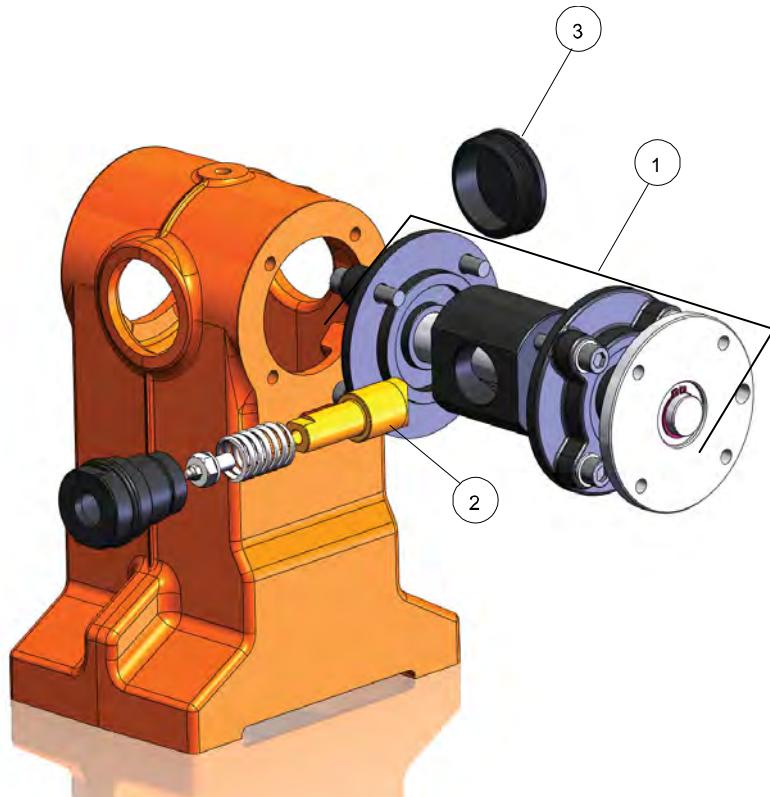
Note

These components are valid for all serial numbers of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|-----------------------------|-----|---------------------------|-----------|
| 2 | 3HAC032646-001 | Frame MID 2.1 | 2 | | |
| 3 | 3HAB3409-217 | Hex socket head cap screw | 8 | Steel 12.9 Gle 603+Geo500 | M20x80 |
| 4 | 3HAC035525-001 | Washer | 8 | | 21x31 T=4 |
| 5 | 3HEA418698-007 | Guide pin | 4 | | Ø16x40 |
| 6 | 503827001 | Distance | 4 | | |
| 7 | 503941001 | Limit switch plate MIC 2 | 1 | MIC 2 | M6x90 |
| 10 | 503939001 | Limit switch disc MIC 2 | 1 | MIC 2 | |
| 13 | 3HAC035506-001 | Side cover MID 2.1 | 1 | | |
| 14 | 3HAC035507-001 | Side cover MID 2.1 | 1 | | |
| 15 | 3HAC035511-001 | Connection plate MID 2.1 | 1 | | |
| 16 | 3HAC035512-001 | Connection plate MID 2.1 | 1 | | |
| 18 | 160362881 | Welding current term OKC 50 | 1 | OKC50 | |
| 24 | 9ABA142-31 | Spring pin, slotted | 2 | Steel | 4x12 |
| 26 | 3HAC036531-001 | Cover plate | 1 | | T=1.5 |

2.8 Support collar

Support collar illustration



xx1000000295

Support collar 250

| Item | Component | Description | Qty | Material, type, etc | Dimension |
|------|----------------|-------------------------|-----|---------------------|-----------|
| 1 | 504212880 | SUPPORT BEARING MTC 250 | 1 | | |
| 2 | 3HAC037002-001 | Contact bar 250 | 1 | | |
| 3 | 3HAC035520-001 | Plug | 1 | | |

Support collar 500/750

| Item | Component | Description | Qty | Material, type, etc | Dimension |
|------|----------------|-------------------------|-----|---------------------|-----------|
| 1 | 504215880 | SUPPORT BEARING MTC 750 | 1 | | |
| 2 | 3HAC037005-001 | Contact bar 500/750 | 1 | | |
| 3 | 3HAC035520-001 | Plug | 1 | | |

Support collar 2000

| Item | Component | Description | Qty | Material, type, etc | Dimension |
|------|----------------|--------------------------|-----|---------------------|-----------|
| 1 | 504581880 | SUPPORT BEARING MTC 2000 | 1 | | |
| 2 | 3HAC037007-001 | Contact bar 2000 | 1 | | |

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2 Rotary units and supports

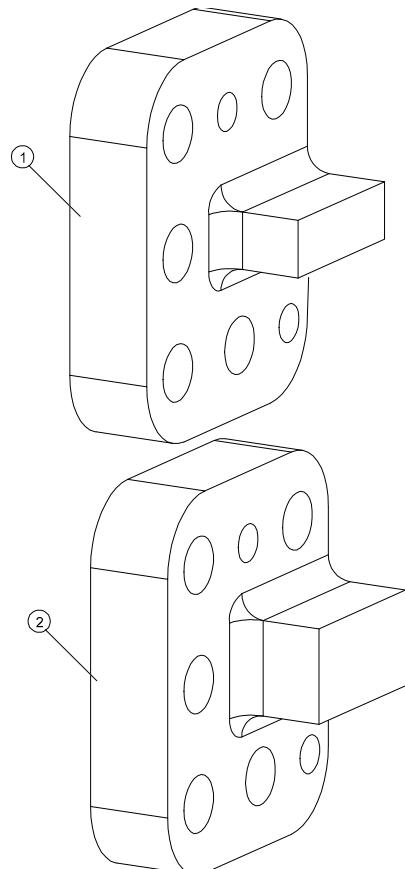
2.8 Support collar

Continued

| Item | Component | Description | Qty | Material, type, etc | Dimension |
|-------------|------------------|--------------------|------------|----------------------------|------------------|
| 3 | 3HAC035520-001 | Plug | 1 | | |

2.9 Stop lug

Stop lug



xx1000000297

| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|------------|-------------|-----|----------------------|-----------|
| 1 | 505387-001 | Stop lug | 1 | MID 1 | |
| 2 | 505388-001 | Stop lug | 1 | MID 2 | |

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3 Motor units

3.1 Motor units for MTD 250

Motor units for MTD 250

Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Note |
|------|----------------|------------------------|-----|----------------------|----------|
| 1 | 3HAC038187-003 | Motor unit for MTD 250 | 1 | Graphite White | Complete |
| 1 | 3HAC038187-004 | Motor unit for MTD 250 | 1 | ABB Orange | Complete |

Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Note |
|------|----------------|----------------------------|-----|----------------------|----------|
| 1 | 3HAC038187-002 | Motor unit for MTD 250 | 1 | ABB Orange | Complete |
| | 3HAC034216-001 | Rot. AC motor incl. pinion | 1 | | |

Seal and isolation kit



Note

These components are valid for all serial numbers of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|------------------------|------|------|
| 3HAC038213-002 | Seal and isolation kit | 1 | |

The seal and isolation kit contains:

| Pos | Description | Qty. | Note |
|-----|---------------------|------|-----------------------|
| 11 | O-ring | 1 | Nitrile Rubber, D80x3 |
| 12 | Insulating material | 1 | |
| 13 | Insulating tube | 4 | |
| 14 | Insulating material | 4 | |

Continues on next page

3 Motor units

3.1 Motor units for MTD 250

Continued

| Pos | Description | Qty. | Note |
|-----|---------------------------|------|----------------------------------|
| 15 | Plain washer | 4 | Steel-A2F, 8.4x16x1.6 |
| 16 | Hex socket head cap screw | 4 | Steel 12.9 Gle 603+Geo500 /M8x25 |

Spare part kit connection box, complete - Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|---|------|----------------|
| 3HAC038188-003 | Spare part kit connection box, complete | 1 | Graphite White |
| 3HAC038188-004 | Spare part kit connection box, complete | 1 | ABB Orange |

Spare part kit connection box, complete - Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



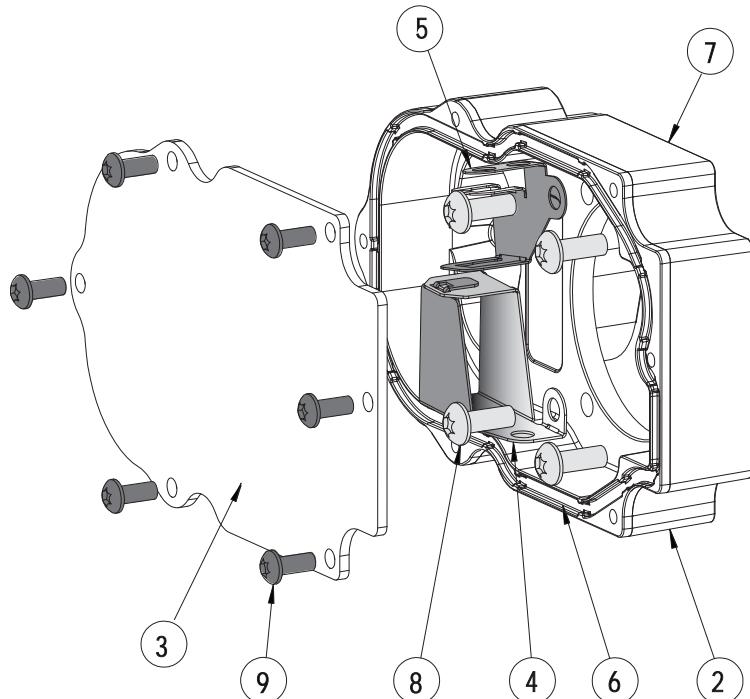
Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|---|------|------------|
| 3HAC038188-002 | Spare part kit connection box, complete | 1 | ABB Orange |

Continues on next page

Spare part kit connection box, complete - Valid for all serial numbers of the IRBP:



xx1400002555

The spare part kit connection box complete contains:

| Pos | Description | Qty. | Note |
|-----|-----------------------------------|------|---|
| 2 | Connection box | 1 | |
| 3 | Cover | 1 | |
| 4 | Connector bracket MP | 1 | |
| 5 | Connector bracket 9p Dsub | 1 | |
| 6 | O-ring | 1 | Nitrile rubber, 150.0x2.0 |
| 7 | O-ring | 1 | Nitrile rubber, D1=100 D2=2 |
| 8 | Torx pan head screw | 4 | Steel 8.8-A2F / M6x16 |
| 9 | Torx pan head screw | 6 | Steel 8.8-A2F / M5x12 |
| | Surface treatment, Graphite White | | Color depends on which spare part kit is ordered. |
| | Surface treatment, ABB Orange | | Color depends on which spare part kit is ordered. |

3 Motor units

3.2 Motor unit for MTD 500-750

3.2 Motor unit for MTD 500-750

Motor units for MTD 500-750

Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Note |
|------|----------------|----------------------------|-----|----------------------|----------|
| 1 | 3HAC038210-010 | Motor unit for MTD 500-750 | 1 | Graphite White | Complete |
| 1 | 3HAC038210-014 | Motor unit for MTD 500-750 | 1 | ABB Orange | Complete |

Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Note |
|------|----------------|----------------------------|-----|----------------------|----------|
| 1 | 3HAC038210-002 | Motor unit for MTD 500-750 | 1 | ABB Orange | Complete |
| | 3HAC034222-001 | Rot. AC motor incl. pinion | 1 | | |

Seal and isolation kit



Note

These components are valid for all serial numbers of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|------------------------|------|------|
| 3HAC032214-002 | Seal and isolation kit | 1 | |

The seal and isolation kit contains:

| Pos | Description | Qty. | Note |
|-----|---------------------------|------|-----------------------------------|
| 11 | O-ring | 2 | Nitrile Rubber D102x3 |
| 12 | Insulating material | 4 | |
| 13 | Insulating tube | 7 | |
| 14 | Insulating material | 4 | |
| 15 | Washer | 4 | |
| 16 | Hex socket head cap screw | 4 | Steel 12.9 Gle. 603+Geo500 /M8x30 |

Continues on next page

Spare part kit connection box, complete - Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|---|------|----------------|
| 3HAC038209-003 | Spare part kit connection box, complete | 1 | Graphite White |
| 3HAC038209-005 | Spare part kit connection box, complete | 1 | ABB Orange |

Spare part kit connection box, complete - Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|---|------|------------|
| 3HAC038209-002 | Spare part kit connection box, complete | 1 | ABB Orange |

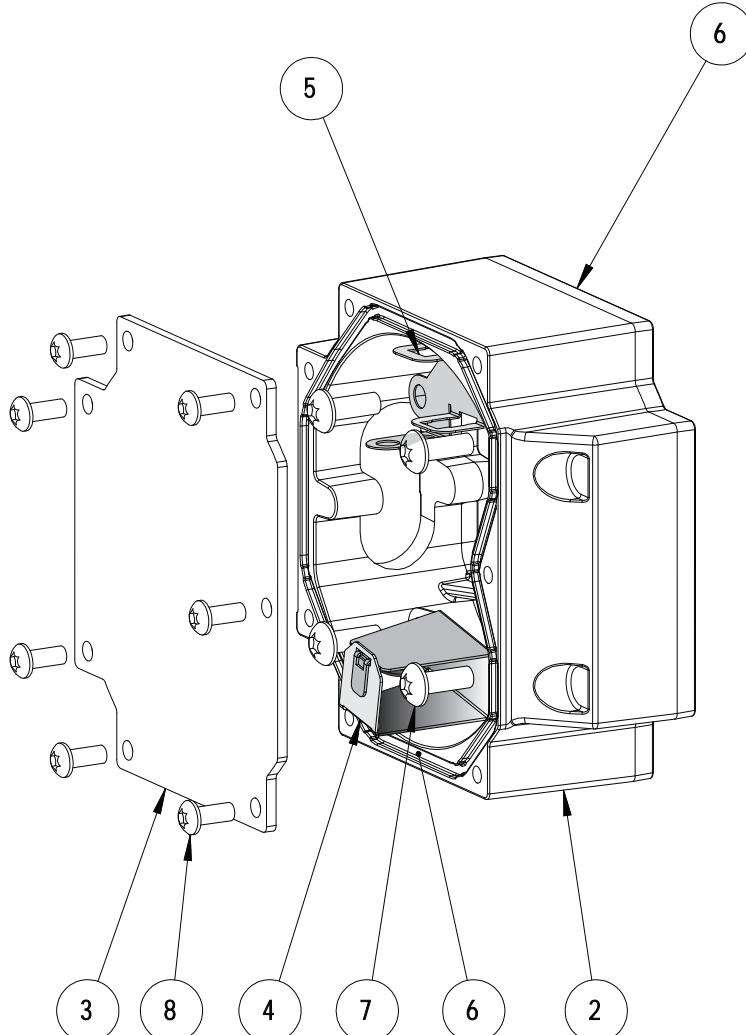
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3 Motor units

3.2 Motor unit for MTD 500-750

Continued

Spare part kit connection box, complete - Valid for all serial numbers of the IRBP:



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The spare part kit connection box complete contains:

| Pos | Description | Qty. | Note |
|-----|-----------------------------------|-------|---|
| 2 | Connection box FS130 | 1 | |
| 3 | Cover box FS130 | 1 | |
| 4 | Connector bracket MP | 1 | |
| 5 | Connector bracket 9p Dsub | 1 | |
| 6 | O-ring | 2 | Nitrile Rubber D119x3 |
| 7 | Torx pan head screw | 7 | Steel 8.8-A2F M6x16 |
| 8 | Torx pan head screw | 4 | Steel 8.8-A2F M5x12 |
| - | Surface treatment, Graphite White | 50 ml | Color depends on which spare part kit is ordered. |
| - | Surface treatment, ABB Orange | 50 ml | Color depends on which spare part kit is ordered. |

3.3 Motor units for MTD 2000

Motor units for MTD 2000

Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Note |
|------|----------------|-------------------------|-----|----------------------|----------|
| 1 | 3HAC038210-009 | Motor unit for MTD 2000 | 1 | Graphite White | Complete |
| 1 | 3HAC038210-013 | Motor unit for MTD 2000 | 1 | ABB Orange | Complete |

Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Note |
|------|----------------|----------------------------|-----|----------------------|----------|
| 1 | 3HAC038210-003 | Motor unit for MTD 2000 | 1 | ABB Orange | Complete |
| | 3HAC034231-001 | Rot. AC motor incl. pinion | 1 | | |

Seal and isolation kit



Note

These components are valid for all serial numbers of the IRBP.

| Spare part number | Qty. | Description | Note |
|-------------------|------|------------------------|------|
| 3HAC032214-002 | 1 | Seal and isolation kit | |

The seal and isolation kit contains:



Note

These components are valid for all serial numbers of the IRBP.

| Pos | Description | Qty. | Note |
|-----|---------------------|------|-----------------------|
| 11 | O-ring | 1 | Nitrile Rubber D102x3 |
| 12 | Insulating material | 1 | |
| 13 | Insulating tube | 4 | |

Continues on next page

3 Motor units

3.3 Motor units for MTD 2000

Continued

| Pos | Description | Qty. | Note |
|-----|---------------------------|------|-----------------------------------|
| 14 | Insulating material | 4 | |
| 15 | Washer | 4 | |
| 16 | Hex socket head cap screw | 4 | Steel 12.9 Gle. 603+Geo500 /M8x30 |

Spare part kit connection box, complete - Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|---|------|----------------|
| 3HAC038209-003 | Spare part kit connection box, complete | 1 | Graphite White |
| 3HAC038209-005 | Spare part kit connection box, complete | 1 | ABB Orange |

Spare part kit connection box, complete - Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

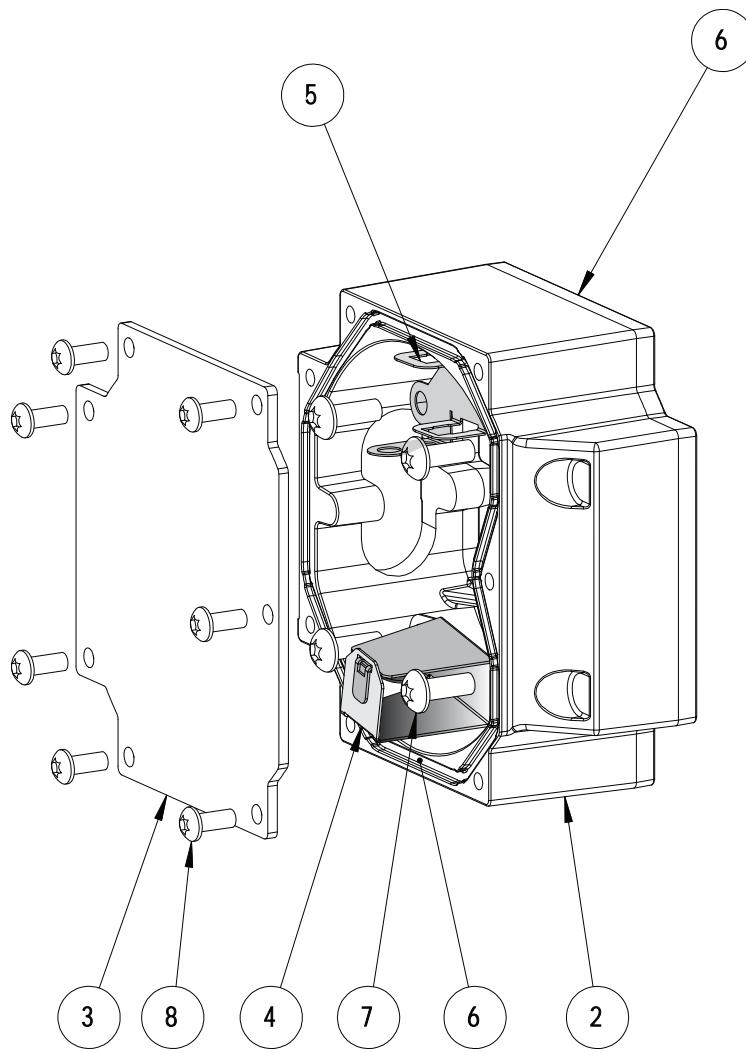
Before ordering these components, make sure that they match the serial number of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|---|------|------------|
| 3HAC038209-002 | Spare part kit connection box, complete | 1 | ABB Orange |

Continues on next page

Spare part kit connection box complete - Valid for all serial numbers of the IRBP:

The spare part kit connection box complete, contains:



xx1400002556

| Pos | Description | Qty. | Note |
|-----|----------------------------------|------|--|
| 1 | Connection box FS130 | 1 | |
| 2 | Cover box FS130 | 1 | |
| 3 | Connector bracket MP | 1 | |
| 4 | Connector bracket 9p Dsub | 1 | |
| 5 | O-ring | 2 | Nitrile Rubber D119x3 |
| 6 | Torx pan head screw | 4 | Steel 8.8-A2F M6x16 |
| 7 | Torx pan head screw | 4 | Steel 8.8-A2F M5x12 |
| 8 | Surface treatment ABB Orange | | Color delivered, depends on which connection box is ordered. |
| 8 | Surface treatment Graphite White | | Color delivered, depends on which connection box is ordered. |

3 Motor units

3.4 Motor units for MTD 5000

3.4 Motor units for MTD 5000

Motor units for MTD 5000

Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Note |
|------|----------------|-------------------------|-----|----------------------|----------|
| 1 | 3HAC038212-003 | Motor unit for MTD 5000 | 1 | Graphite White | Complete |
| 1 | 3HAC038212-004 | Motor unit for MTD 5000 | 1 | ABB Orange | Complete |

Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Note |
|------|----------------|-----------------------------------|-----|----------------------|----------|
| 1 | 3HAC038212-002 | Motor unit for MTD 5000 | 1 | ABB Orange | Complete |
| | 3HAC035443-001 | Rot. AC motor incl. shaft adapter | 1 | | |

Seal and isolation kit

| Spare part number | Description | Qty. | Note |
|-------------------|------------------------|------|------|
| 3HAC038215-002 | Seal and isolation kit | 1 | |

The seal and isolation kit contains:



Note

These components are valid for all serial numbers of the IRBP.

| Pos | Description | Qty. | Note |
|-----|---------------------------|------|--------------------------|
| 13 | Insulating tube | 4 | |
| 14 | Insulating material | 4 | |
| 15 | Washer | 4 | |
| 16 | Hex socket head cap screw | 4 | Steel 12.9 Gle603+Geo500 |

Spare part kit connection box, complete - Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

Continues on next page

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|---|------|----------------|
| 3HAC038209-003 | Spare part kit connection box, complete | 1 | Graphite White |
| 3HAC038209-005 | Spare part kit connection box, complete | 1 | ABB Orange |

Spare part kit connection box, complete - Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|---|------|------------|
| 3HAC038209-002 | Spare part kit connection box, complete | 1 | ABB Orange |

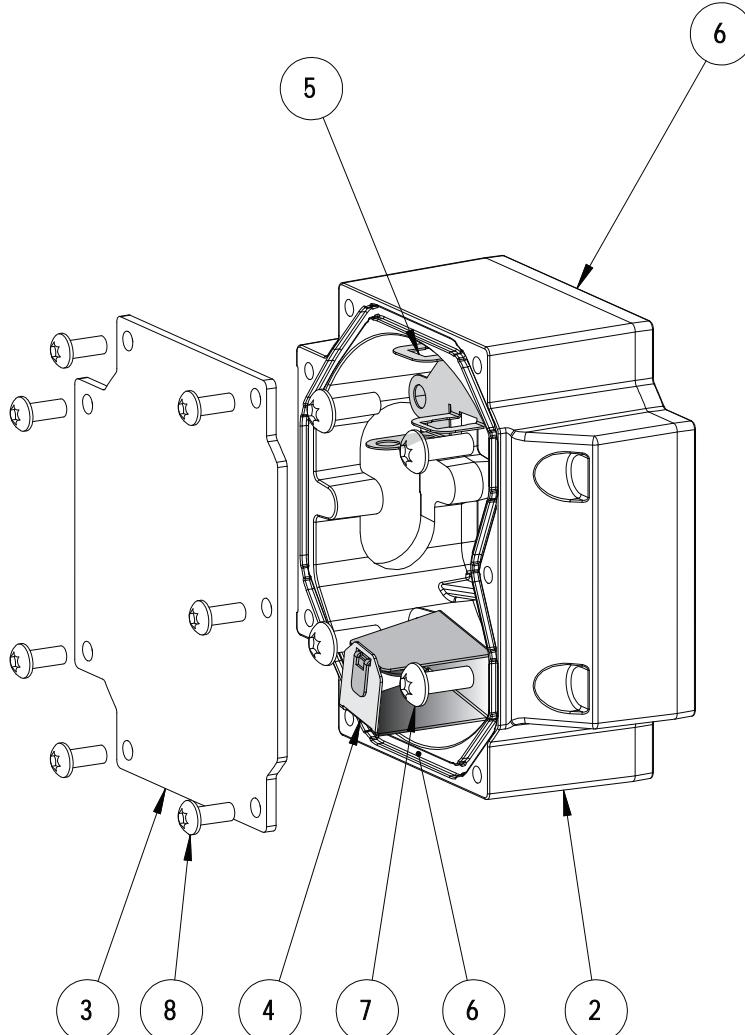
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3 Motor units

3.4 Motor units for MTD 5000

Continued

Spare part kit connection box, complete - Valid for all serial numbers of the IRBP:



xx1400002556

The spare part kit connection box complete contains:

| Pos | Description | Qty. | Note |
|-----|-----------------------------------|-------|---|
| 2 | Connection box FS130 | 1 | |
| 3 | Cover box FS130 | 1 | |
| 4 | Connector bracket MP | 1 | |
| 5 | Connector bracket 9p Dsub | 1 | |
| 6 | O-ring | 2 | Nitrile Rubber D119x3 |
| 7 | Torx pan head screw | 7 | Steel 8.8-A2F M6x16 |
| 8 | Torx pan head screw | 4 | Steel 8.8-A2F M5x12 |
| - | Surface treatment, Graphite White | 50 ml | Color depends on which spare part kit is ordered. |
| - | Surface treatment, ABB Orange | 50 ml | Color depends on which spare part kit is ordered. |

3.5 Motor unit for MID 1.2

Motor units for MID 1.2

Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Note |
|------|----------------|------------------------|-----|----------------------|----------|
| 1 | 3HAC038210-007 | Motor unit for MID 1.2 | 1 | Graphite White | Complete |
| 1 | 3HAC038210-011 | Motor unit for MID 1.2 | 1 | ABB Orange | Complete |

Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Note |
|------|----------------|----------------------------|-----|----------------------|----------|
| 1 | 3HAC038210-004 | Motor unit for MID 1.2 | 1 | ABB Orange | Complete |
| | 3HAC034280-001 | Rot. AC motor incl. pinion | 1 | | |

Seal and isolation kit 3HAC038214-002



Note

These components are valid for all serial numbers of the IRBP.

| Pos | Spare parts | Qty. | Description | Note |
|-----|----------------|------|---------------------------|-----------------------------------|
| 11 | 3HAB3772-107 | 2 | O-ring | Nitrile Rubber D102x3 |
| 12 | 3HAC034268-001 | 4 | Insulating material | |
| 13 | 3HAC036835-002 | 7 | Insulating tube | |
| 14 | 3HAC037222-001 | 4 | Insulating material | |
| 15 | 3HAC037202-001 | 4 | Washer | |
| 16 | 3HAB3409-38 | 4 | Hex socket head cap screw | Steel 12.9 Gle. 603+Geo500 /M8x30 |

Spare part kit connection box, complete - Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

Continues on next page

3 Motor units

3.5 Motor unit for MID 1.2

Continued

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|---|------|----------------|
| 3HAC038209-003 | Spare part kit connection box, complete | 1 | Graphite White |
| 3HAC038209-005 | Spare part kit connection box, complete | 1 | ABB Orange |

Spare part kit connection box, complete - Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



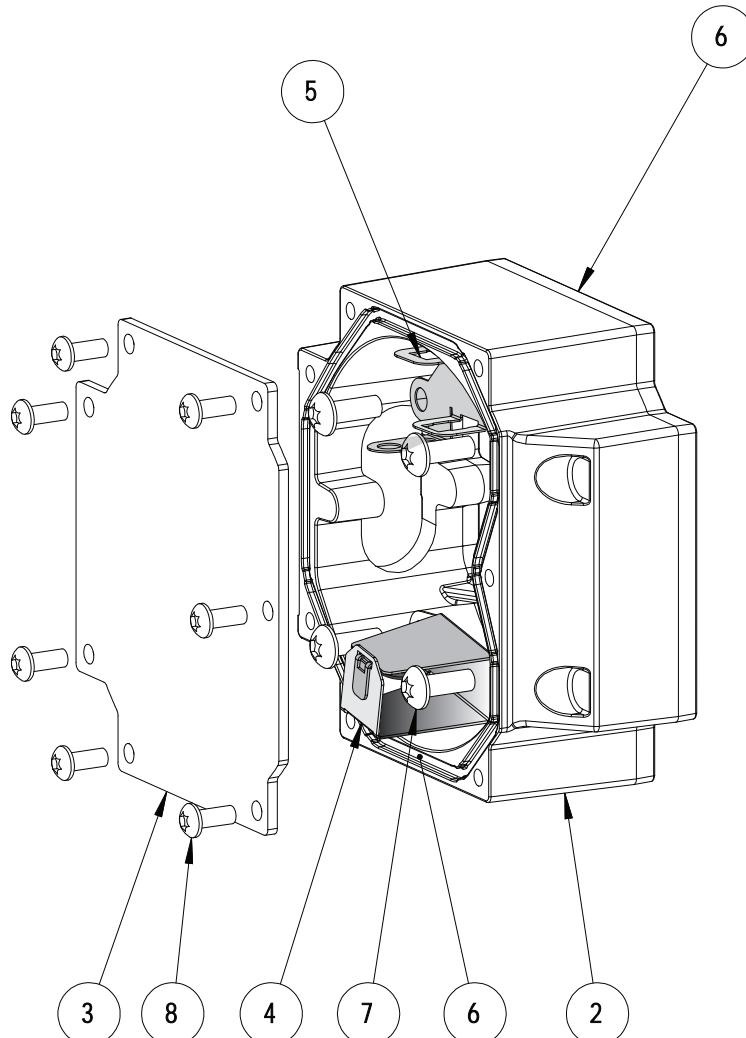
Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|---|------|------------|
| 3HAC038209-002 | Spare part kit connection box, complete | 1 | ABB Orange |

Continues on next page

Spare part kit connection boxes - Valid for all serial numbers of the IRBP:



xx1400002556

The spare part kit connection box complete, contains:

| Pos | Qty. | Description | Note |
|-----|------|-----------------------------------|---|
| 2 | 1 | Connection box FS130 | |
| 3 | 1 | Cover box FS130 | |
| 4 | 1 | Connector bracket MP | |
| 5 | 1 | Connector bracket 9p Dsub | |
| 6 | 2 | O-ring | Nitrile Rubber D119x3 |
| 7 | 7 | Torx pan head screw | Steel 8.8-A2F M6x16 |
| 8 | 4 | Torx pan head screw | Steel 8.8-A2F M5x12 |
| | | Surface treatment, Graphite White | Color depends on which spare part kit is ordered. |
| | | Surface treatment, ABB Orange | Color depends on which spare part kit is ordered. |

3 Motor units

3.6 Motor unit for MID 2.1-2.2

3.6 Motor unit for MID 2.1-2.2

Motor units for MID 2.1 - 2.2

Components valid from these serial numbers, onwards:

SEROP: POF-110001 -

CNAUS: POF-510001 -



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Note |
|------|----------------|----------------------------|-----|----------------------|----------|
| 1 | 3HAC038210-008 | Motor unit for MID 2.1-2-2 | 1 | Graphite White | Complete |
| 1 | 3HAC038210-012 | Motor unit for MID 2.1-2-2 | 1 | ABB Orange | Complete |

Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Item | Component | Description | Qty | Material, type, etc. | Note |
|------|----------------|----------------------------|-----|----------------------|----------|
| 1 | 3HAC038210-005 | Motor unit for MID 1.2 | 1 | ABB Orange | Complete |
| | 3HAC034274-001 | Rot. AC motor incl. pinion | 1 | | |

Seal and isolation kit 3HAC038214-002

| Spare parts | Qty. | Description | Note |
|----------------|------|-------------|-----------------------|
| 3HAC038214-002 | 1 | O-ring | Nitrile Rubber D102x3 |

The seal and isolation kit contains:



Note

These components are valid for all serial numbers of the IRBP.

| Pos | Qty. | Description | Note |
|-----|------|---------------------------|-----------------------------------|
| 11 | 2 | O-ring | Nitrile Rubber D102x3 |
| 12 | 4 | Insulating material | |
| 13 | 7 | Insulating tube | |
| 14 | 4 | Insulating material | |
| 15 | 4 | Washer | |
| 16 | 4 | Hex socket head cap screw | Steel 12.9 Gle. 603+Geo500 /M8x30 |

Continues on next page

Spare part kit connection box, complete - Components valid from these serial numbers, onwards:

SEROP: - POF-110001

CNAUS: - POF-510001



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|---|------|----------------|
| 3HAC038209-003 | Spare part kit connection box, complete | 1 | Graphite White |
| 3HAC038209-005 | Spare part kit connection box, complete | 1 | ABB Orange |

Spare part kit connection box, complete - Components valid up to these serial numbers:

SEROP: - POF-110000

CNAUS: - POF-510000



Note

Before ordering these components, make sure that they match the serial number of the IRBP.

| Spare part number | Description | Qty. | Note |
|-------------------|---|------|------------|
| 3HAC038209-002 | Spare part kit connection box, complete | 1 | ABB Orange |

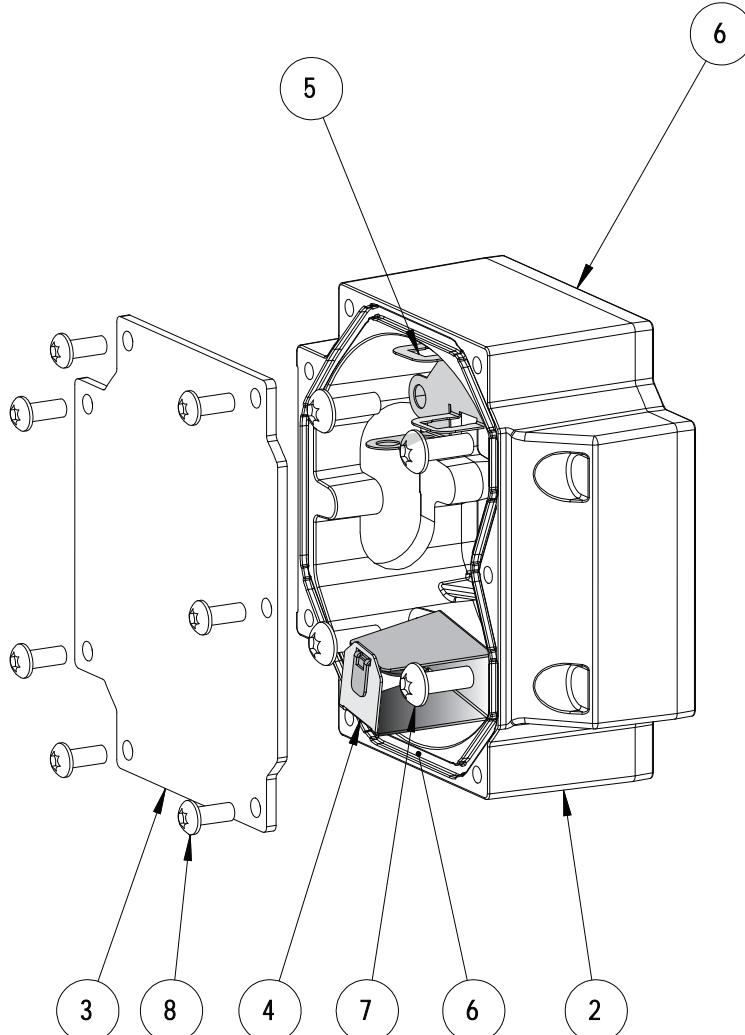
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3 Motor units

3.6 Motor unit for MID 2.1-2.2

Continued

Spare part kit connection boxcomplete - Valid for all serial numbers of the IRBP:



xx1400002556

The spare part kit connection box complete, contains:

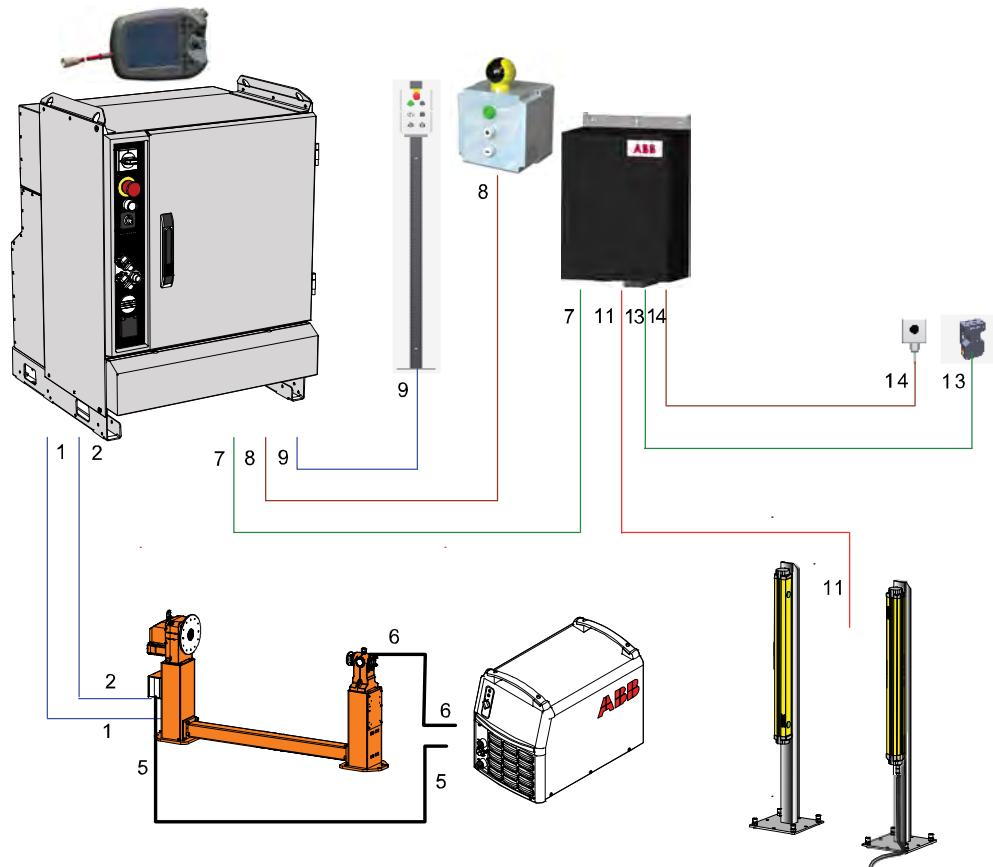
| Pos | Qty. | Description | Note |
|-----|------|-----------------------------------|---|
| 2 | 1 | Connection box FS130 | |
| 3 | 1 | Cover box FS130 | |
| 4 | 1 | Connector bracket MP | |
| 5 | 1 | Connector bracket 9p Dsub | |
| 6 | 2 | O-ring | Nitrile Rubber D119x3 |
| 7 | 7 | Torx pan head screw | Steel 8.8-A2F M6x16 |
| 8 | 4 | Torx pan head screw | Steel 8.8-A2F M5x12 |
| | | Surface treatment, Graphite White | Color depends on which spare part kit is ordered. |
| | | Surface treatment, ABB Orange | Color depends on which spare part kit is ordered. |

4 Electrical spare parts

4.1 External connectors

4.1.1 Spare parts, cables

Spare parts, floor cables



xx1000000245

| Pos | Spare part | Description | Length |
|-----|----------------|---|--------|
| 1 | 3HAC035347-001 | Cable signal IRBP | 7 |
| | 3HAC035347-002 | Cable signal IRBP | 10 |
| | 3HAC035347-003 | Cable signal IRBP | 15 |
| 2 | 3HAC035346-001 | Cable motor IRBP | 7 |
| | 3HAC035346-002 | Cable motor IRBP | 10 |
| | 3HAC035346-003 | Cable motor IRBP | 15 |
| 5 | 418620884 | Return Cable 95mm ² , 2x OKC | 7 |
| | 418620885 | Return Cable 95mm ² , 2x OKC | 10 |
| | 418620887 | Return Cable 95mm ² , 2x OKC | 15 |
| 6 | 504540880 | Return Cable 95mm ² , 1x OKC | 7 |

Continues on next page

4 Electrical spare parts

4.1.1 Spare parts, cables

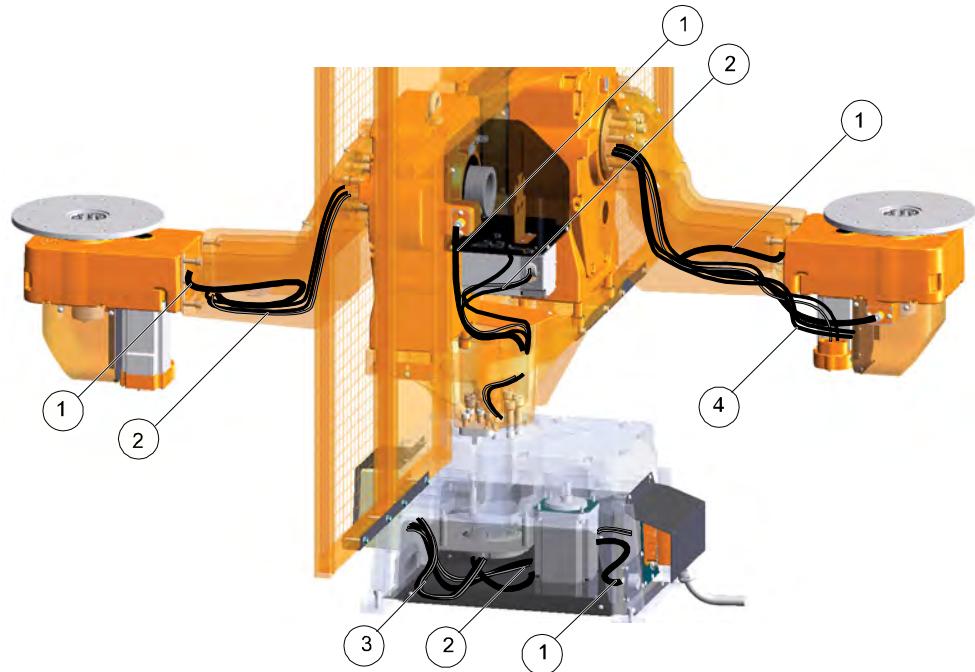
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| Pos | Spare part | Description | Length |
|-----|----------------|---|--------|
| | 504540881 | Return Cable 95mm ² , 1x OKC | 10 |
| | 504540882 | Return Cable 95mm ² , 1x OKC | 15 |
| 7 | 3HEA802203-004 | CAN bus | 2.5 |
| 8 | 3HEA802217-003 | Cable control panel manual jog | 15 |
| 9 | | Cable operator panel | 15 |
| 11 | 3HAC030122-001 | Cable Light Beam | 15 |
| 13 | 3HEA800782-001 | Cable gate switch | 15 |
| 14 | 3HEA800781-001 | Cable PB Complete | 7 |
| | 3HEA800781-002 | Cable PB Complete | 10 |
| | 3HEA800781-003 | Cable PB Complete | 15 |

4.2 Internal connectors

4.2.1 Spare parts, connectors in manipulator

Connectors in manipulator



xx1000000281

| | |
|---|---|
| 1 | Current collector cable |
| 2 | <i>Cable harness MTD on page 70</i> |
| 3 | <i>Cable limit switch on page 71</i> |
| 4 | <i>Cable slipring (option) on page 72</i> |

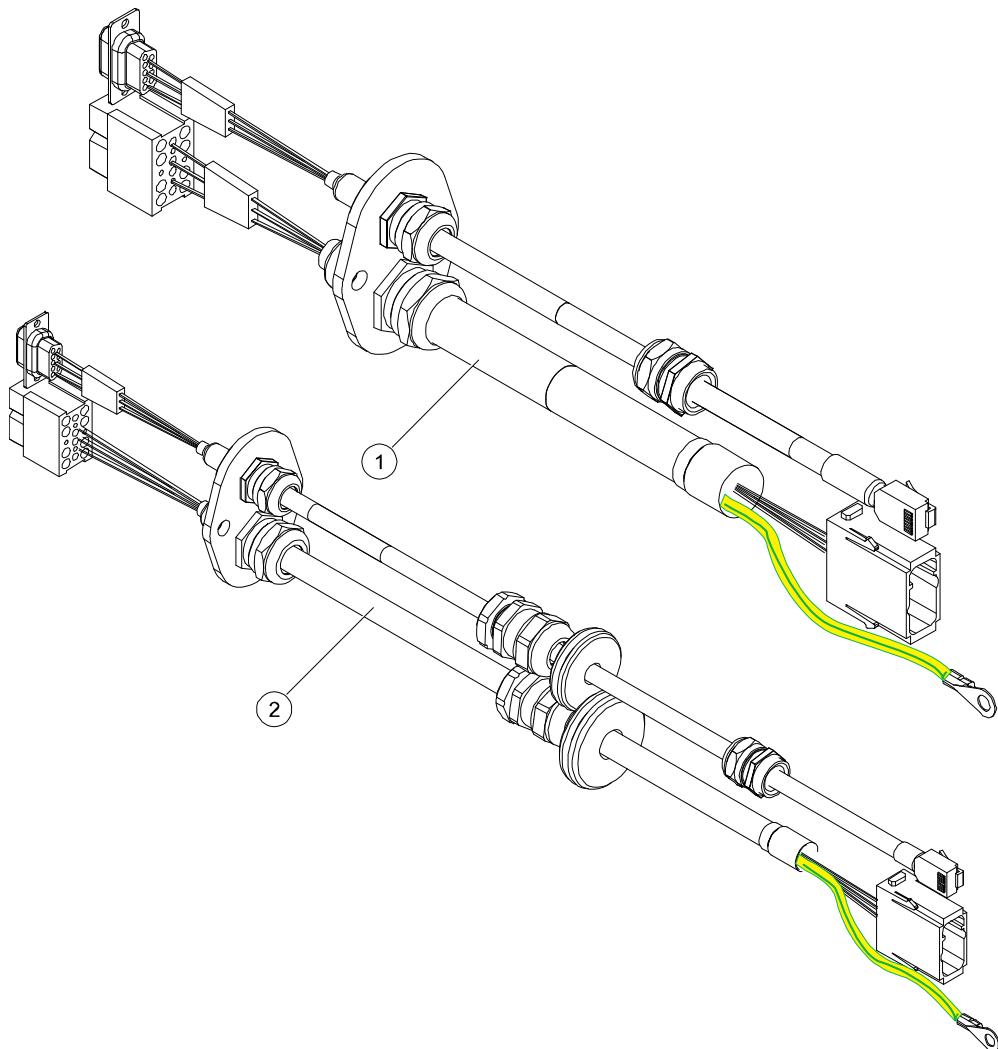
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4 Electrical spare parts

4.2.1 Spare parts, connectors in manipulator

Continued

Cable harness MTD

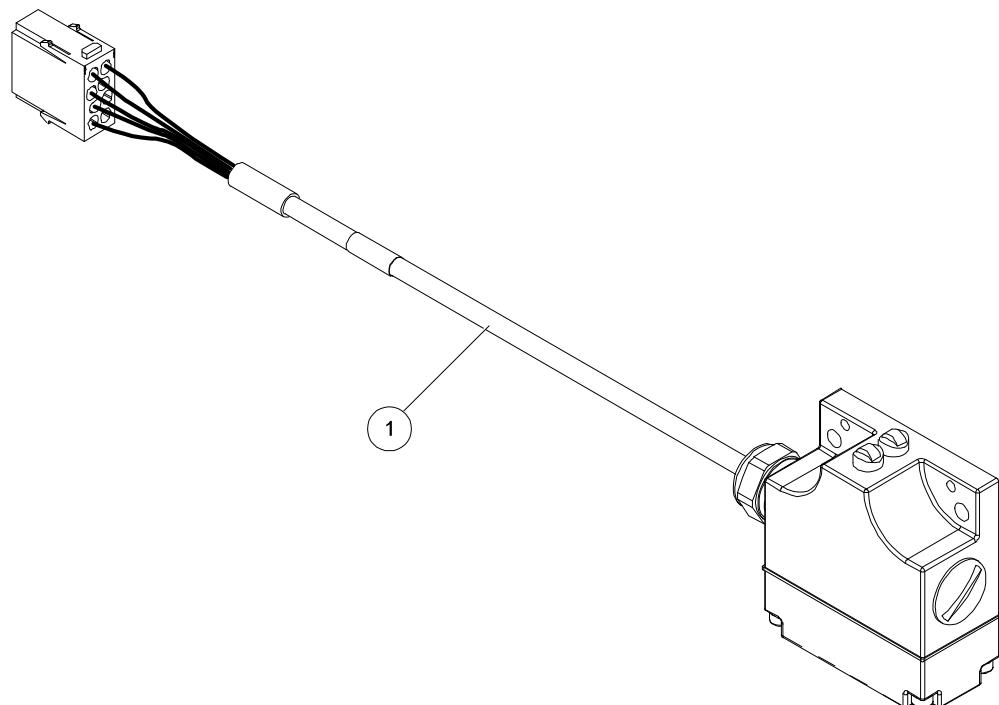


xx1000000279

| Pos. | Spare part | Description | Note |
|------|----------------|-----------------------------|--------------|
| 1 | 3HAC035219-001 | Cable harness MTD, Complete | Lenght=0.8 m |
| 1 | 3HAC035219-002 | Cable harness MTD, Complete | Lenght=1.1 m |
| 1 | 3HAC035219-003 | Cable harness MTD, Complete | Lenght=2.2 m |
| 1 | 3HAC035219-004 | Cable harness MTD, Complete | Lenght=3.7 m |
| 2 | 3HAC035399-001 | Cable set int.IRBP | Lenght=3.1 m |
| 2 | 3HAC035399-002 | Cable set int.IRBP | Lenght=4.3 m |
| 2 | 3HAC035399-003 | Cable set int.IRBP | Lenght=5.3 m |

Continues on next page

Cable limit switch



xx1000000278

| Pos. | Spare part | Description | Note |
|------|----------------|-----------------------------|---------|
| 1 | 3HAC035494-001 | Cable Limit Switch Complete | L=1.0 m |

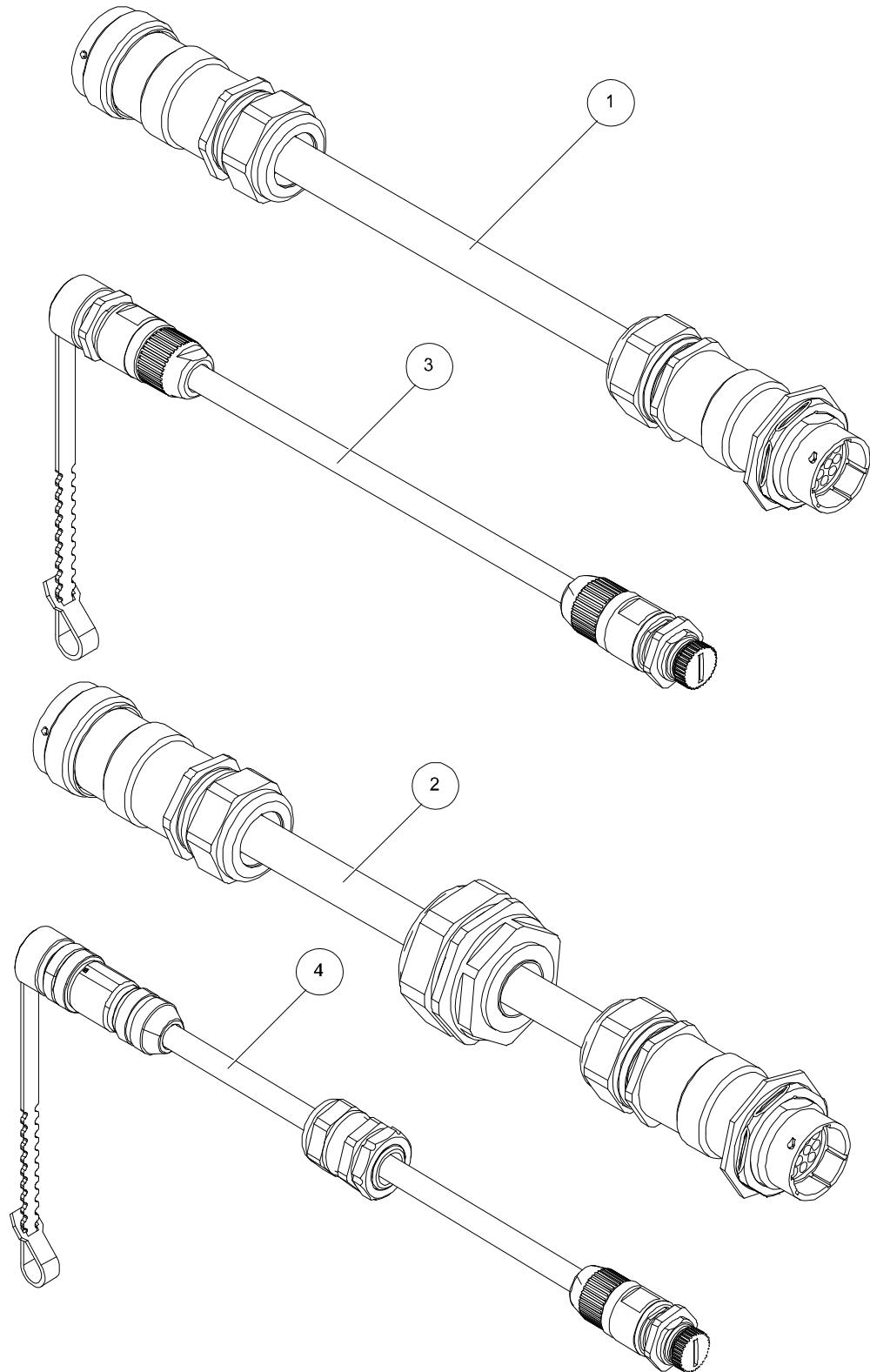
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4 Electrical spare parts

4.2.1 Spare parts, connectors in manipulator

Continued

Cable slipring (option)



xx1000000290

| Pos. | Spare part | Description | Note |
|------|----------------|--------------------------|--------|
| 1 | 3HAC035339-001 | Cable slipring WCP1/WCP2 | L=0.8m |

Continues on next page

4 Electrical spare parts

4.2.1 Spare parts, connectors in manipulator

Continued

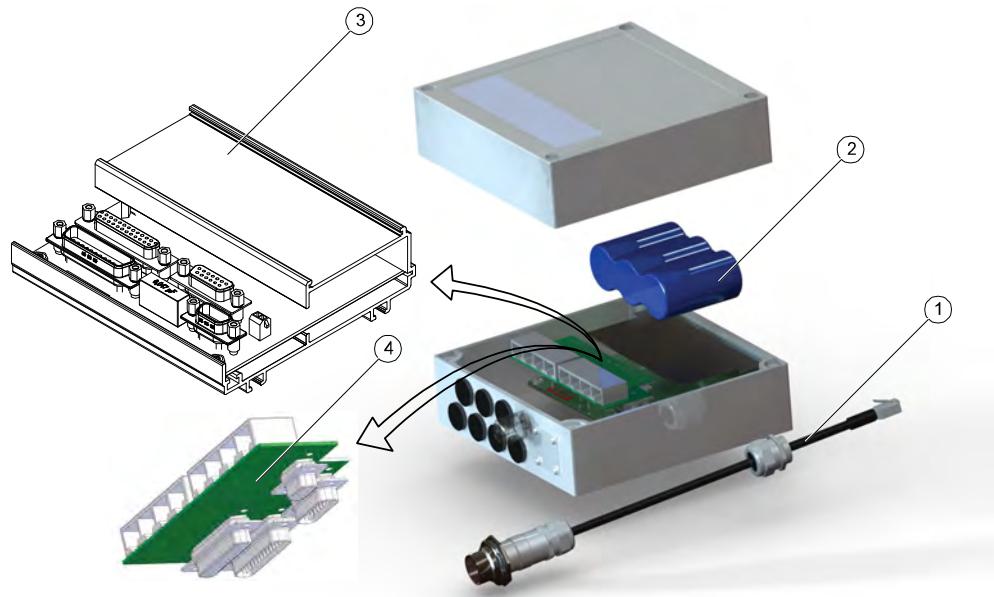
| Pos. | Spare part | Description | Note |
|------|----------------|--------------------------|--------|
| 1 | 3HAC035339-002 | Cable slipring WCP1/WCP2 | L=2.6m |
| 1 | 3HAC035339-003 | Cable slipring WCP1/WCP2 | L=3.2m |
| 1 | 3HAC035339-004 | Cable slipring WCP1/WCP2 | L=3.7m |
| 2 | 3HAC035708-001 | Cable WCP3/WCP4 | L=2m |
| 2 | 3HAC035708-002 | Cable WCP3/WCP4 | L=3.7m |
| 3 | 3HAC035370-001 | Cable WCS1/WCS2 | L=0.8m |
| 3 | 3HAC035370-002 | Cable WCS1/WCS2 | L=2.6m |
| 3 | 3HAC035370-003 | Cable WCS1/WCS2 | L=3.2m |
| 3 | 3HAC035370-004 | Cable WCS1/WCS2 | L=3.7m |
| 4 | 3HAC035881-001 | Cable slipring WCS3/WCS4 | L=2m |
| 4 | 3HAC035881-002 | Cable slipring WCS3/WCS4 | L=3.7m |
| | 3HAC035432-001 | Connector set CP/CS | |

4 Electrical spare parts

4.2.2 Spare part, SMB box

4.2.2 Spare part, SMB box

Spare part list



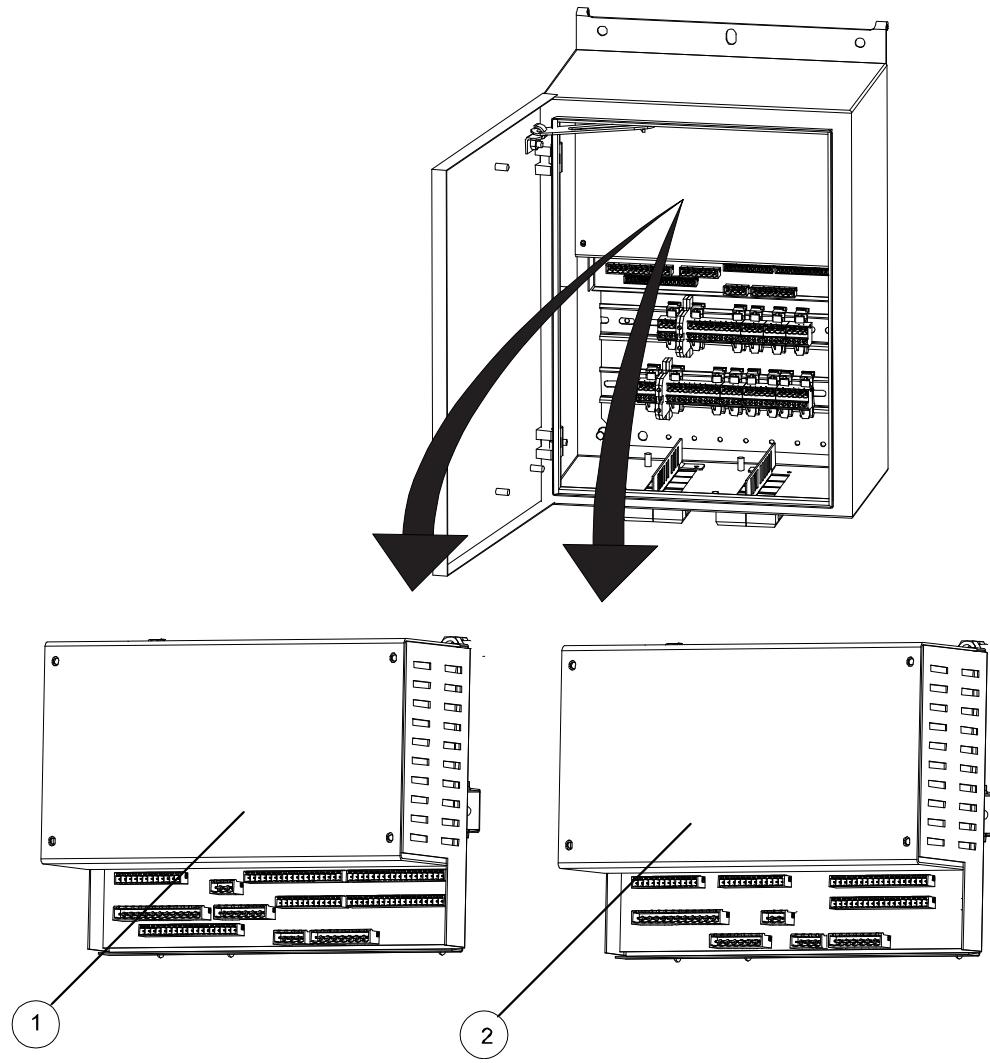
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| Pos. | Sparepart | Description | Note |
|------|----------------|--------------------------|------|
| 1 | 3HAC035397-001 | Cable SMB Internal, IRBP | |
| 2 | 3HAC16831-1 | Battery unit | |
| 3 | 3HAC031851-001 | SMB unit DSQC633A | |
| 4 | 3HEA800906-001 | Node splitter | |

4.3 Electrical options

4.3.1 SIB V , spare parts

SIB V types



xx1000000291

| Pos | Spare parts | Description | Note |
|-----|---------------|--------------|------|
| 1 | 3HEA504996880 | SIB V.Type 3 | |
| 2 | 3HEA504994880 | SIB V.Type 1 | |

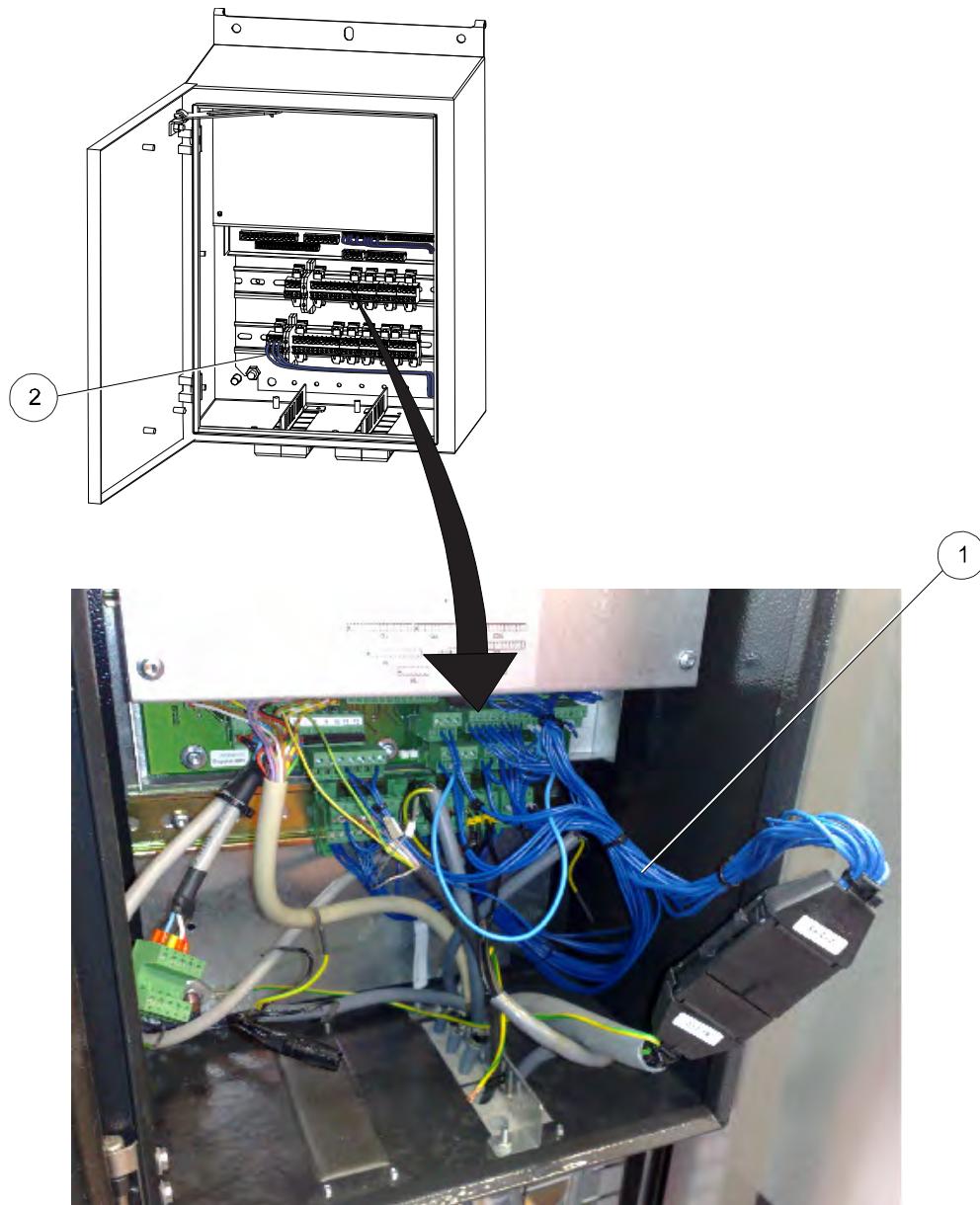
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4 Electrical spare parts

4.3.1 SIB V , spare parts

Continued

SIB harness

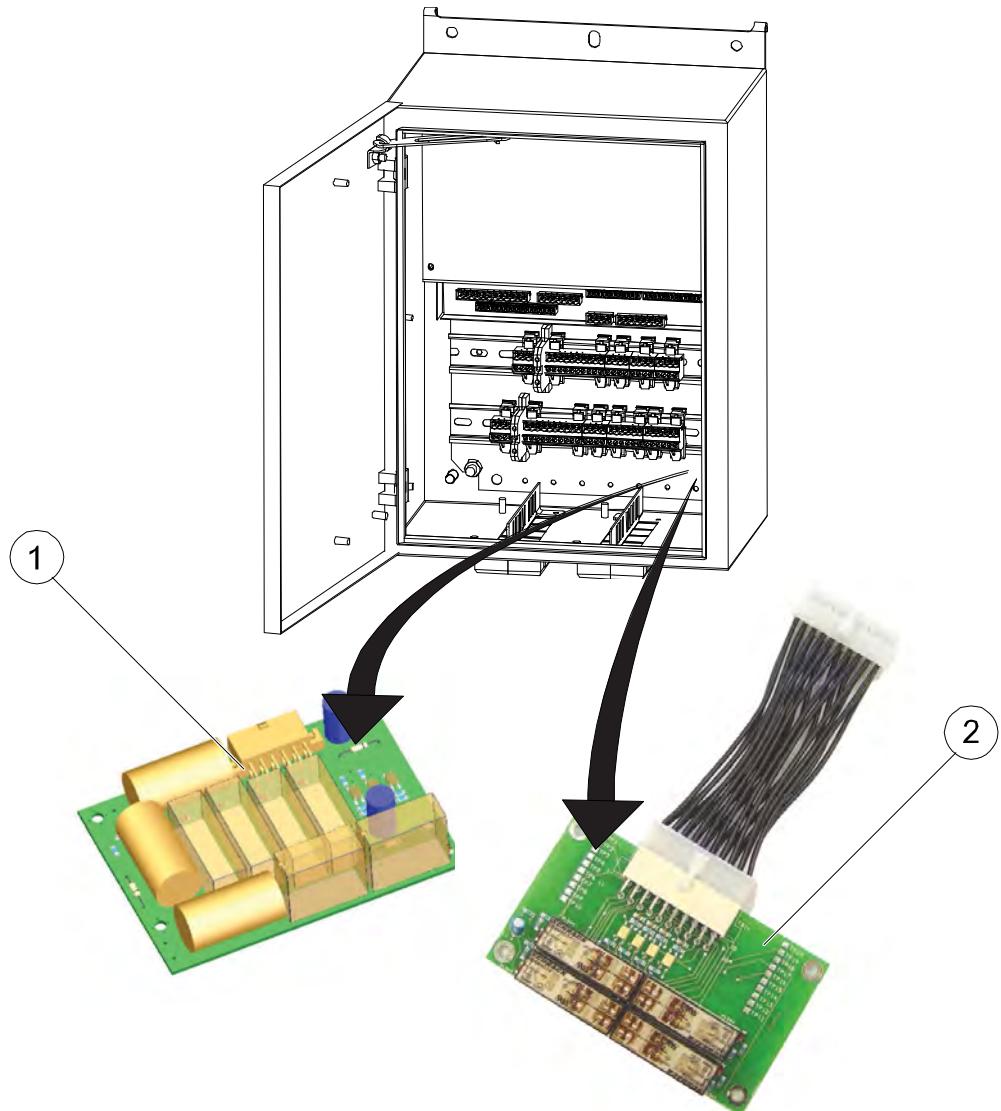


xx1000000292

| Pos. | Spare part | Description | Note |
|------|----------------|-----------------------------|------|
| 1 | 3HEA802196-001 | Harness Safety B/C/Ci/D/K/R | |
| 1 | 3HEA802195-001 | Harness Safety A/L/S | |
| 1 | 3HEA802197-001 | Harness SIB A/L/S | |
| 2 | 3HAC037833-001 | Harness EPS | |

4.3.2 Spare parts, SIB V option board 1 and 2

Spare part list



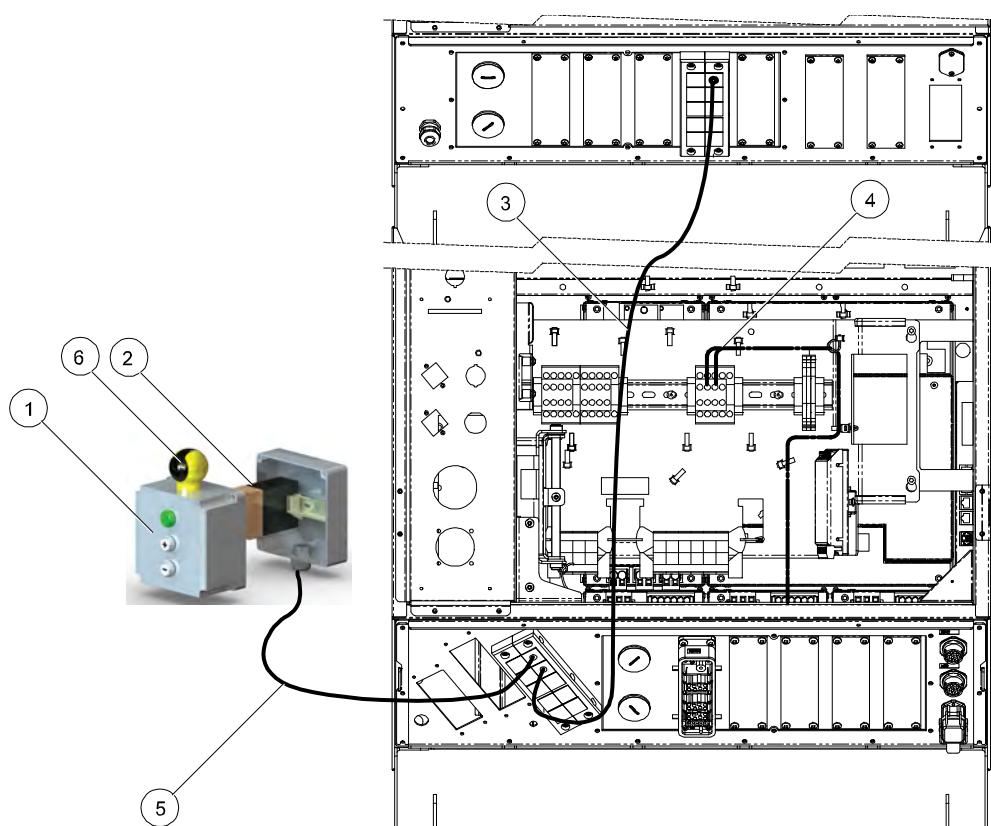
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| Pos | Spare part | Description | Note |
|-----|----------------|---------------------|----------|
| 1 | 3HEA800464-001 | SIB V Option bard 2 | PreReset |
| 2 | 504997880 | SIB V Option bard 1 | |

4 Electrical spare parts

4.3.3 Spare parts, manual jog L/K/R

Spare parts

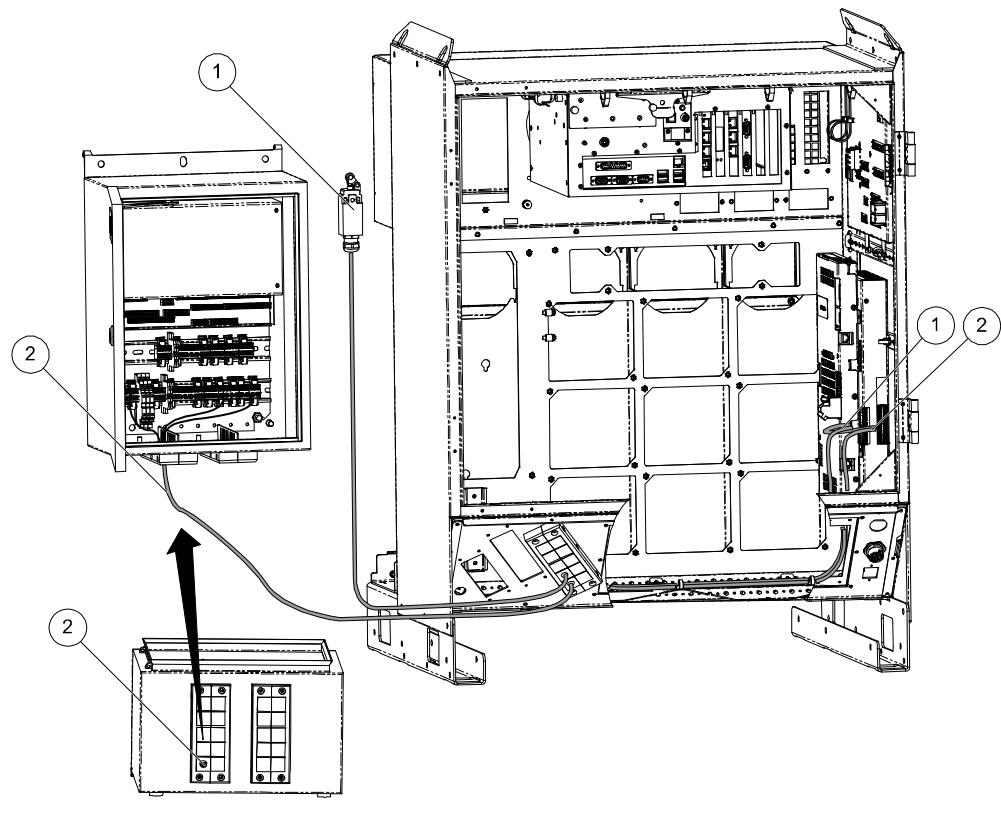


xx1000000277

| Pos | Spare parts | Description | Note |
|-----|----------------|-----------------------------|------|
| 1 | 3HAC028129-001 | Control Panel Manual Jog | |
| 2 | 552009004 | Safety Relay RT6 24V DC | |
| 3 | 3HAC029925-001 | Cable Manual Jog K/R,DC | |
| 4 | 3HEA802189-001 | Harness Manual Jog IRBP K/R | |
| | 3HAC037498-001 | Harness Manual Jog IRBP 2xL | |
| 5 | 3HEA802217-003 | Cable Manual Jog 15m | |
| 6 | 3HEA802497-001 | Safety Ball 2NO | |

4.3.4 Spare parts station sync

Cable sync switch



xx1000000294

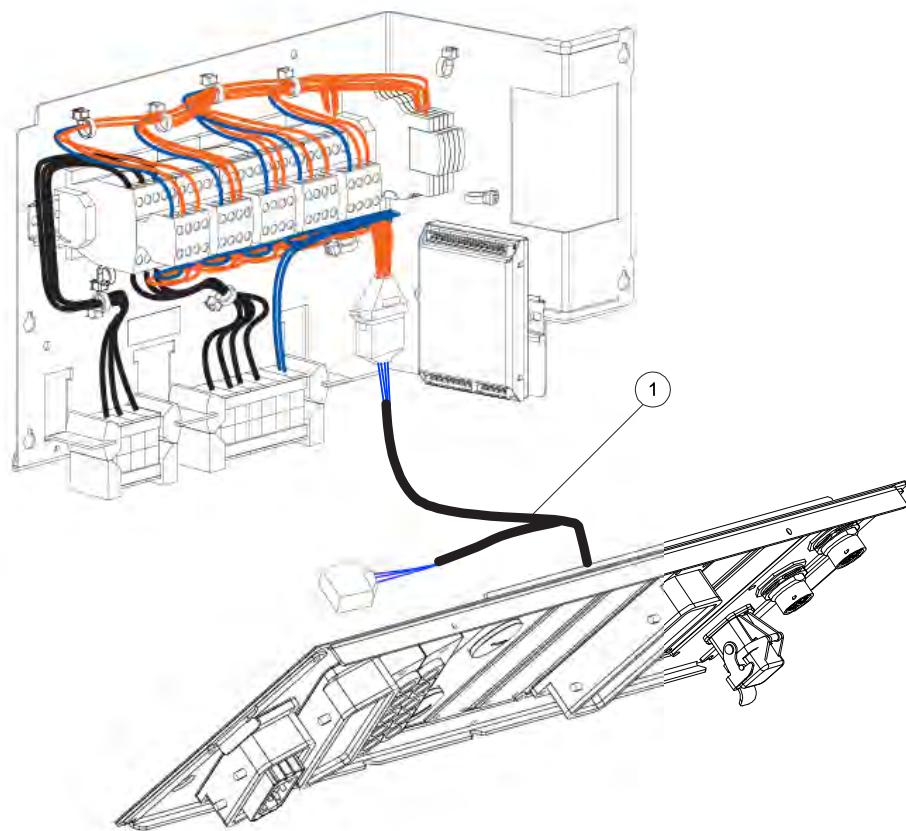
| Pos. | Spare part | Description | Note |
|------|----------------|-------------------|------|
| 1 | 3HAC037826-001 | Cable Sync switch | |
| 2 | 3HAC037550-001 | Cable EPS | |

4 Electrical spare parts

4.3.5 Spare parts, active relay supervision

4.3.5 Spare parts, active relay supervision

Harness MI Interface



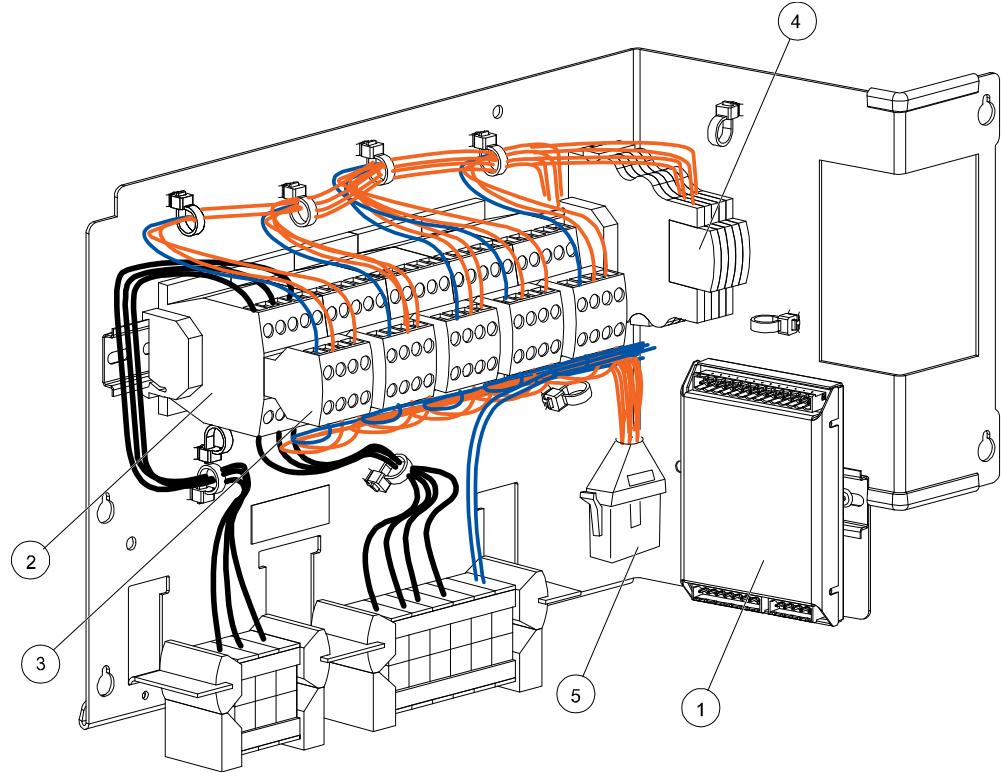
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| Item | Component | Description | Qty | Material, type, etc. | Dimension |
|------|----------------|----------------------|-----|----------------------|-----------|
| 1 | 3HAC028483-001 | Harness MI Interface | 1 | | 0.45 m |

5 Controller

5.1 Spare parts, controller IRBP

Spare parts, axis selector



xx1000000230

| Pos | Spare part | Description | Note |
|-----|----------------|--------------------------------------|---------------------|
| 1 | 3HEA800439-002 | Drive Module I/O RS485 | |
| 2 | 3HEA800447-001 | Contactor DILM12-10 | (24VDC) |
| 3 | 3HEA800447-003 | Auxiliary Contact 1NO/3NC DILA-XHI13 | |
| 4 | 3HEA800448-001 | Relay D2.5/5-R121L | (24VDC LED) (1 pcs) |
| 5 | 3HAC035611-001 | Harness IRBP C | |
| 5 | 3HAC035612-001 | Harness IRBP L | |
| 5 | 3HAC035613-001 | Harness IRBP K/R | |
| 5 | 3HAC035614-001 | Harness IRBP A | |
| 5 | 3HAC035615-001 | Harness IRBP B/D | |

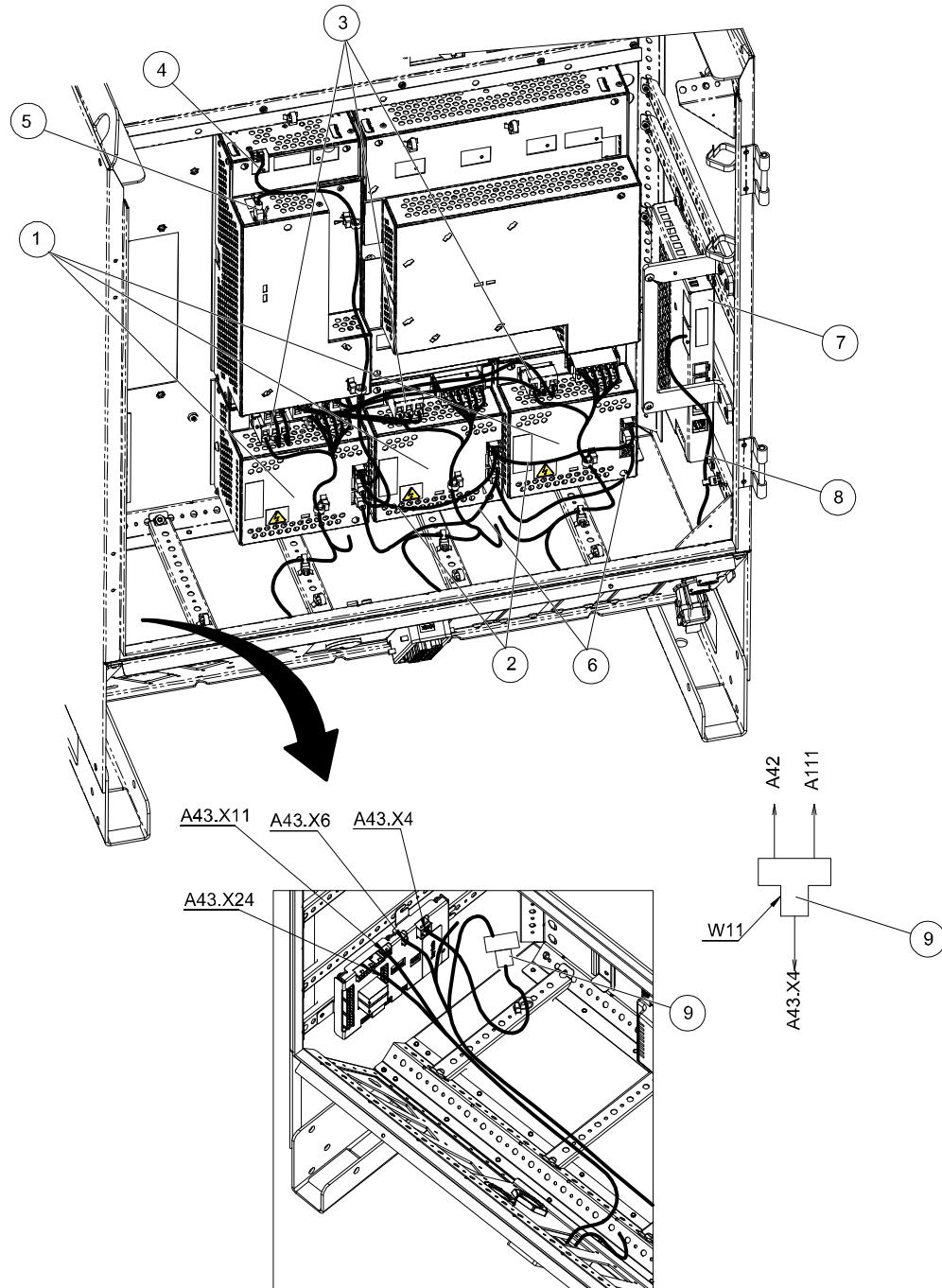
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5 Controller

5.1 Spare parts, controller IRBP

Continued

Additional drives

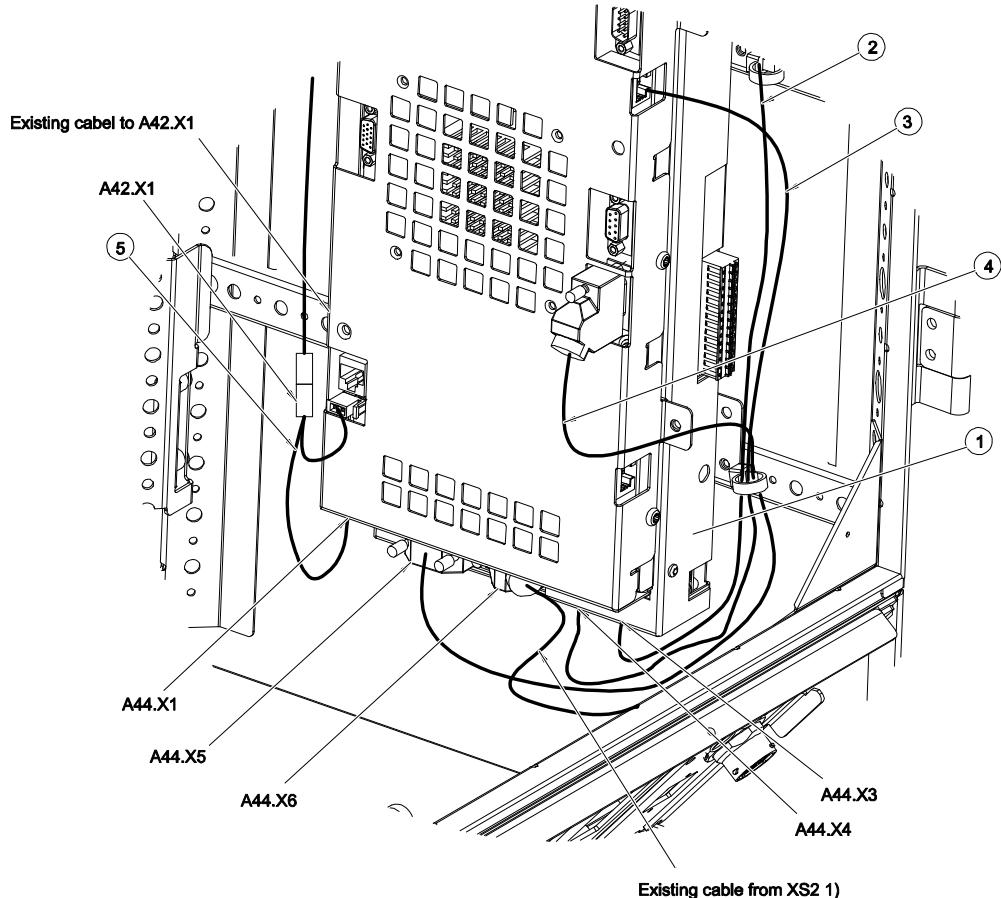


xx1000000249

| Pos | Spare part | Description | Note |
|-----|----------------|------------------------------------|------|
| 1 | 3HAC030923-001 | DSQC664 HV ADU Drive unit | |
| 2 | 3HAC032601-001 | Harness-ADU 24V | |
| 3 | 3HAC032612-001 | Harness-MDU/ADU DC-bus | |
| 4 | 3HAC032595-001 | Harness-MDU/ADU 24V | |
| 5 | 3HAC024254-007 | Ethernet cable straight connection | |

Continues on next page

| Pos | Spare part | Description | Note |
|-----|----------------|------------------------------------|------|
| 6 | 3HAC024254-008 | Ethernet cable straight connection | |
| 7 | 3HAC026271-003 | ELAN EPS unit, DSQC646 | |
| 8 | 3HAC020677-001 | Harness-Axis board/XS41 | |
| 9 | 3HEA802183-001 | 3-way RJ45 8P/8C Shielded MPK 402 | |

Spare parts, ELAN

xx1000000276

| Pos | Spare parts | Description | Note |
|-----|----------------|-----------------------------------|------|
| 1 | 3HAC026271-003 | ELAN EPS unit, DSQC646 | |
| 2 | 3HAC026292-001 | Harness-Ethernet ELAN/MC | |
| 3 | 3HAC026218-001 | Harness-Ethernet cross connection | |
| 4 | 3HAC026193-001 | Harness-SMB AXC/ELAN | |
| 5 | 3HAC026413-001 | Harness-Adapter 24V ELAN/AXC | |

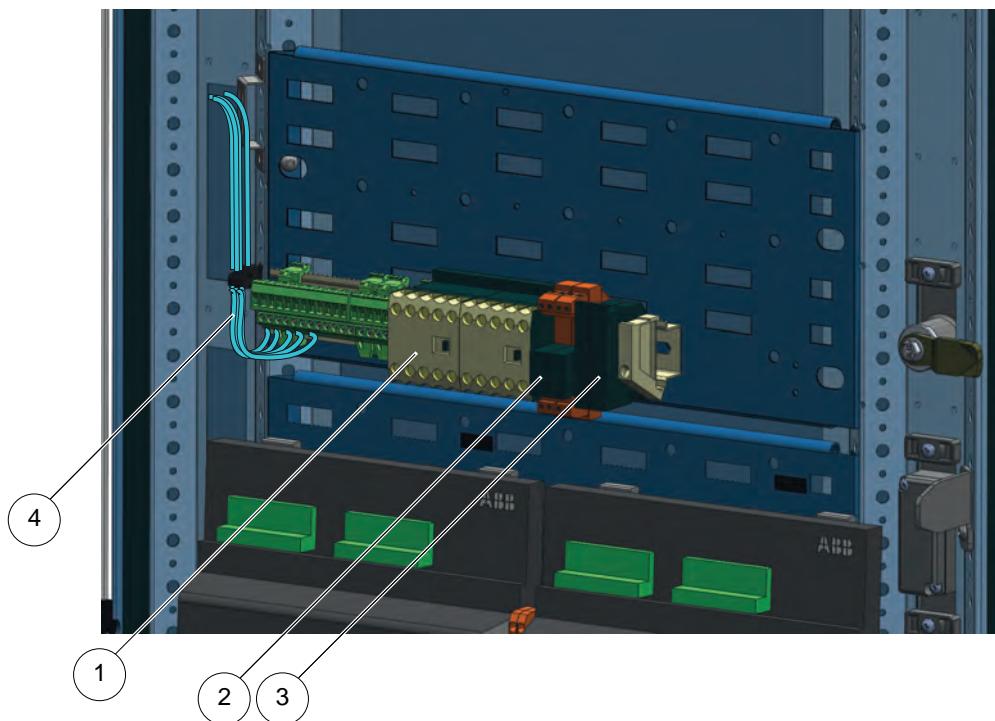
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5 Controller

5.1 Spare parts, controller IRBP

Continued

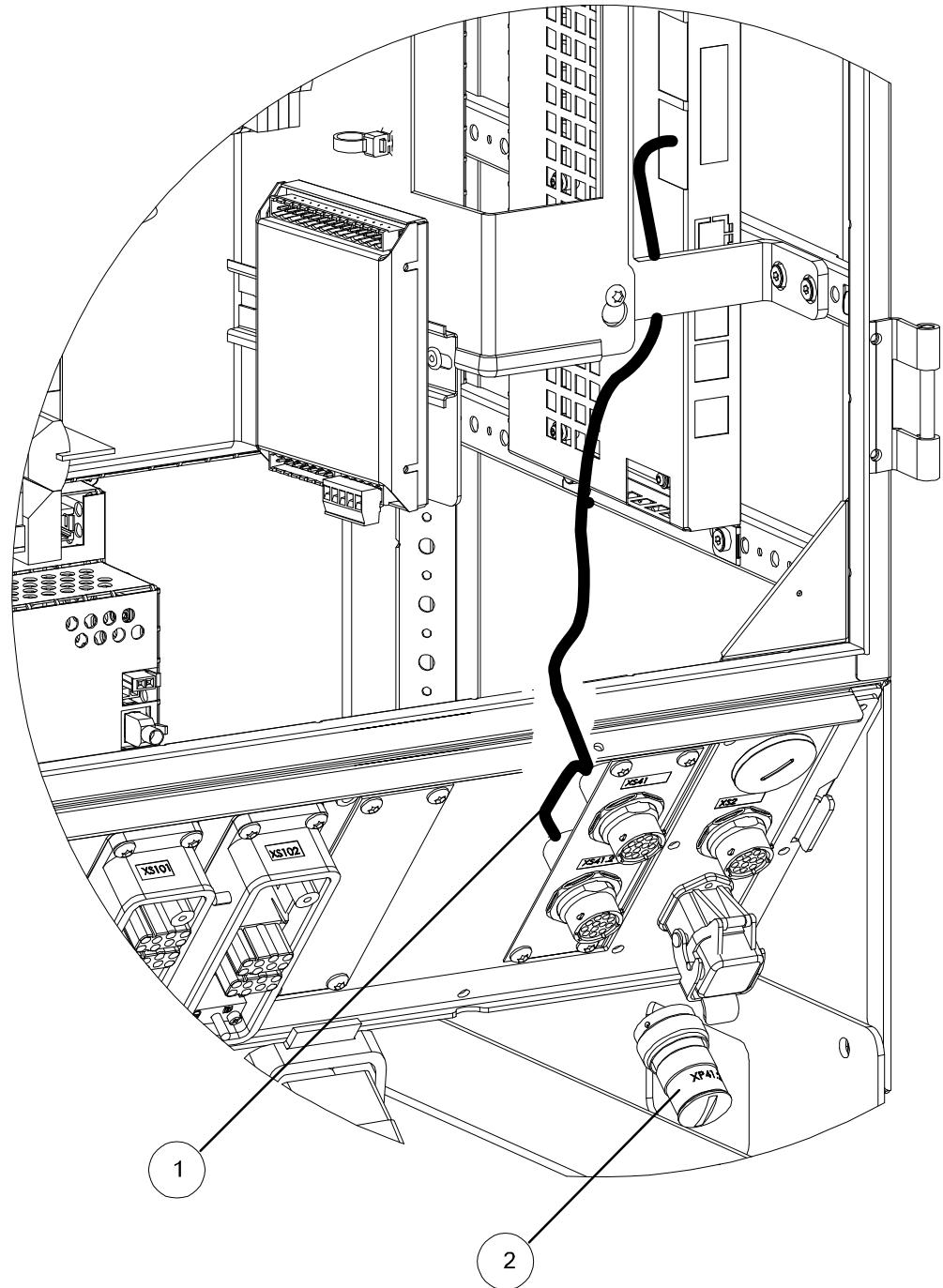
Spare parts external emergency stop



xx1000000293

| Pos | Spare part | Description | Note |
|-----|----------------|----------------------------------|-------------|
| 1 | 193825029 | Relay contactor | DIL ER-31-G |
| 2 | 193540004 | Relay | ECO30-24V |
| 3 | 193541001 | Connection Block | TS35 |
| 4 | 3HEA800519-001 | Harness Opt. Ext. Emergency Stop | |

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Spare parts cable MS XS41/XS41.2

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| Pos | Spare parts | Description | Note |
|-----|----------------|-------------------------|-------|
| 1 | 3HEA800461-001 | Cable MS XS41/XS41.2 | |
| 2 | 3HAC028434-001 | Jumper Connector XP41.2 | 1xA/L |

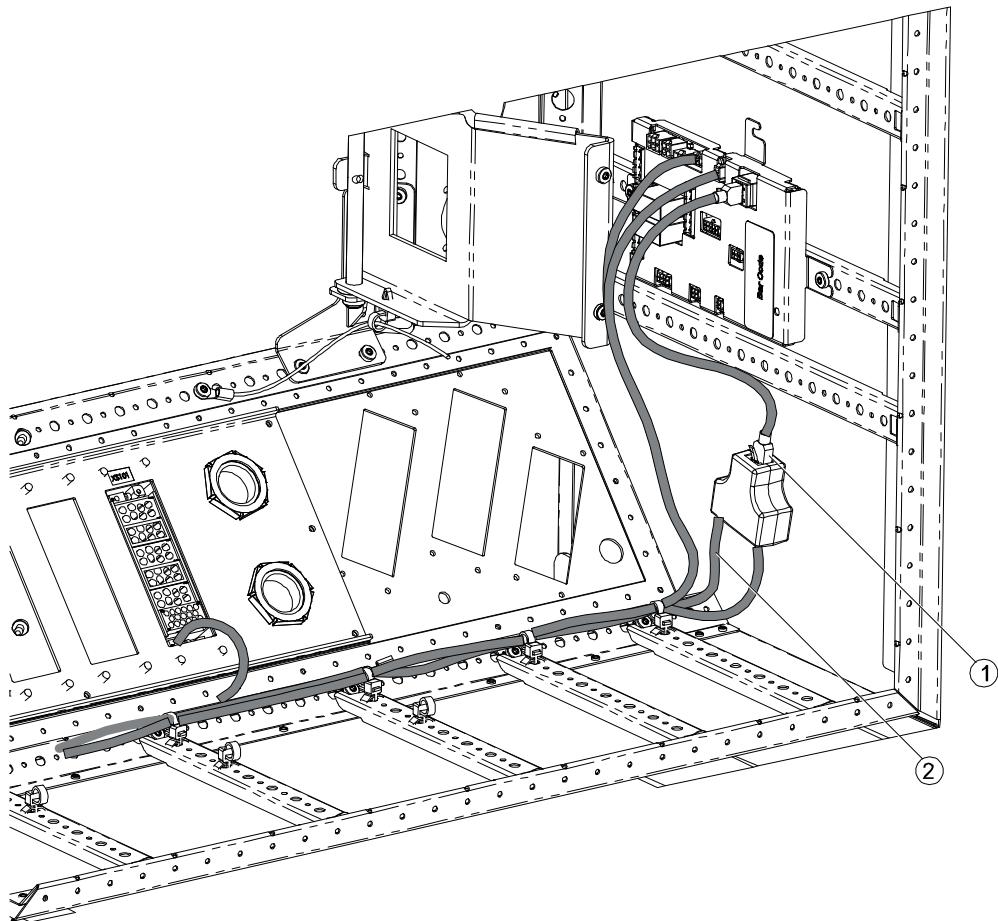
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5 Controller

5.1 Spare parts, controller IRBP

Continued

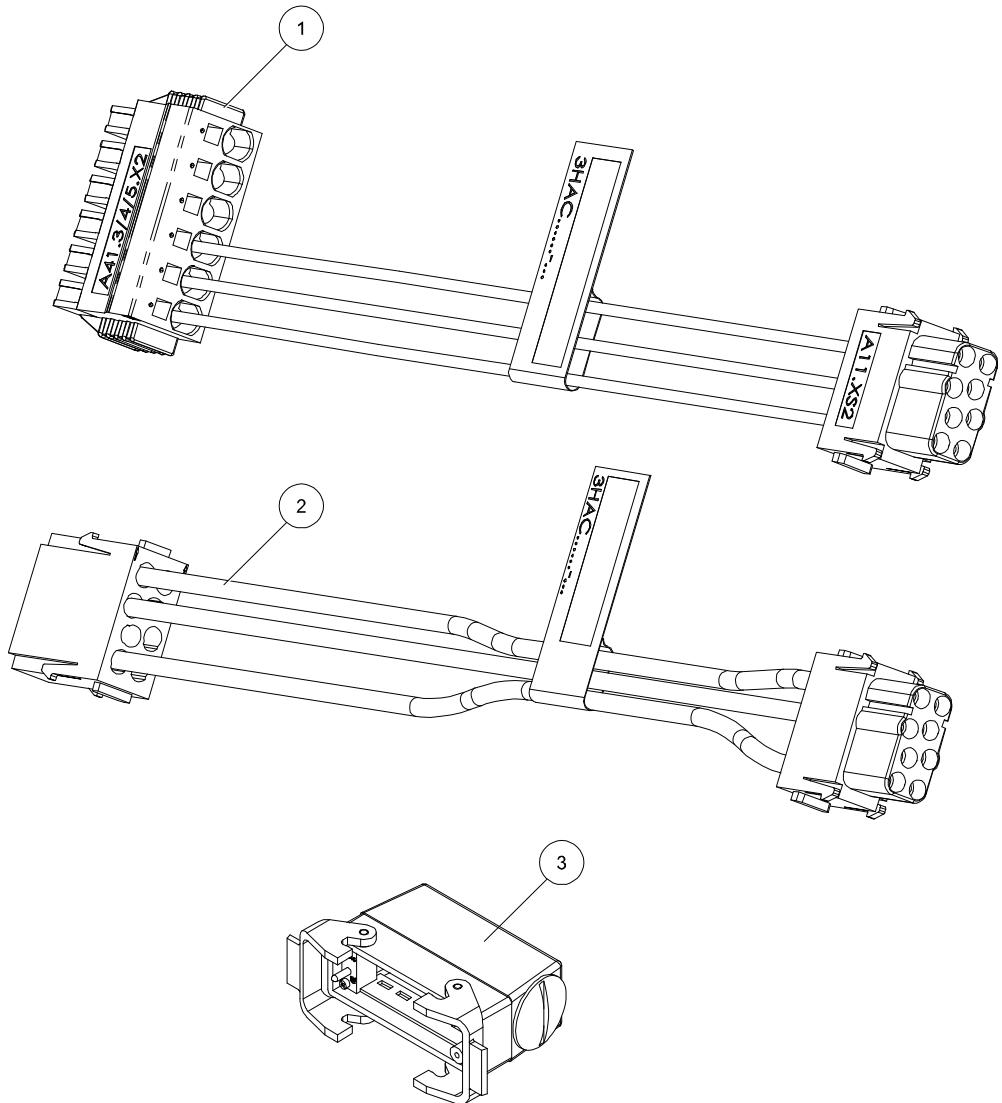
Cables axis selector



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| Pos | Spare parts | Description | Note |
|-----|----------------|-----------------|----------|
| 1 | 3HEA802215-001 | Cable Patch | L= 0.1 m |
| 2 | 3HEA802201-001 | Cable I/O RS485 | |

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Harness controller

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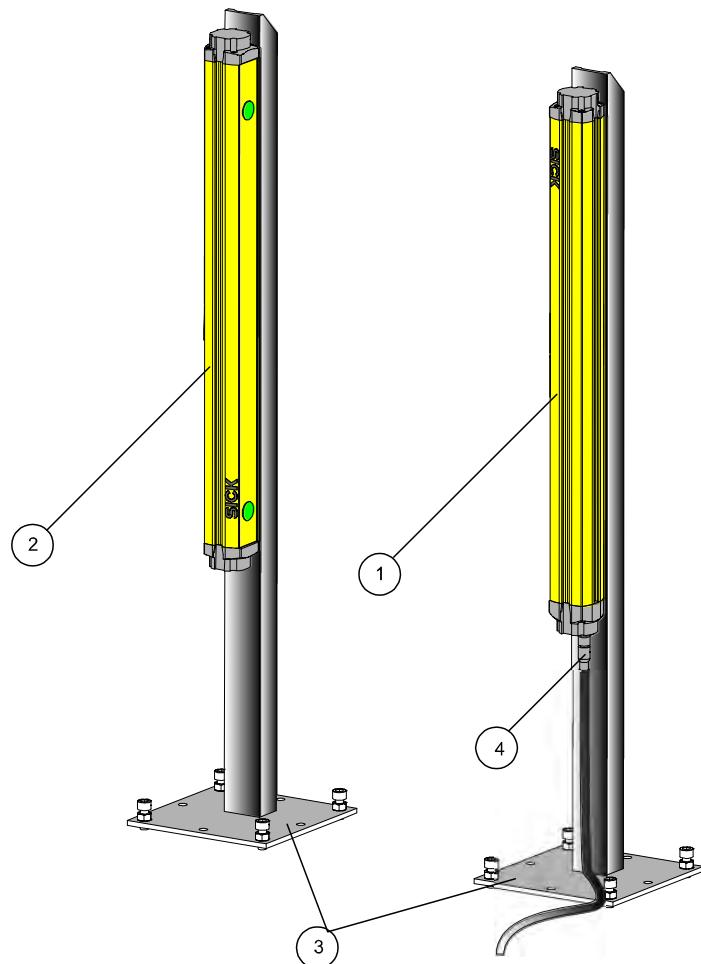
| Pos | Spare part | Description | Note |
|-----|----------------|-----------------------------------|----------|
| 1 | 3HAC035806-001 | Harness Drive unit IRBP | L= 0.55m |
| 2 | 3HAC035551-001 | Harness Motor IRBP A/B/C/Ci/D/K/R | L= 0.36m |
| 2 | 3HEA800450-001 | Harness Motor IRBP L | L= 0.36m |
| 3 | 3HAC036197-001 | Cover Hood | |

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6 Safety equipment

6.1 Spare parts, light beam

Spare parts, light beam



xx1000000247

| Pos | Spare part | | |
|-----|----------------|-----------------------------|-------|
| 1 | 3HAC030116-001 | Sender/Receiver, Light Beam | |
| 2 | 3HAC030117-001 | Mirror, Light Beam | |
| 3 | 3HAC030120-001 | Post, Light Beam | |
| 4 | 3HAC030122-001 | Cable, Light Beam | L=15m |

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