

Spare-parts catalog

CMS 933 (Type 773)

Component type 000

E5|E7|E8|E5m.4|E7m.5|E7m.8|E8m.7|E3,5.2|E5.2

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1 Introduction

Imprint

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Our products are being developed further continuously. They are therefore subject to technical modifications.

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Notes for the order

This catalog serves to order spare parts.

It can only be applied to the machine type recorded on the title page.

When ordering spare parts we imperatively ask for the following indications as otherwise a delivery of spare parts is not possible:

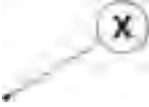
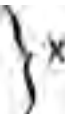
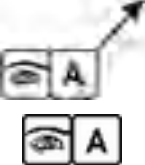
1. Type of machine, gauge, no. of machine.
2. Page no., designation, ID, quantity.

Please use the order form!

Only genuine STOLL spare parts may be used for repairs.

1.2 Search help

In order to make the search of the spare parts easier, the following elements will be used in the spare parts catalog:

Symbol	Meaning
Σ	Indicates an assembly
	Position indicator with the position number (X).
	Indicates an element of another assembly.
	Indicates an assembly which is represented more detailed beside.
	Indicates an assembly which is represented on another page more detailed.
	Screw torques (z) deviating from the preferential row.
	Detail, represented enlarged in the direction of the arrow.
	Explosion representation, single elements enlarged.
	Indicates a group of parts.
	Indicates the left-hand side or view.
	Indicates the right-hand side or view.
	Indicates a section or a view in the viewing direction.

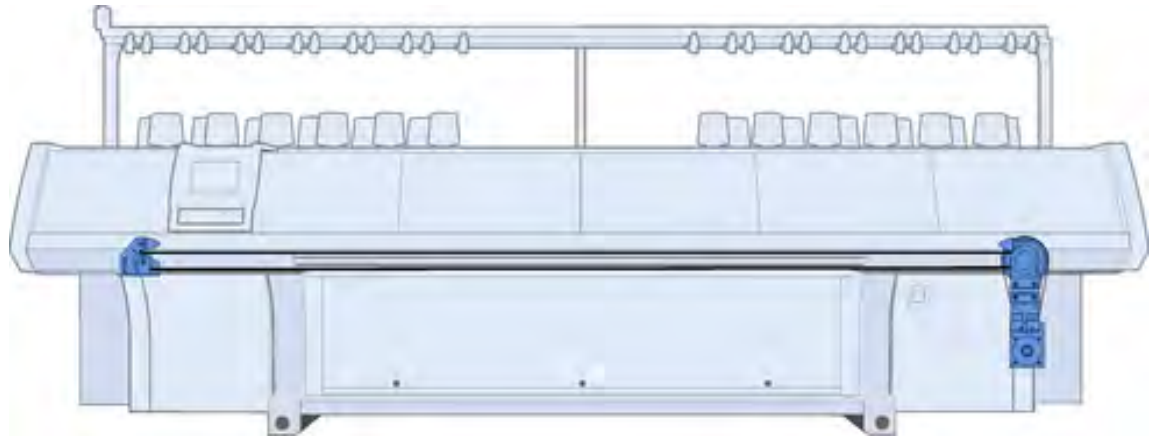
1.3 Torques

Drehmomente Torques Couples Coppias Momentos de rotación [Nm] ± 10 % (für $\mu_{\text{ges}} = 0,12$)		Festigkeitsklassen Property class Classes de résistance Classi di resistenza Clases de resistencia		
		4,8	8,8	12,9
Regelgewinde Coarse-pitch thread Filetage à pas gros Filetto regolatore Filete regulador	M3	0,6	1,2	2,5
	M4	1,2	2,5	5
	M5	2,5	5	9
	M6	5	9	18
	M8		18	40
	M10		40	
	M12		80	

Preferential row of screw torques

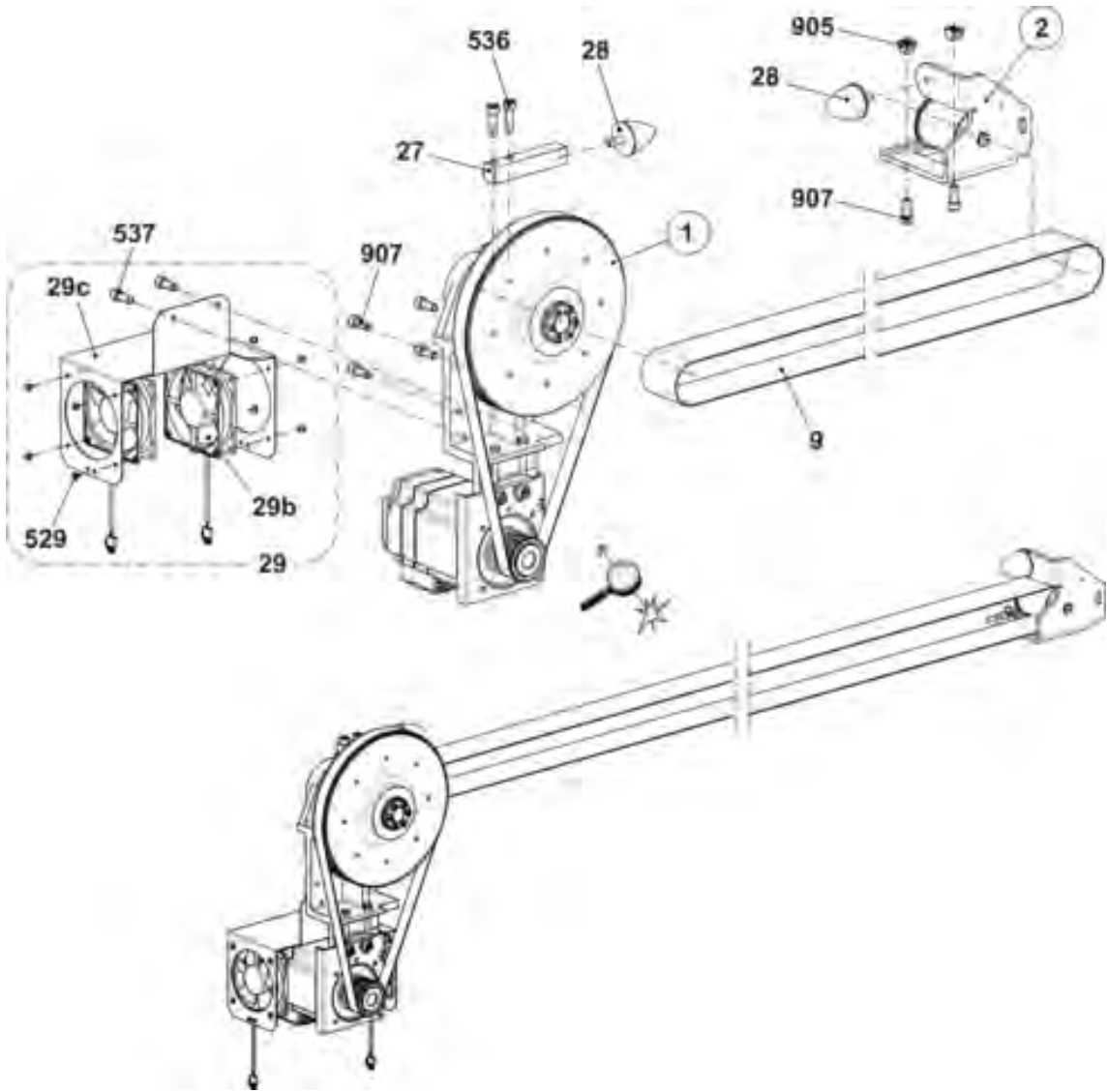
- Torques are valid for:
Connection steel-steel, black, phosphatized, galvanized, rolled or cut thread as well as only for plain (head) supports.
- Torques are valid for:
protected screws with: lock washers, rib heads, coated and clamping screws and nuts. They are also not used for self-grooving threads.
- Torques differing from this preferential row of torques must be taken from the corresponding location in the drawings.

2 Carriage drive



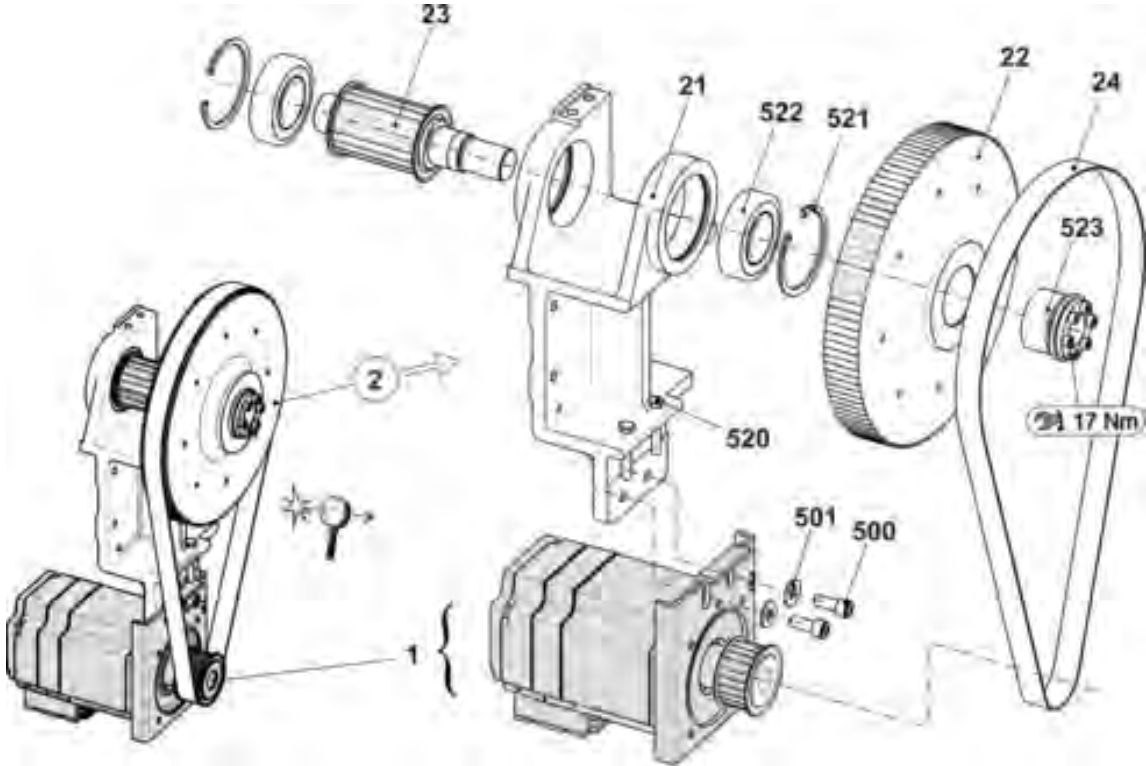
2.1 Drive

Pos	Designation	Id	Pos	Designation	Id
Σ	Drive				
1	Drive unit complete	242 380	29	Ventilator complete	245 167
2	Tension bearing complete	253 614	29a	Ventilator plate drive motor	245 037
9	Toothed belt 75AT10/8830	253 886	29b	Ventilator complete	213 722
27	Support buffer	242 748	29c	Ventilator plate drive motor	245 037
28	Parabolic spring	200 661	529	Screw 5x8	
536	Cap screw M10X35	020 159	905	Slide nut M10x2	023 471
537	Cap screw M8x12	023 138	907	Cap screw M10X25	020 157



2.1.1 Drive unit

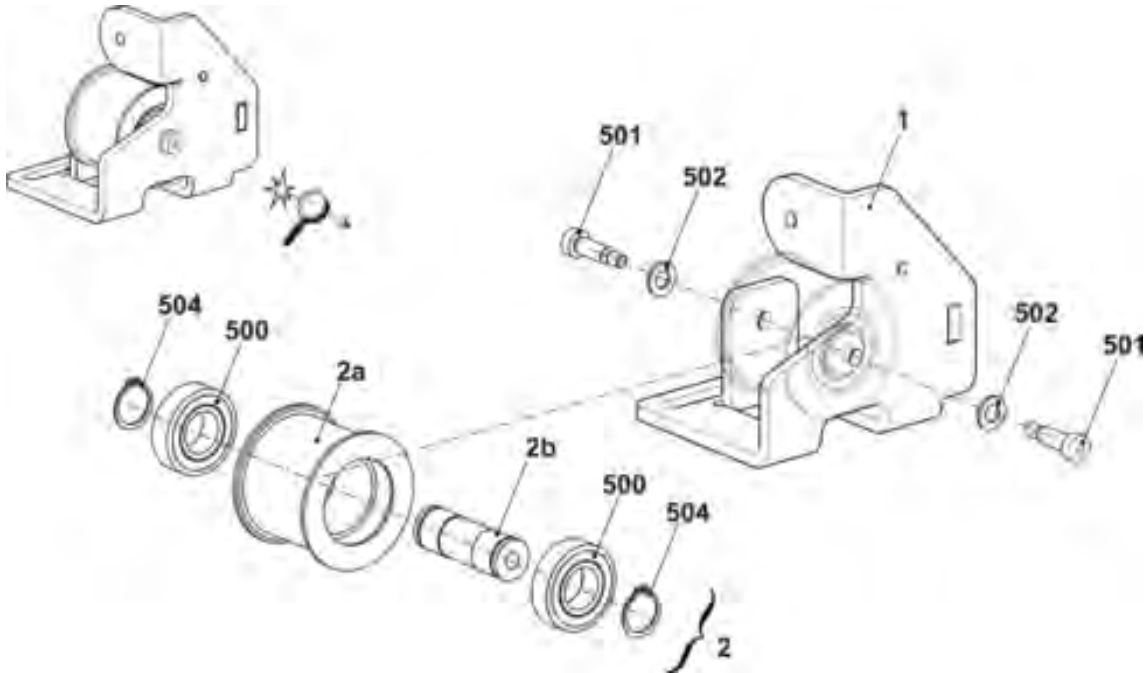
Pos	Designation	Id		Pos	Designation	Id
Σ	Drive unit complete	242 380				
1	Drive unit	258 190		520	Hexagon screw M8x50	020 364
2	Drive bearing	242 378		521	Locking ring 80x2.5	023 461
	21	Housing drive bearing		522	Grooved ball bearing 6307-2RS	023 462
	22	Timing belt pulley 115 S8M 250		523	Tension set 30X55	023 208
	23	Pinion AT10 Z=20		500	Cap screw M10X25	020 157
	24	Toothed belt 250 HP-S8M 1312		501	Disc 10.5X25X2.5	022 178



2.1 Drive

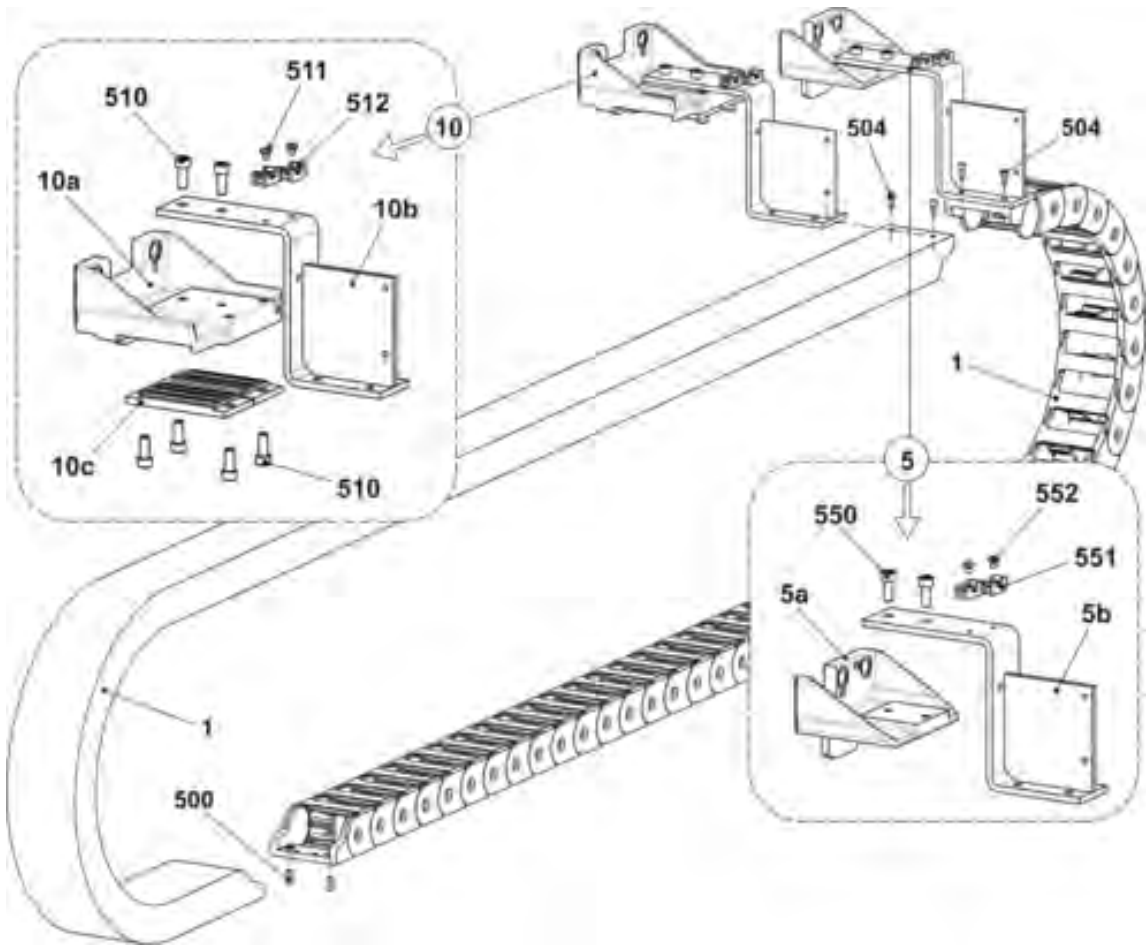
2.1.2 Tension bearing

Pos	Designation		Id		Pos	Designation		Id
Σ	Tension bearing complete		251 581					
1	Tension bearing		251 560			500	Grooved ball bearing625-6305-2RS	255 686
2	Tension roller complete		256 640			504	Locking ring 471-25x1,2	
	2a	Tension roller	255 684		501	Cap screwM10x25		023 751
	2b	Axle	251 579		502	U-washer		020 874



2.2 Energy chain and plunger

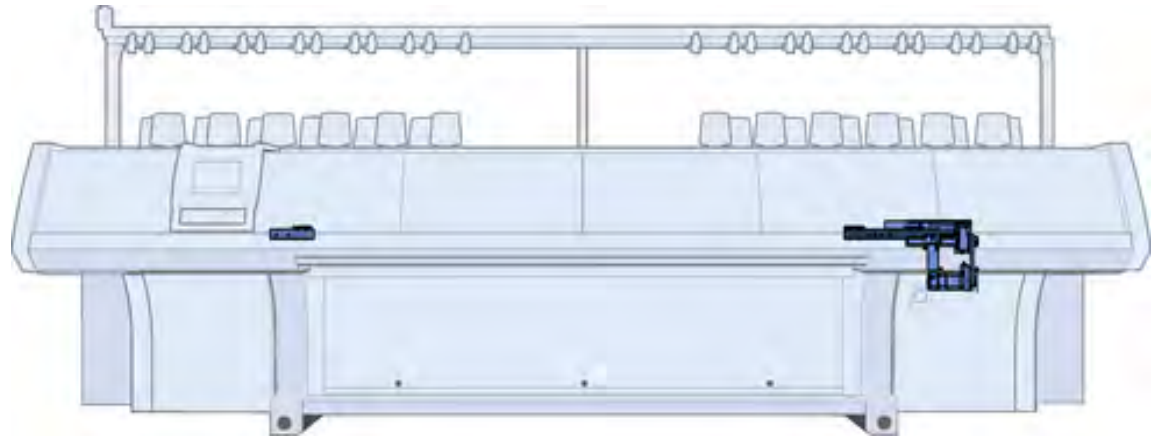
Pos	Designation	Id	Pos	Designation	Id
1	Energy chain 45 links	220 389	10	Carriage driver complete	242 743
500	Cap screw M6X8	023 411	10a	Carriage driver	242 738
5	Stop point complete	242 774	10b	Cable driver	242 730
5a	Stop point	242 753	10c	Clamping plate	232 493
5b	Cable driver	242 730	510	Cap screw M8x20	020 141
550	Cap screw M8x20	020 141	511	Countersunk screw M5x6	023 284
551	Fixing element	026 489	512	Fixing element	026 489
552	Countersunk screw M5x6	023 284	504	Cap screw M6X12	020 134



2.2 Energy chain and plunger

Notes:

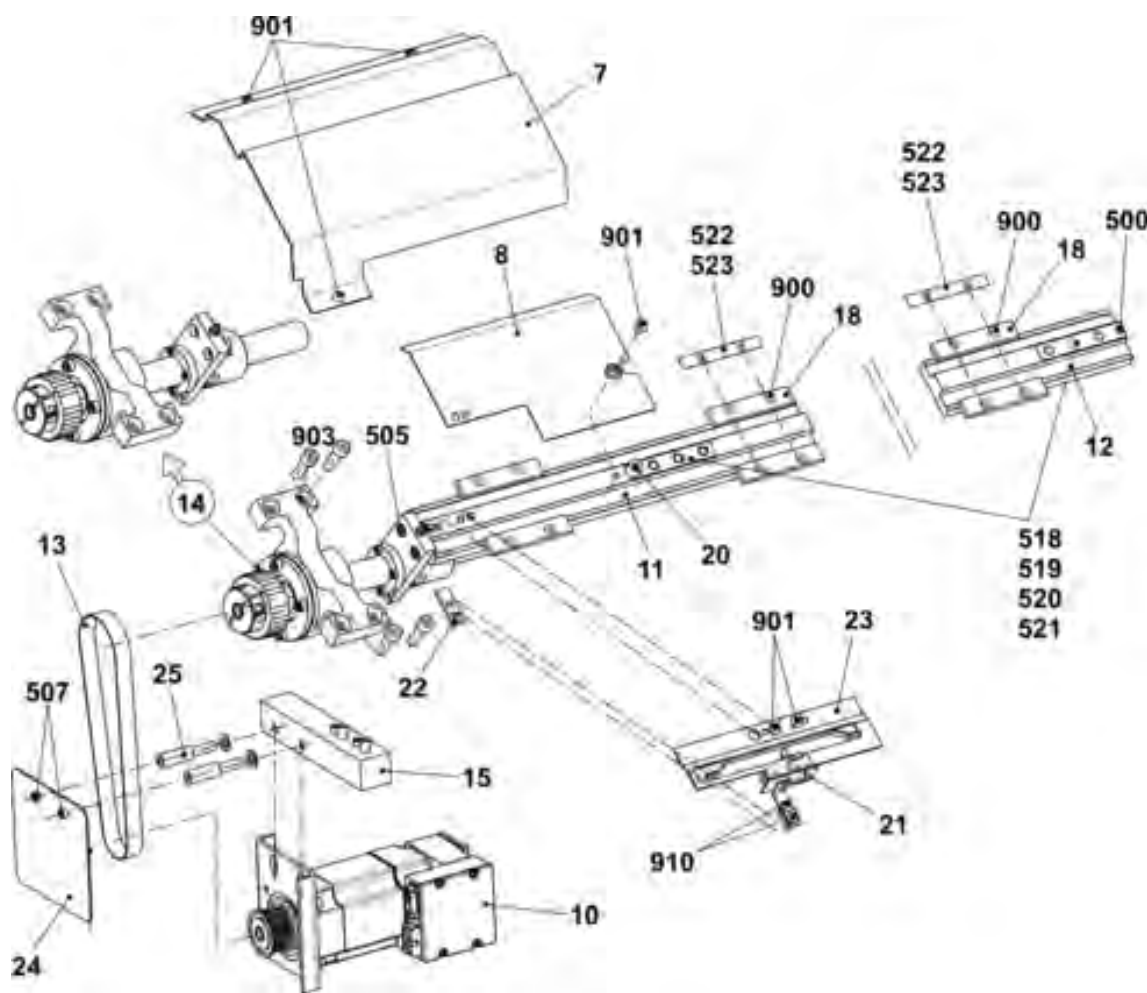
3 Racking



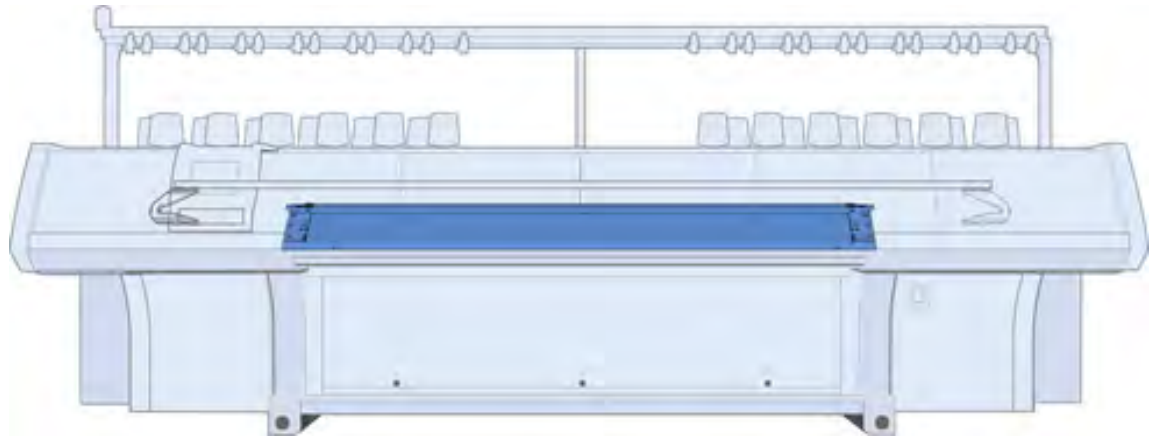
3.1 Racking drive

3.1 Racking drive

Pos	Designation	Id		Pos	Designation	Id
Σ	Racking			25	Distance bolt	232 543
7	Racking cover plate	242 314		500	Cap screw M4x4	022 767
8	Racking cover plate movable	242 312		505	Cap screw M6X16	023 116
10	Three-phase A.C. servo motor racking complete	258 192		507	Cap screw M5x12	020 132
11	Racking strip	242 311		518	Shim 0,03x15x85	023 162
12	Racking strip on the left	211 022		519	Shim 0,05x15x85	023 163
13	Toothed belt 150 S 5M 490	229 281		520	Shim 0,1x15x85	023 164
14	Spindle bearing	253 262		521	Shim 0,2x15x85	023 170
15	Bearing	227 604		522	Shim 0,03x11x80	023 286
18	Guide strip	206 382		523	Shim 0,05x11x80	023 287
20	Stop screw	218 783		530	Countersunk screw M6x10	023 183
21	Card racking limit switch	229 396		900	Cap screw M6x12	022 795
22	Shim 0,03x11x80	229 715		901	Countersunk screw M6x10	023 183
23	Switch plate	240 722		903	Cap screw M8x25	020 142
24	Cover plate	232 544		910	Countersunk screw M6x16	023 124



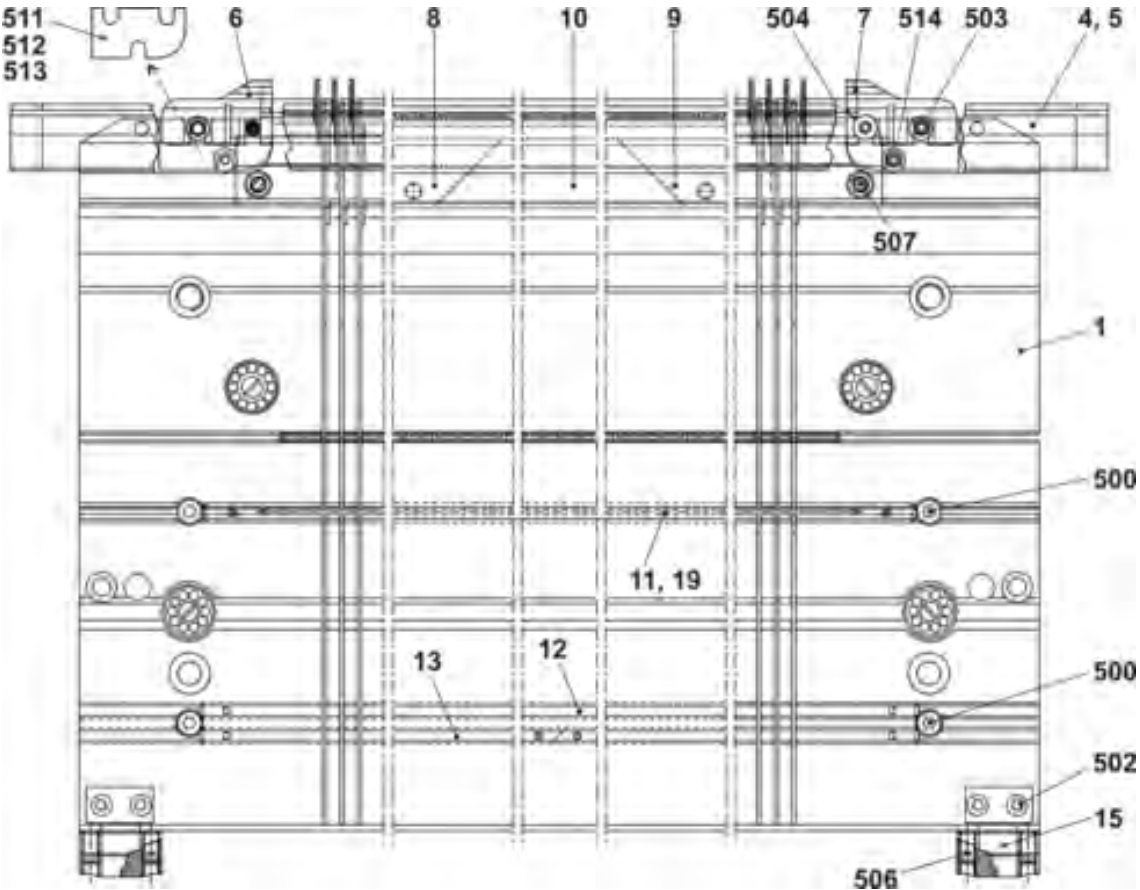
4 Needle beds



4.1 Needle bed E5

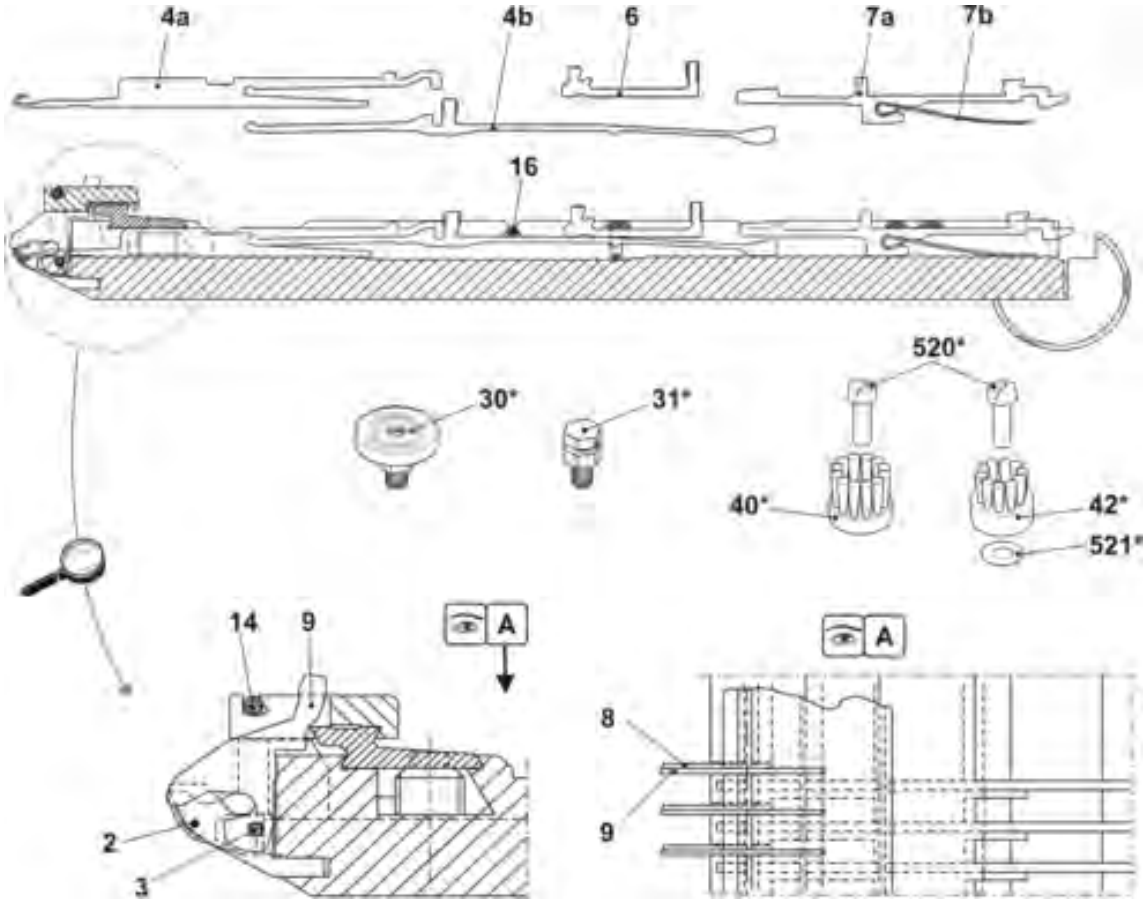
4.1 Needle bed E5

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E5	210 427		15	Support	206 352
1	Needle bed at the front rear E5	210 991		19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E5	211 038		500	Cap screw M5X10	022 918
5	Holding-down jack bed at the rear E5	211 045		502	Cap screw M6X25	020 137
6	Limiter on the left E4-E8	205 343		503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344		504	Cap screw M5X22	023 193
8	Needle bar	205 311		506	Setscrew M6x12-45	022 400
9	Needle rail on the right	205 312		507	Sprung thrust piece B-M10	023 177
10	Needle bar	210 977		511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E5	210 982		512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978		513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980		514	Cap screw M5x8	023 379



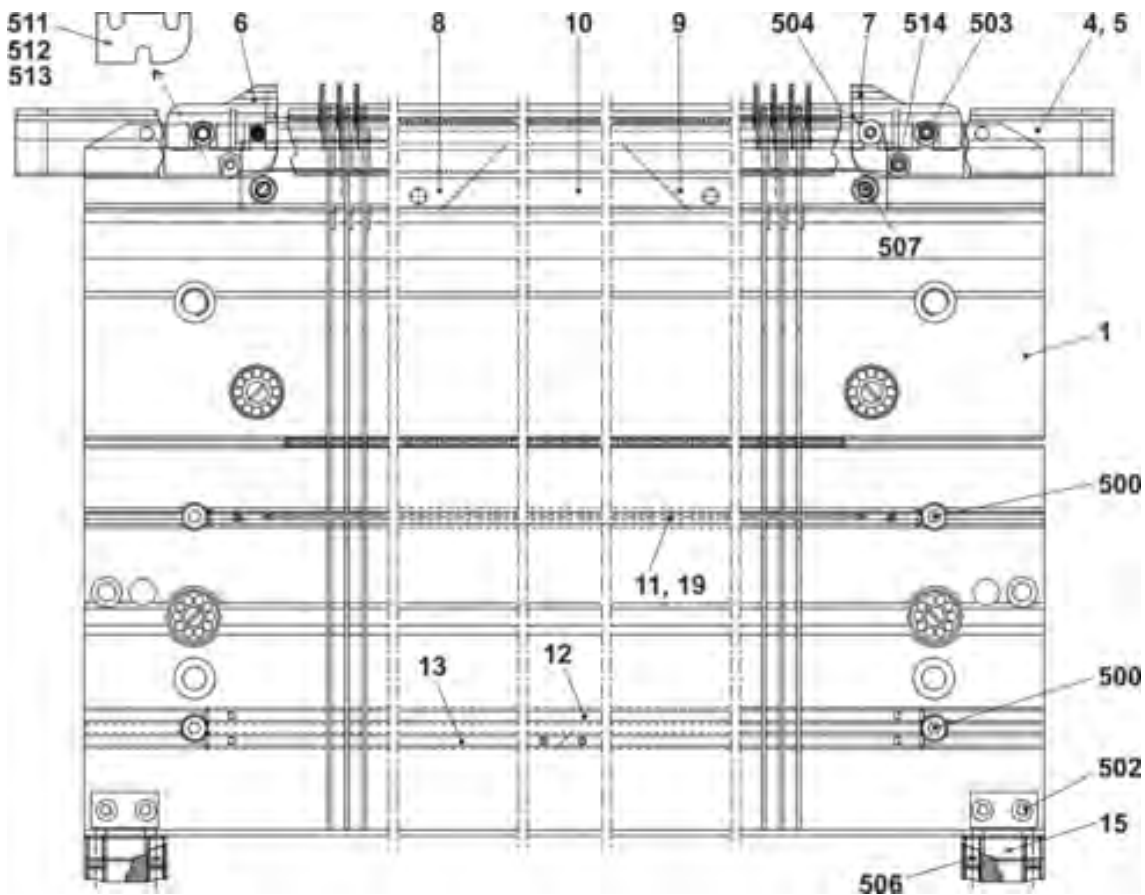
4.1.1 Continuation needle bed E5

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E5	210 427		9	Holding-down jack E5	205 031
2	Spring steel wire ø1.0	210 971		14	Locating wire ø2.8	210 974
3	Spring steel wire Ø2.0	210 972		16	Spring steel wire ø2.8	212 173
4a	Needle E5-6 with round hook	205 396		30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682		31*	Set screw complete	207 712
6	Intermediate slider with brake E5-8	237 323		40*	Disk brush	235 612
7a	Selection jack E4-8	200 687		42*	Disk brush	202 600
7b	Selector spring E4-8	200 690		520*	Cap screw M5x12	020 032
8	Knock-over bit E5	204 996		521*	Shim ring P6x12x03	023 540



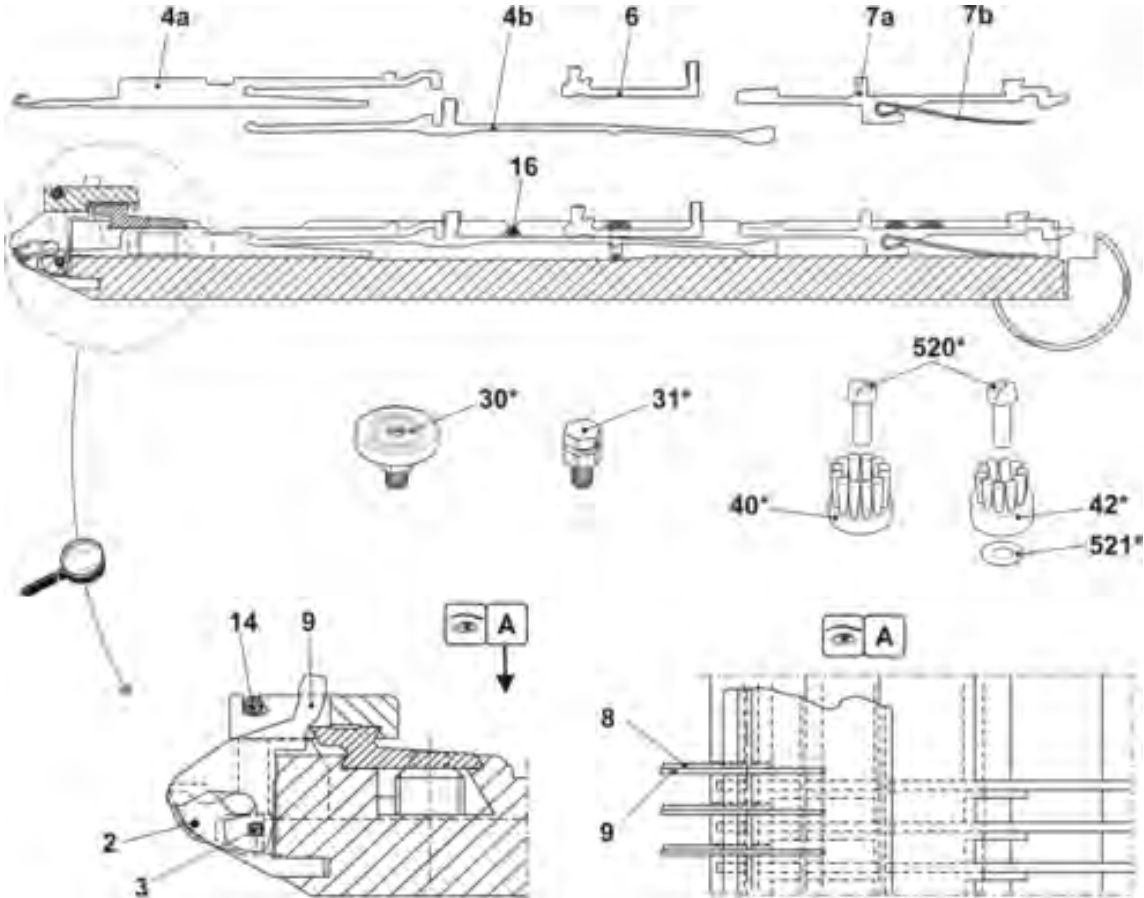
4.2 Needle bed E7

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7	210 428		15	Support	206 352
1	Needle bed at the front and rear E7	210 992		19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E7	211 039		500	Cap screw M5X10	022 918
5	Holding-down jack bed at the rear E7	211 046		502	Cap screw M6X25	020 137
6	Limiter on the left E4-E8	205 343		503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344		504	Cap screw M5X22	023 193
8	Needle bar	205 311		506	Setscrew M6x12-45	022 400
9	Needle rail on the right	205 312		507	Sprung thrust piece B-M10	023 177
10	Needle bar	210 977		511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E7	210 983		512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978		513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980		514	Cap screw M5x8	023 379



4.2.1 Continuation needle bed E7

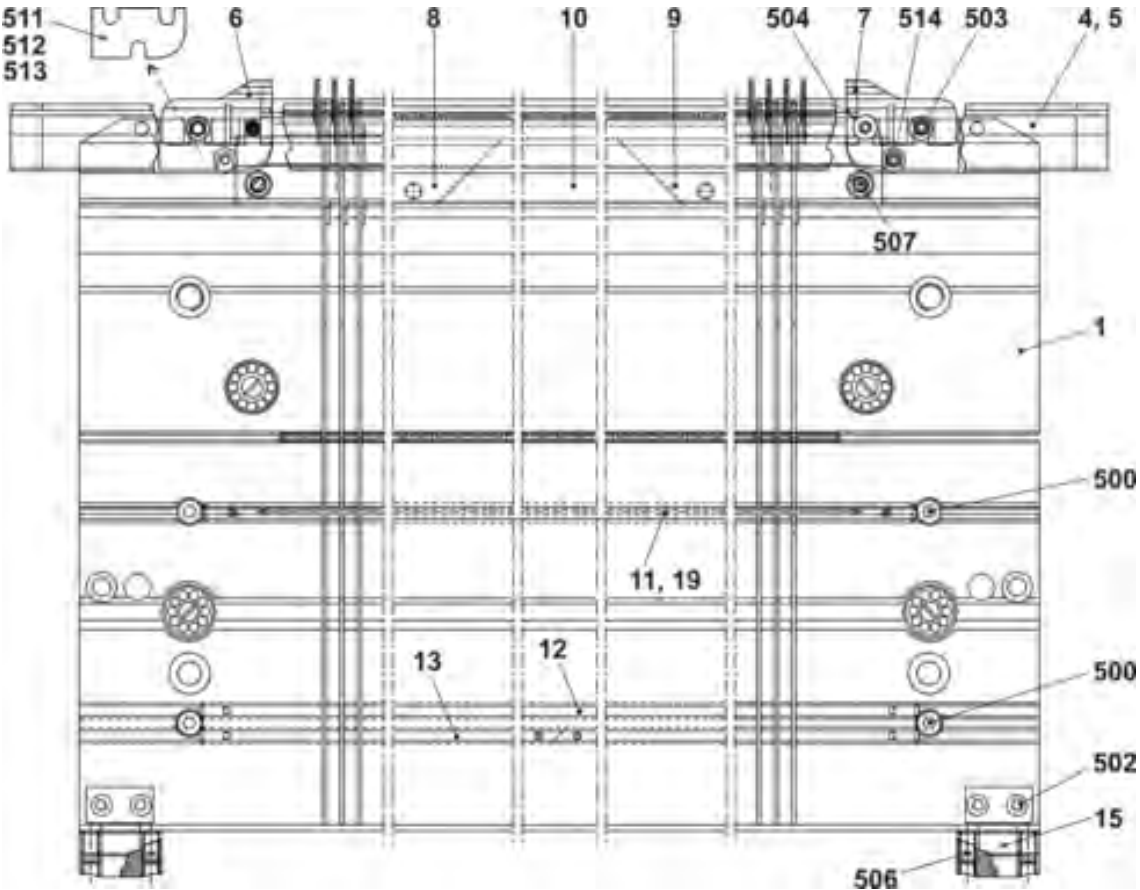
Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Needle bed complete at the front and rear E7	210 428		9	Holding-down jack E7	205 032
2	Spring steel wire ø1.0	210 971		14	Fixed wire Ø2.8	210 974
3	Spring steel wire Ø2.0	210 972		16	Spring steel wire ø2.8	212 173
A4	Needle E7 with round hook	205 397		30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682		31*	Set screw complete	207 712
6	Intermediate slider with brake E5-E8	237 323		40*	Disk brush	235 612
A7	Selection jack E4-8	200 687		42*	Disk brush	202 600
7b	Selector spring E4-8	200 690		520*	Cap screw M5x12	020 032
8	Knock-over bit E7	207 055		521*	Adjusting washer P6x12x03	023 540



4.3 Needle bed E8

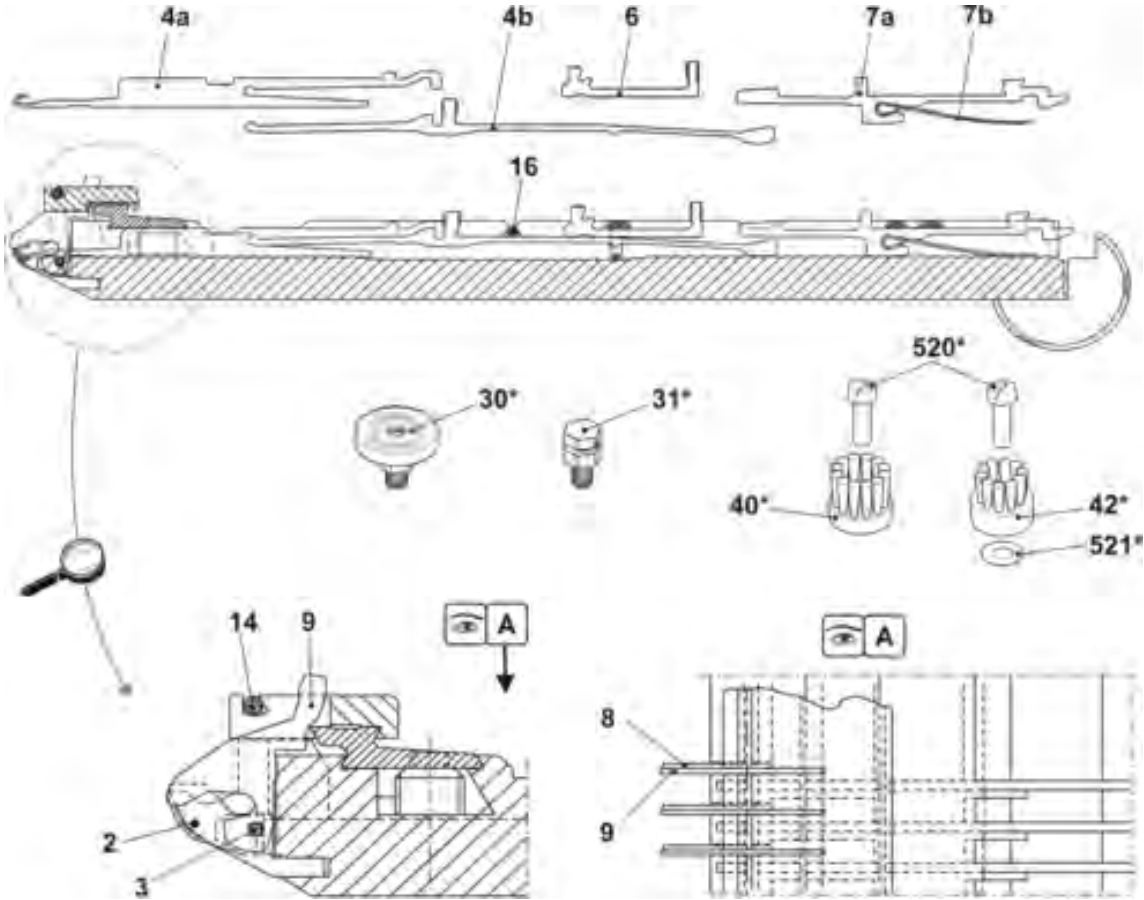
4.3 Needle bed E8

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E8	210 429		15	Support	206 352
1	Needle bed at the front rear E8	210 993		19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E8	211 040		500	Cap screw M5X10	022 918
5	Holding-down jack bed at the rear E8	211 047		502	Cap screw M6X25	020 137
6	Limiter on the left E4-E8	205 343		503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344		504	Cap screw M5X22	023 193
8	Needle bar	205 311		506	Setscrew M6x12-45	022 400
9	Needle rail on the right	205 312		507	Sprung thrust piece B-M10	023 177
10	Needle bar	210 977		511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E8	210 984		512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978		513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980		514	Cap screw M5x8	023 379



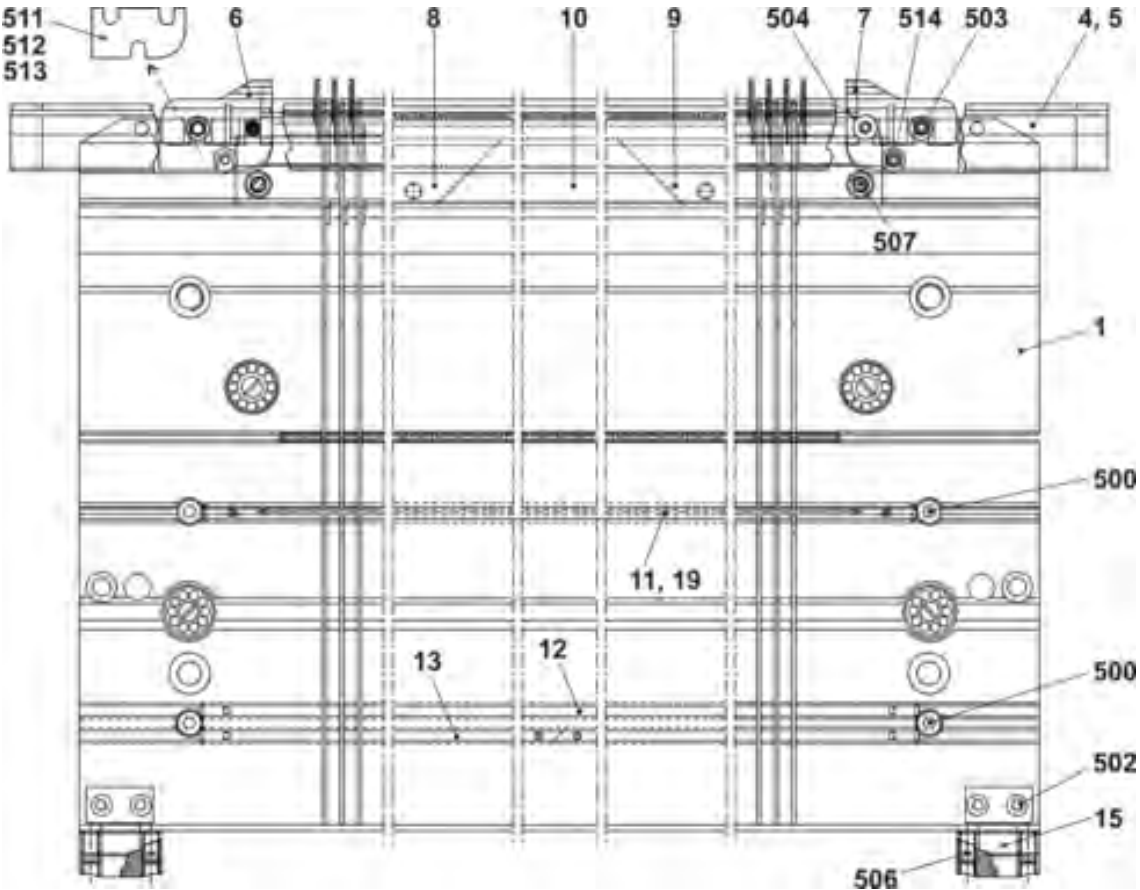
4.3.1 Continuation needle bed E8

Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Needle bed complete at the front and rear E8	210 429		9	Holding-down jack E8	205 028
2	Spring steel wire ø1.0	210 971		14	Fixed wire Ø2.8	210 974
3	Spring steel wire Ø2.0	210 972		16	Spring steel wire ø2.8	212 173
A4	Needle E8 with round hook	208 745		30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682		31*	Set screw complete	207 712
6	Intermediate slider with brake E5-E8	237 323		40*	Disk brush	235 612
A7	Selection jack E4-8	200 687		42*	Disk brush	202 600
7b	Selector spring E4-8	200 690		520*	Cap screw M5x12	020 032
8	Knock-over bit E8	207 054		521*	Adjusting washer P6x12x03	023 540



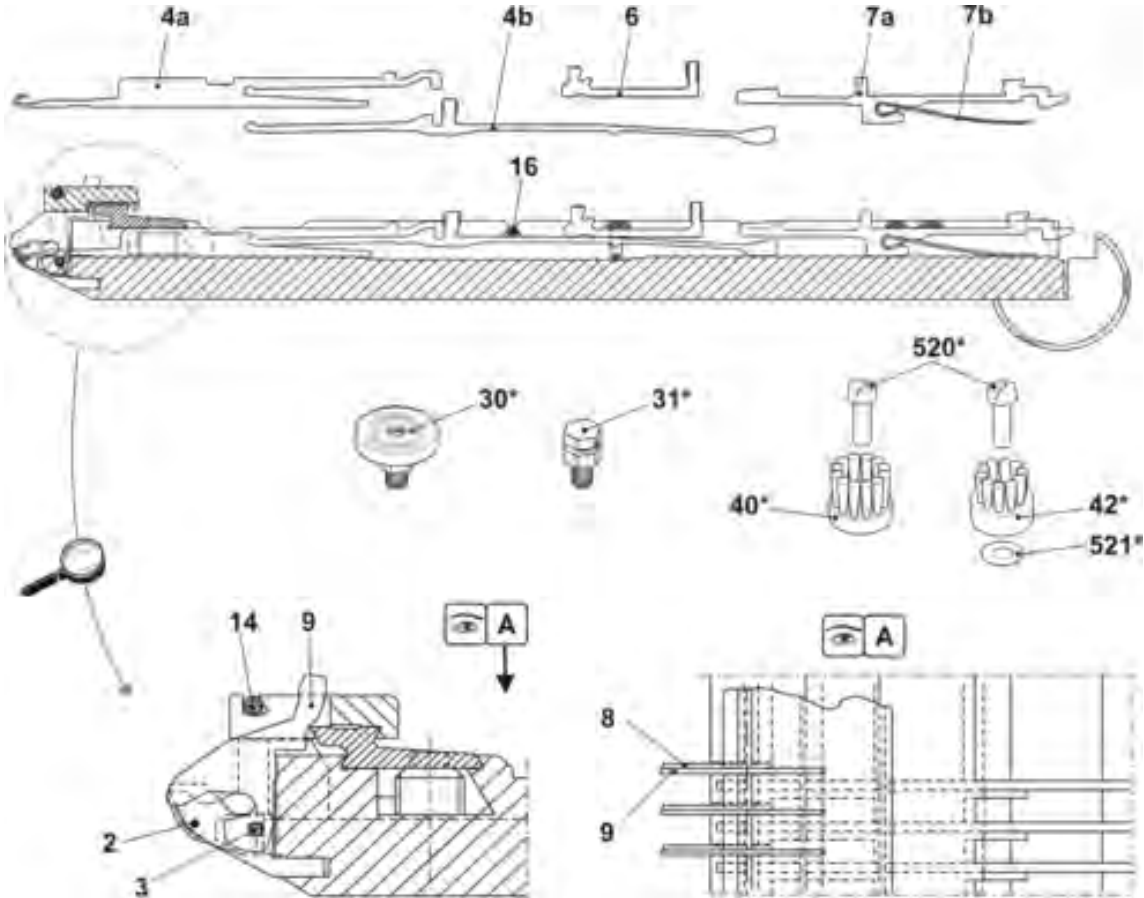
4.4 Needle bed E5m.4

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E5m.4	211 968		15	Support	206 352
1	Needle bed at the front rear E5	210 991		19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E5	211 038		500	Cap screw M5X10	022 918
5	Holding-down jack bed at the rear E5	211 045		502	Cap screw M6X25	020 137
6	Limiter on the left E4-E8	205 343		503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344		504	Cap screw M5X22	023 193
8	Needle bar	205 311		506	Setscrew M6x12-45	022 400
9	Needle rail on the right	205 312		507	Sprung thrust piece B-M10	023 177
10	Needle bar	210 977		511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E5	210 982		512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978		513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980		514	Cap screw M5x8	023 379



4.4.1 Continuation needle bed E5m.4

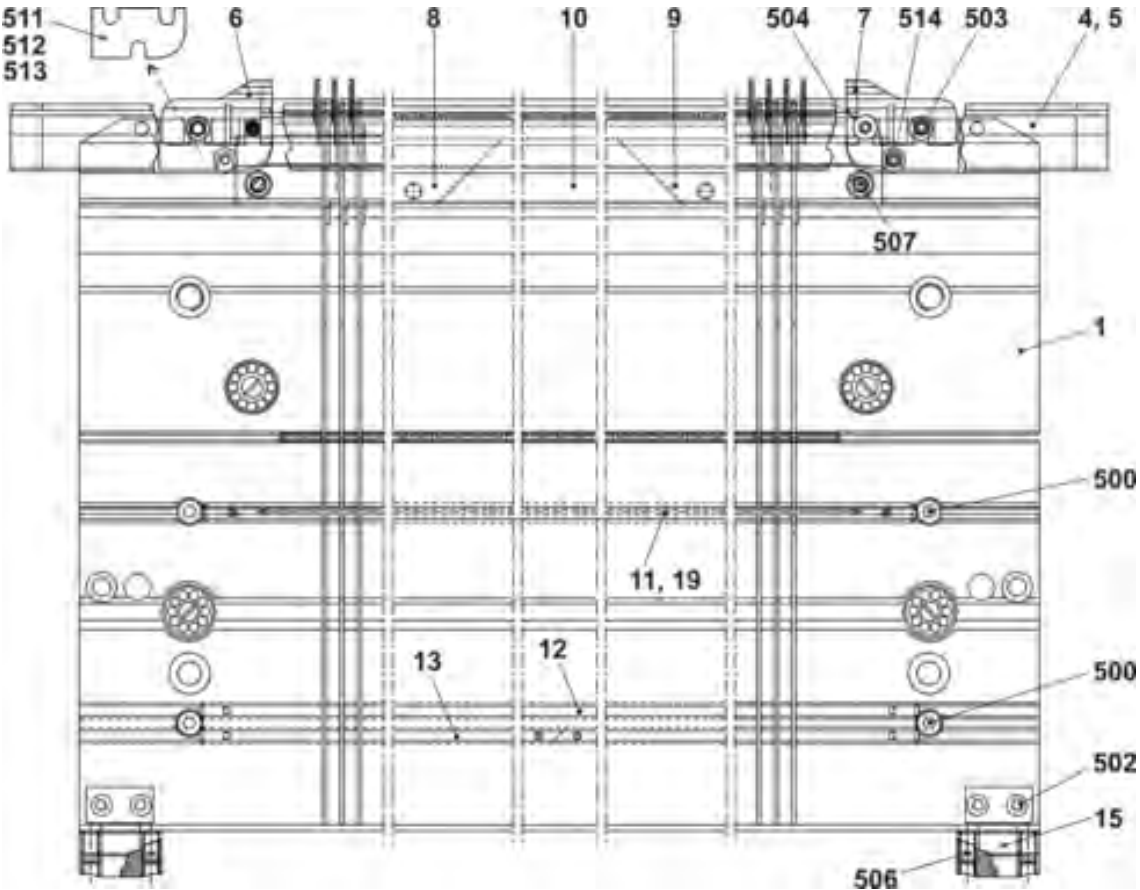
Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Needle bed complete at the front and rear E5m.4	211 968		9	Holding-down jack E5	205 031
2	Spring steel wire ø1.0	210 971		14	Fixed wire Ø2.8	210 974
3	Spring steel wire Ø2.0	210 972		16	Spring steel wire ø2.8	212 173
A4	Needle E2,5.2 + E3,5.2	232 581		30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682		31*	Set screw complete	207 712
6	Intermediate slider with brake E5-E8	237 323		40*	Disk brush	235 612
A7	Selection jack E4-8	200 687		42*	Disk brush	202 600
7b	Selector spring E4-8	200 690		520*	Cap screw M5x12	020 032
8	Knock-over bit E5	204 996		521*	Adjusting washer P6x12x03	023 540



4.5 Needle bed E7m.5

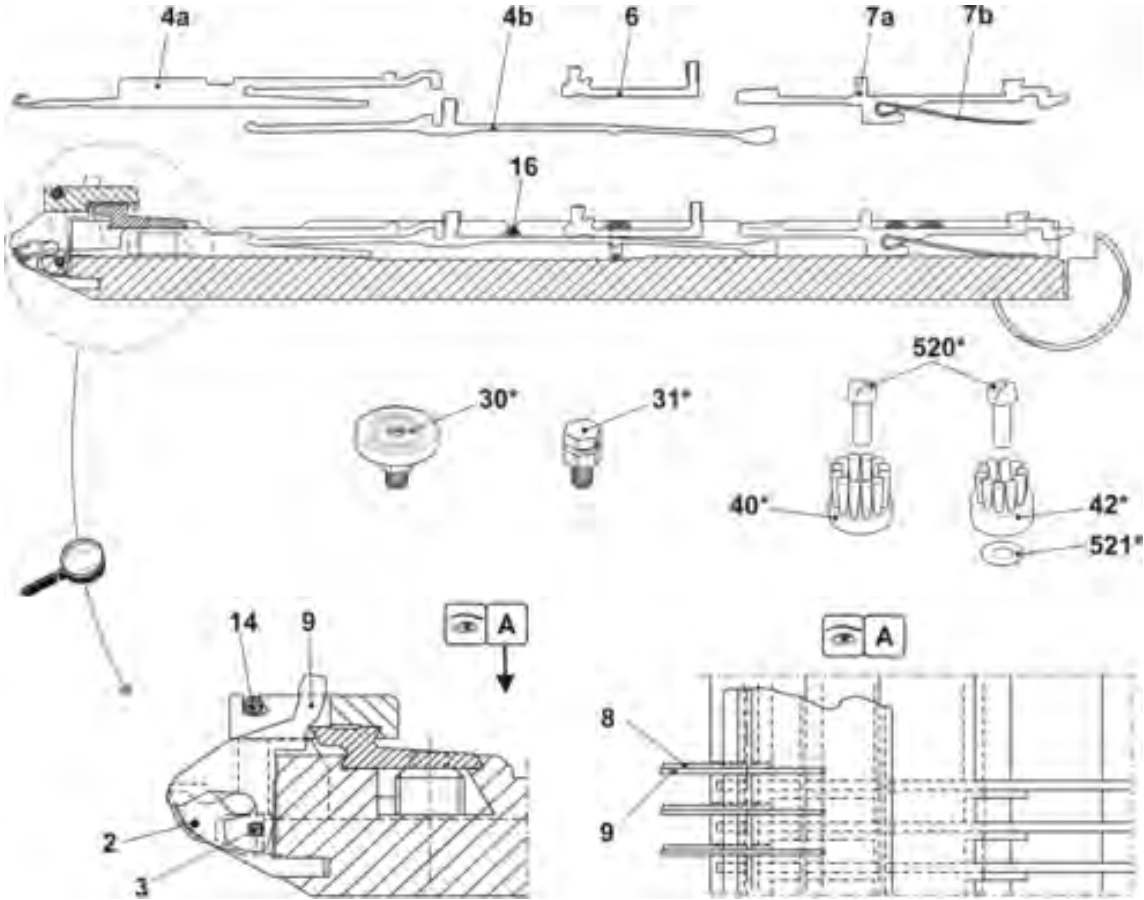
4.5 Needle bed E7m.5

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7m.5	210 433		15	Support	206 352
1	Needle bed at the front and rear E7	210 992		19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E7	211 039		500	Cap screw M5X10	022 918
5	Holding-down jack bed at the rear E7	211 046		502	Cap screw M6X25	020 137
6	Limiter on the left E4-E8	205 343		503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344		504	Cap screw M5X22	023 193
8	Needle bar	205 311		506	Setscrew M6x12-45	022 400
9	Needle rail on the right	205 312		507	Sprung thrust piece B-M10	023 177
10	Needle bar	210 977		511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E7	210 983		512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978		513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980		514	Cap screw M5x8	023 379



4.5.1 Continuation needle bed E7m.5

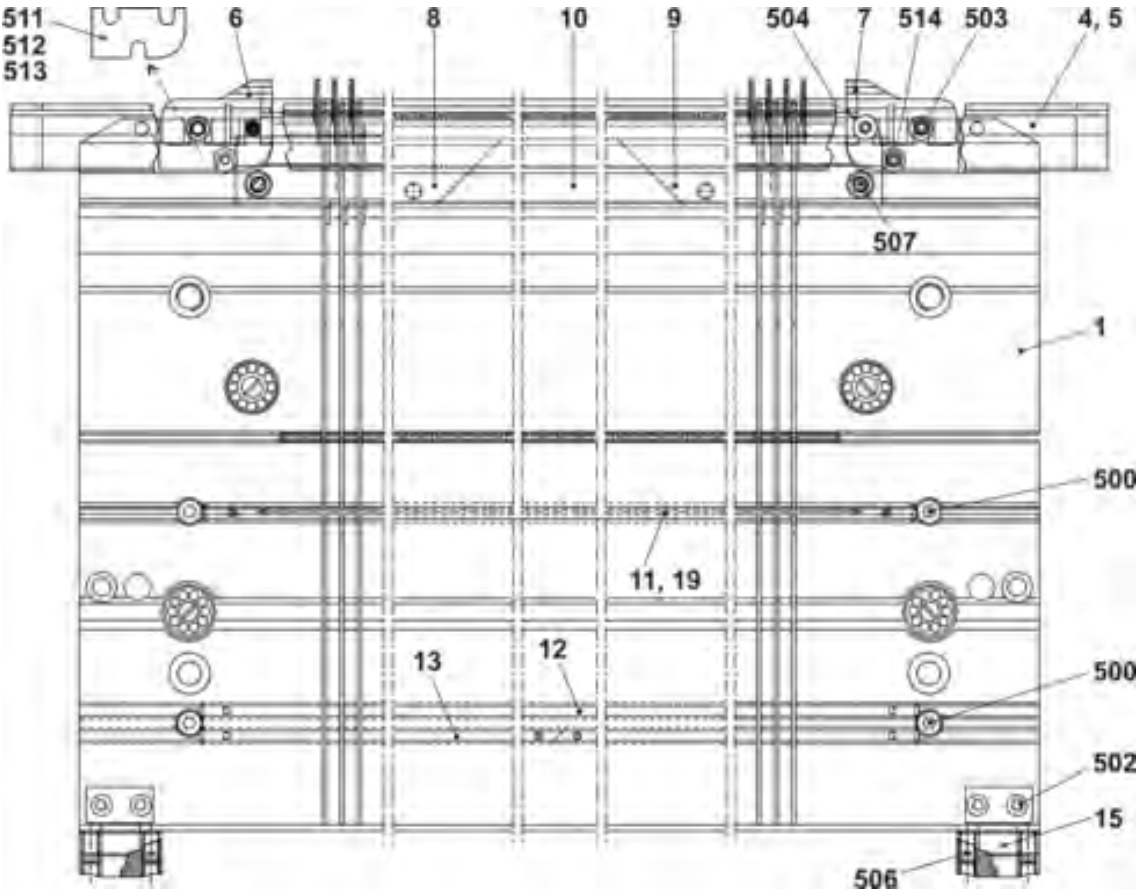
Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Needle bed complete at the front + rear E7m.5	210 433		9	Holding-down jack E7	205 032
2	Spring steel wire ø0.8	210 970		14	Fixed wire Ø2.8	210 974
3	Spring steel wire Ø2.0	210 972		16	Spring steel wire ø2.8	212 173
A4	Needle E5-6 with round hook	205 396		30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682		31*	Set screw complete	207 712
6	Intermediate slider with brake E5-E8	237 323		40*	Disk brush	235 612
A7	Selection jack E4-8	200 687		42*	Disk brush	202 600
7b	Selector spring E4-8	200 690		520*	Cap screw M5x12	020 032
8	Knock-over bit E7	207 055		521*	Adjusting washer P6x12x03	023 540



4.6 Needle bed E7m.8

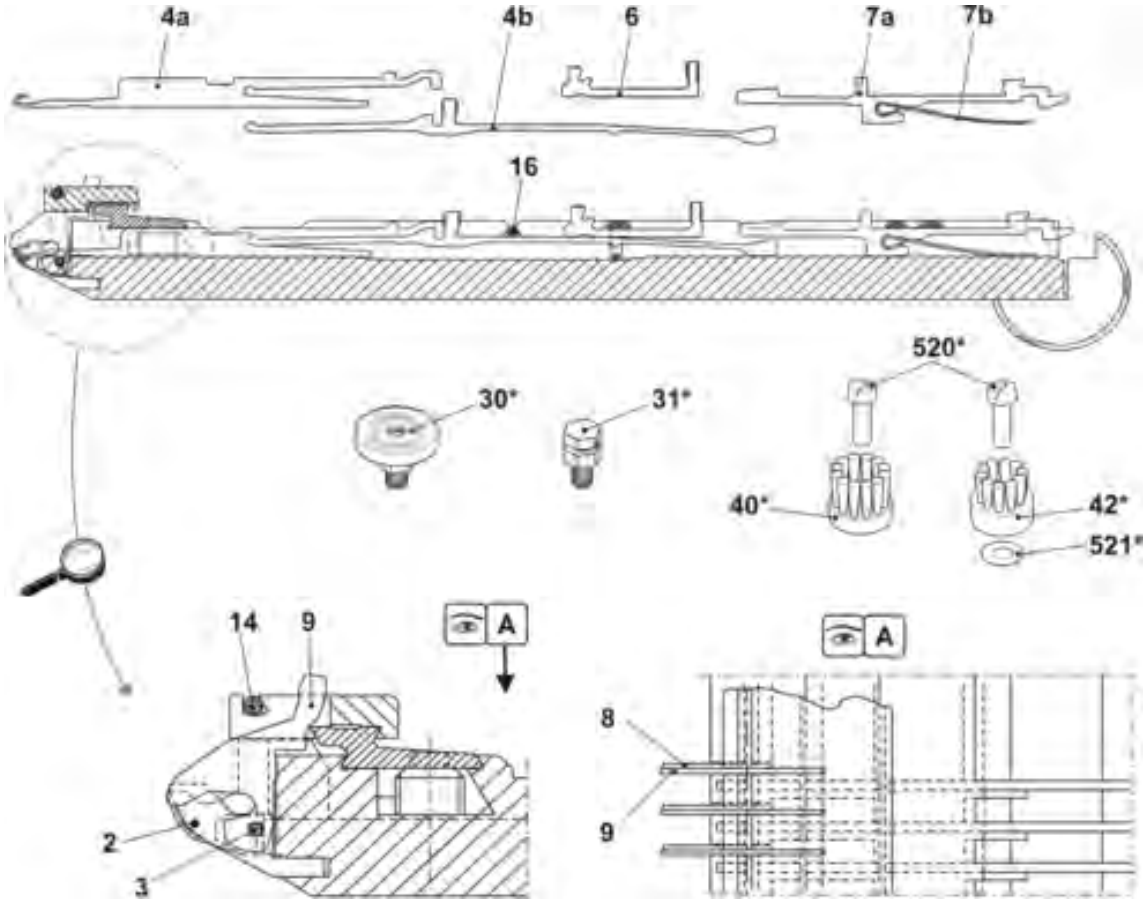
4.6 Needle bed E7m.8

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7m.8	210 434		15	Support	206 352
1	Needle bed at the front and rear E7	210 992		19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E7	211 039		500	Cap screw M5X10	022 918
5	Holding-down jack bed at the rear E7	211 046		502	Cap screw M6X25	020 137
6	Limiter on the left E4-E8	205 343		503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344		504	Cap screw M5X22	023 193
8	Needle bar	205 311		506	Setscrew M6x12-45	022 400
9	Needle rail on the right	205 312		507	Sprung thrust piece B-M10	023 177
10	Needle bar	210 977		511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E7	210 983		512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978		513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980		514	Cap screw M5x8	023 379



4.6.1 Continuation needle bed E7m.8

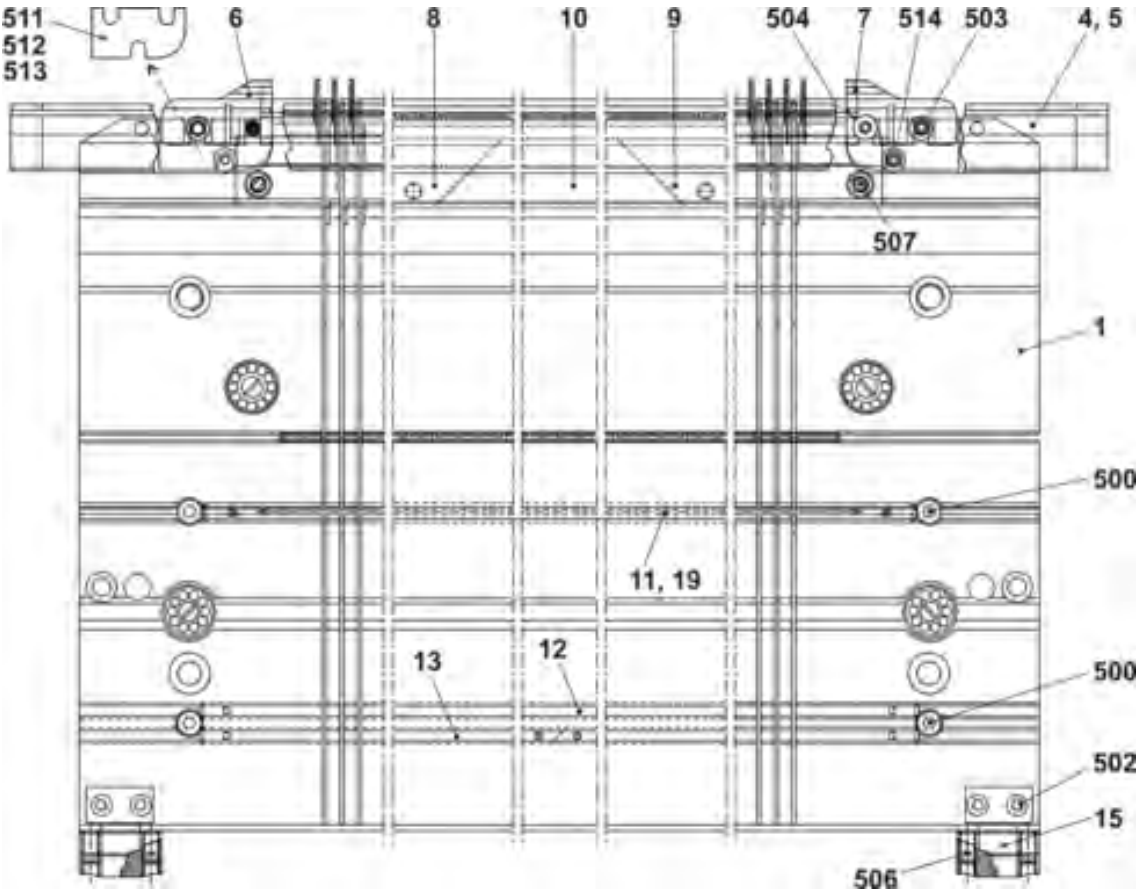
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7m.8	210 434		9	Holding-down jack E7	205 032
2	Spring steel wire ø0.8	210 970		14	Fixed wire Ø2.8	210 974
3	Spring steel wire ø 2.0	210 972		16	Spring steel wire ø2.8	212 173
4a	Needle E8 with round hook	208 745		30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682		31*	Set screw complete	207 712
6	Intermediate slider with brake E5-8	237 323		40*	Disk brush	235 612
7a	Selection jack E4-8	200 687		42*	Disk brush	202 600
7b	Selector spring E4-8	200 690		520*	Cap screw M5x12	020 032
8	Knock-over bit E7	207 055		521*	Adjusting washer P6x12x03	023 540



4.7 Needle bed E8m.7

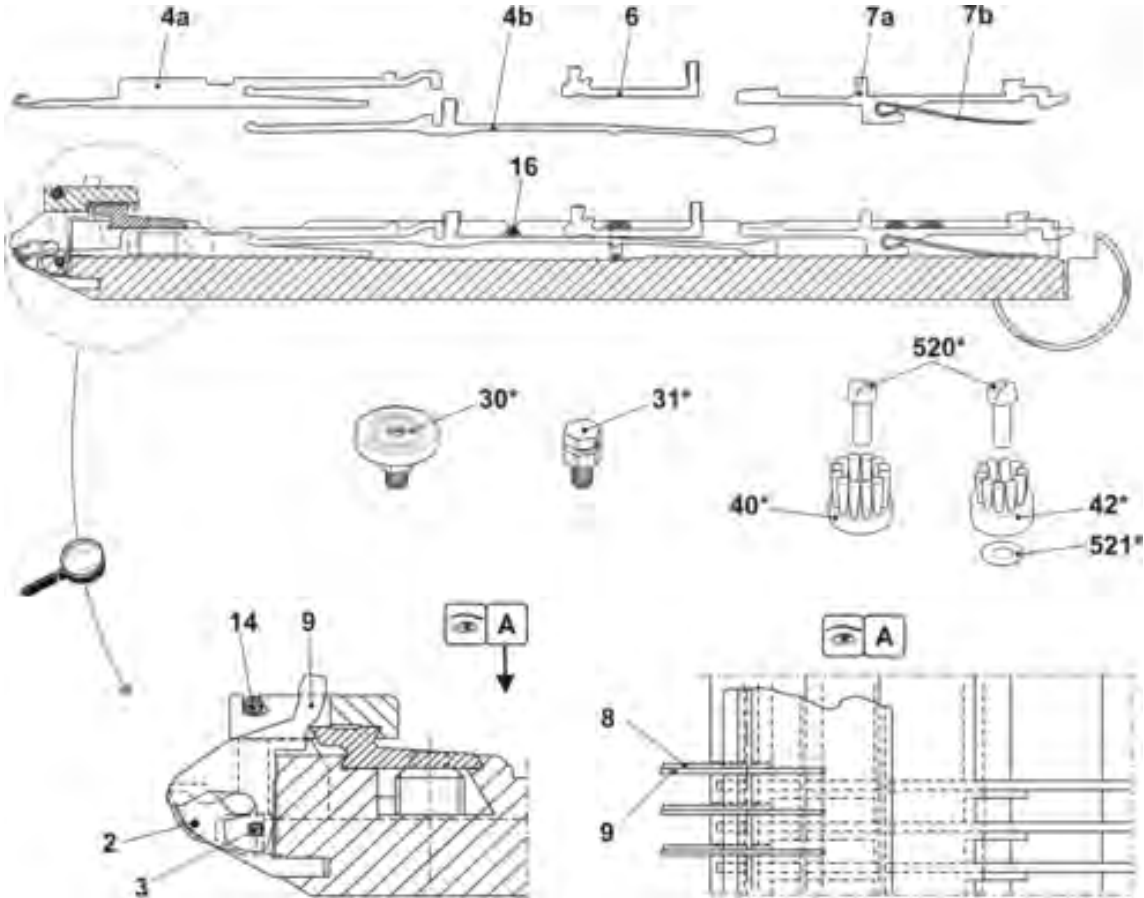
4.7 Needle bed E8m.7

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E8m.7	210 435		15	Support	206 352
1	Needle bed at the front rear E8	210 993		19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E8	211 040		500	Cap screw M5X10	022 918
5	Holding-down jack bed at the rear E8	211 047		502	Cap screw M6X25	020 137
6	Limiter on the left E4-E8	205 343		503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344		504	Cap screw M5X22	023 193
8	Needle bar	205 311		506	Setscrew M6x12-45	022 400
9	Needle rail on the right	205 312		507	Sprung thrust piece B-M10	023 177
10	Needle bar	210 977		511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E8	210 984		512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978		513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980		514	Cap screw M5x8	023 379



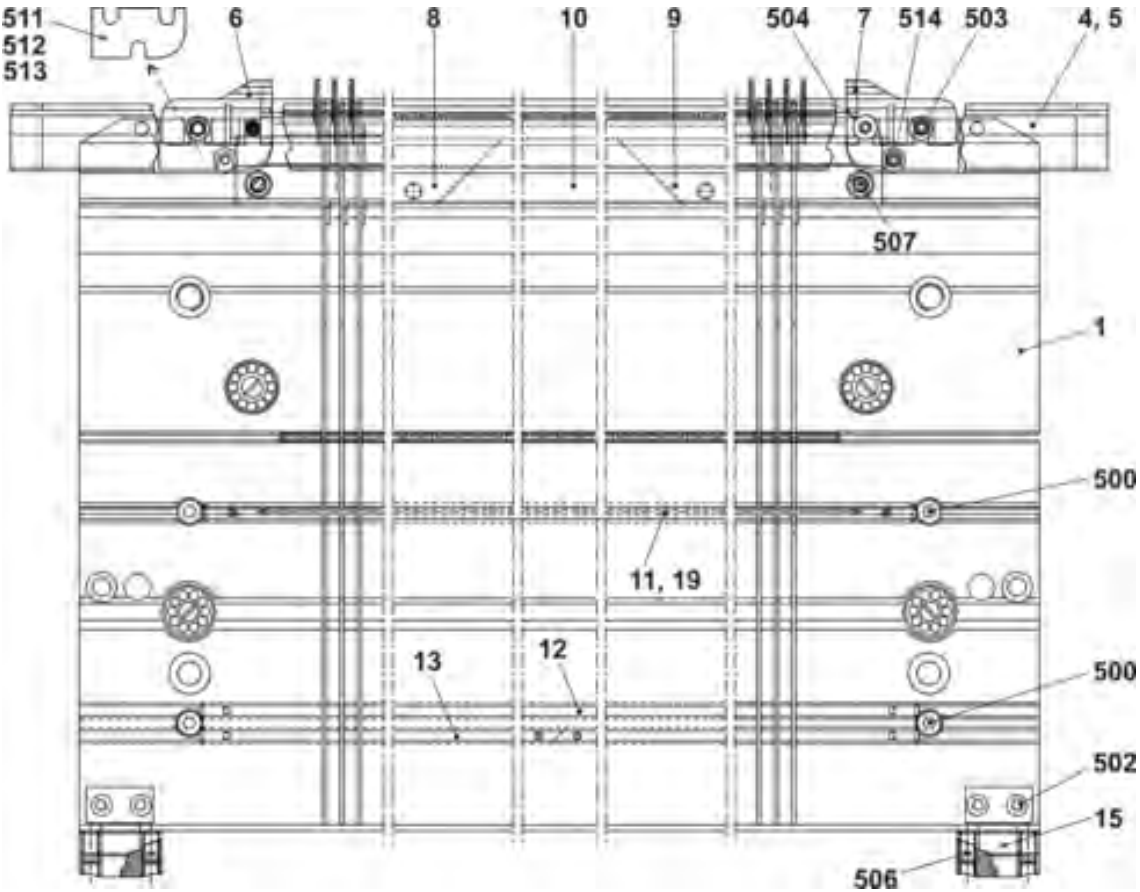
4.7.1 Continuation needle bed E8m.7

Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Needle bed complete at the front and rear E8m.7	210 435		9	Holding-down jack E8	205 028
2	Spring steel wire ø0.8	210 970		14	Fixed wire Ø2.8	210 974
3	Spring steel wire Ø2.0	210 972		16	Spring steel wire ø2.8	212 173
A4	Needle E7 with round hook	205 397		30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682		31*	Set screw complete	207 712
6	Intermediate slider with brake E5-E8	237 323		40*	Disk brush	235 612
A7	Selection jack E4-8	200 687		42*	Disk brush	202 600
7b	Selector spring E4-8	200 690		520*	Cap screw M5x12	020 032
8	Knock-over bit E8	207 054		521*	Adjusting washer P6x12x03	023 540



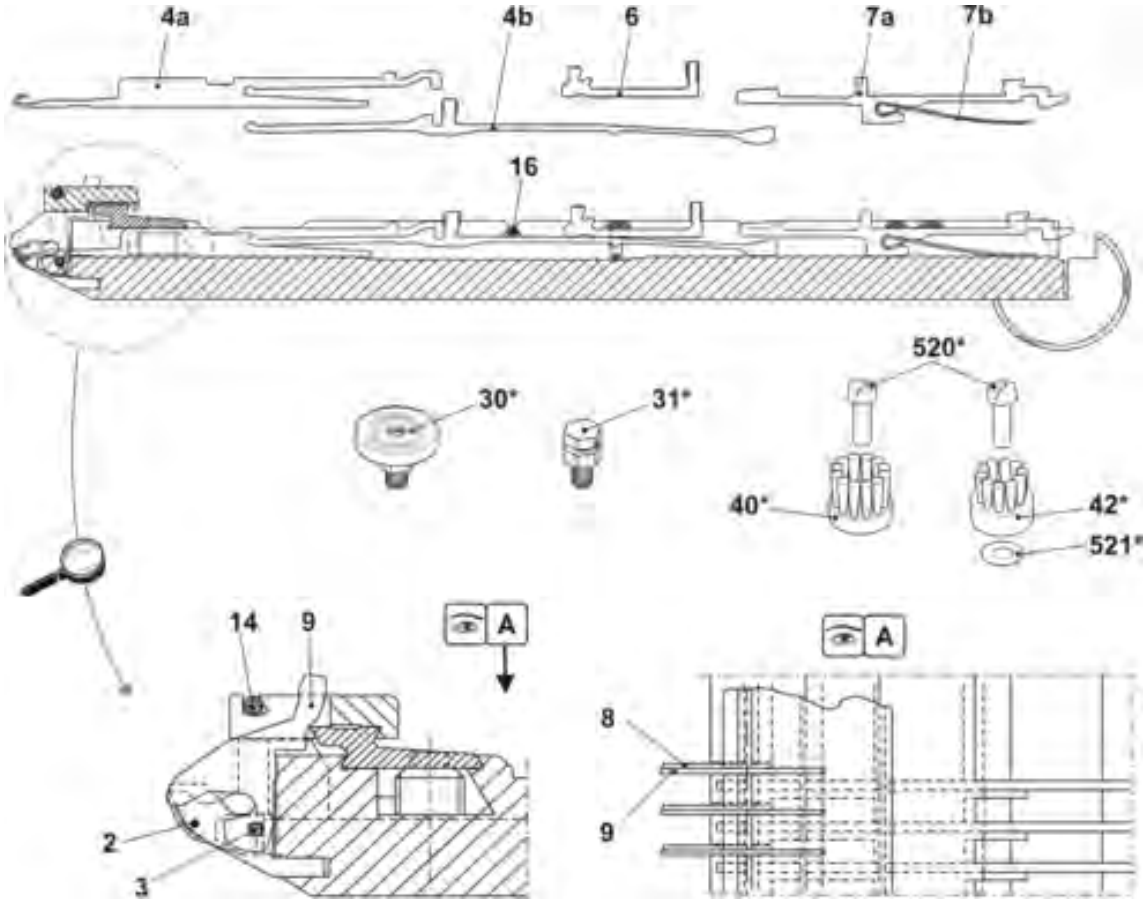
4.8 Needle bed E2,5.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E3,5.2	244 613		15	Support	206 352
1	Needle bed at the front and rear E7	210 992		19	Cover rail at the rear	210 979
4	Holding-down jack bed at the front E3,5.2 MG	240 174		500	Cap screw M5X10	022 918
5	Holding-down jack bed at the rear E2,5.2	240 175		502	Cap screw M6X25	020 137
6	Limiter on the left E4-E8	205 343		503	Cap screw M5x8-8.8	023 154
7	Limiter on the right E4-8	205 344		504	Cap screw M5X22	023 193
8	Needle bar	205 311		506	Setscrew M6x12-45	022 400
9	Needle rail on the right	205 312		507	Sprung thrust piece B-M10	023 177
10	Needle bar	210 977		511	Shim 0.05x18.5x34	023 196
11	Cover rail at the front E7	210 983		512	Shim 0.1x18.5x34	023 197
12	Cover rail	210 978		513	Shim 0.2x18.5x34	023 253
13	Cover rail	210 980		514	Cap screw M5x8	023 379



4.8.1 Continuation needle bed E3,5.2

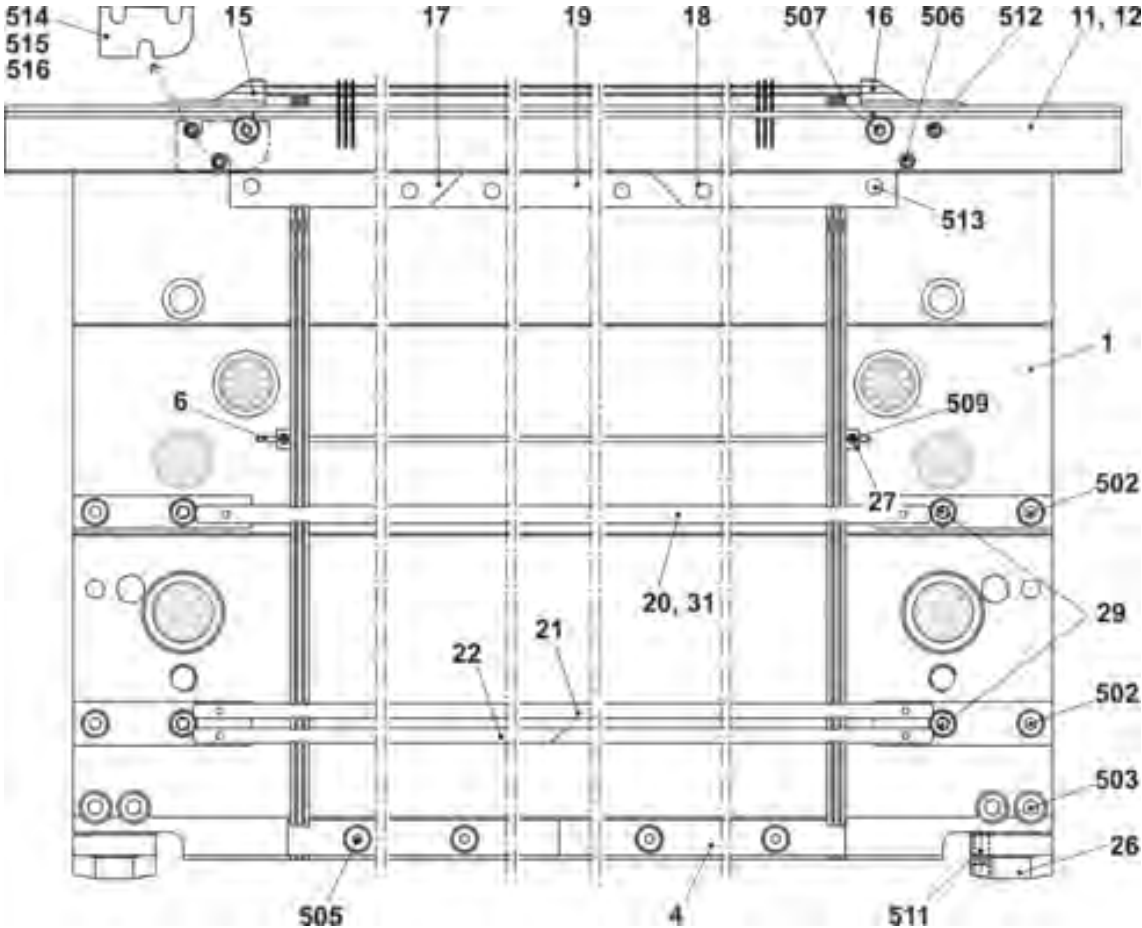
Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Needle bed complete at the front and rear E7	244 613		9	Holding-down jack E7	205 032
2	Spring steel wire ø0.8	210 970		14	Fixed wire Ø2.8	210 974
3	Spring steel wire Ø2.0	210 972		16	Spring steel wire ø2.8	212 173
A4	Needle E2,5.2 + E3,5.2	232 581		30*	Adjusting piece	206 375
4b	Coupling part E4-8	200 682		31*	Set screw complete	207 712
6	Intermediate slider with brake E5-E8	237 323		40*	Disk brush	235 612
A7	Selection jack E4-8	200 687		42*	Disk brush	202 600
7b	Selector spring E4-8	200 690		520*	Cap screw M5x12	020 032
8	Knock-over bit E7	207 055		521*	Adjusting washer P6x12x03	023 540



4.9 Needle bed E5.2

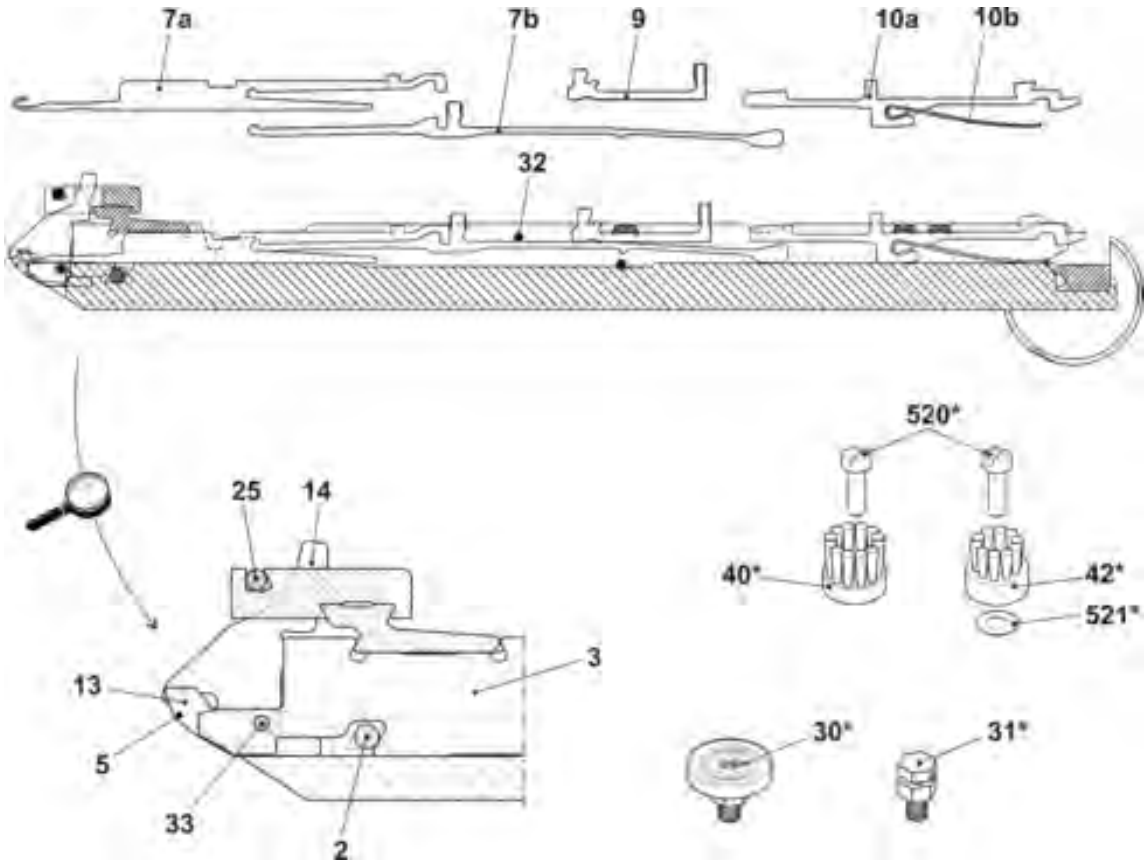
4.9 Needle bed E5.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front + rear E7.2	244 611		27	Bush	206 090
1	Needle bed at the front and rear E5.2	244 532		29	Cap screw 5x12	209 484
4	Pressure bar	211 009		31	Cover rail at the rear	210 979
6	Spring steel wire ø 2.0	210 972		502	Cap screw M5x12	020 132
11	Holding-down jack bed at the front E5.2	244 526		503	Cap screw M6X14	022 658
12	Holding-down jack bed at the rear E5.2	244 527		505	Cap screw M5x8	023 379
15	Limiters on the left E4-E8	205 343		506	Cap screw M5x12-8.8	022 943
16	Limiters on the right E4-E8	205 344		507	Cap screw M5X22	023 193
17	Needle rail on the left	205 311		509	Set screw M3,5x3-1	020 512
18	Needle rail on the right	205 312		511	Setscrew M6x12-45	022 400
19	Needle bar	210 977		512	Cap screw M5x8-8.8 M	023 154
20	Cover rail at the front E10	210 985		513	Sprung thrust piece B-M10	023 177
21	Cover rail	210 978		514	Shim 0.05x18.5x34	023 196
22	Cover rail	210 980		515	Shim 0.1x18.5x34	023 197
26	Support	206 352		516	Shim 0.2x18.5x34	023 253



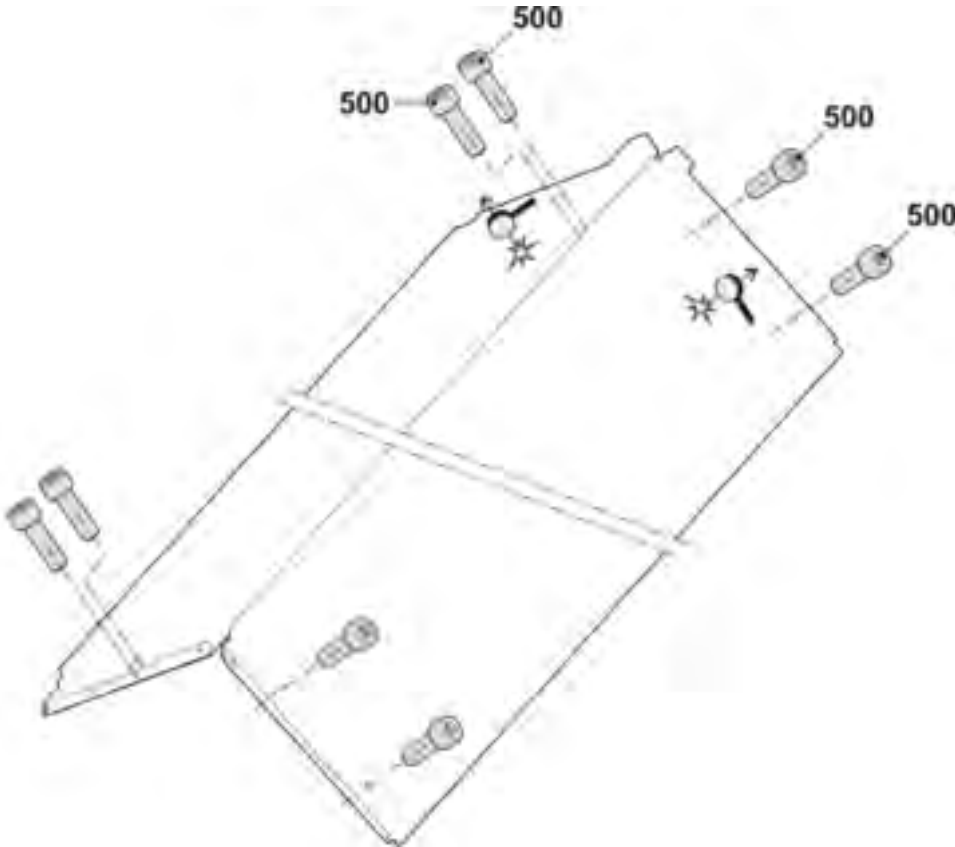
4.9.1 Continuation needle bed E5.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front + rear E7.2	244 611		14	Holding-down jack trick wall	227 716
2	Fixed wire ø3.4	210 975		25	Fixed wire Ø2.8	210 974
3	Main trick wall E5.2	219 171		32	Spring steel wire ø 2.0	210 973
5	Spring steel wire ø1.0	210 971		33	Spring steel wire ø1.95	212 184
7a	Needle E5.2	219 181		30*	Adjusting piece	206 375
7b	Coupling part E5.2	219 188		31*	Set screw complete	207 712
9	Intermediate slider with brake E5.2	236 030		40*	Disk brush	235 612
10a	Selection jack E6.2	219 214		42*	Disk brush	202 600
10b	Selector spring E5.2	219 265		520*	Cap screw M5x12	020 032
13	Knock-over bit E5.2	221 367		521*	Adjusting washer P6x12x03	023 540



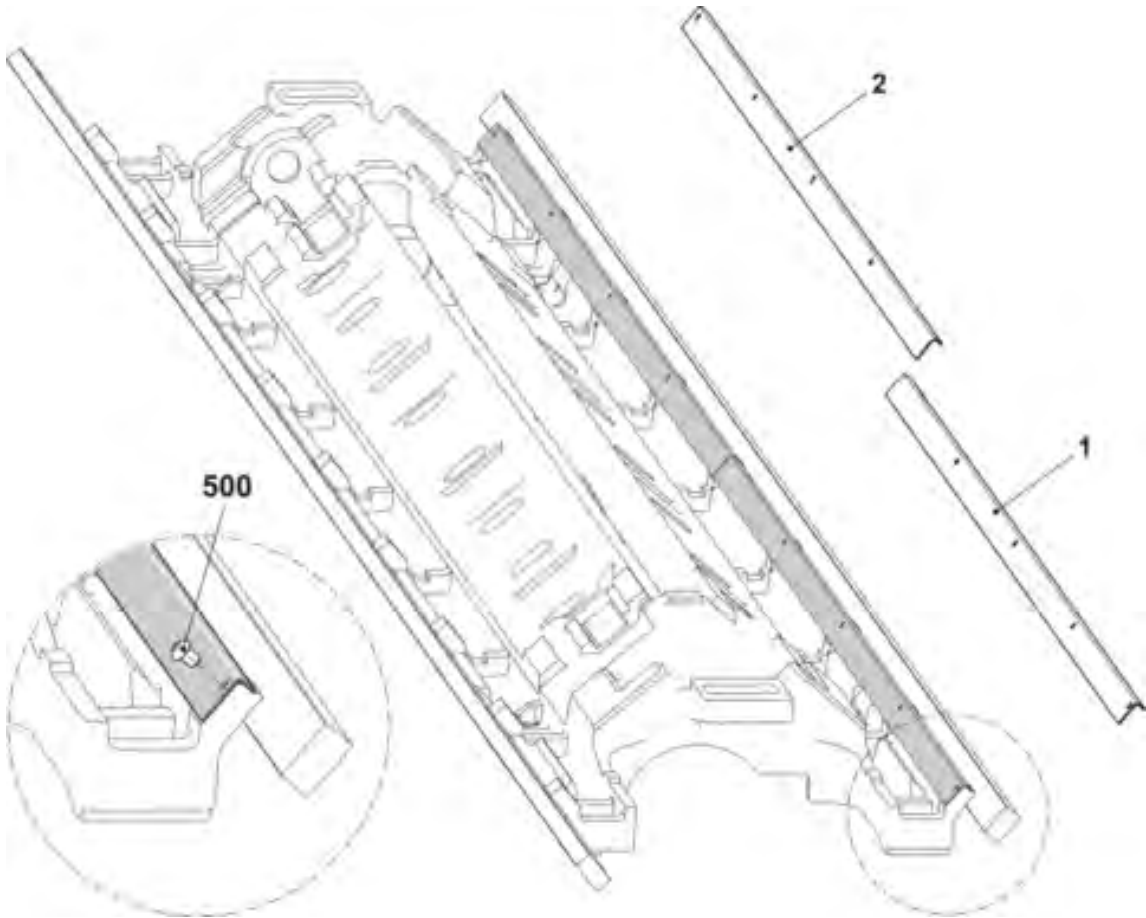
4.10 Needle beds, fixing elements

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed, fixing elements					
500	Cap screw M8x25	020 142				



4.11 Cover on the left and on the right

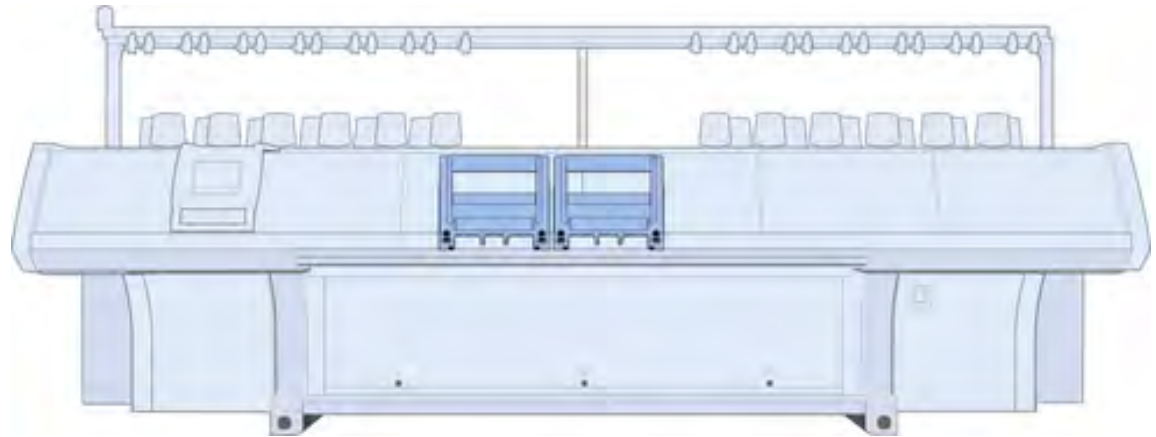
Pos	Designation	Id		Pos	Designation	Id
1	Cover on the left	242 253		500	Countersunk screw M8x10	241 930
2	Cover on the right	242 254				



4.11 Cover on the left and on the right

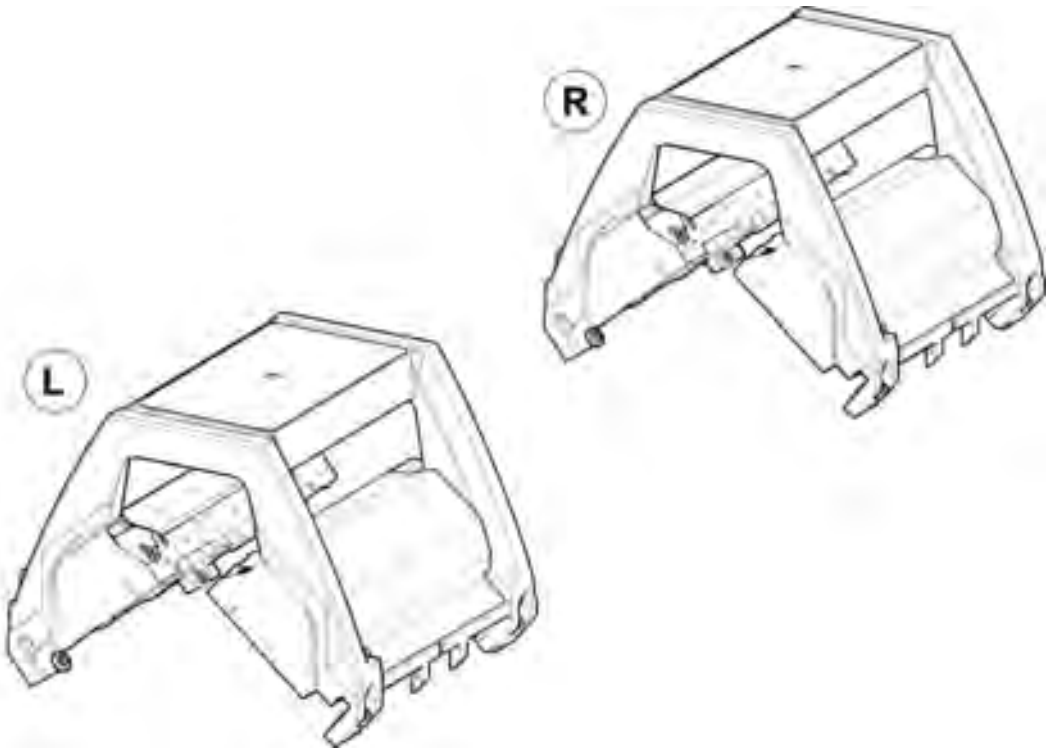
Notes:

5 Tandem carriage



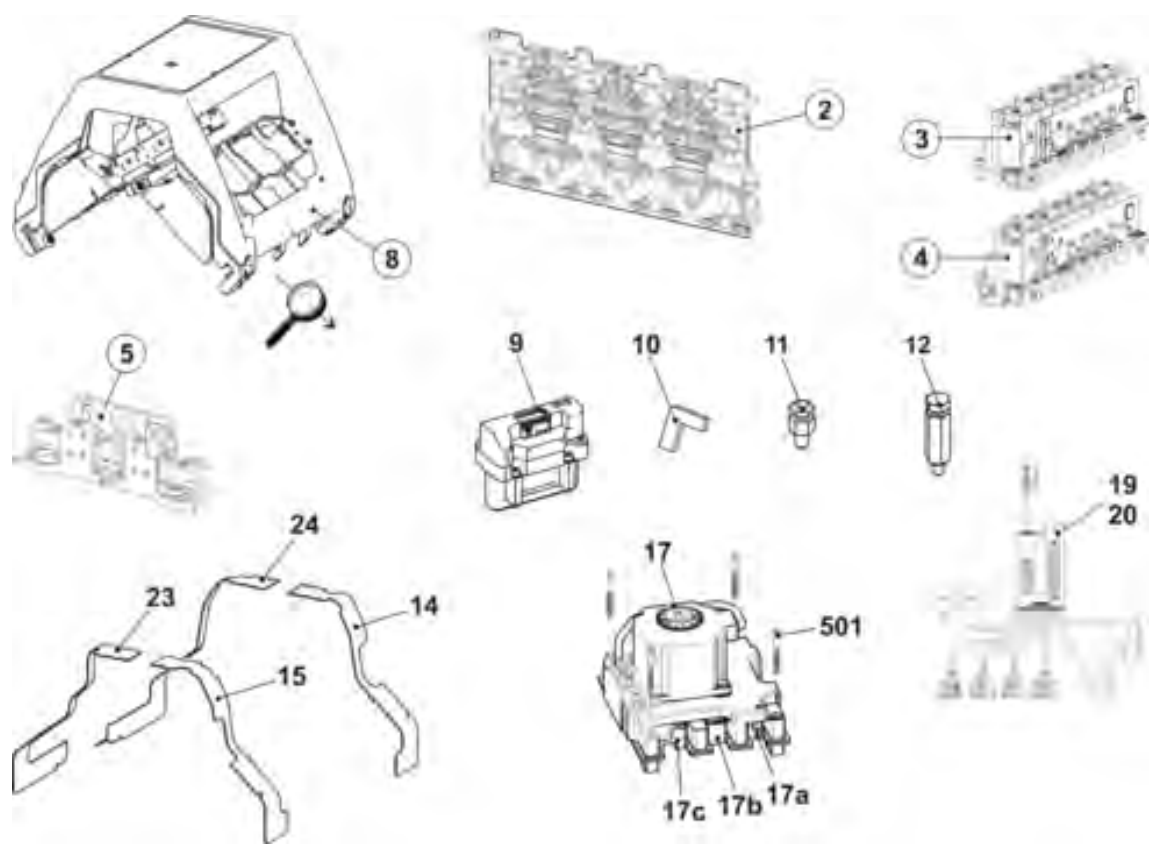
5.1 Complete Carriage

Pos	Designation	Id		Pos	Designation	Id
Σ L	Carriage left complete			Σ R	Carriage right complete	
	E5 E5m.4 E7m.5 E3,5.2	256 270			E5 E5m.4 E7m.5 E3,5.2	256 271
	E7 E8 E7m.8 E8m.7	256 272			E7 E8 E7m.8 E8m.7	256 273
	E5.2	256 274			E5.2	256 275



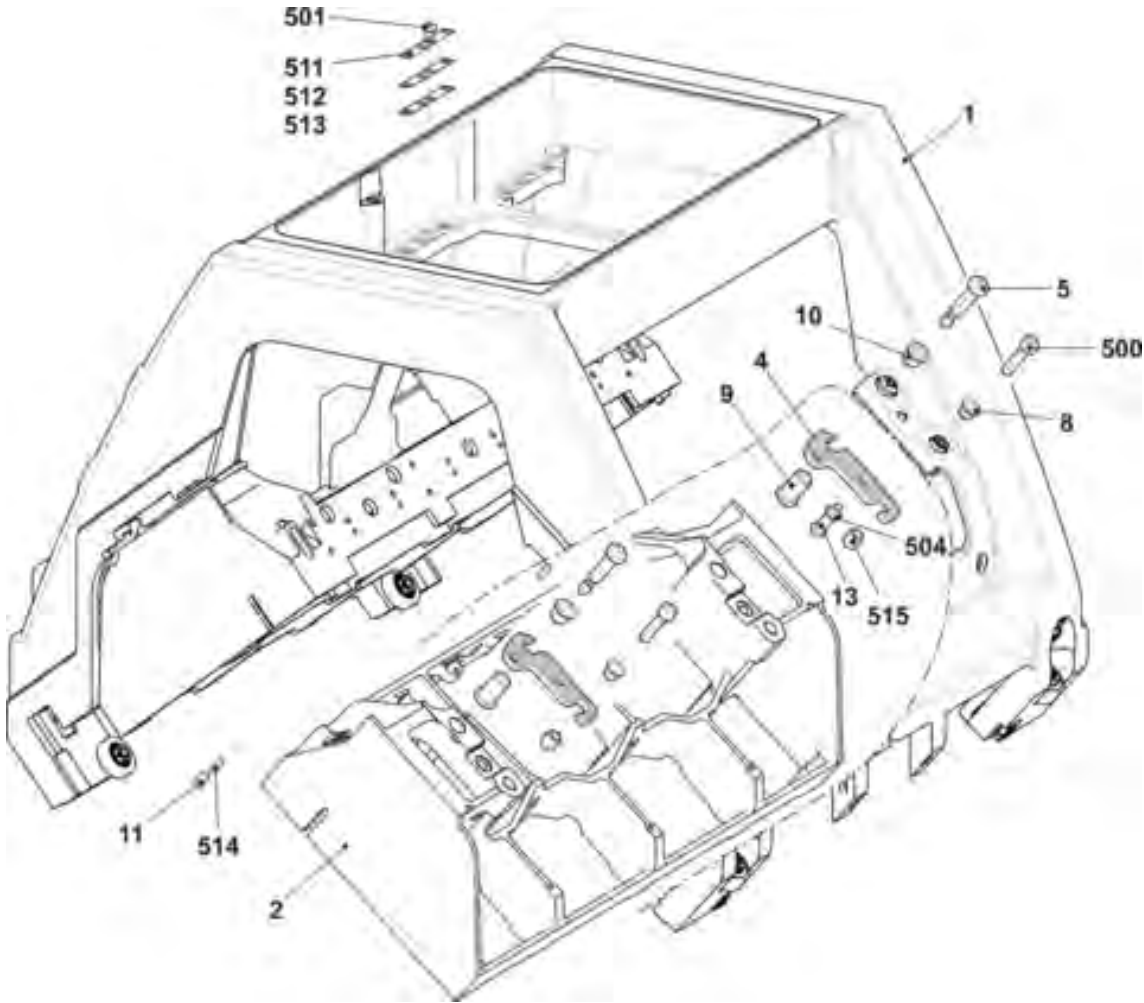
5.2 Overview of Carriage Parts

Pos	Designation	Id	Pos	Designation	Id
2	Cam box set complete		12	Bolt	243 171
	E5 E5m.4 E7m.5 E3,5.2 E5.2	244 467	14	Cover plate on the right	250 275
	E7 E8 E7m.8 E8m.7	243 883	15	Cover plate on the left	250 274
3	YC driving outside complete	245 297	17	Motor unit complete	253 531
4	YC driving in the middle complete	245 298	17a	Gear rack at the top	209 781
5	Holding-down jack control complete E5-8	241 515	17b	Gear rack in the middle	209 782
8	Carriage assembly 3 cam boxes on the left 6-Z 933	256 515	17c	Gear rack at the bottom	209 783
9	Carriage assembly 3 cam boxes on the right complete 6-Z 933	256 685	19	Distributor at the rear on the left 933	242 755
	Selection system complete E2 - E8 (E5 E7 E8 E5m.4 E7m.5 E3,5.2 E7m.8 E8m.7)	216 218	20	Distributor at the front on the left 933	242 756
	Selection system complete E10-12 (E5.2)	216 219	23	Guide plate at the rear on the left	245 323
10	Wiper felt	241 411	24	Guide plate at the rear on the right	245 324
11	Bolt	212 392	501	Screw M4x30	023 290



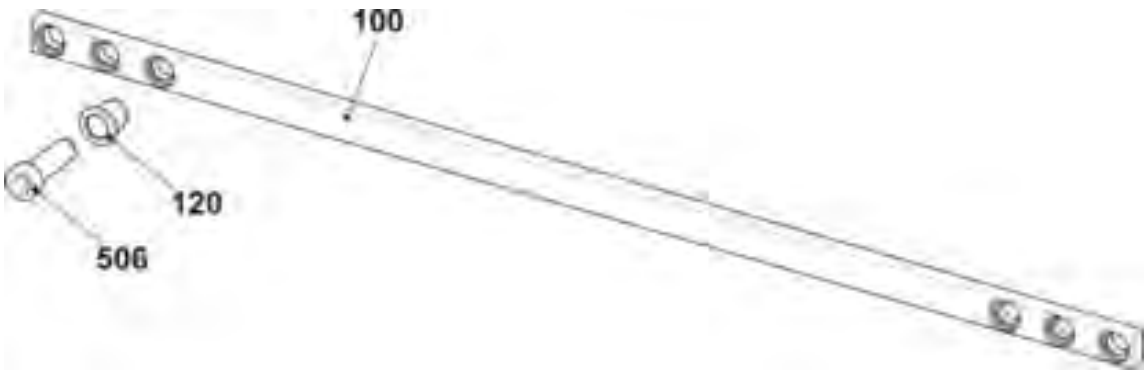
5.3 Carriage

Pos	Designation	Id		Pos	Designation	Id
Σ	Carriage assembly 3 cam boxes on the left complete 6-Z 933	256 515				
	Carriage assembly 3 cam boxes on the right complete 6-Z 933	256 685		13	Locating bolt linking spot	244 179
1	Carriage frame, 3 cam boxes 6-Z	256 503		501	Countersunk screw M6x10	023 183
2	Carriage part, 3 cam boxes	240 695		500	Cap screw M8x30	020 143
4	Shim	225 312		504	Circlip 6	021 022
5	Dowel screw	211 750		511	Shim 0,2x10x70	023 699
8	Bush	207 546		512	Shim 0,1x10x70	023 698
9	Bush	209 275		513	Shim 0,05x10x70	023 697
10	Bush	209 274		514	Setting pin 5x14	020 670
11	Eccentric	222 983		515	Threaded bushing M12x11.5	041 863



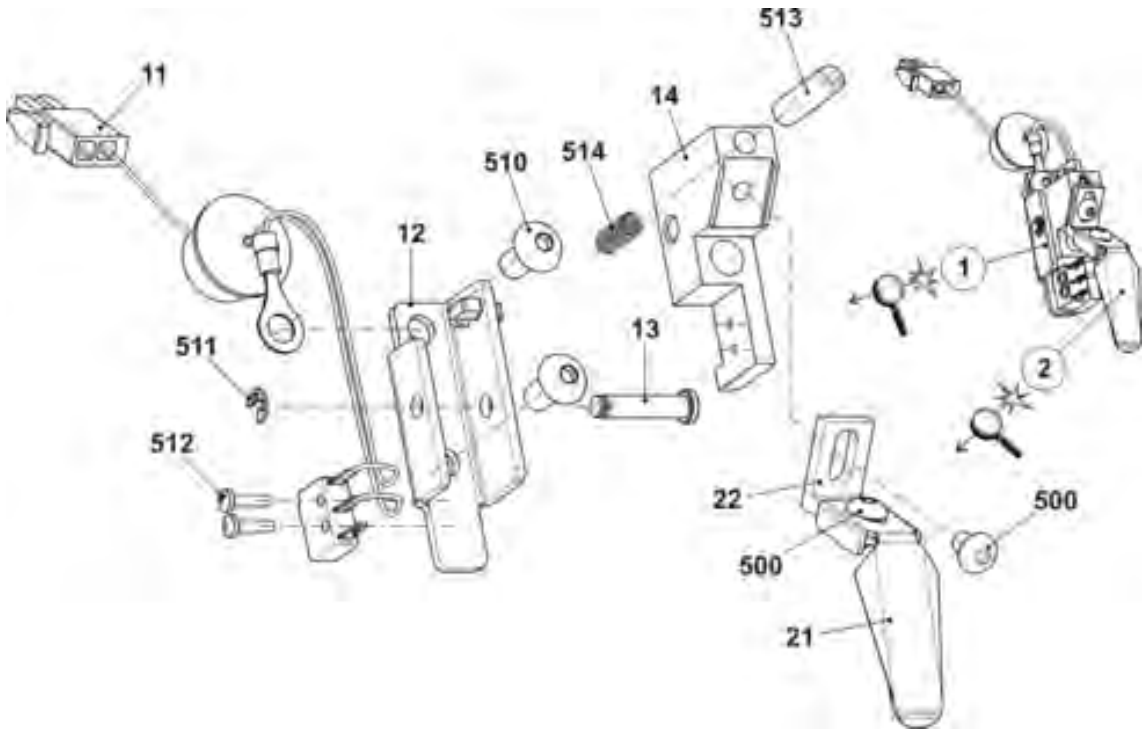
5.4 Carriage coupling

Pos	Designation	ID No.		Pos	Designation	ID No.
100	Connecting rod	225 128		506	Cap screw M16x45	023 366
120	Sleeve	225 600				



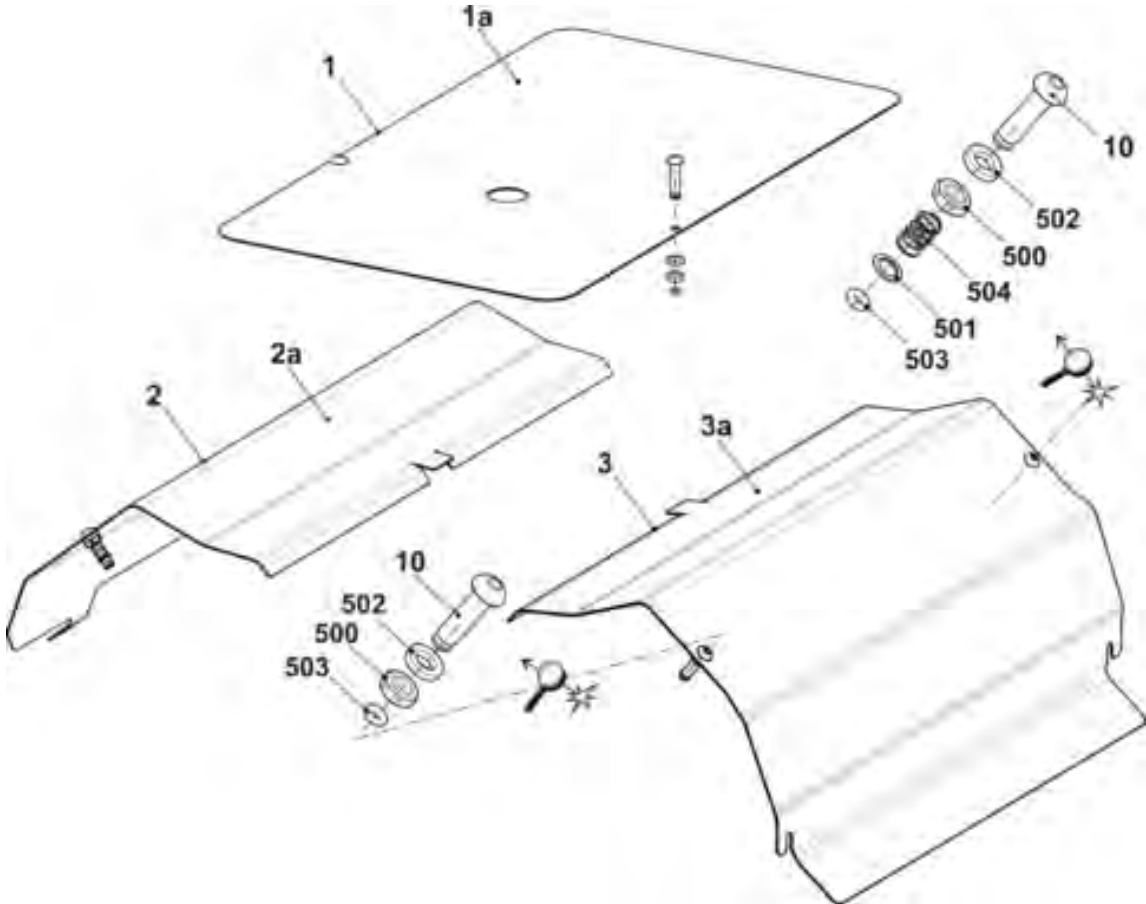
5.5 Needle detector

Pos	Designation		Id		Pos	Designation		Id
Σ	Needle detector		221 238		512	Countersunk screw M2x8		258 310
1	Needle detector pre-assembled		221 773		513	Setscrew M5x20		023 526
	11	Cable of needle detector complete	221 207		514	Compression spring 4.3x0.45x10		021 398
	12	Retainer	220 464		2	Sensor pre-assembled		221 758
	13	Bolts	258 390		21	Sensor		220 839
	14	Switch rocker	220 637		22	Angle		221 175
	510	Countersunk screw M5x10	023 247		500	Countersunk screw M4x6		023 427
	511	Circlip	021 018		500	Countersunk screw M4x6		023 427



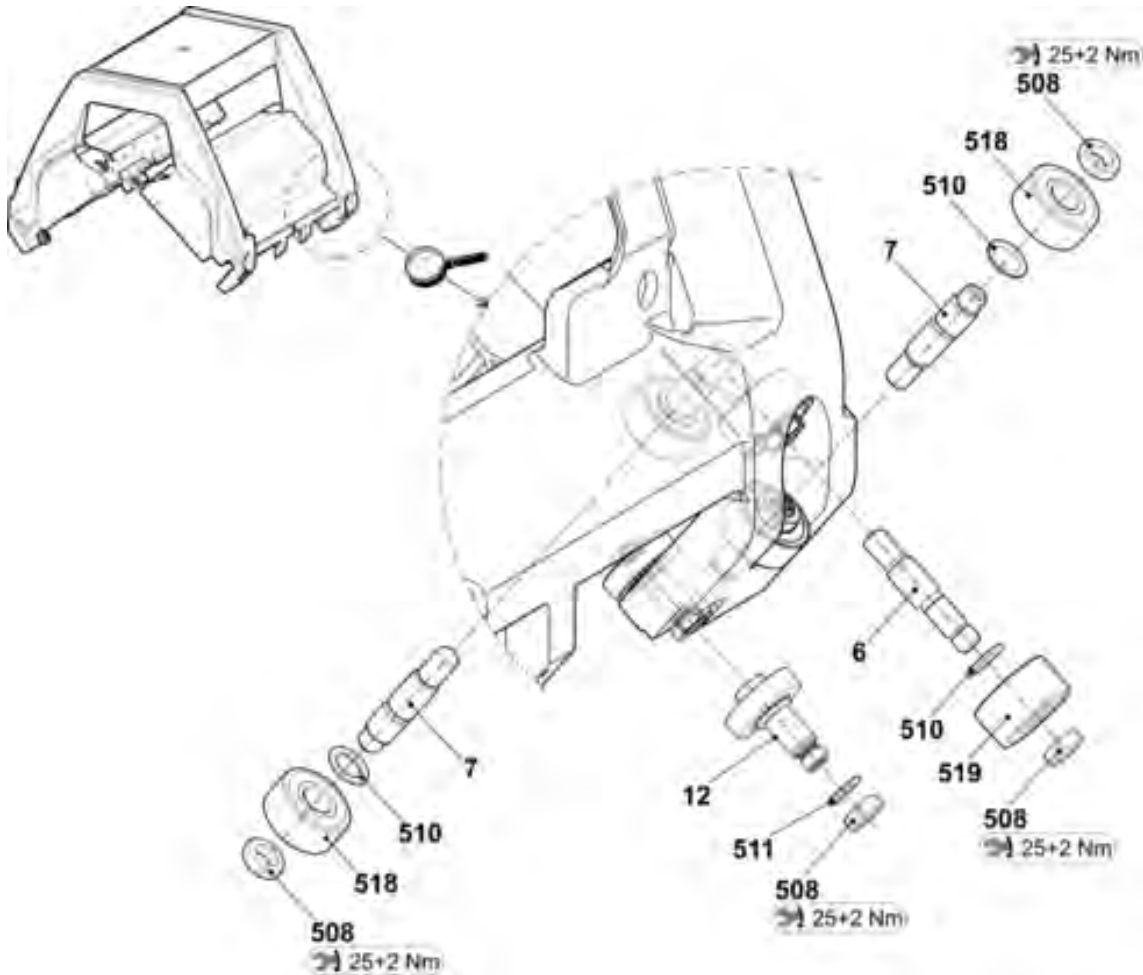
5.6 Carriage cover

Pos	Designation	Id	Pos	Designation	Id
1	Carriage cover at the top 3 cam boxes complete	257 100	10	Fixing bolt	242 382
	1a Carriage cover at the top 3 cam boxes	256 510	500	Hexagon nut M6	257 088
2	Carriage cover at the rear complete 3 cam boxes	257 428	501	U-washer 6.1x9x0,5	023 554
	2a Carriage cover at the rear 3 cam boxes	257 426	502	Serrated lock washer 6,4	022 385
3	Carriage cover front 3 cam boxes	257 427	503	O-ring 3x2	242 420
	3a Carriage cover front 3 cam boxes	257 425	504	Compression spring 0.48x7.02x17.29	023 654



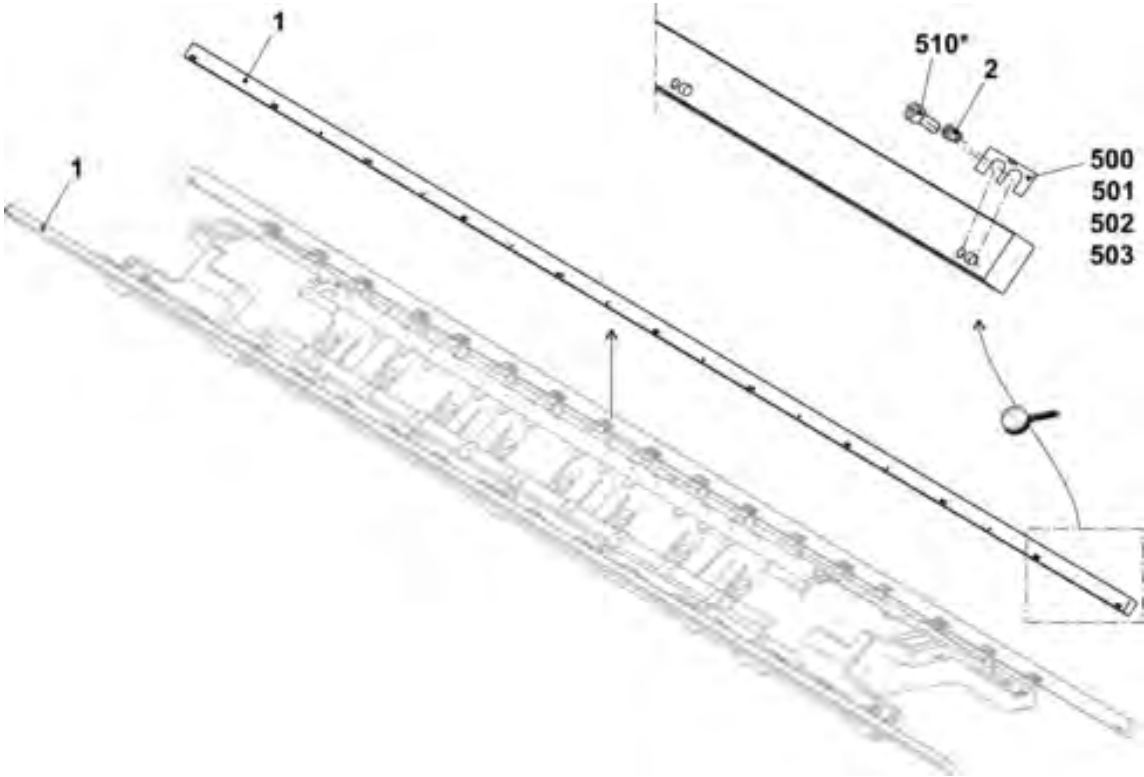
5.7 Carriage guide

Pos	Designation	Id		Pos	Designation	Id
6	Bearing bolt eccentric 0.3	242 060		510	Shim ring 12x18x1	023 315
7	Bearing bolt eccentric 0.3	240 624		511	Shim ring 4x8x1	023 260
12	Bolt pre-assembled	244 283		518	Grooved ball bearing 62300-2RS1	241 408
508	Nut M10	023 316		519	Grooved ball bearing 62300-2RS1	242 070



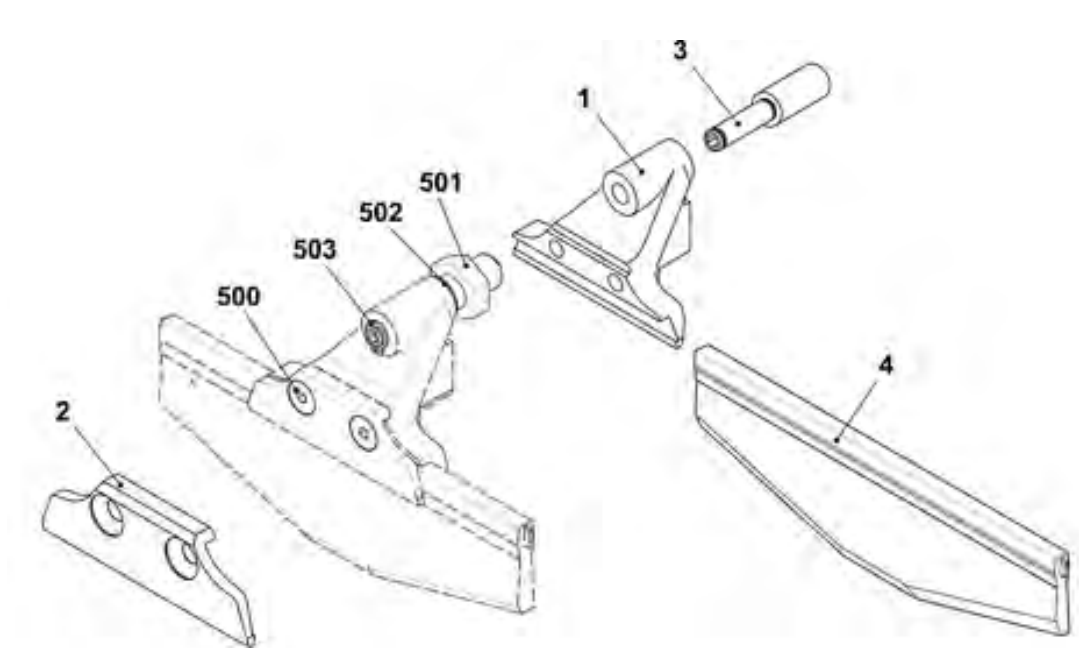
5.8 Spare parts package carriage guide bar

Pos	Designation	Id		Pos	Designation	Id
Σ	Spare parts package carriage guide bar 933	252 990		501	Shim 0,05x22x42	243 291
1	Carriage guide rail	242 051		502	Shim 0,10x22x42	243 292
2	Adjusting eccentric	241 219		503	Shim 0,20x22x42	243 293
500	Shim 0,03x22x42	243 289		510*	Cap screw M8x20	020 141



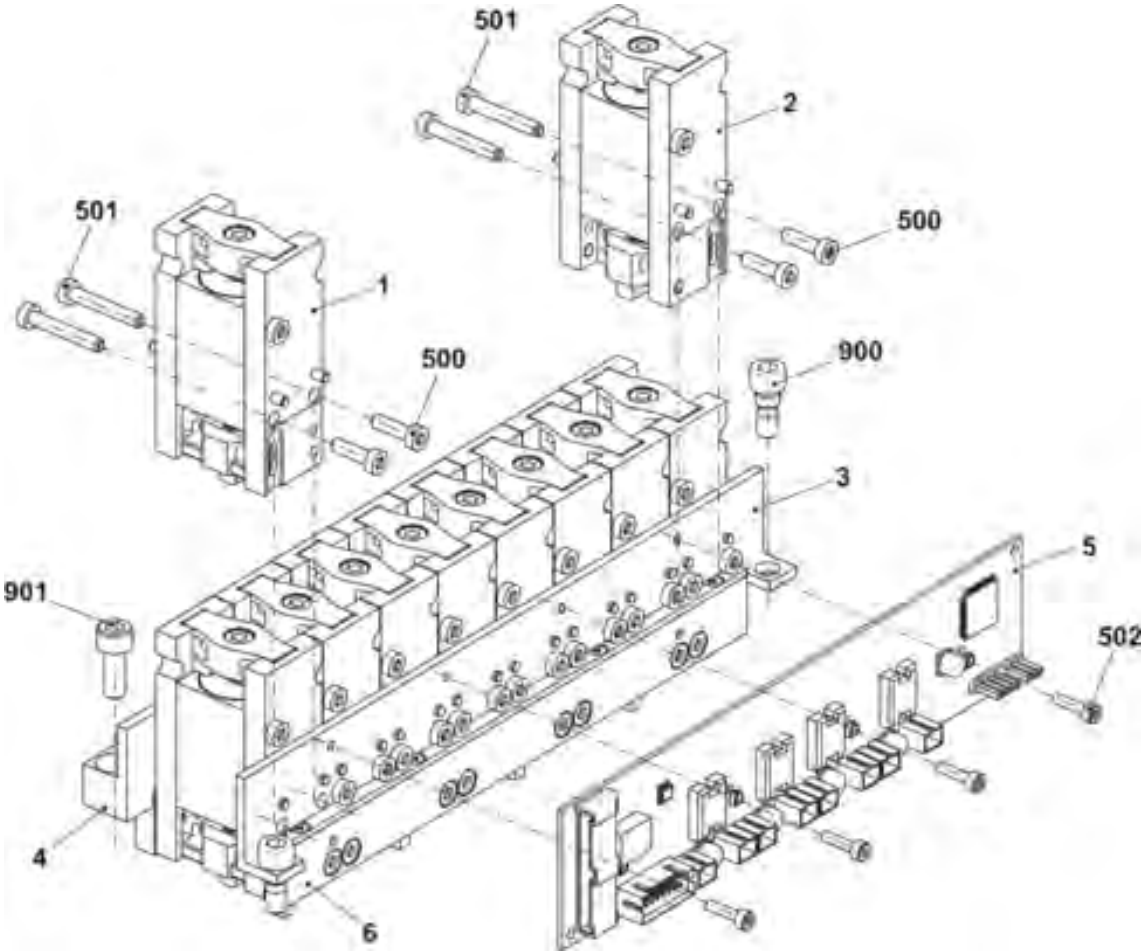
5.9 Brush holder

Pos	Designation	Id		Pos	Designation	Id
Σ	Brush holder complete (E5-8)	213 710				
1	Brush holder	213 009		500	Countersunk head screw M4x12	023 062
2	Brush clamp	213 010		501	Hexagon nut M8x5	023 750
3	Threaded rod	209 740		502	Adjusting washer 5x10x0.5	023 348
4	Brush	203 254		503	Locking ring 5x0.6	023 347



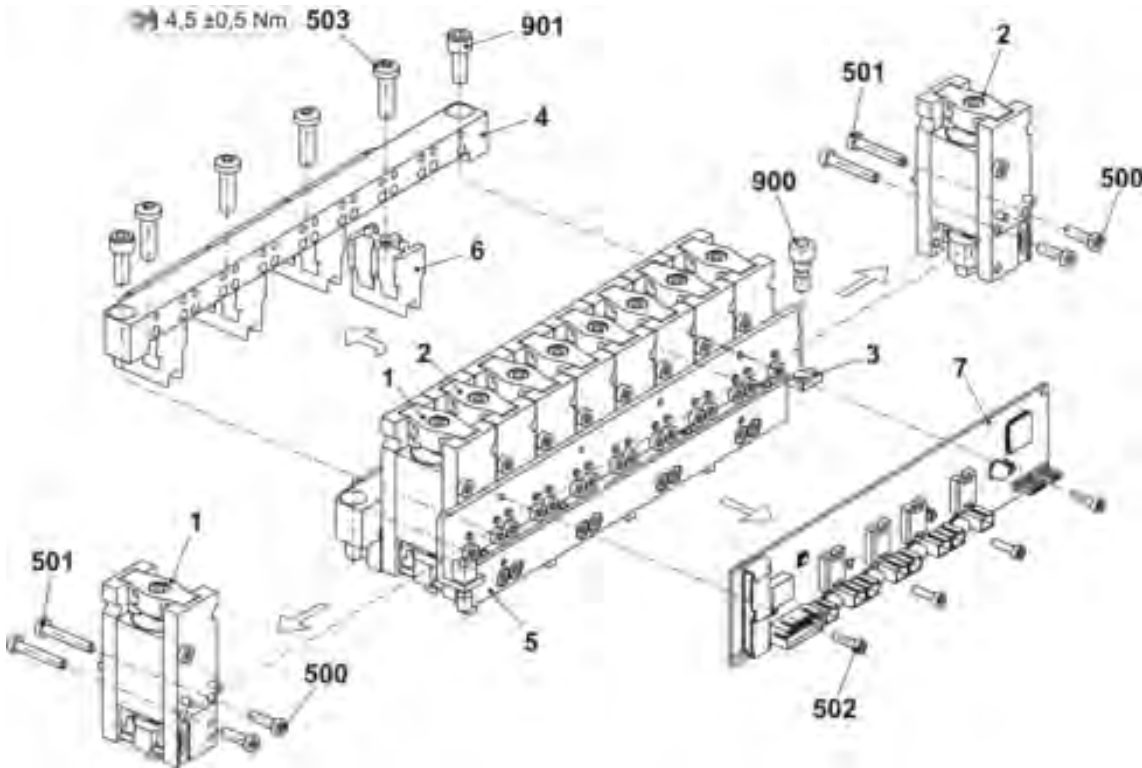
5.10 Yarn carrier driving without guiding part

Pos	Designation	Id		Pos	Designation	Id
Σ	YC driving outside complete	245 297		6	Switch mechanism	251 137
1	Yarn carrier plunger on the right complete	243 080		500	Cap screw M4x16-I-Torx	258 336
2	Yarn carrier plunger on the left complete	243 118		501	Cap screw M4x25-I-Torx	245 305
3	Support angle for jack	245 313		502	Cap screw M3x12-12.9	022 648
4	Mounting block outside	245 294		900	Dowel screw	231 899
5	Card yarn carrier final stages	300 960		901	Cap screw M6x16	020 135



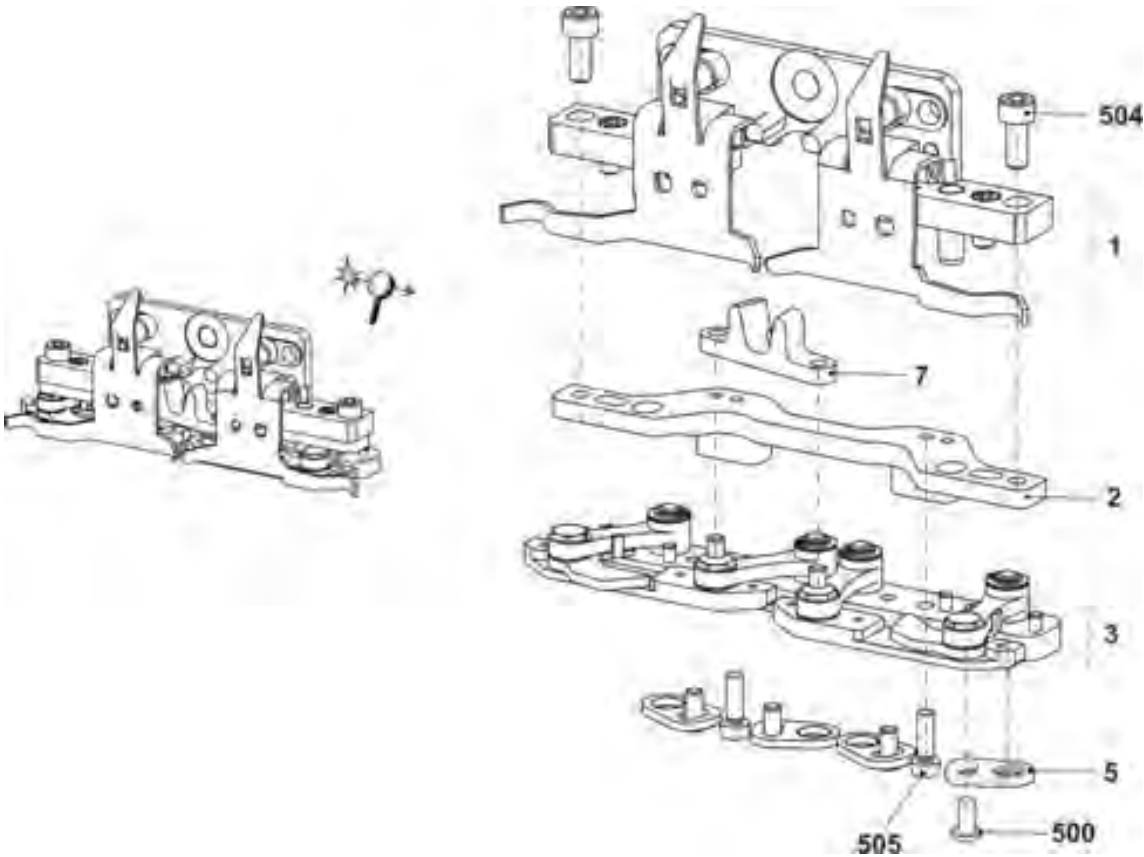
5.11 Yarn carrier driving with guiding part

Pos	Designation	Id		Pos	Designation	Id
Σ	YC driving in the middle complete	245 298		7	Card yarn carrier final stages	300 960
1	Yarn carrier plunger on the right complete	243 080		500	Cap screw M4x16-I-Torx	258 336
2	Yarn carrier plunger on the left complete	243 118		501	Cap screw M4x25-I-Torx	245 305
3	Support angle for jack	245 313		502	Cap screw M3x12-12.9	022 648
4	Mounting block in the middle	245 308		503	Screw KB60 x 20	243 625
5	Switch mechanism	251 137		900	Dowel screw	231 899
6	Guide part	239 972		901	Cap screw M6x16	020 135



5.12 Holding-down jack control

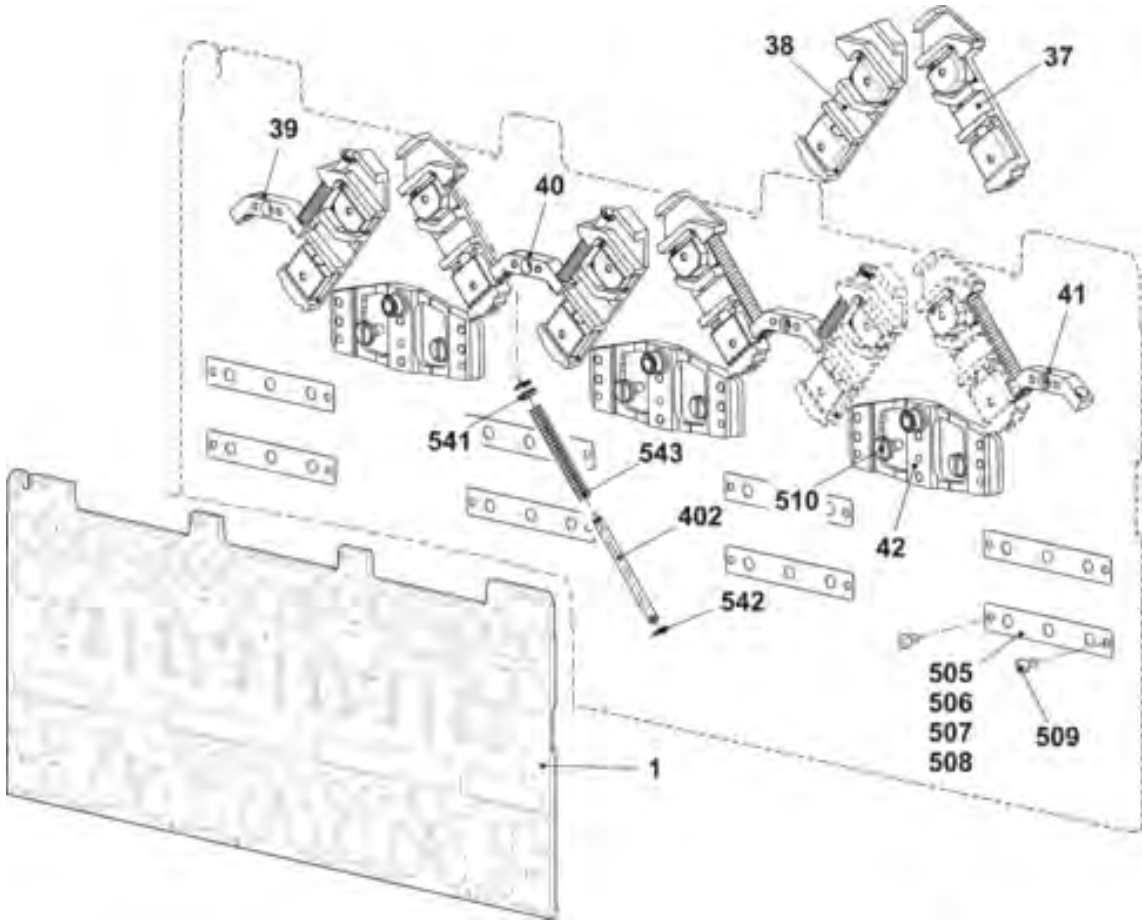
Pos	Designation	Id		Pos	Designation	Id
Σ	Holding-down jack control complete E5-8	241 515				
1	Assembly plate complete	244 234		7	Plunger	210 559
2	Connection plate	241 326		500	Pan-head screw M4x8	023 579
3	Jack cam plate complete E5-8	241 521		504	Cap screw M5x12	020 132
5	Adjusting plate	211 507		505	Cap screw M4x12	241 859



5.13 Cam box E5 + E3,5.2 + E5.2 + E5m.4 + E7m.5

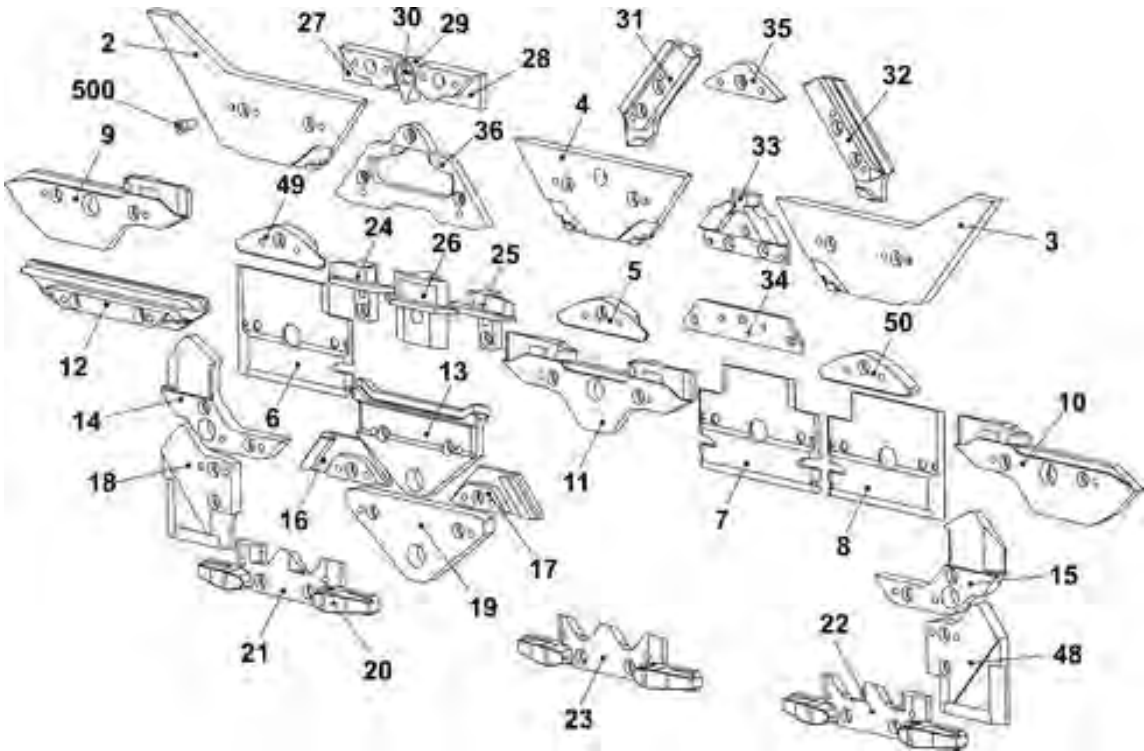
5.13 Cam box E5 + E3,5.2 + E5.2 + E5m.4 + E7m.5

Pos	Designation		ID No.		Pos	Designation	ID No.
Σ	Cam box set complete E5		244 467		42	Switching piece	240 281
1	Cam plate		240 371		505	Shim 0.03x12x75	022 828
37	Stitch forming cam on the right complete E5 - E10		211 163		506	Shim 0.05x12x75	022 829
38	Stitch forming cam on the left complete E5 - E10		211 164		507	Shim 0.1x12x75	022 830
39	Rod guide element on the left		211 165		508	Shim 0.2x12x75	022 831
40	Rod guide element in the middle		211 166		509	Countersunk screw M3x4	023 142
41	Rod guide element on the right		211 168		510	Shoulder screw	239 626
	402	Spring rod	209 791		Parts at the bottom of the cam box <i>Cams for narrow coupling (see Page:)</i> Cam box set complete contains all parts for both carriage sides		
	541	Washer 4.3x7x0.5	022 153				
	542	Circlip 3.2Circlip 3.2	021 019				
	543	Spring	023 344				



5.13.1 Cams E5 | E3,5.2 | E5.2 | E5m.4 | E7m.5

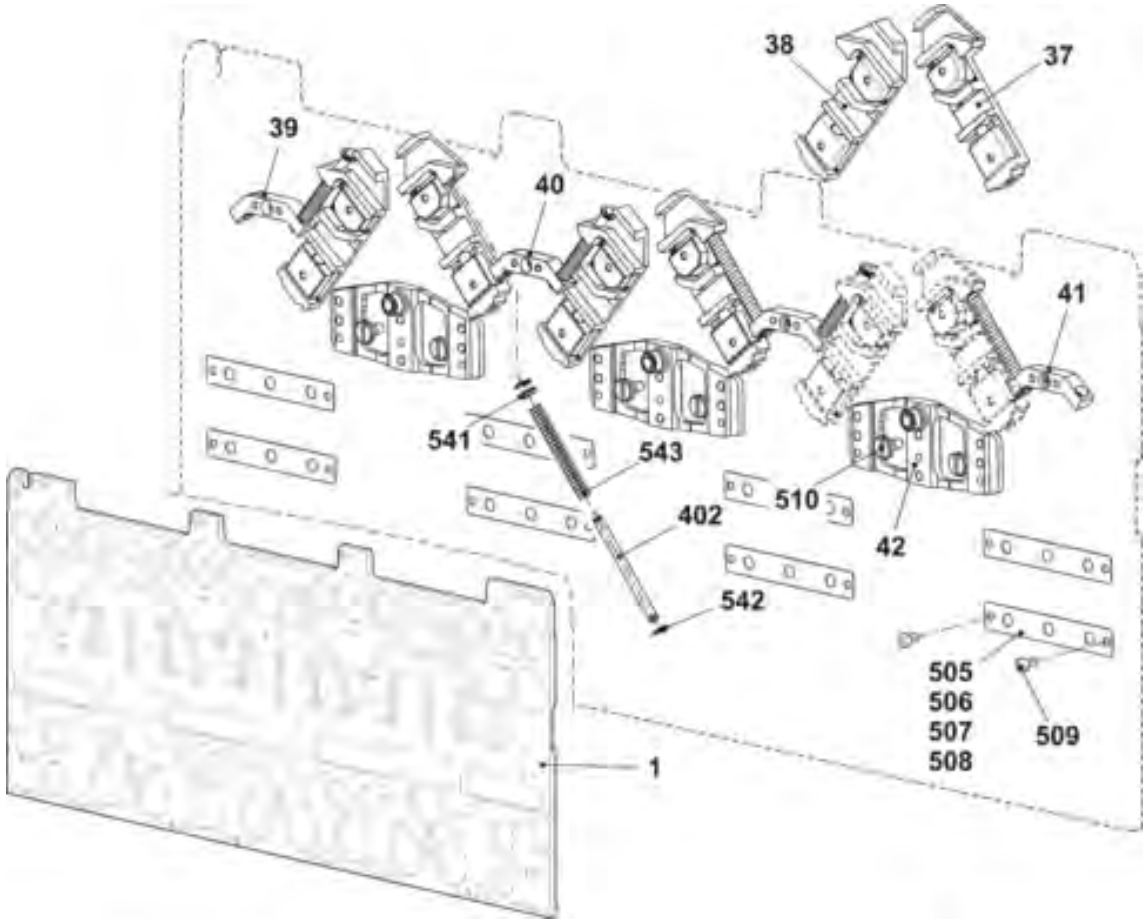
Pos	Designation	Id	Pos	Designation	Id
2	Entry cam on the left	213 304	22	Selection cam on the right	212 947
3	Entry cam on the right	213 303	23	Selection cam	212 946
4	Entry cam at the top	210 285	24	Pressure part take-over on the left	239 848
5	Entry cam in the middle at the bottom E2,5.2 E3,5.2	235 719	25	Pressure part take-over on the right	239 849
6	Plate on the left	230 988	26	Tuck pressure part	239 621
7	Plate in the middle	231 035	27	Limit cam on the left E5	210 289
8	Plate on the right	231 036	28	Limit cam on the right E5	210 290
9	Cam on the left	231 039	29	Pointer E2,5.2 E3,5.2	229 505
10	Cam part at the right	231 041	30	Screw	210 335
11	Cam part at the center	231 040	31	Stitch cam on the left E2,5.2 E3,5.2	235 712
12	Cam part	227 923	32	Stitch cam on the right E2,5.2 E3,5.2	235 713
13	Cam part	210 254	33	Tuck limit cam E5	214 051
14	Cam on the left E5-14	212 265	34	Raising cam plate E4-12	204 372
15	Cam on the right E5-14	212 266	35	Receiving cam E5	210 386
16	Cam on the left	236 192	36	Raising cam without split-stitch E5	213 302
17	Cam part at the right	236 193		Raising cam with split-stitch E5 Accessories	213 294
18	Cam on the left E5-14	212 274	48	Cam on the right E5-14	212 275
19	Cam part	210 252	49	Entry cam on the left bottom E5-8	235 718
20	Offering cam	210 185	50	Entry cam on the right at the bottom E5-8	235 720
21	Selection cam on the left	212 944	500	Cap screw M4x8	020 091



5.14 Cam box E7 + E8 + E7m.8 + E8m.7

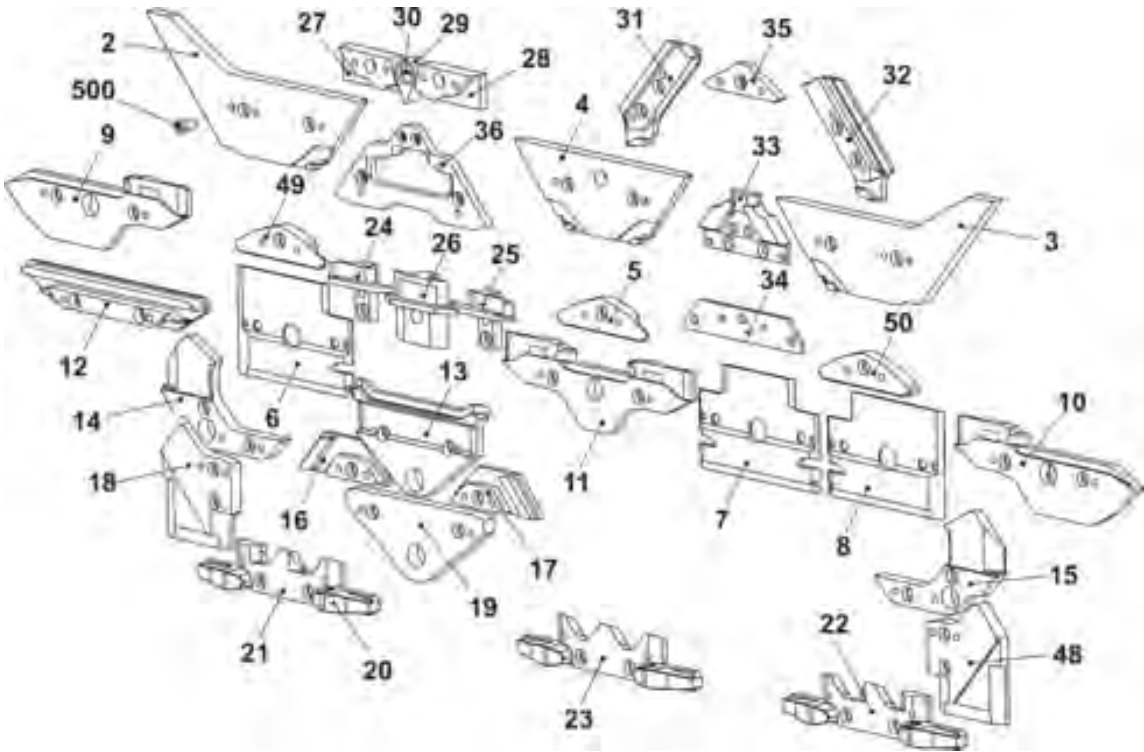
5.14 Cam box E7 + E8 + E7m.8 + E8m.7

Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Cam box set complete E7 - E8	243 883	42	Switching piece	240 281
1	Cam plate	240 371	505	Shim 0.03x12x75	022 828
37	Stitch forming cam on the right complete E5-10	211 163	506	Shim 0.05x12x75	022 829
38	Stitch forming cam on the left complete E5-10	211 164	507	Shim 0.1x12x75	022 830
39	Rod guide element on the left	211 165	508	Shim 0.2x12x75	022 831
40	Rod guide element in the middle	211 166	509	Countersunk screw M3x4	023 142
41	Rod guide element on the right	211 168	510	Shoulder screw	239 626
402	Spring rod	209 791	<i>Parts at the bottom of the cam box (see Page:)</i> <i>Cams for narrow coupling (see Page:)</i> Cam box set complete contains all parts for both carriage sides		
541	Washer 4.3x7x0.5	022 153			
542	Circlip 3.2Circlip 3.2	021 019			
543	Spring	023 344			



5.14.1 Cams E7 + E8 + E7m.8 + E8m.7

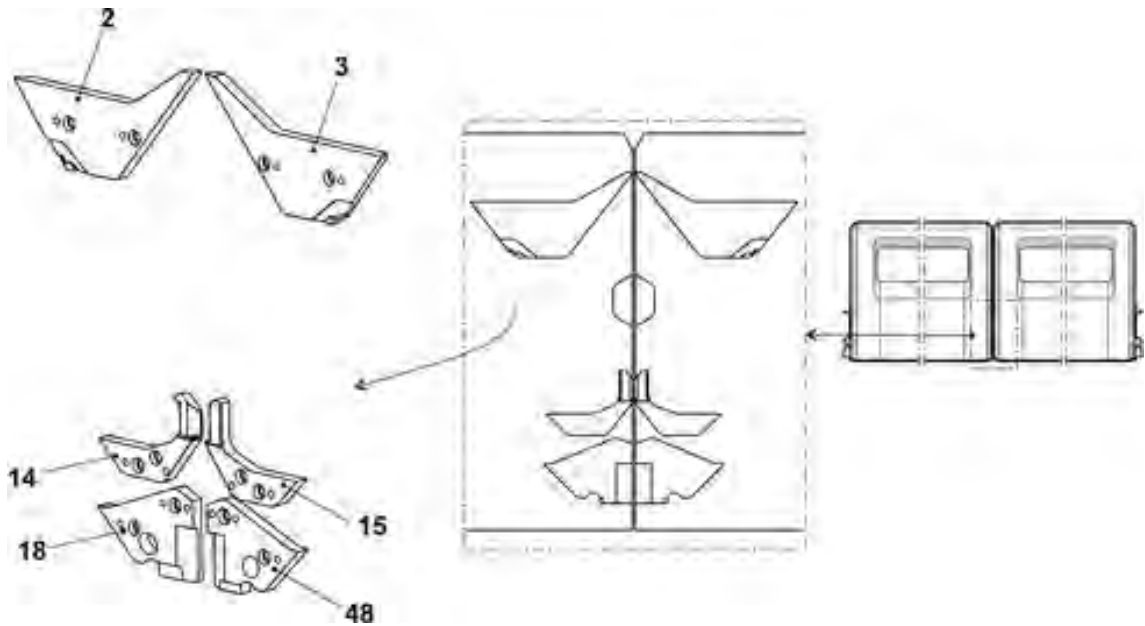
Pos	Designation	ID		Pos	Designation	ID
2	Entry cam on the left	213 304		23	Selector cam	212 946
3	Entry cam on the right	213 303		24	Pressure part take-over on the left	239 848
4	Entry cam at the top	210 285		25	Pressure part take-over on the right	239 849
5	Entry cam at the bottom E5-8	212 395		26	Tuck pressure part	239 621
6	Plate on the left	230 988		27	Limit cam on the left E7-8	210 291
7	Plate in the middle	231 035		28	Limit cam on the right E7-8	210 292
8	Plate on the right	231 036		29	Pointer E5-8	210 336
9	Cam on the left	231 039		30	Screw	210 335
10	Cam on the right	231 041		31	Stitch cam on the left E7-8	210 324
11	Cam in the middle	231 040		32	Stitch cam on the right E7-8	210 323
12	Cam	227 923		33	Tuck limit cam E7-8	255 056
13	Cam	210 254		34	Raising cam plate E4-12	204 372
14	Cam on the left E5-14	212 265		35	Receiving cam E7-8	210 339
15	Cam on the right E5-14	212 266		36	Raising cam part without split E7-8	255 055
16	Cam on the left	236 192			Raising cam with split E7-8	255 192
17	Cam on the right	236 193		Accessories		
18	Cam on the left E5-14	212 274		48	Cam on the right E5-14	212 275
19	Cam	210 252		49	Entry cam on the left E5-8	213 161
20	Offering cam	210 185		50	Entry cam on the right E5-8	213 162
21	Selector cam on the left	212 944		500	Cap screw M4x8	020 091
22	Selector cam on the right	212 947				



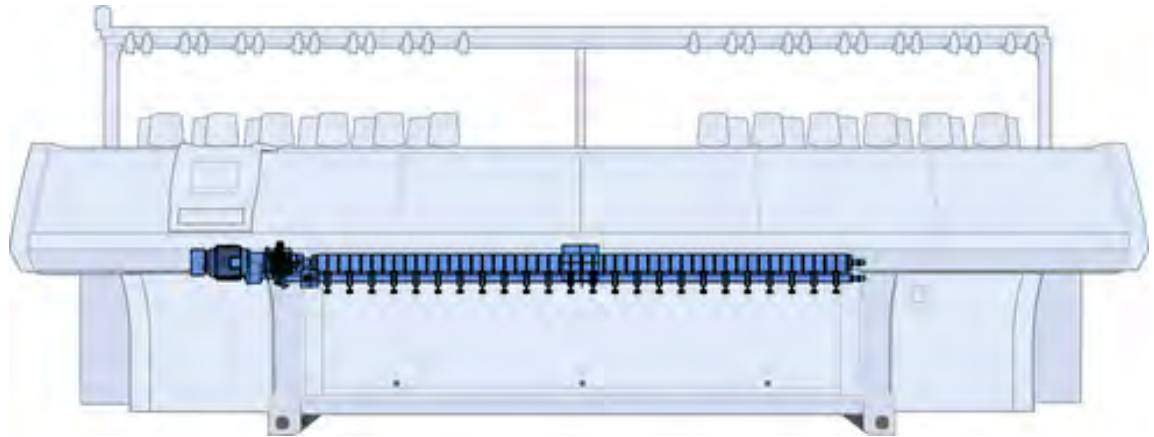
5.14 Cam box E7 + E8 + E7m.8 + E8m.7

5.14.2 Cams for narrow coupling

Pos	Designation	Id		Pos	Designation	Id
2	Entry cam on the right E5-14	216 220		3	Entry cam on the left E5-14	216 221
14	Cam on the right E5-14	216 168		15	Cam on the left E5-14	216 167
18	Cam on the right	216 166		48	Cam on the left	216 165

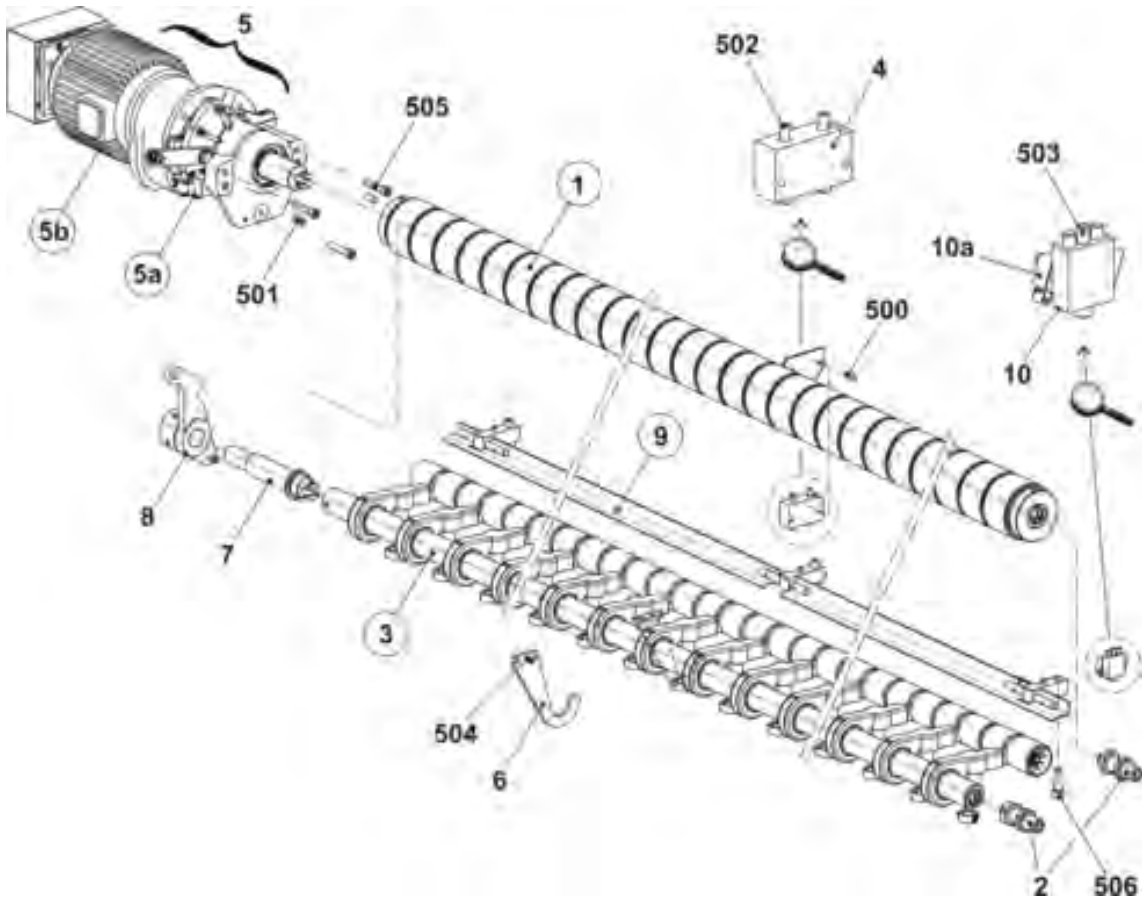


6 Main take-down



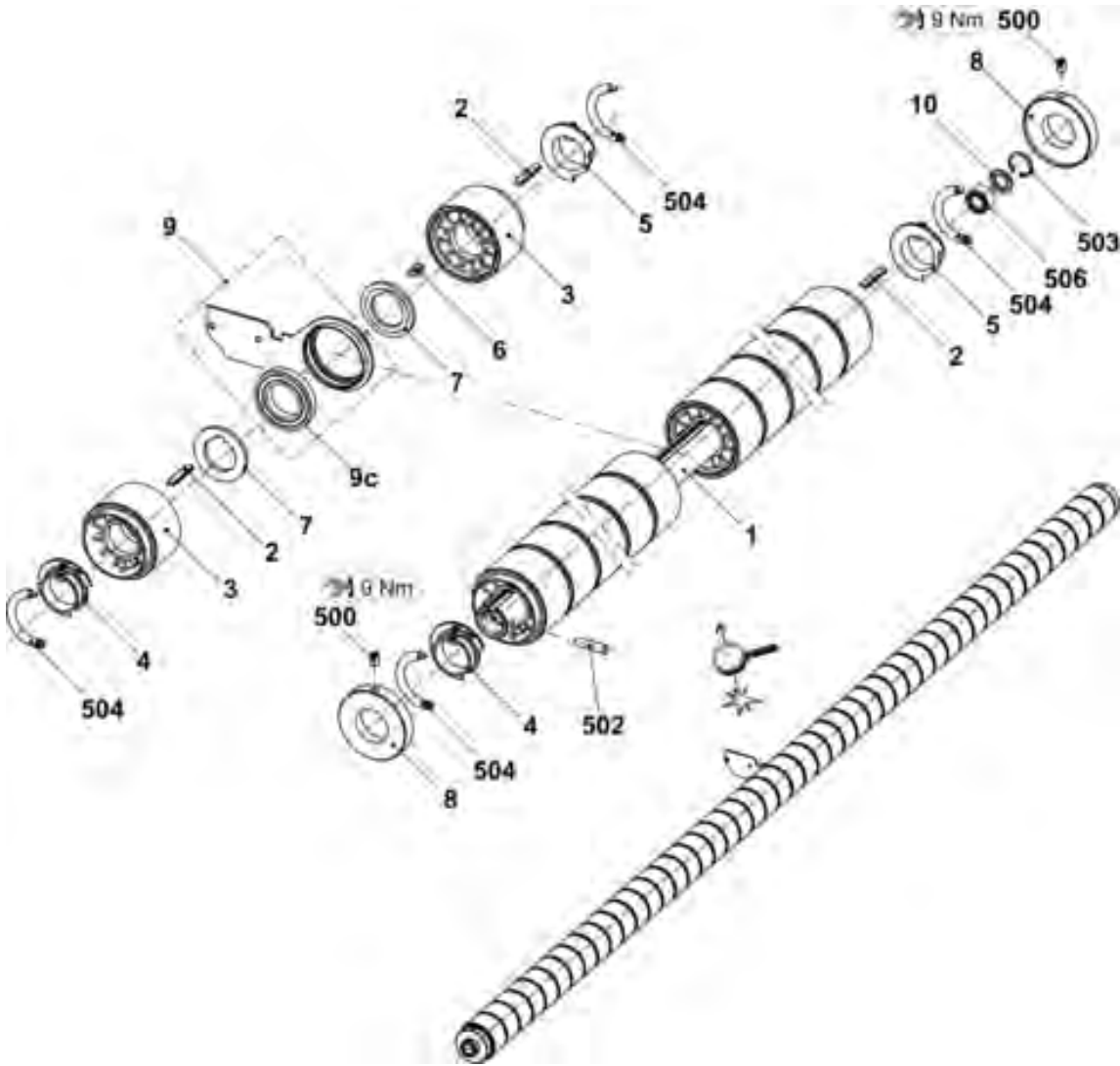
6.1 Main take-down

Pos	Designation	Id	Pos	Designation	Id
Σ	Main take-down	243 279	9	Fabric stripper	211 207
1	Take-down roller complete	211 170	10	Stop point complete	209 009
2	Journal complete	209 496	10a	Microswitch	026 259
3	Pressure shaft complete	243 265	500	Cap screw M6X12	020 134
4	Bearing	207 692	501	Setting pin 8x20	020 693
5	Take-down unit	244 450	502	Cap screw M6X45	022 689
5a	Take-down gear assembly complete	211 172	503	Cap screw M6x40	020 140
5b	Take-down motor with block	244 449	504	Cap screw M6x20-12.9	020 136
6	Support	243 294	505	Cap screw M8x40	020 145
7	Shaft complete	211 173	506	Cap screw M10x30	020 158
8	Lever complete	211 210			



6.1.1 Take-down roller

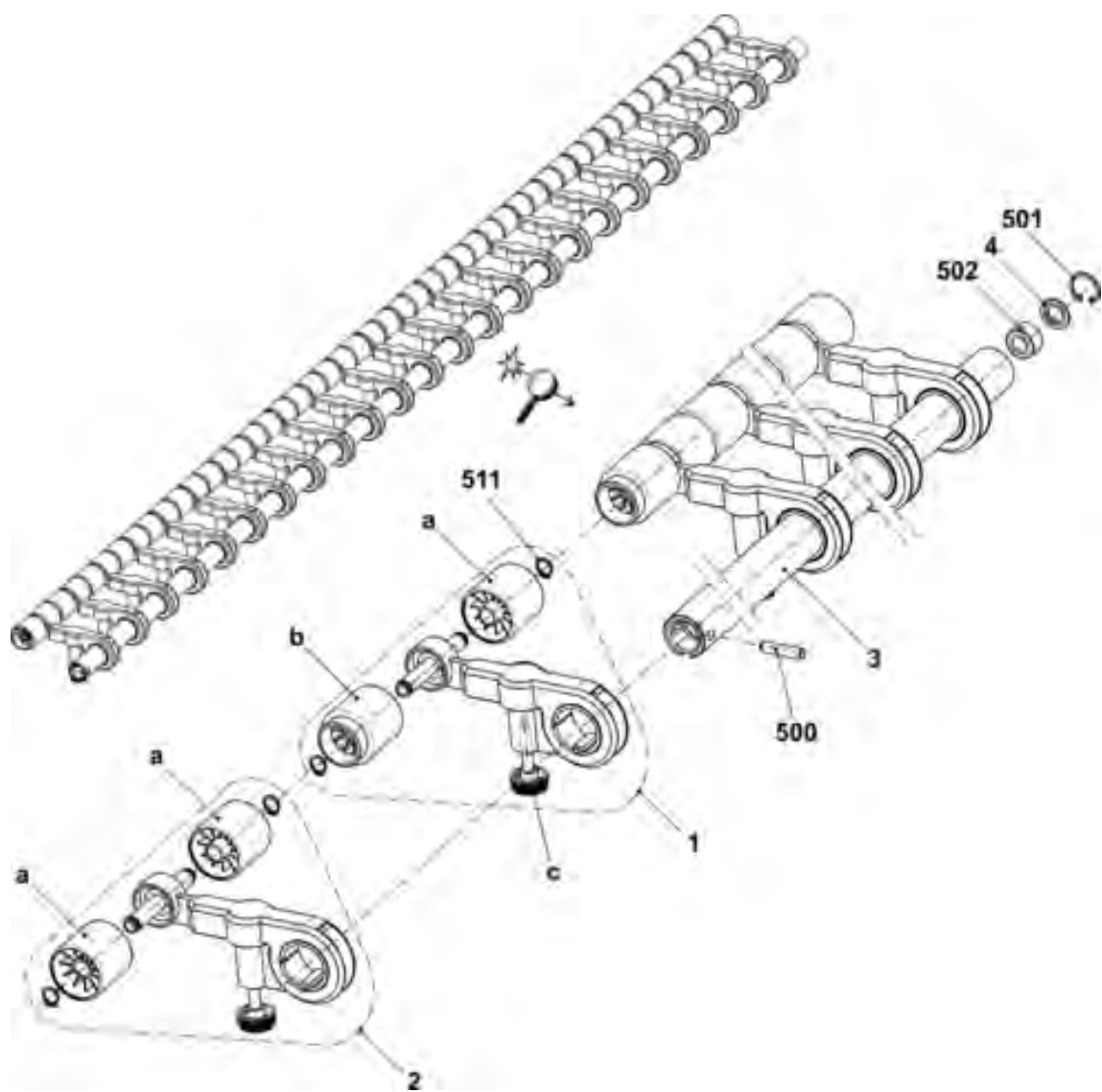
Pos	Designation	Id		Pos	Designation	Id
Σ	Take-down roller complete	211 170				
1	Shaft	211 111		9	Support	204 462
2	Spacer slide	204 340		9c	Grooved ball bearing 16007	021 697
3	Roller	236 169		10	Spacing ring	030 689
4	Stop ring on the left	204 369		500	Grub screw M8x12-45H	023 393
5	Stop ring on the right	204 376		502	Setting pin 8x34	020 699
6	Slide	204 341		503	Locking ring 24x1.2	020 975
7	Spacing ring	204 343		504	Tension spring 8x0,95x65	023 231
8	End ring	211 110		506	Needle roller bearing NA4901	021 746



6.1 Main take-down

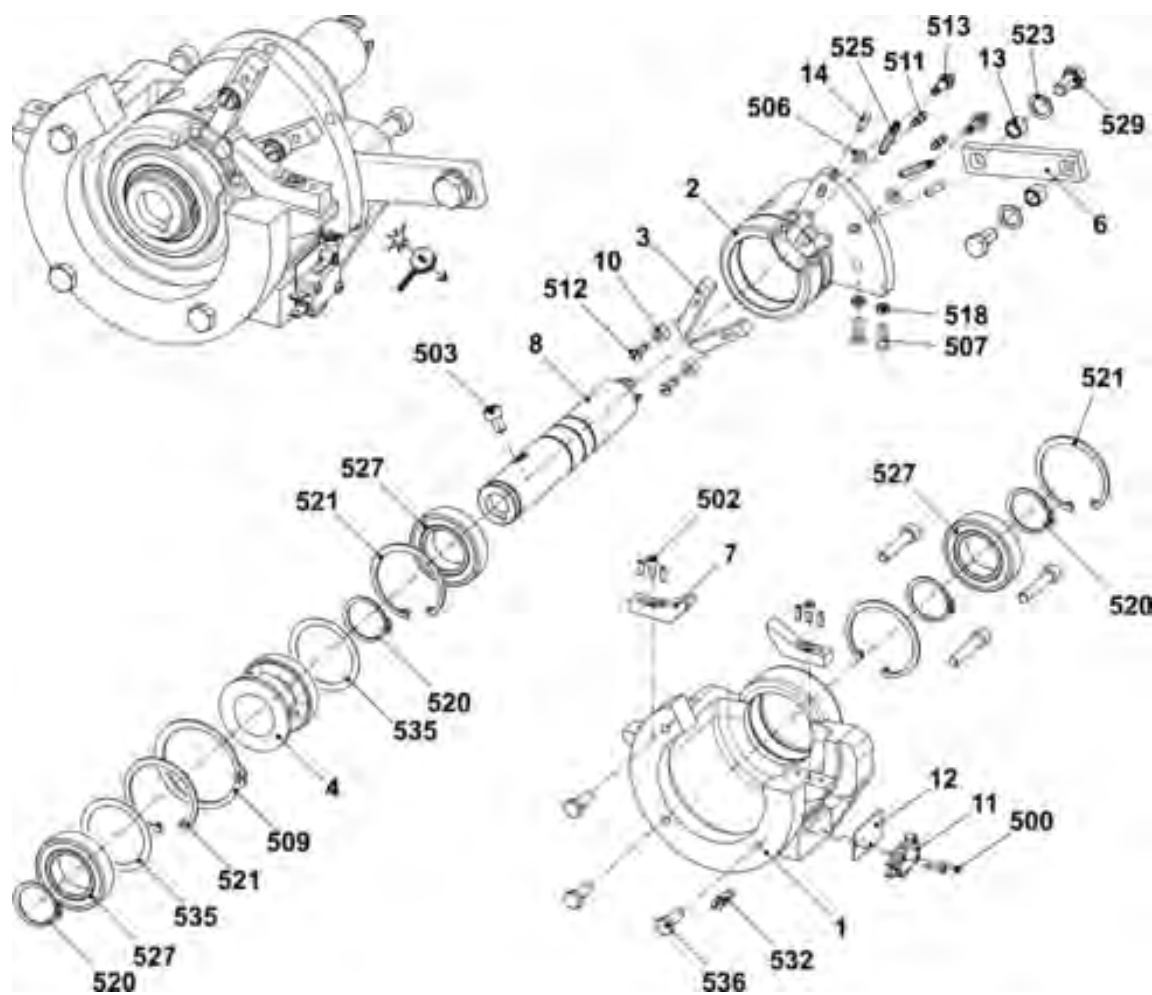
6.1.2 Contact shaft

Pos	Designation		Id		Pos	Designation		Id
Σ	Pressure shaft complete		243 265					
1	Contact lever		243 262		3	Shaft		211112
	a	Pressure roller	243 551		4	Spacing ring		030 689
	b	Pressure roller	243 552		500	Setting pin 8x34		020 699
	c	Knurled screw	242 331		501	Locking ring 24x1.2		020 975
	511	Locking ring 12x1	020 951		502	Needle roller bearing NA4901		021 746
2	Contact lever on the left		243 263					
	a	Pressure roller	243 551					



6.1.3 Take-down gear assembly

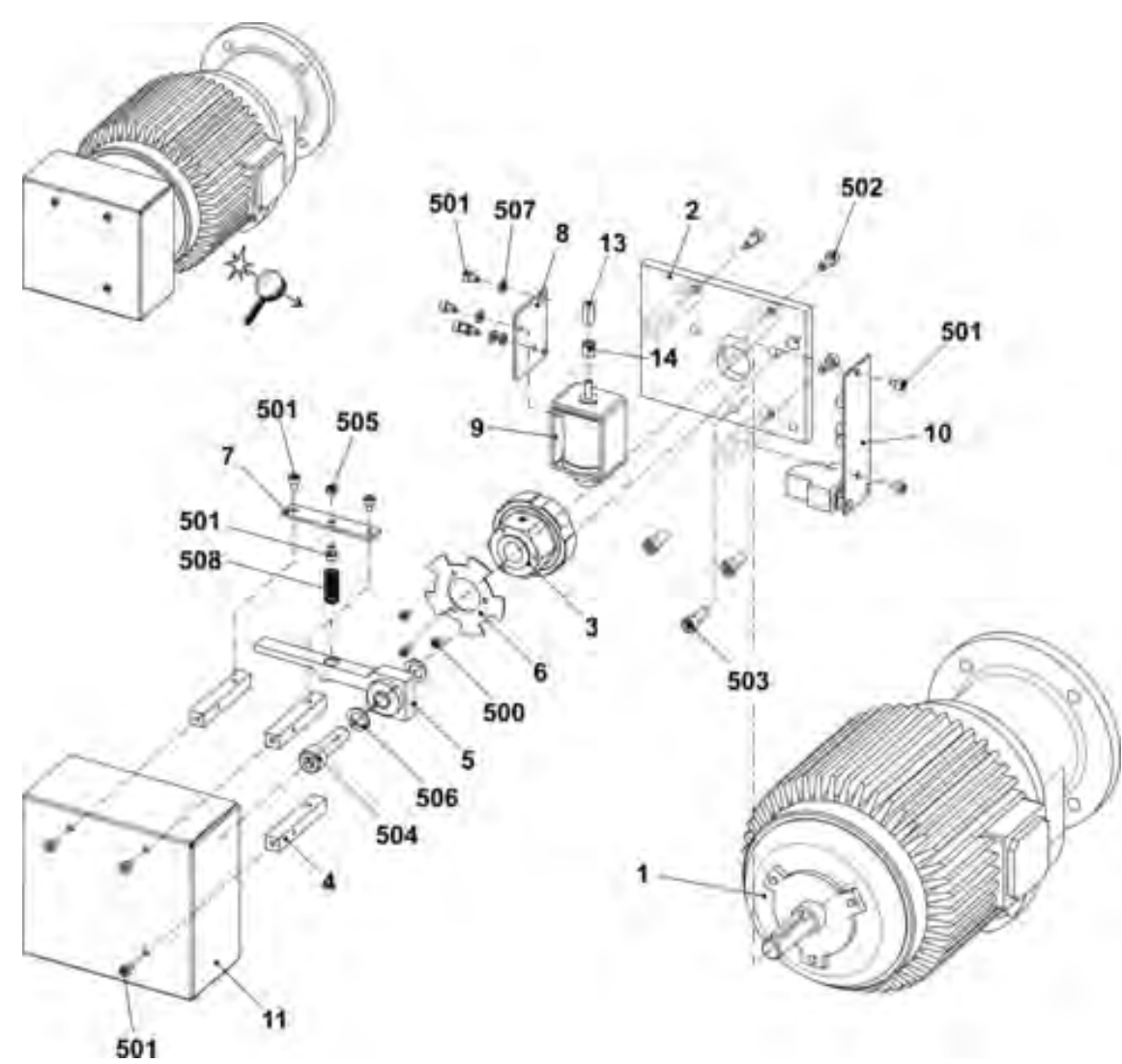
Pos	Designation	Id		Pos	Designation	Id
Σ	Take-down gear assembly complete	211 172		506	Washer 6.4x12x0.3	022 737
1	Main bearing	204 292		507	Hexagon screw M6x16	020 356
2	Bearing housing	204 293		509	Locking ring 80x2.5	023 225
3	Slider	204 314		511	Shoulder screw M5x11x17	204 318
4	Driver sleeve	204 313		512	Shoulder screw M5x8x8	020 247
6	Strap	204 323		513	Shoulder screw M5x12.5x29-5.8	204 317
7	Ramp	209 281		518	Hexagon nut M6-04	020 855
8	Drive shaft	211 127		520	Locking ring 35x1.5	023 139
10	Roll	207 077		521	Locking ring 62x2	020 986
11	Microswitch	026 259		523	Supporting disk S 14x20x1.5	023 223
12	Insulating disk	048 012		525	Tension spring 6x0.65x20	021 187
13	Sleeve	207 078		527	Grooved ball bearing 6007-2Z	023 140
14	Damping pin	200 919		529	Hexagon screw M10x20	020 366
500	Cap screw M3x15	020 009		532	Shoulder screw M6x17x24-5.8	023 178
502	Cap screw M5X10	022 918		535	Adjusting washer 50x62x0.5	023 226
503	Cap screw M8x12	023 138		536	Hexagon screw M8x20	020 361



6.1 Main take-down

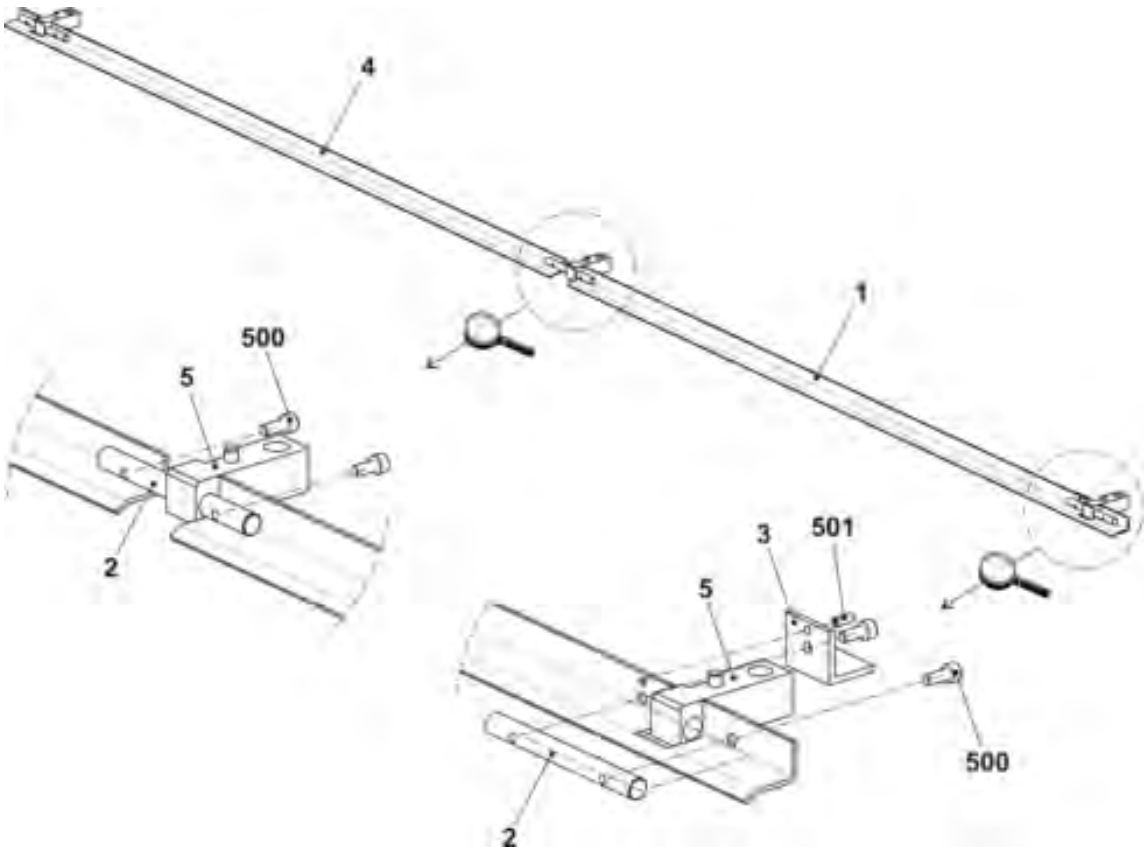
6.1.4 Take-down motor with block

Pos	Designation	Id		Pos	Designation	Id
Σ	Take-down motor with block	244 449				
1	Motor of main take-down	217 602		13	Thrust piece	202 940
2	Base plate	204 643		14	Nut	202 941
3	Hub switching ring	208 934		500	Cap screw M3x6-12.9	022 589
4	Bolt	202 933		501	Cap screw M4X6	023 067
5	Catch complete	211 560		502	Cap screw M5x12	020 132
6	Impulse disc WA1	202 751		503	Cap screw M6x16	020 135
7	Bridge	202 936		504	Cap screw M5x11x17	023 364
8	Plate	205 139		505	Hexagon nut M4-6	020 834
9	Catch magnet	026 042		506	Adjusting washer 10x16x1.5	023 261
10	Card for impulse giver of rotary field motor	300 487		507	Serrated lock washer	022 482
11	Cover	244 448		508	Compression spring 0.7x8.8x35	023 028



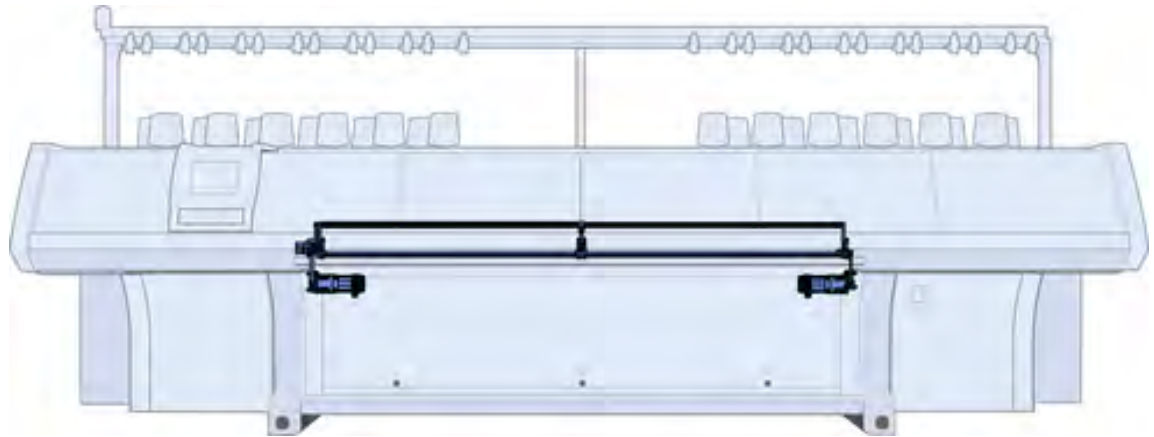
6.1.5 Fabric stripper

Pos	Designation	Id		Pos	Designation	Id
Σ	Fabric stripper	211 207		4	Stripping plate on the left	211 151
1	Stripping plate on the right	211 150		5	Bearing	211 152
2	Axle	211 218		500	Cap screw M5x12	020 132
3	Lever	211 215		501	Spring dowel sleeve 4x10	020 781



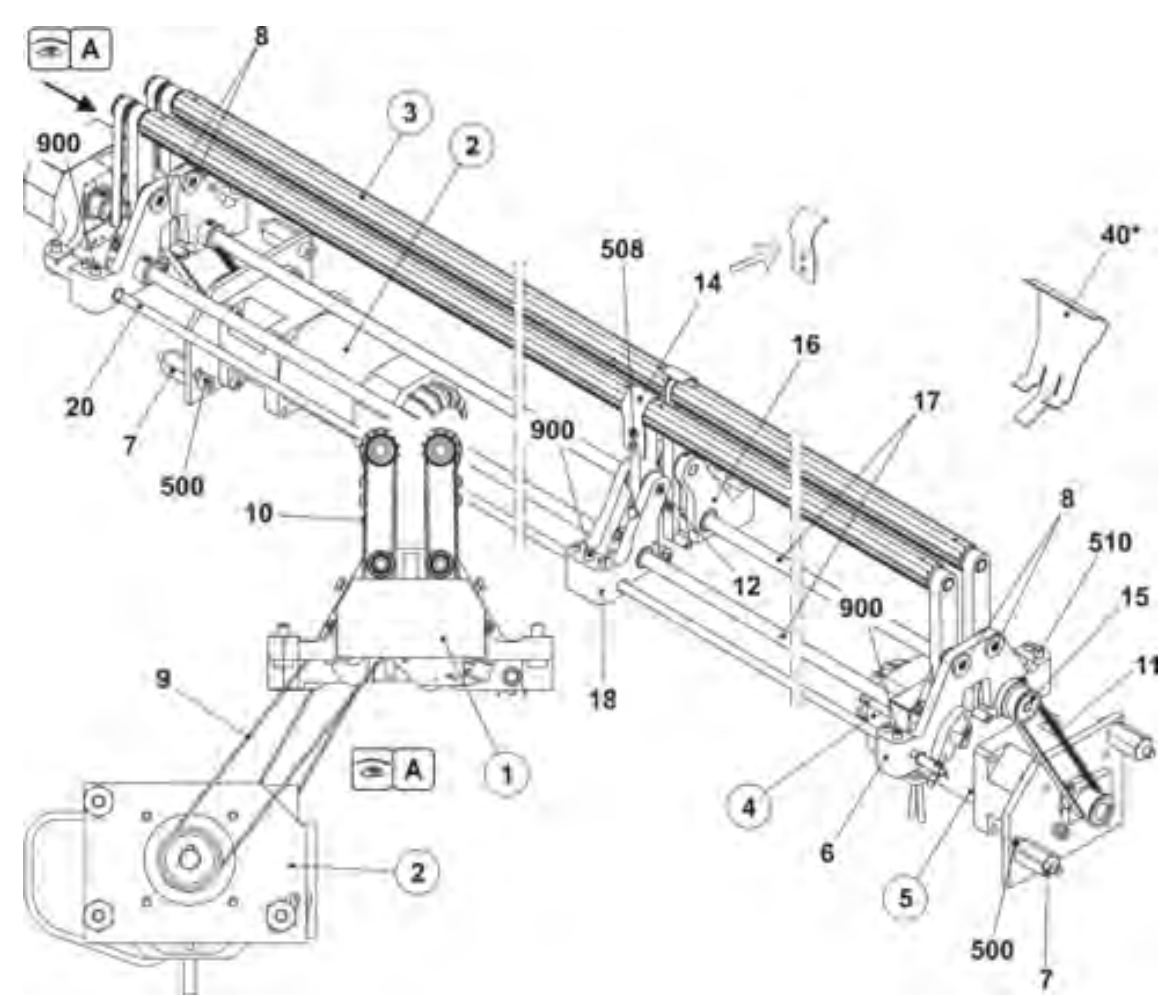
Notes:

7 Auxiliary take-down



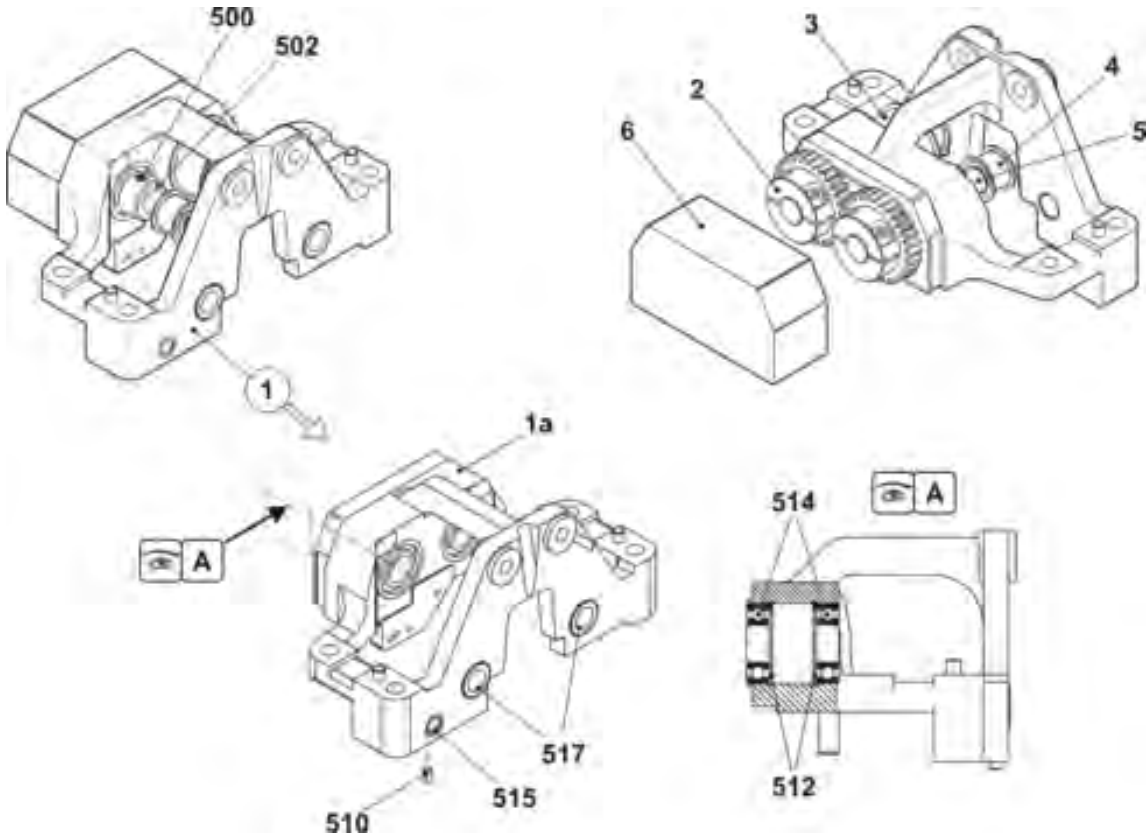
7.1 Auxiliary take-down

Pos	Designation	Id		Pos	Designation	Id
Σ	Auxiliary take-down	239 084		12	Bolt	225 782
1	Main bearing complete	239 081		14	Cover	211 093
2	Motor biphase complete	239 056		15	Timing belt pulley Z16 T5	207 575
3	Take-down roller complete	227 517		16	Bearing at the rear in the middle	227 520
4	Gear	211 204		17	Shaft	210 869
5	Motor biphase complete	239 073		18	Bearing at the front and in the middle	227 524
6	Bearing on the right	227 522		20	Contact rod	211 195
7	Stay bolt	238 991		40*	Fabric sensor	208 200
8	Bolt	227 363		500	Cap screw M8x20	020 141
9	Toothed belt 10t5/420	207 635		508	Pan-head screw M4x8	023 036
10	Toothed belt 10T5/280	207 633		510	Cap screw M5x16-8.8	023 141
11	Toothed belt 10T5/420	239 036		900	Cap screw M8x35	020 144



7.1.1 Main bearing

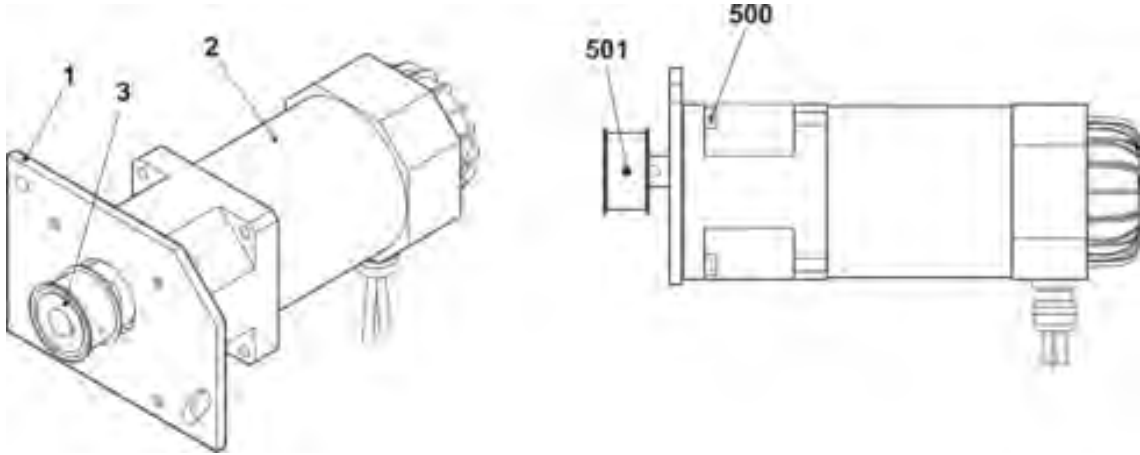
Pos	Designation		Id		Pos	Designation		Id
Σ	Main bearing complete		239 081					
1	Main bearing pre-assembled		227 529		2	Gear wheel		209 428
	1a	Main bearing	210 610		3	Timing belt pulley		209 436
	510	Set screw M5x6	022 580		4	Timing belt pulley		210 555
	512	Locking ring 32x1.2	023 355		5	Shaft		211 141
	514	Deep groove ball bearing 6002-2ZY	023 217		6	Cover		211 357
	515	Slide bearing MSM-0812-08	023 353		500	Set screw M6x5		023 192
	517	Slide bearing GFM-121418-10	023 352		502	Set collar A12		020 935



7.1 Auxiliary take-down

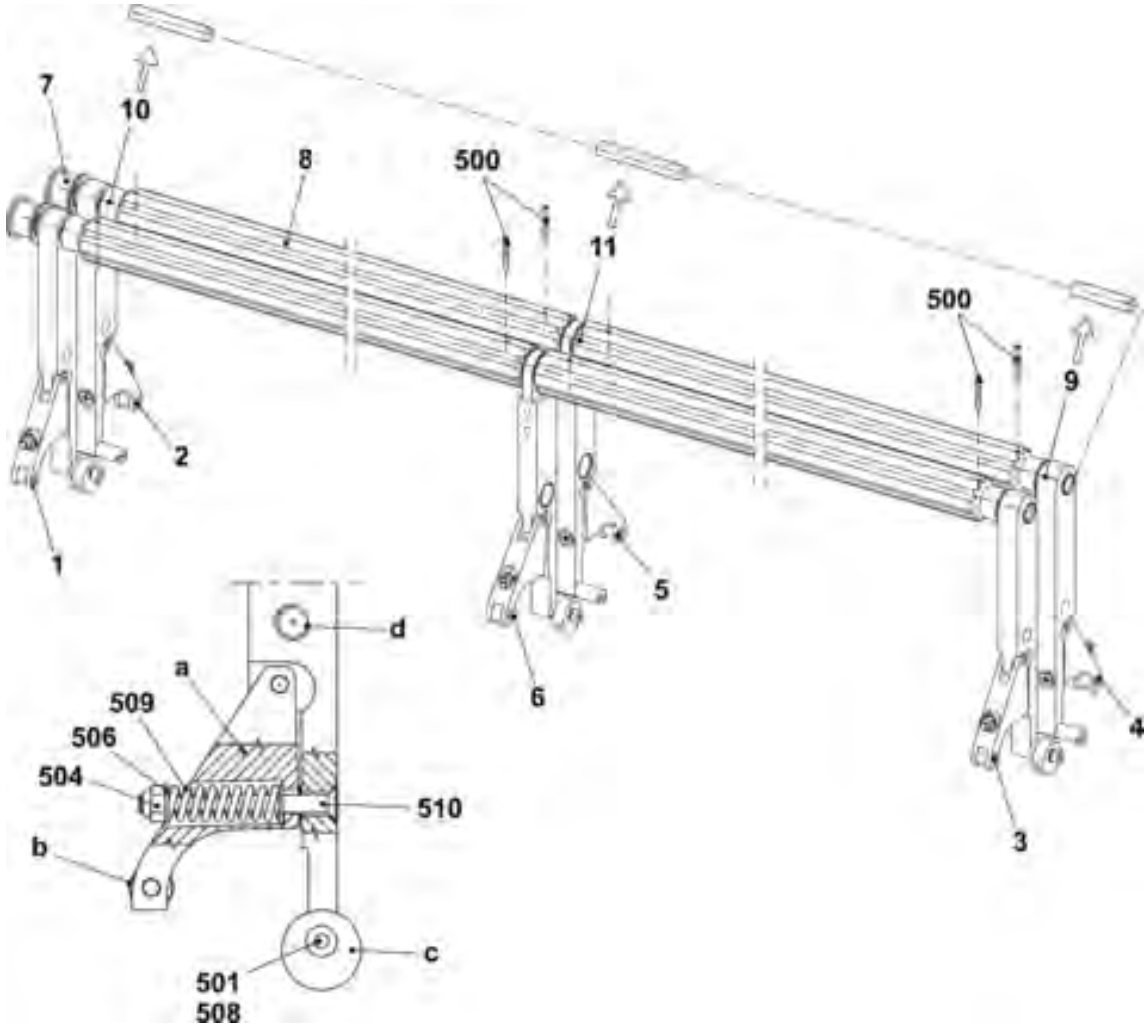
7.1.2 Motor on the left

Pos	Designation	Id		Pos	Designation	Id
Σ	Motor biphas complete	239 056		3	Timing belt pulley	238 060
1	Motor plate	238 061		500	Cap screw M6x16	020 135
2	Motor	234 805		501	Set screw M4x6	023 088



7.1.3 Take-down roller

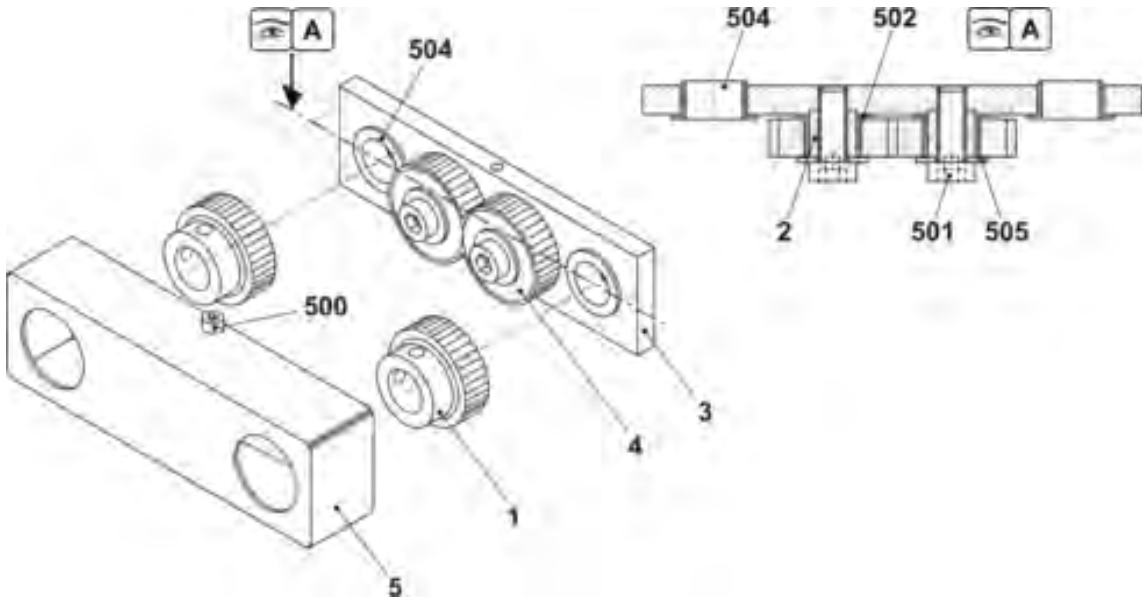
Pos	Designation	Id		Pos	Designation		Id
Σ	Take-down roller complete	227 517					
1	Lever at the front on the left complete	227 511		500	Spring dowel sleeve 3x20		020 776
2	Lever at the rear on the left complete	227 512		1-6	a	Toggle	208 434
3	Lever at the front on the right complete	227 515			b	Roll	200 577
4	Lever at the rear on the right complete	227 516			c	Eccentric	208 486
5	Lever at the rear on the left complete	227 513			d	Slide bearing	023 655
6	Lever at the front in the middle complete	227 514			501	Cap screw M4x20	023 171
7	Timing belt pulley	225 910			504	Hexagon nut M4-6	023 046
8	Take-down roller	225 783			506	Washer 4-200HV	020 870
9	Bolt	225 782			508	Circlip S4	022 774
10	Bolt	225 781			509	Compression spring 1,6x6,4x27,1	023 288
11	Bolt	225 536			510	Countersunk screw M4x45	023 291



7.1 Auxiliary take-down

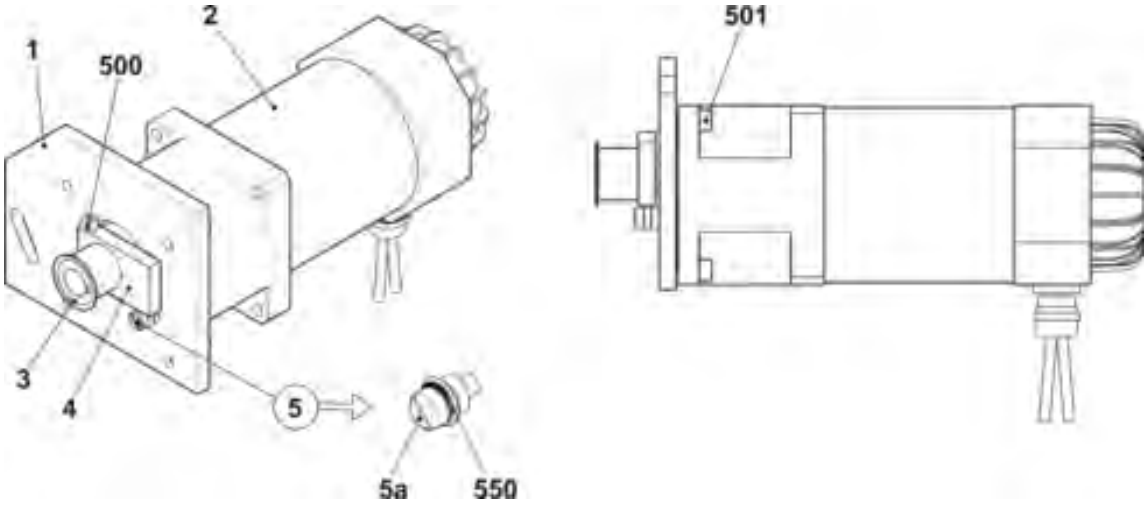
7.1.4 Gear

Pos	Designation	Id		Pos	Designation	Id
Σ	Gear	211 204		500	Cap screw M3X6	022 589
1	Gear wheel	208 101		501	Cap screw M6x16	023 116
2	Sleeve	211 136		502	Slide bearing GFM-101216-09	023 356
3	Strap	211 134		504	Slide bearing GFM-121418-08	023 281
4	Gear wheel	211 138		505	U-washer 8.4x20x3	020 902
5	Shrouding cover	211 139				



7.1.5 Motor on the right

Pos	Designation	Id		Pos	Designation	Id
Σ	Motor biphas complete	239 073		5	Stop point complete	208 921
1	Plate for motor	238 069		5a	Stop point	207 617
2	Motor	234 805		550	O-ring 6x3	022 856
3	Timing belt pulley Z16 T5	238 086		500	Cap screw M5X25	023 523
4	Clamping lever	238 084		501	Cap screw M6x16	020 135



7.1 Auxiliary take-down

Notes:

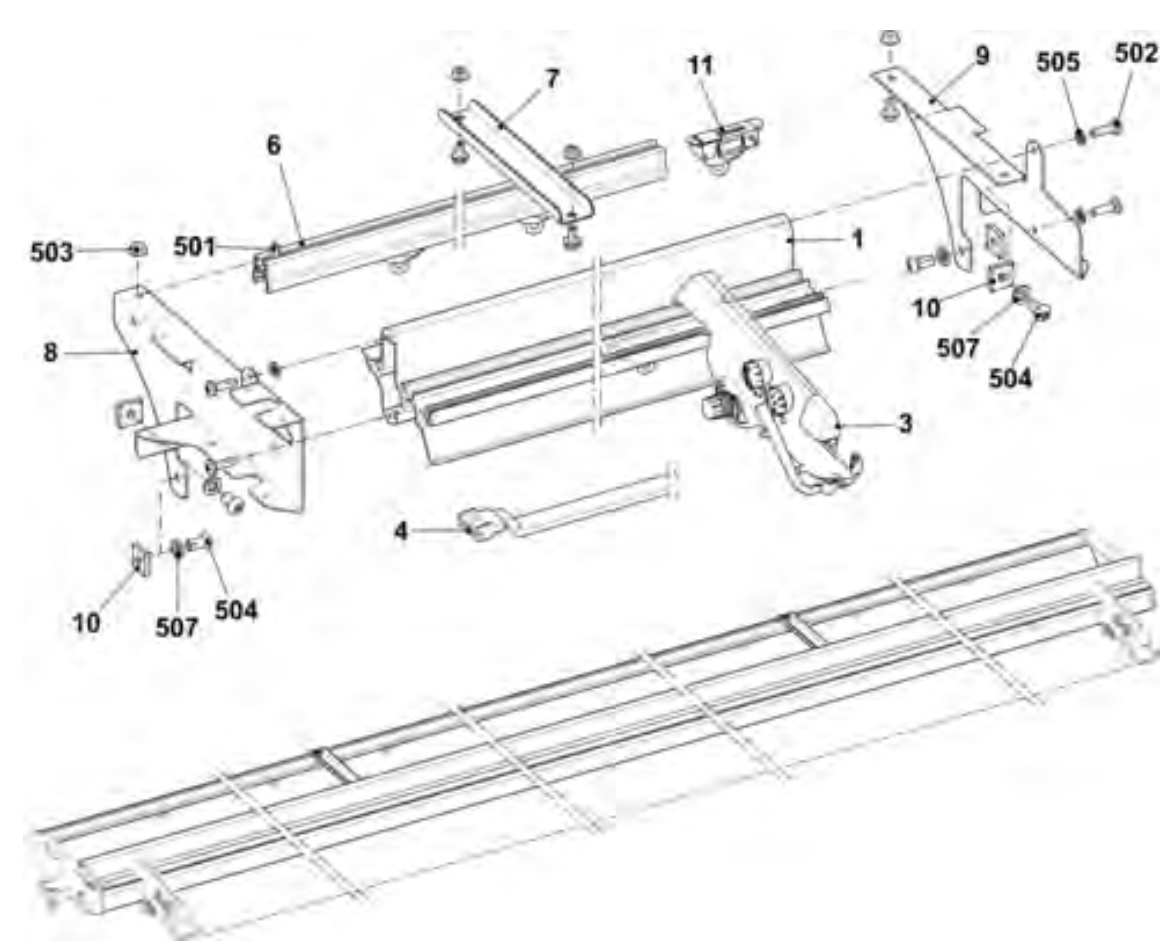
8 Yarn delivery device



8.1 Yarn guide system with 30 FKE

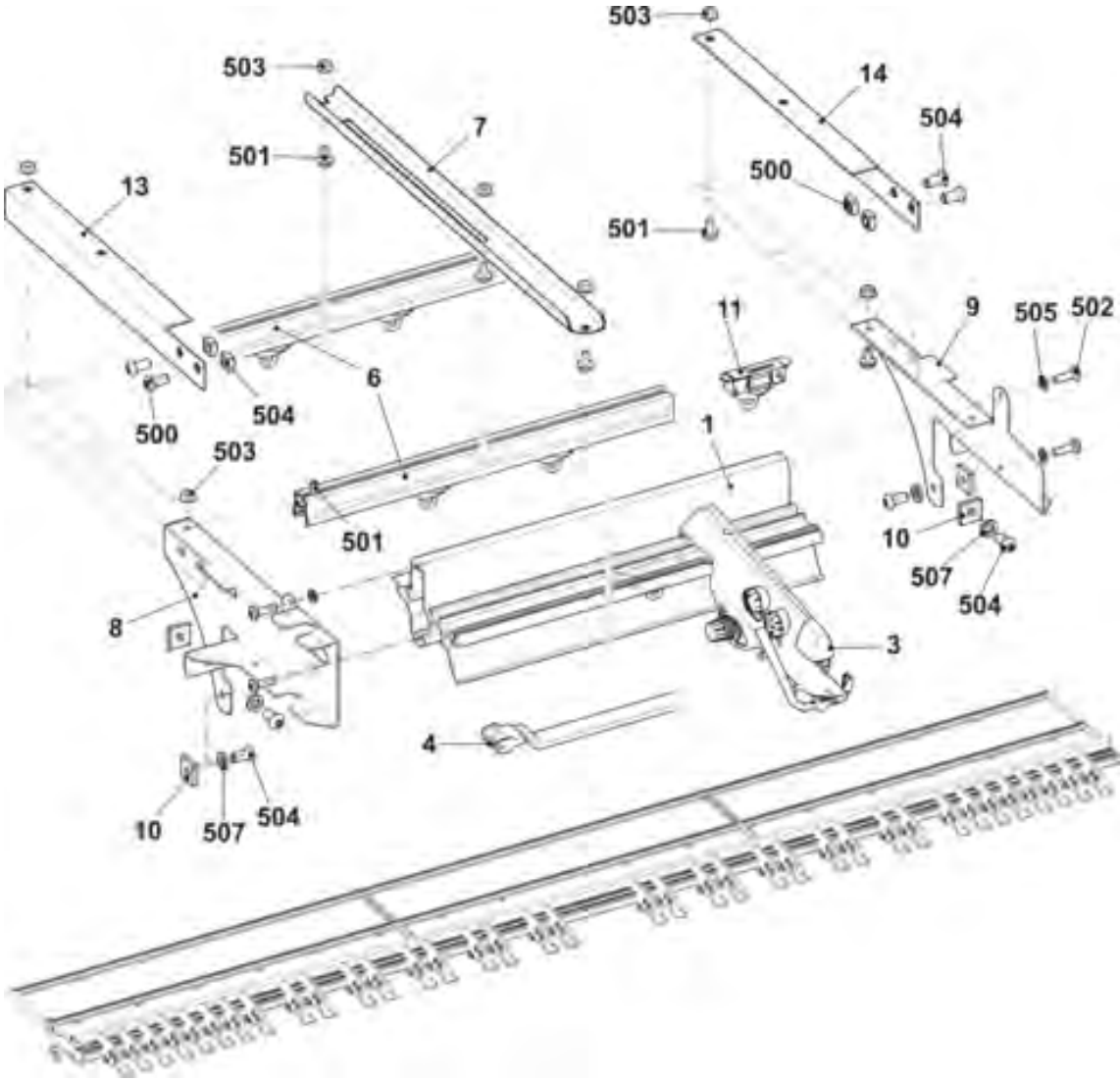
8.1 Yarn guide system with 30 FKE

Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn guide system 30 FKE 933	242 723		10	Sliding block	228 851
1	Support	243 114		11	Yarn guide bracket complete	241 581
3	Yarn control device	237 124		501	Self-locking screw M6x12	023 415
4	Connection cable FKE 3 96"	240 350		502	Screw CE M6x16	023 678
6	Yarn guide bar	242 431		503	Ribbed safety nut M6-10	023 414
7	Support	243 792		504	Countersunk screw M8x16	023 113
8	Support on the left	243 600		505	Washer 6-200hv	022 431
9	Support on the right	243 601		507	Serrated lock washer J8.4	023 388



8.2 Yarn guide system with 36 FKE

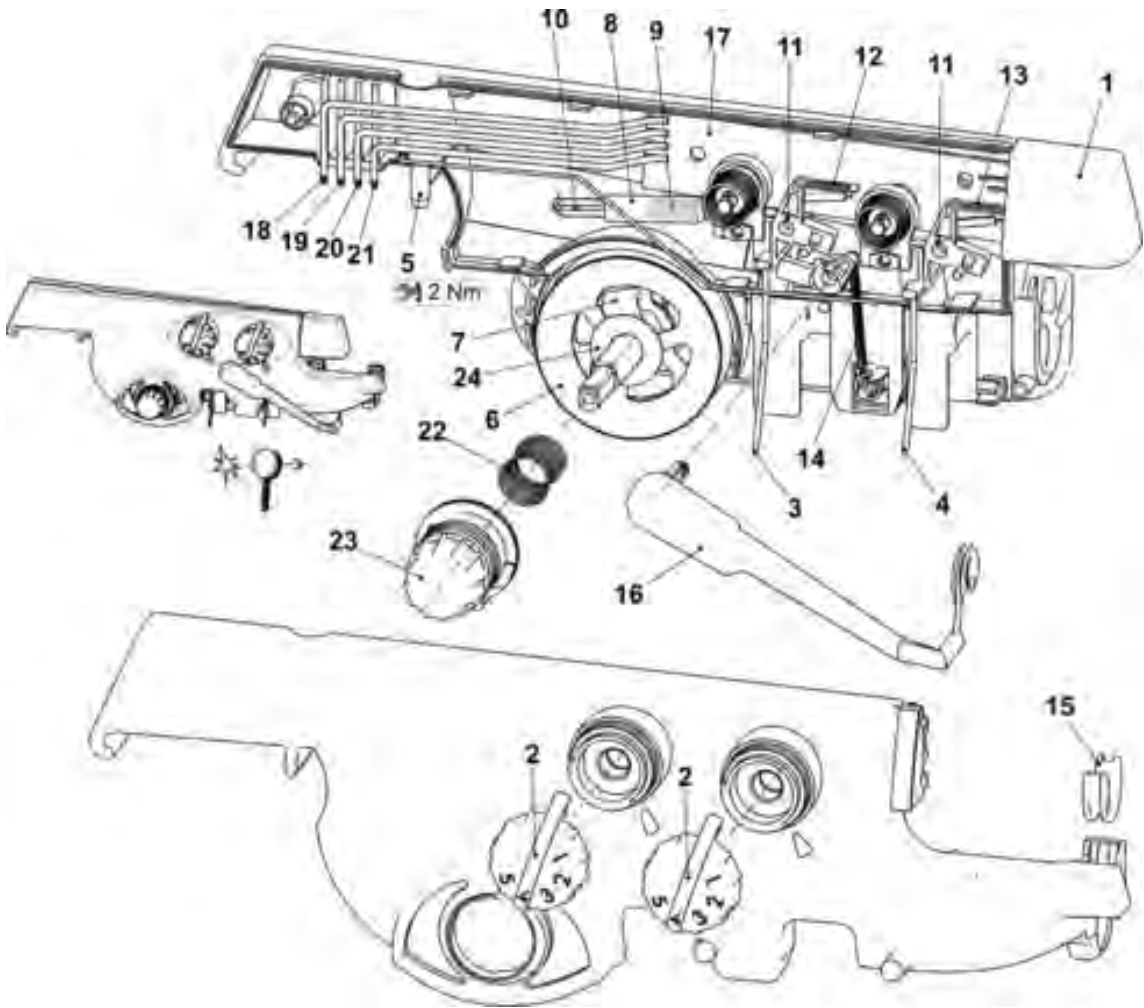
Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn guide system 36 FKE 933	242 447				
1	Support	243 114		13	Support on the left	243 609
3	Yarn control device	237 124		14	Support on the right	243 610
4	Connection cable FKE 3 96"	240 350		500	Square nut M8	023 269
6	Yarn guide bar	242 431		501	Self-locking screw M6x12	023 415
7	Support	243 766		502	Screw CE M6x16	023 678
8	Support on the left	243 600		503	Ribbed safety nut M6-10	023 414
9	Support on the right	243 601		504	Countersunk screw M8x16	023 113
10	Sliding block	228 851		505	Washer 6-200hv	022 431
11	Yarn guide bracket complete	241 581		507	Serrated lock washer J8.4	023 388



8.3 Yarn control unit

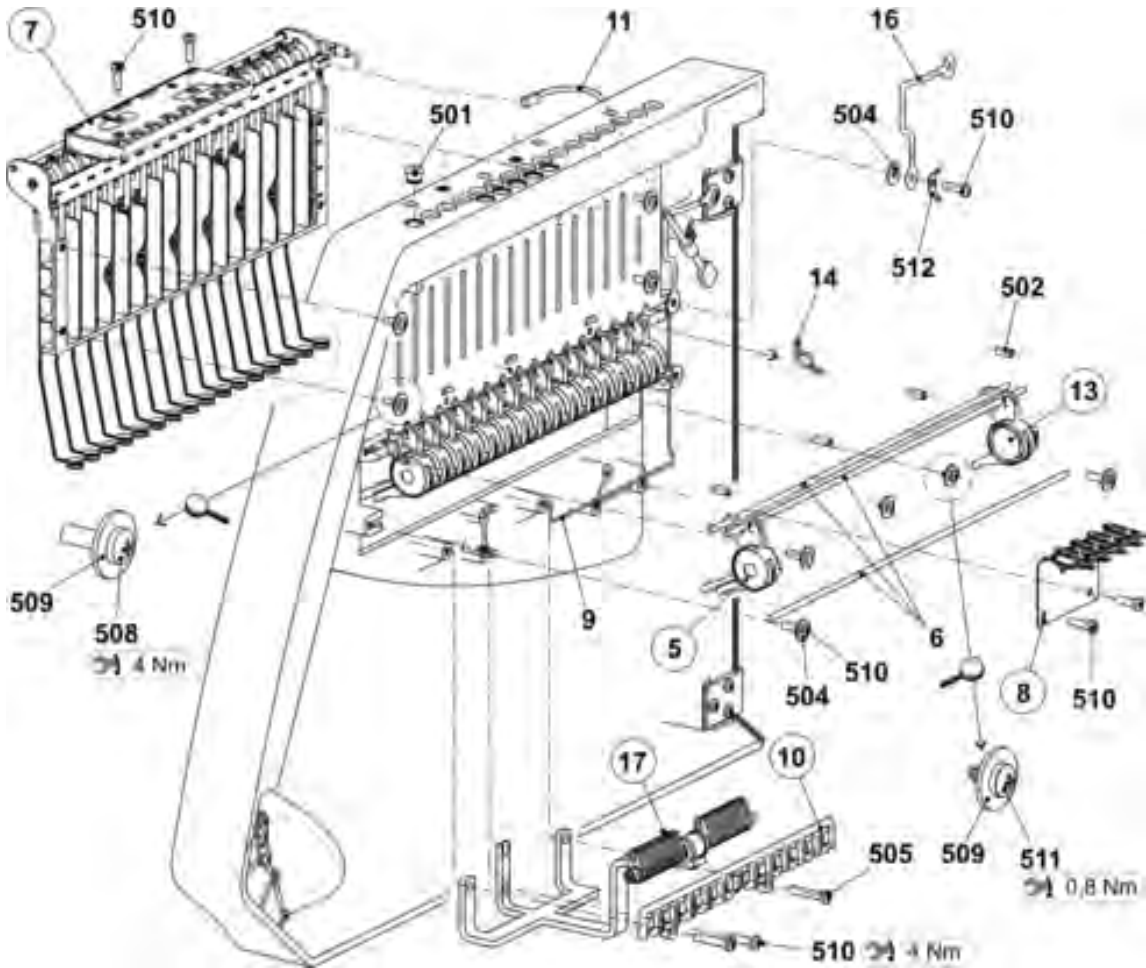
8.3 Yarn control unit

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn control unit	237 124			
1	Lamp cap	251 166	13	Tension spring	253 040
2	Turning knob	251 167	14	Tension spring	253 041
3	Knot detector for large knots	251 168	15	Ceramic eyelet open	240 733
4	Knot detector for mall knots	251 169	16	Stop bow	253 043
5	Screw	251 170	17	Jack	253 046
6	Yarn brake disk	216 365	18	Contact pin	253 047
7	Yarn holder	244 407	19	Contact pin	253 048
8	Sleeve	253 034	20	Contact pin	253 049
9	Compression spring	253 035	21	Contact pin	253 050
10	Pin	253 036	22	Compression spring	253 055
11	Trip cam	253 037	23	Turning knob	253 056
12	Tension spring	253 038	24	Disk	216 372



8.4 Left yarn guide

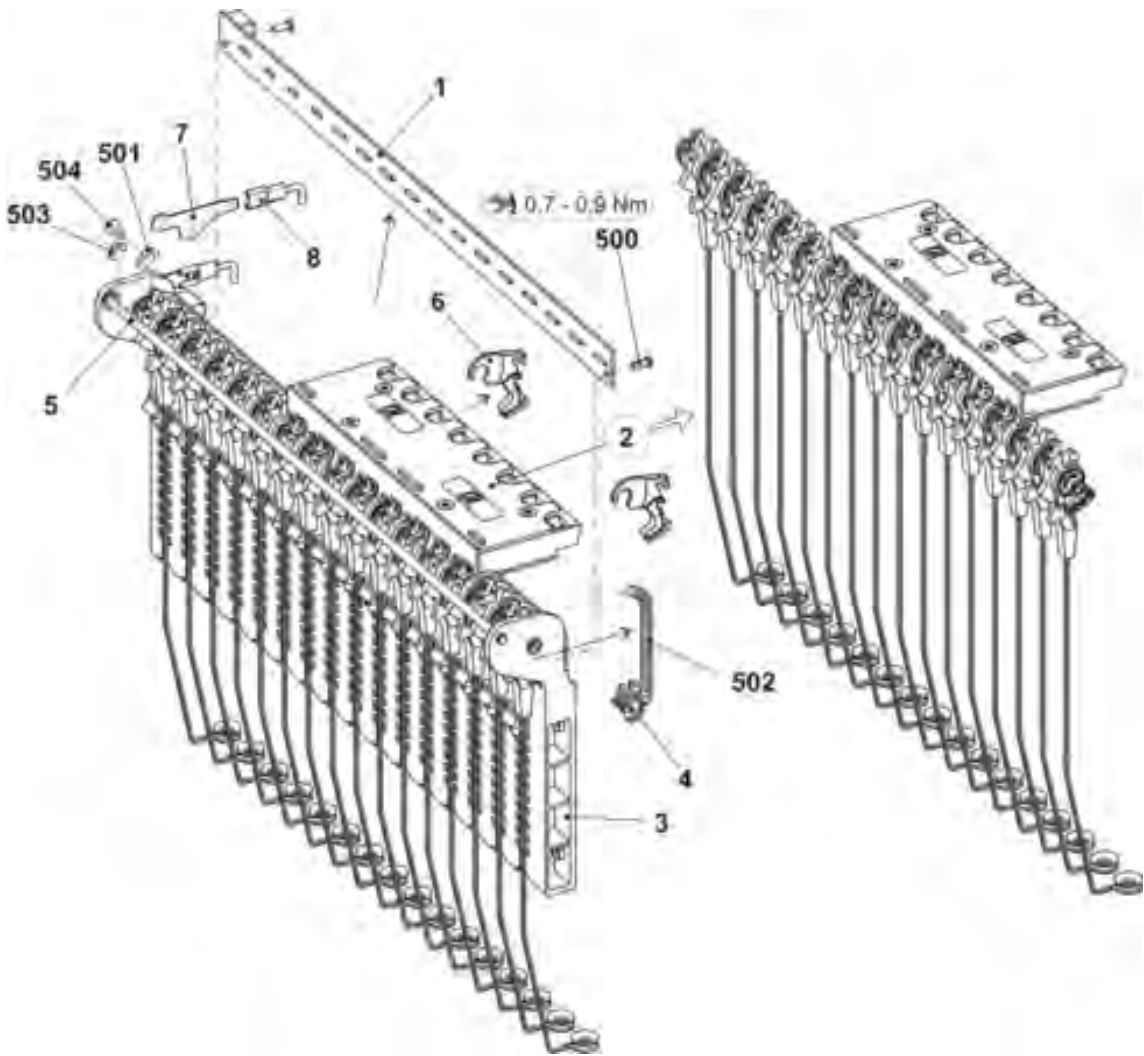
Pos	Designation	Id	Pos	Designation	Id
Σ	Safety cover on the left complete		14	Clamping bow	244 409
	E5 E3,5.2 E5.2 E5m.4 E7m.5	242 387	16	Ground cable	244 404
	E7 E8 E7m.8 E8m.7	242 388	17	Yarn guide inside	250 412
5	Yarn brake complete	244 347	501	Ceramic eyelet	240 640
6	Shaft	241 318	502	Compression spring 0.90x5.40x13.60	241 360
7	Yarn tensioner on the left complete E5	242 994	504	U-washer	022 537
	Yarn tensioner on the left complete E7-8	242 996	505	Screw KB 60x30	237 683
8	Deflector on the left complete	223 316	508	Pan-head screw M5x16	023 187
9	Wire bow on the left	241 370	509	Disc 503x18x1.5	020 909
10	Yarn deflector	242 011	510	Screw KB60 x 20	237 682
11	Connection cable yarn	240 808	511	Sheet metal screw ST4.8x9.5-F	242 374
13	Yarn brake not adjustable	244 356	512	Flat connector 2x45° M6	243 117



8.4 Left yarn guide

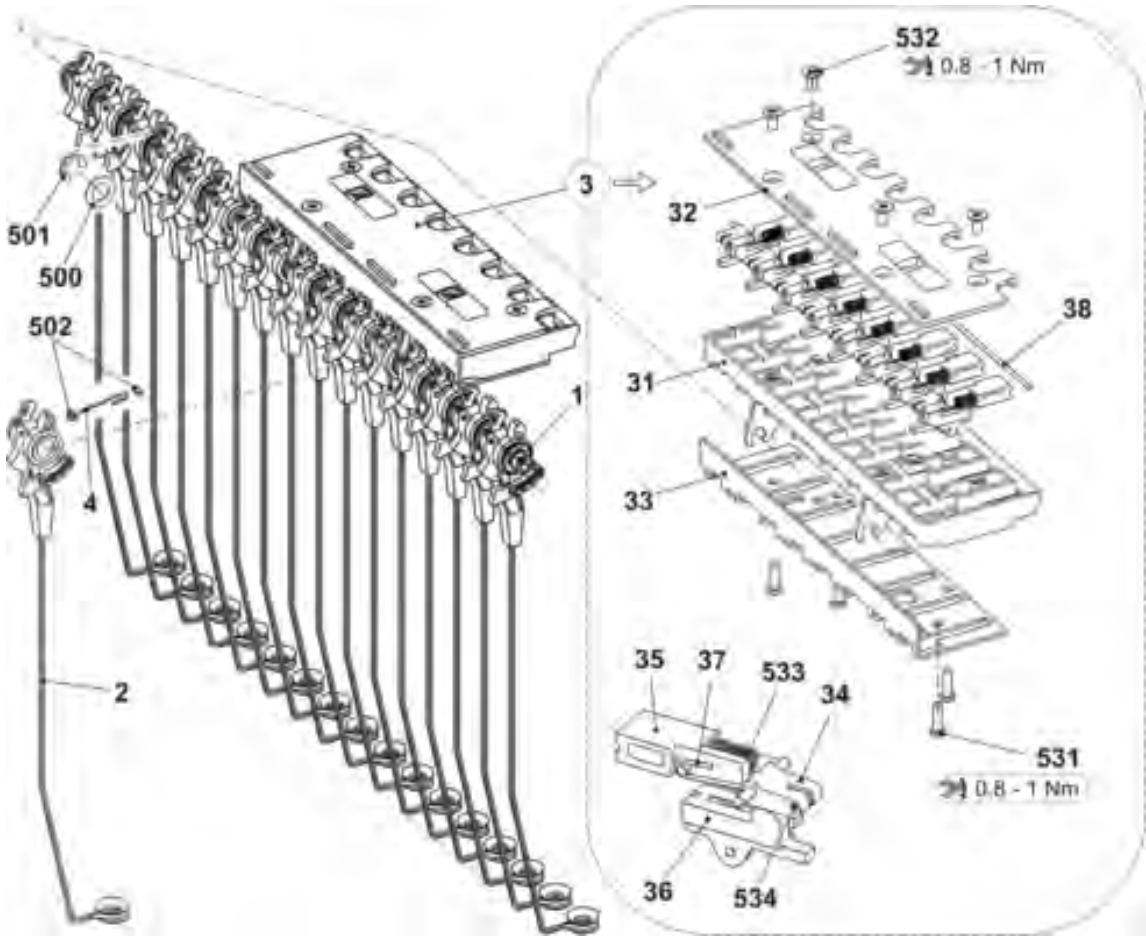
8.4.1 Left yarn tensioner

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn tensioner on the left complete				
	E5 E5m.4 E7m.5 E3,5.2	242 994	7	Grounding sheet metal of tension axle	243 121
	E7 E8 E7m.8 E8m.7 E6.2	242 996	8	Ground cable yarn tensioner OKC	243 105
1	Card yarn tensioner 16-fold on the left	241 345	500	Screw KB 30x8	236 228
2	Tension axle on the left complete E5 – 8	242 995	501	Circlip 6	021 022
3	Housing	241 367	502	Tension spring 5.05x0.55x53 (E5)	023 502
4	Slider	241 694		Tension spring 4.9x0.5x53 (E7 - E8)	023 503
5	Stop point	241 368	503	Circlip	021 020
6	Spacer	242 048	504	Countersunk screw M4x12	241 914



8.4.2 Left tension axle

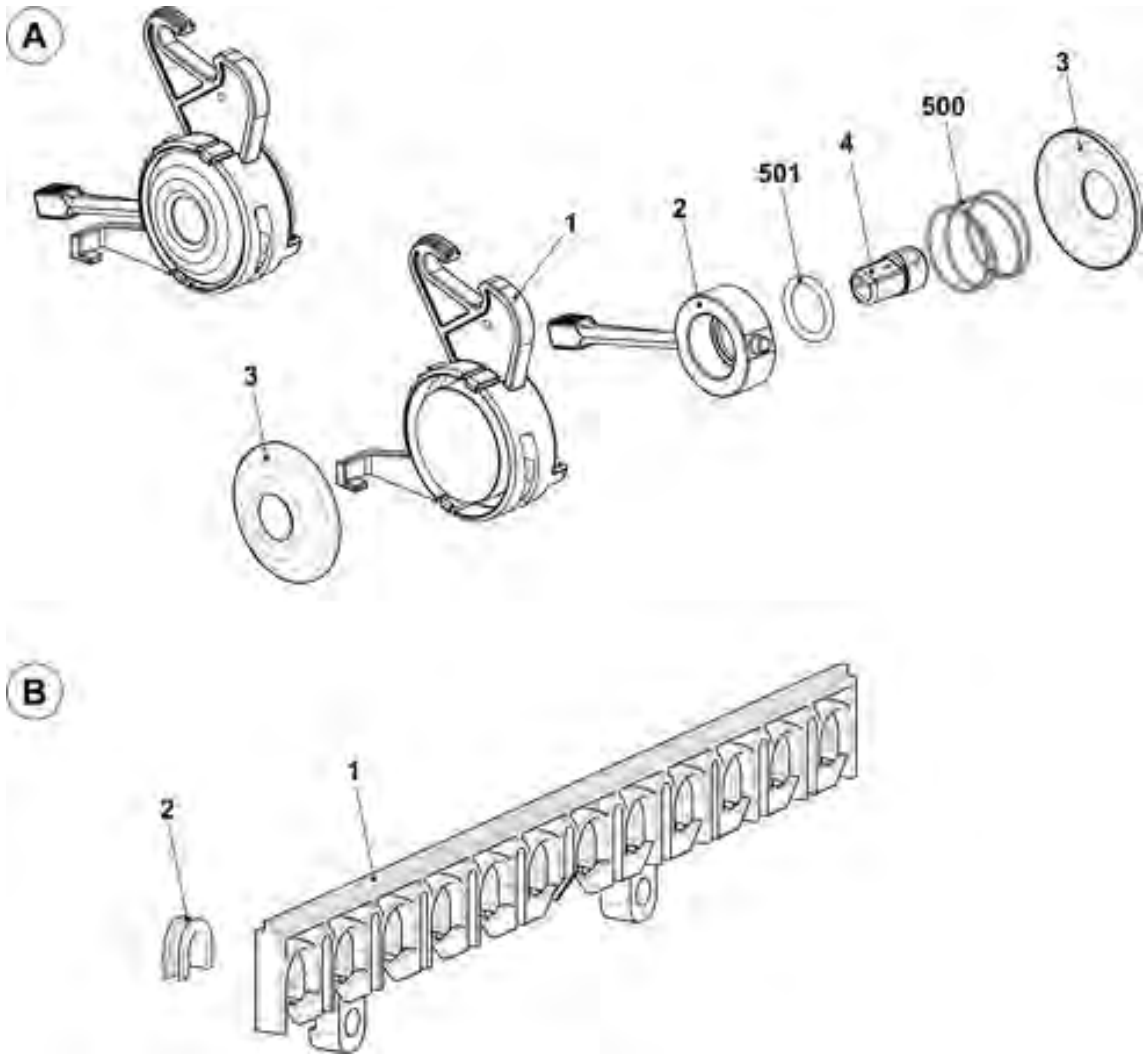
Pos	Designation	Id		Pos	Designation	Id
Σ	Tension axle on the left complete E5-8	242 995		33	Sheet metal at the bottom (housing AKF)	240 719
1	Axle	243 107		34	Lever AKF	238 692
2	Tension arm pre-assembled E3-8	242 770		35	Thrust piece AKF	238 690
4	Wire bow	238 694		36	Slider AKF	238 691
500	Shim ring 8x14x0.5	023 501		37	Wire bow	238 694
501	Circlip	021 022		38	Wire	237 940
502	Grooved pin 2x6	243 172		531	Screw KB 35x12	237 681
3	Thread clamp AKF	238 695		532	Screw KB 40x8	236 227
31	Housing AKF	238 689		533	Compression spring 0.30x4.50x18.50	241 437
32	Cover AKF	237 926		534	Grooved pin 2x6	243 172



8.4 Left yarn guide

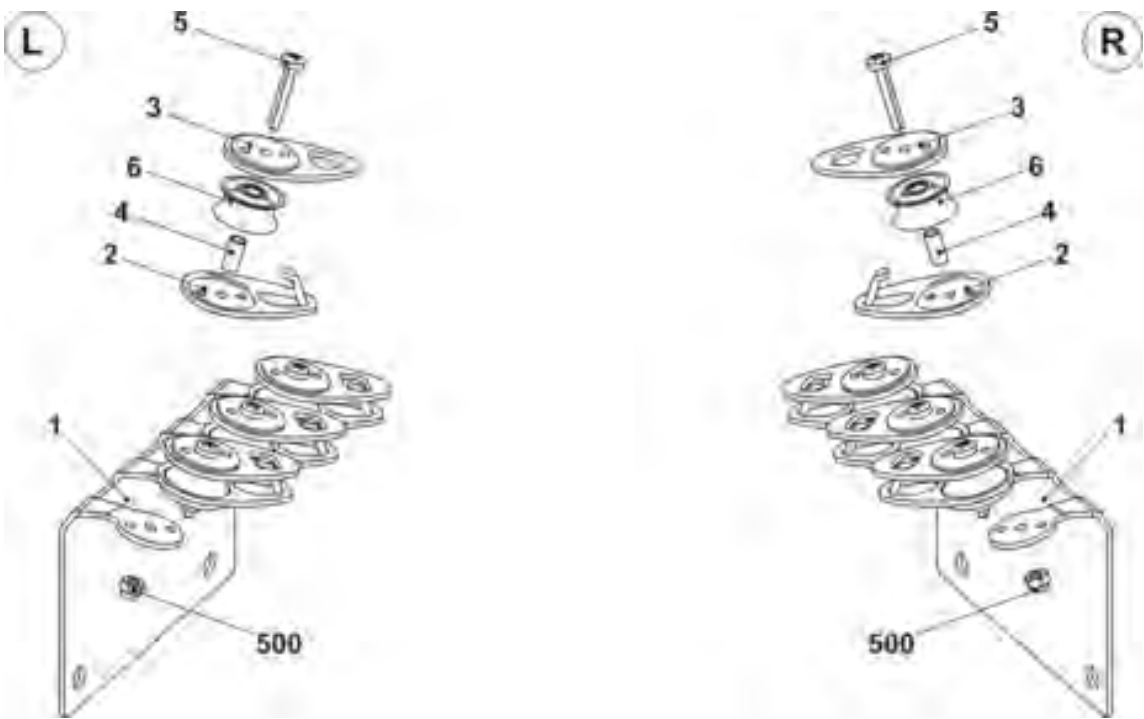
8.4.3 Yarn brake and yarn deflector

Pos	Designation	Id		Pos	Designation	Id
A	Yarn brake complete	244 347		B	Yarn deflector	242 011
1	Support	240 607		1	Support yarn deflector	242 009
2	Slider	240 606		2	Ceramic eyelet open	240 733
3	Brake disk	244 355				
4	Ceramic eyelet open	243 778				
500	Compression spring 0.65x20.15x14.80	241 361				
501	O-ring 11x2	241 434				



8.4.4 Deflector

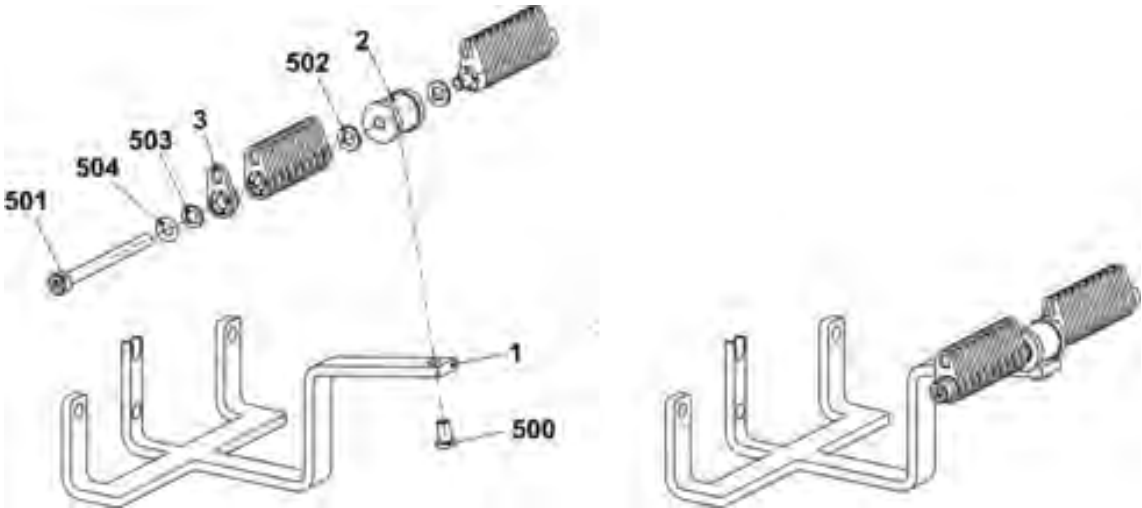
Pos	Designation	Id		Pos	Designation	Id
Σ	Deflector on the left	223 316		Σ	Deflector on the right	223 049
1	Roller support on the left	223 312		1	Roller support on the right	223 044
2	Yarn holder	217 362		2	Yarn holder	217 362
3	Yarn holder	217 363		3	Yarn holder	217 363
4	Sleeve	219 222		4	Sleeve	219 222
5	Screw	223 298		5	Screw	223 298
6	Roller deflector	218 805		6	Roller deflector	218 805
500	Hexagon nut M3-6	022 884		500	Hexagon nut M3-6	022 884



8.4 Left yarn guide

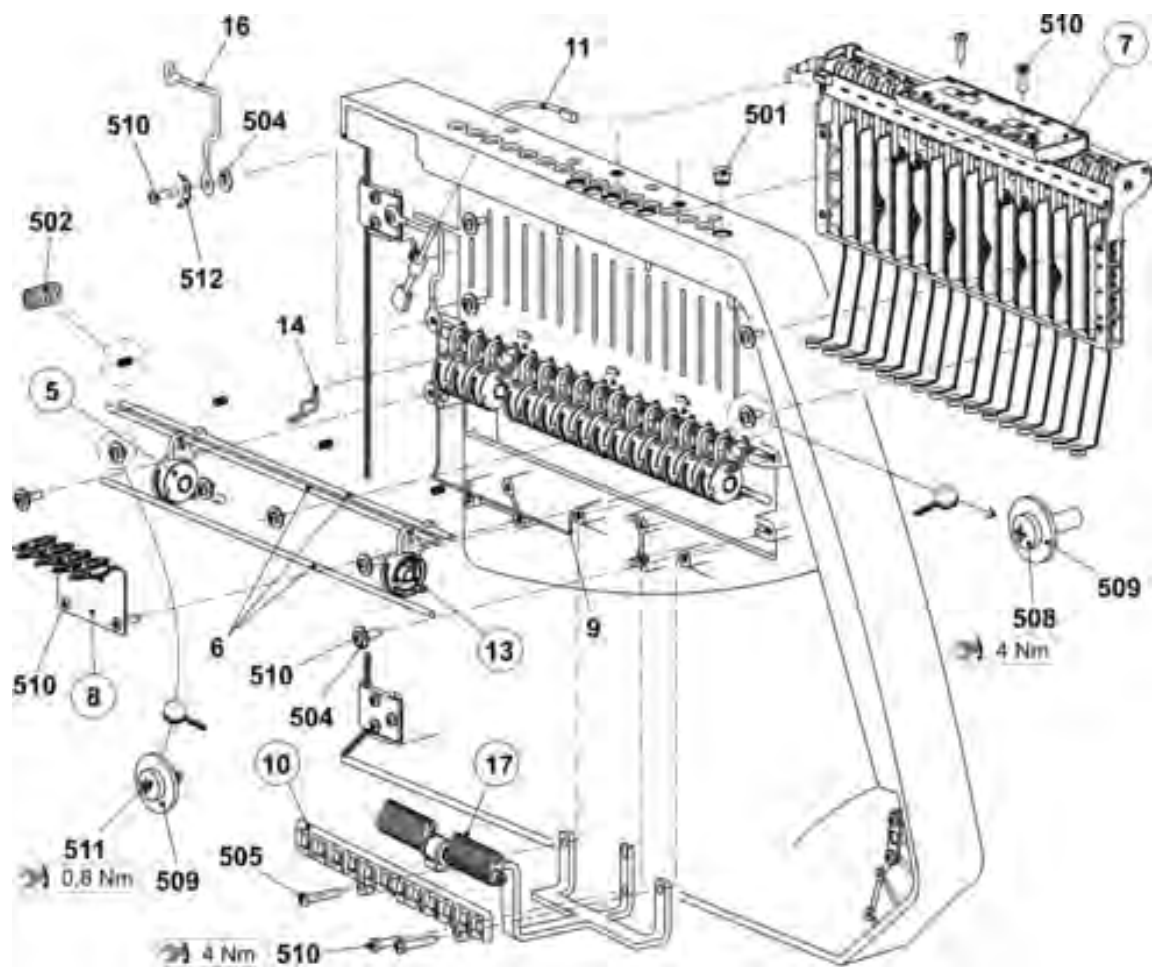
8.4.5 Yarn guide inside

Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn guide inside	250 412				
1	Holding bow	250 413		501	Cap screw M6X75	022 956
2	Bolt	214 894		502	U-washer 6	022 853
3	Yarn carrier	200 127		503	U-washer 6	020 881
500	Countersunk screw M6x10	023 183		504	O-ring 6x3	022 856



8.5 Right yarn guide

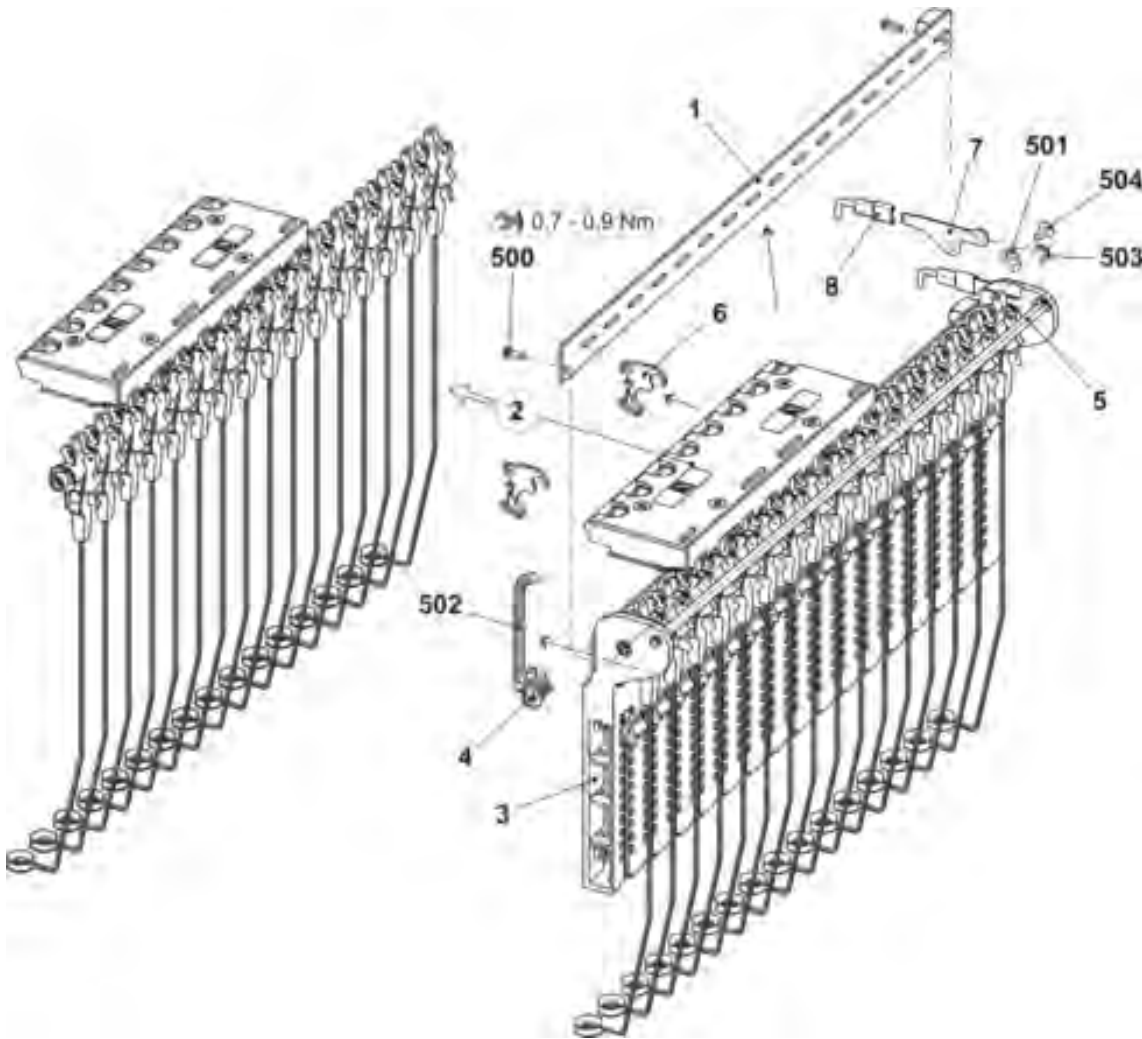
Pos	Designation	Id	Pos	Designation	Id
Σ	Safety cover on the right complete		14	Clamping bow	244 409
	E5 E3,5.2 E5.2 E5m.4 E7m.5	242 390	16	Ground cable	244 404
	E7 E8 E6.2 E7m.8 E8m.7	242 391	17	Yarn guide inside	250 412
5	Yarn brake complete	244 347	501	Ceramic eyelet	240 640
6	Shaft	241 318	502	Compression spring 0.90x5.40x13.60	241 360
7	Yarn tensioner on the right complete E5	242 999	504	U-washer	022 537
	Yarn tensioner on the right complete E7-8	243 000	505	Screw KB 60x30	237 683
8	Deflector on the right complete	223 049	508	Pan-head screw M5x16	023 187
9	Wire bow on the right	241 369	509	Disc 503x18x1.5	020 909
10	Yarn deflector	242 011	510	Screw KB60 x 20	237 682
11	Connection cable yarn E10 + E12 + E14 + E16 + E18 + E7.2 + E8.2 + E9.2 + 10m.12 + E6.2(12m.10) + E14/12tensioner OKC	240 808	511	Sheet metal screw ST 4.8x9.5-F	242 374
13	Yarn brake not adjustable	244 356	512	Flat connector 2x45° M6	243 117



8.5 Right yarn guide

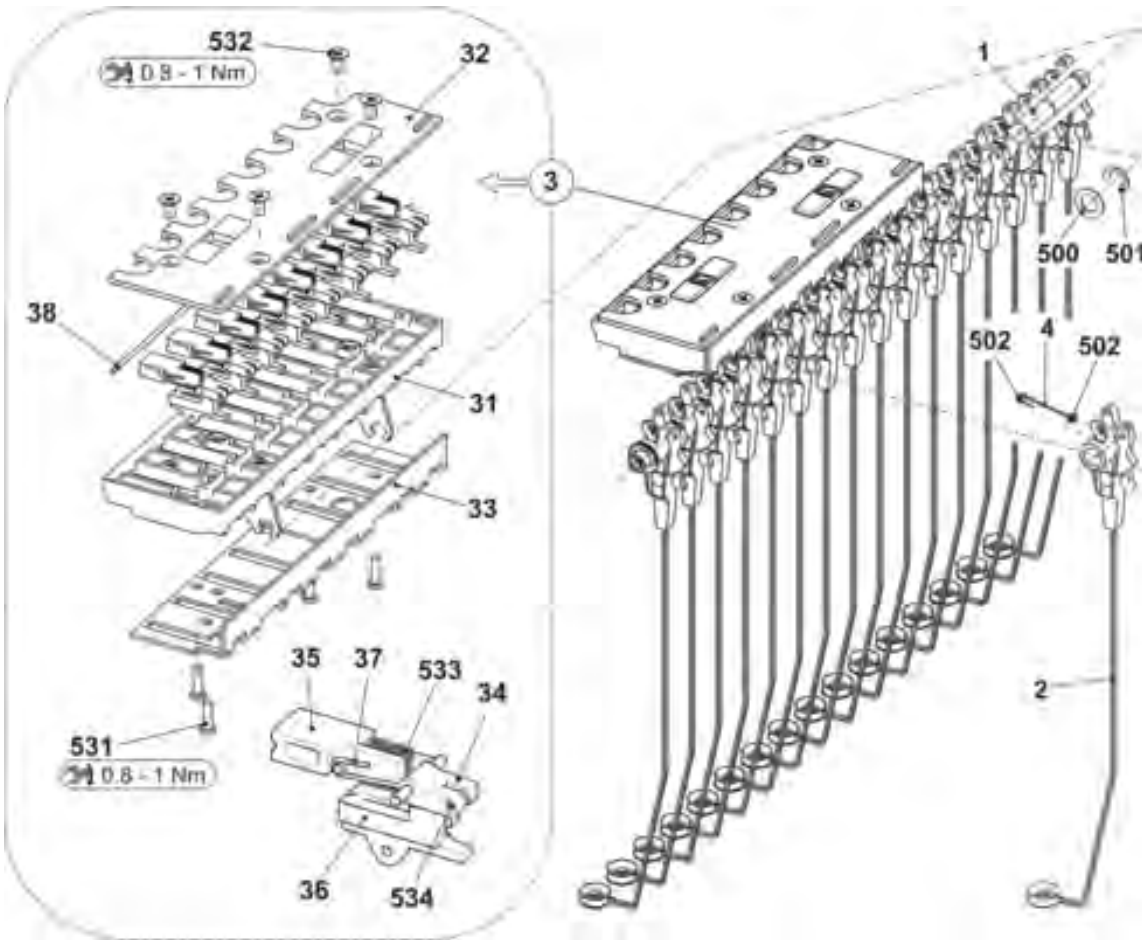
8.5.1 Right yarn tensioner

Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn tensioner on the right complete					
	E5 E5m.4 E7m.5 7m.8 E3,5.2	242 999		7	Grounding sheet metal of tension axle	243 121
	E7 E8 E7m.8 E8m.7	243 000		8	Ground cable yarn tensioner OKC	243 105
1	Card yarn tensioner 16-fold on the right	241 346		500	Screw KB 30x8	236 228
2	Tension axle on the right complete E5-8	243 351		501	Circlip	021 022
3	Housing	241 367		502	Tension spring 5.05x0.55x53 (E3-E5)	023 502
4	Slider	241 694			Tension spring 4.9x0.5x53 (E7 - E8)	023 503
5	Stop point	241 368		503	Circlip	021 020
6	Spacer	242 048		504	Countersunk screw M4x12	241 914



8.5.2 Right tension axle

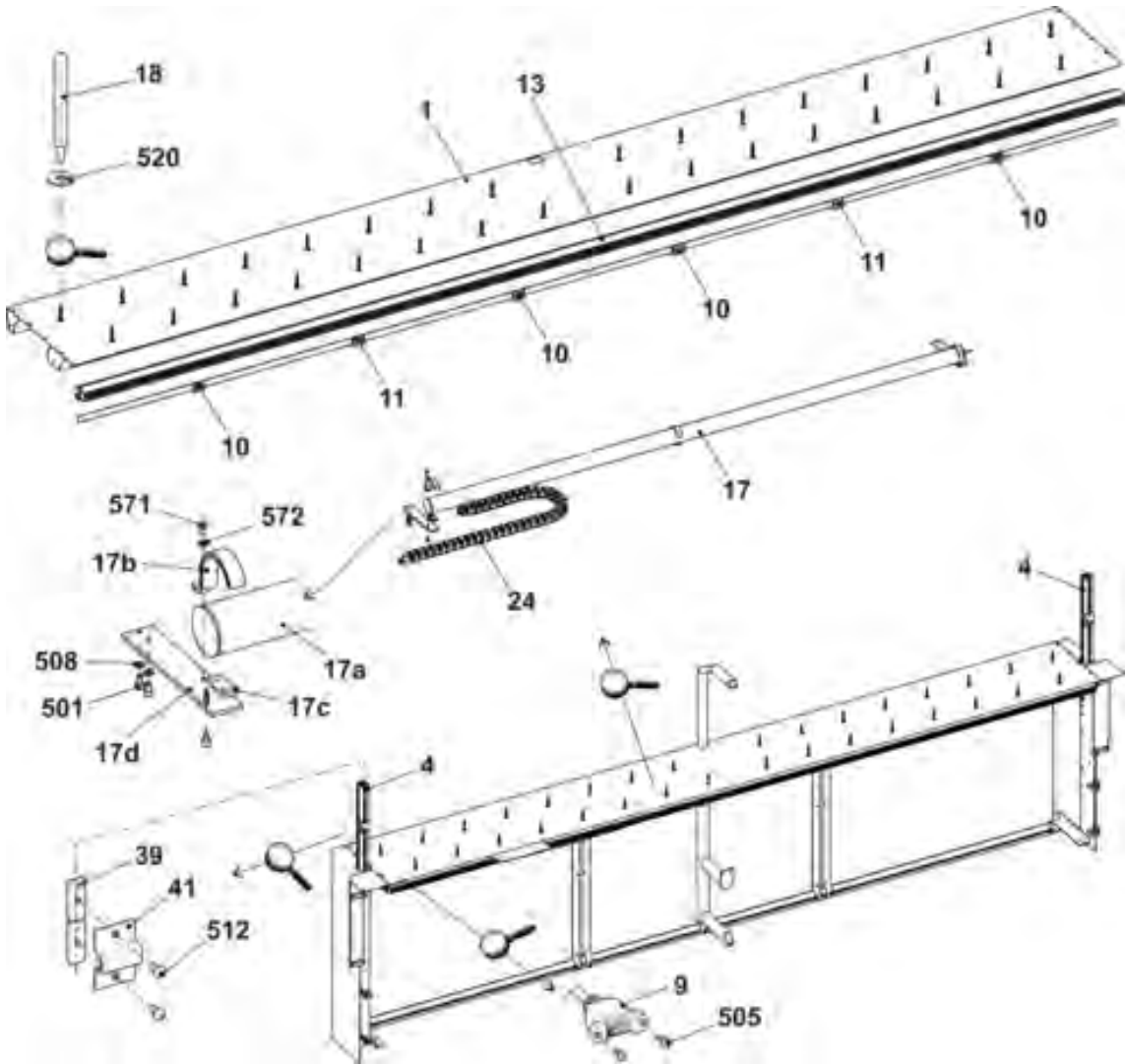
Pos	Designation	Id		Pos	Designation	Id
Σ	Tension axle on the right complete E5-8	243 351		33	Sheet metal at the bottom (housing AKF)	240 719
1	Axle	243 107		34	Lever AKF	238 692
2	Tension arm pre-assembled E3-8	242 770		35	Thrust piece AKF	238 690
4	Wire bow	238 694		36	Slider AKF	238 691
500	Shim ring 8x14x0.5	023 501		37	Wire bow	238 694
501	Circlip	021 022		38	Wire	237 940
502	Grooved pin 2x6	243 172		531	Screw KB 35x12	237 681
3	Thread clamp AKF	238 695		532	Screw KB 40x8	236 227
31	Housing AKF	238 689		533	Compression spring 0.30x4.50x18.50	241 437
32	Cover AKF	237 926		534	Grooved pin 2x6	243 172



8.6 Bobbin board

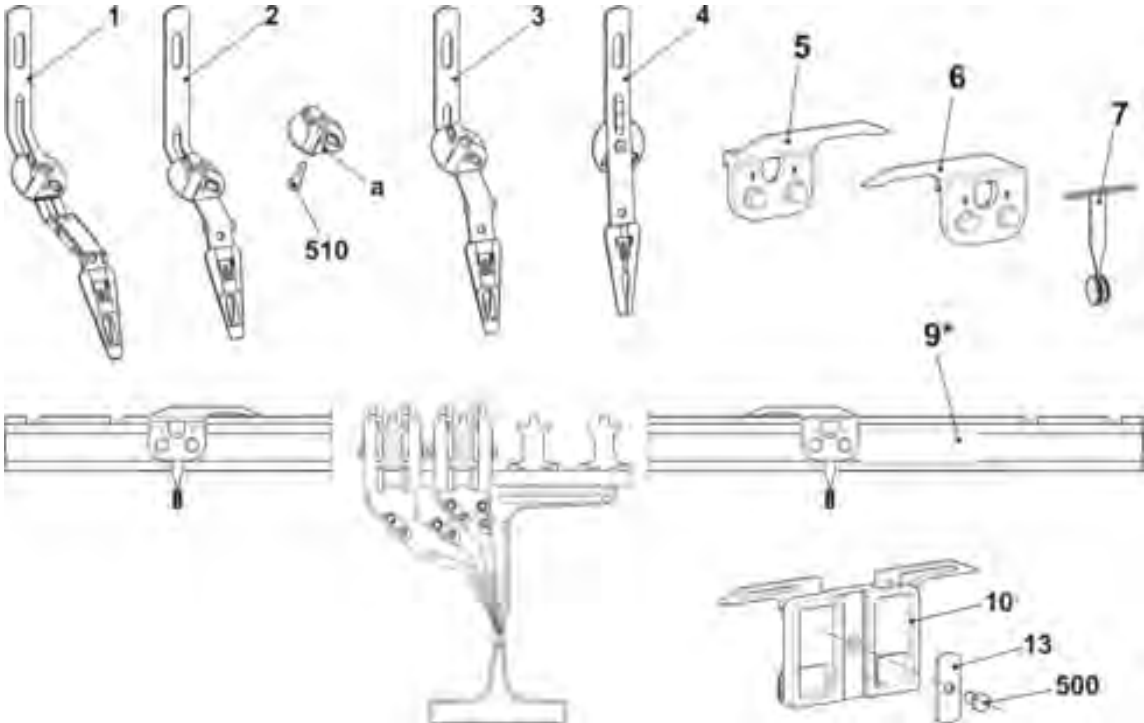
8.6 Bobbin board

Pos	Designation	Id	Pos	Designation	Id
Σ	Table complete 933	242 441	17	Lamp at the top complete	220 137
1	Table	251 247	17a	Lamp long RR60V-230	212 580
4	Support element	228 594	17b	Clamping bow	209 504
9	Cable USB extension	243 069	17c	Cellular caoutchouc 40x20	208 018
10	Magnet switch protective hood	219 983	17d	Lamp support	220 138
11	Magnet switch protective hood	220 159	571	Cap screw M6X10	022 773
13	Guide rail at the top complete	242 435	572	Serrated lock washer J6	022 385
18	Positioning pin	204 819	501	Cap screw M6X10	023 690
24	Energy chain display 38 links	253 888	505	Countersunk screw M3x8	023 251
39	Threaded strip short	200 223	508	U-washer	023 598
41	Clamp	228 583	512	Screw M8x16	023 113
			520	U-washer	020 901



8.7 Yarn carrier and guide rails

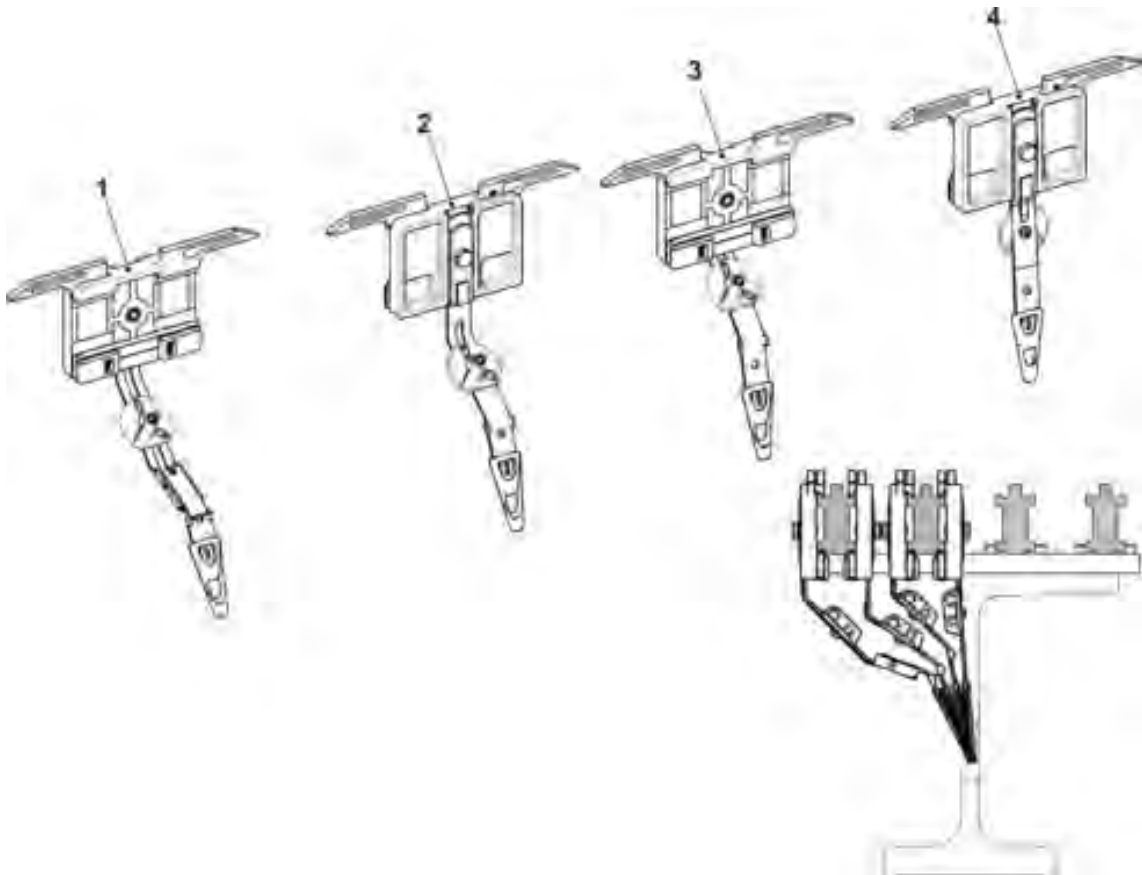
Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn guide complete E5	244 003	E5 E5m.4 E7m.5 E3,5.2 E5.2		
	Yarn guide complete E7-8	244 004	1	YC bow 1+8 complete E5	212 990
5	Limiter on the left complete	244 099	2	YC bow 2+7 complete E5	212 992
6	Limiter on the right complete	244 098	3	YC bow 3+6 complete E5	212 991
7	Slider with eyelet	230 709	4	YC bow 4+5 complete E5	212 993
9*	Yarn carrier rail	213 172	E7 E8 E7m8 E8m7		
10	YC carriage complete	243 062	1	YC bow 1+8 complete E7-8	212 892
13	Shim	213 035	2	YC bow 2+7 complete E7-8	212 914
500	Hexagonal screw M5x10	020 351	3	YC bow 3+6 complete E7-8	212 925
			4	YC bow 4+5 complete E7-8	212 910
			a	Yarn guide wheel complete	209 257
			510	Pan-head screw M3x10	023 032



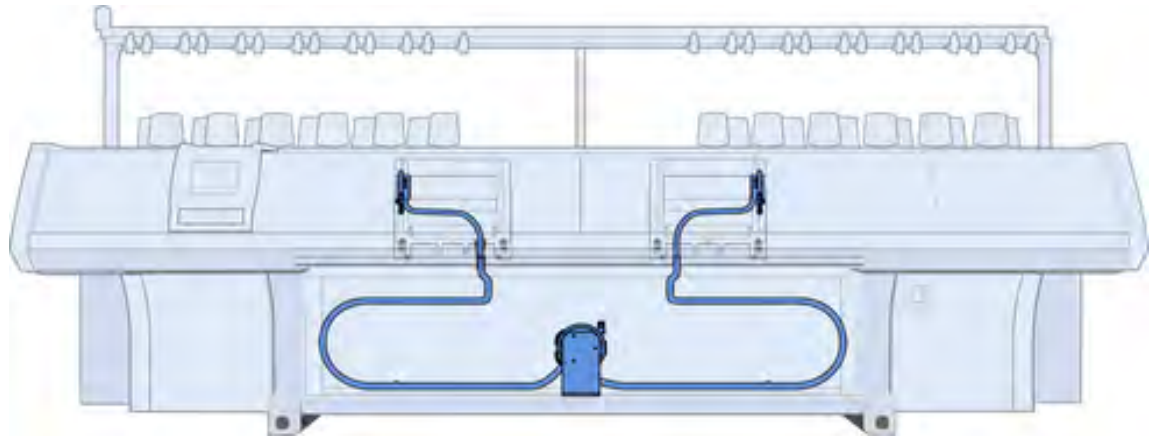
8.8 Complete yarn carriers

8.8 Complete yarn carriers

Pos	Designation	Track	Id		Pos	Designation	Track	Id
Yarn guide complete								
E5 E5m.4 E7m.5 E3,5.2 E5.2			244 003		E7 E8 E7m.8 E8m.7			244 004
1	YC carriage complete E5	1+8	243 935		1	YC carriage complete E7-8	1+8	243 939
2	YC carriage complete E5	2+7	243 934		2	YC carriage complete E7-8	2+7	243 938
3	YC carriage complete E5	3+6	243 933		3	YC carriage complete E7-8	3+6	243 937
4	YC carriage complete E5	4+5	243 932		4	YC carriage complete E7-8	4+5	243 936

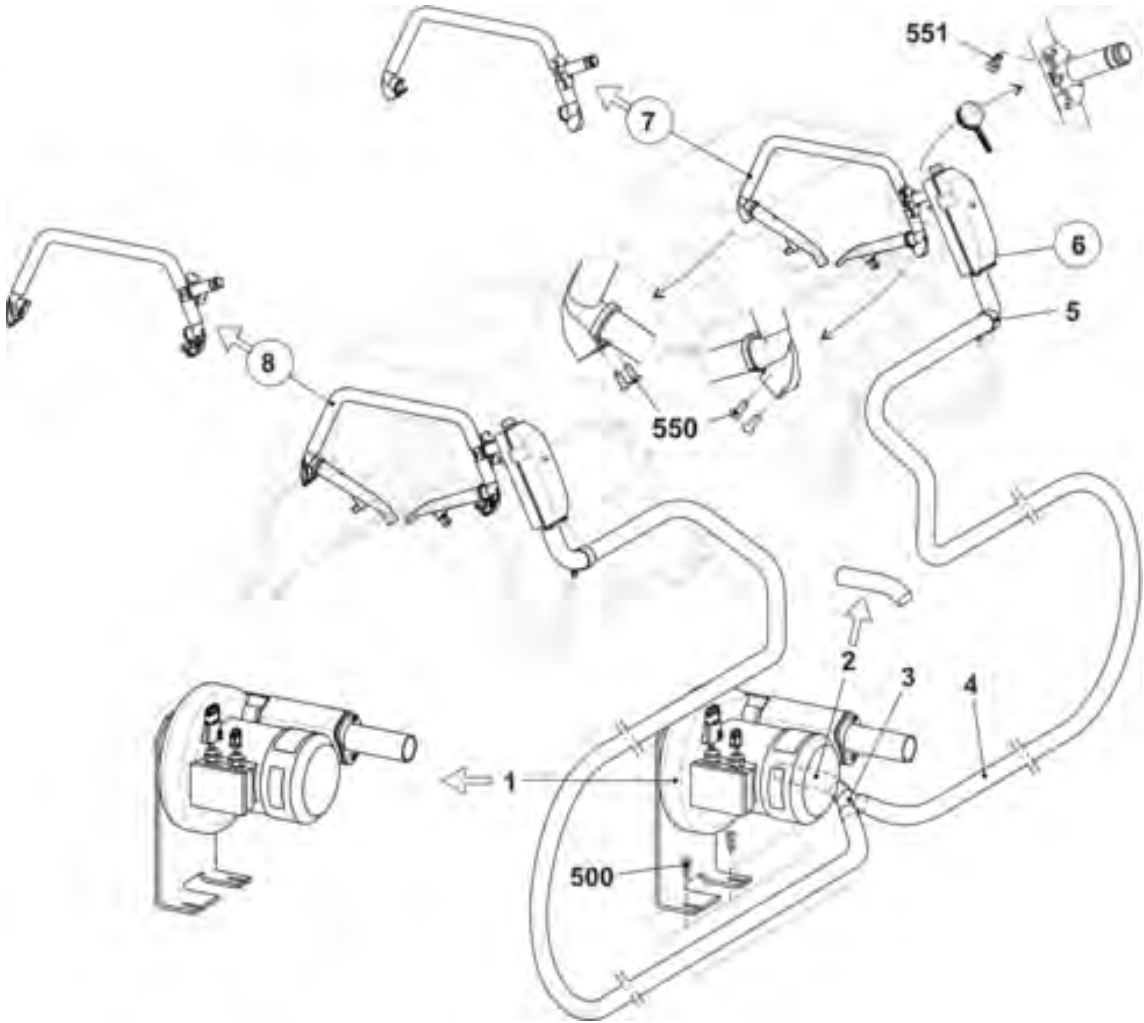


9 Fluff absorption



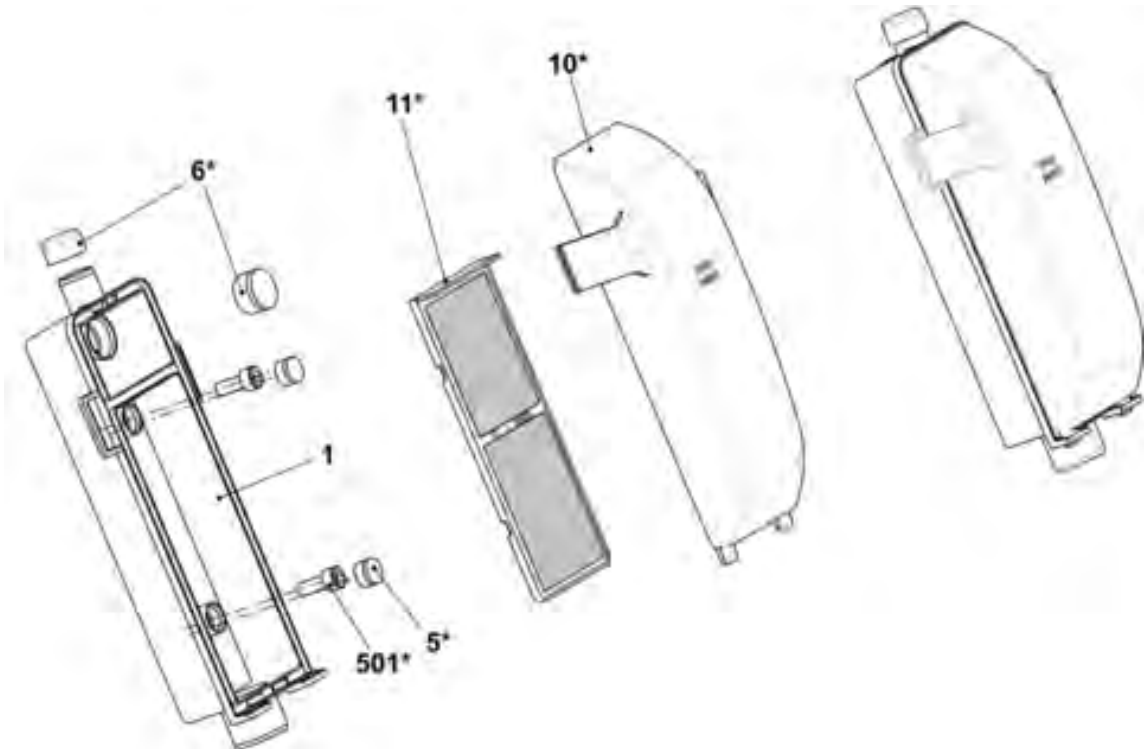
9.1 Fluff absorption

Pos	Designation	Id		Pos	Designation	Id
Σ	Fluff absorption			6	Lint container	245 024
1	Suction fan complete	251 333		7	Set of tubes on the left complete 922/933	251 349
2	Suction hose 29x25x150	251 348		8	Set of tubes on the right complete 922/933	251 350
3	Hose connector	245 011		500	Cap screw M8x16	023 629
4	Suction hose 29x25x3750	251 336		550	Countersunk head screw M4x8	251 011
5	Hose fitting	214 653		551	Cap screw M4x8	022 501



9.1.1 Lint container

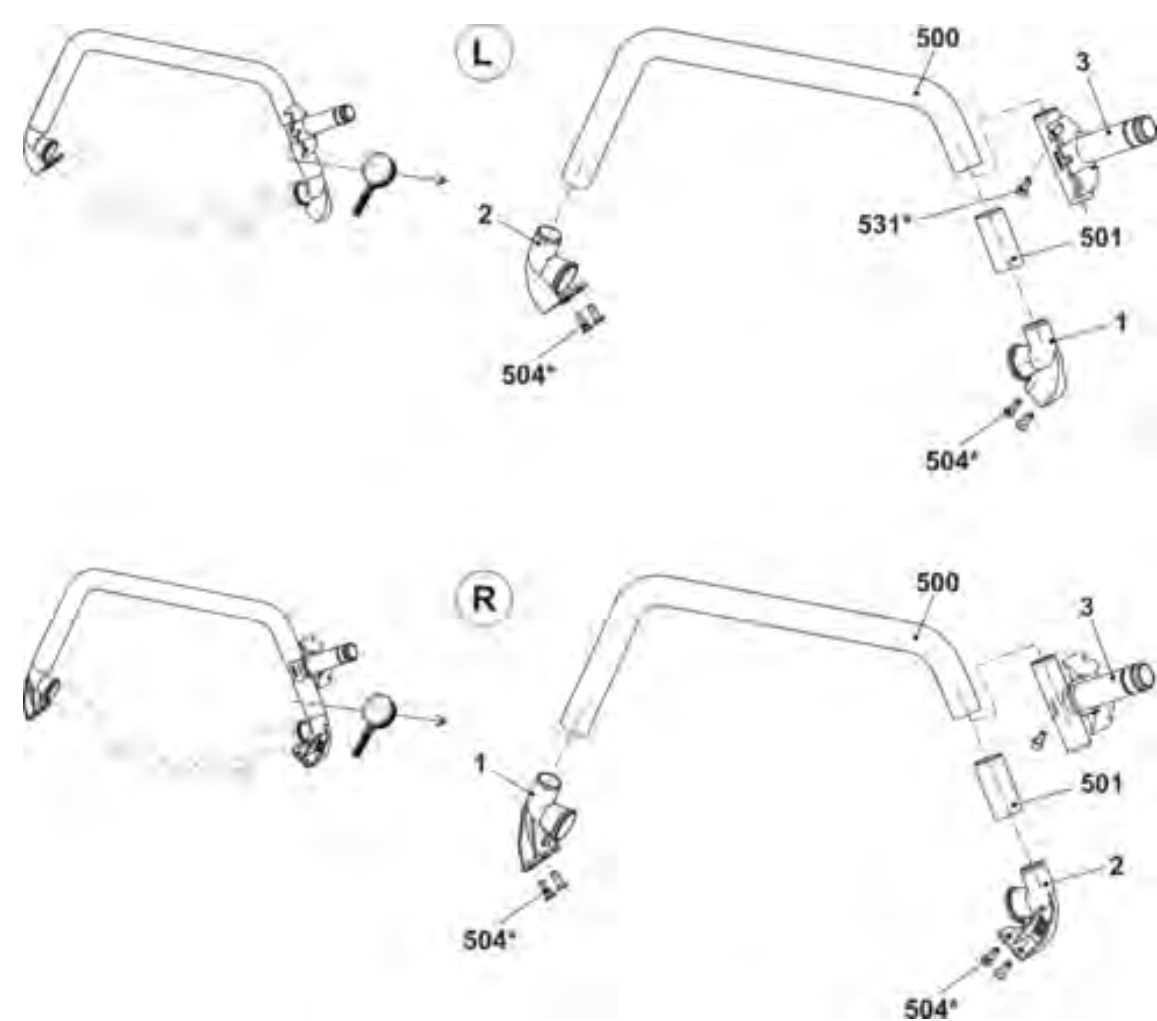
Pos	Designation	Id		Pos	Designation	Id
Σ	Lint container					
1	Lint container	245 024		10*	Cover lint container	245 027
5*	Sealing plug	245 028		11*	Filter	245 025
6*	Sealing plug	245 029		501*	Cap screw M6X10	023 690



9.1 Fluff absorption

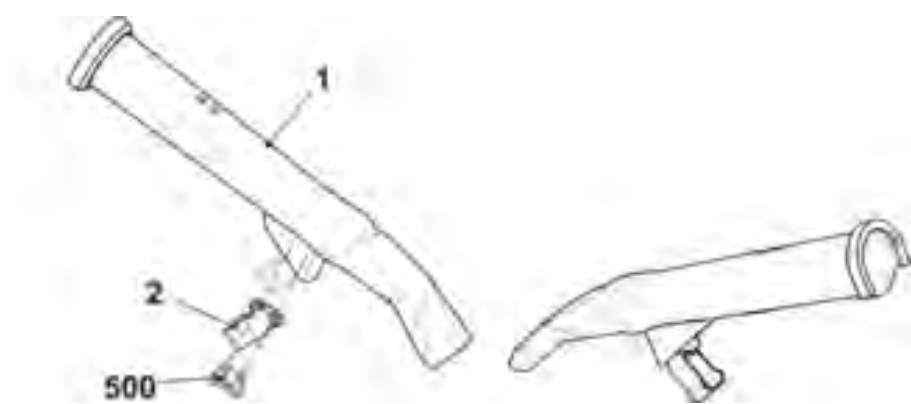
9.1.2 Set of tubes on the left and right

Pos	Designation	Id		Pos	Designation	Id
L	Set of tubes on the left complete 922/933	251 349				
R	Set of tubes on the right complete 922/933	251 350		500	Suction hose 20x16x400	244 983
1	Angle connection on the right	250 121		501	Suction hose 20x16x40	251 043
2	Angle connection on the left	251 101		504*	Countersunk head screw M4x8	251 011
3	T-piece FLENT	245 021		531*	Cap screw M4x8	022 501



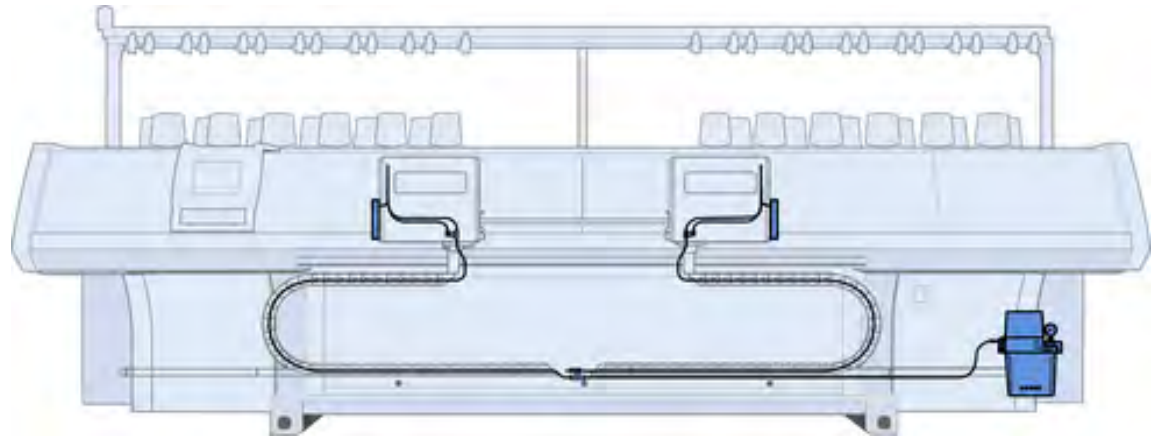
9.1.3 Suction tube

Pos	Designation	Id		Pos	Designation	Id
Σ	Suction tube complete (E4-14)	251 310		2	Bracket	255 627
1	Suction tube	255 386		500	Screw KB30x6	241 424



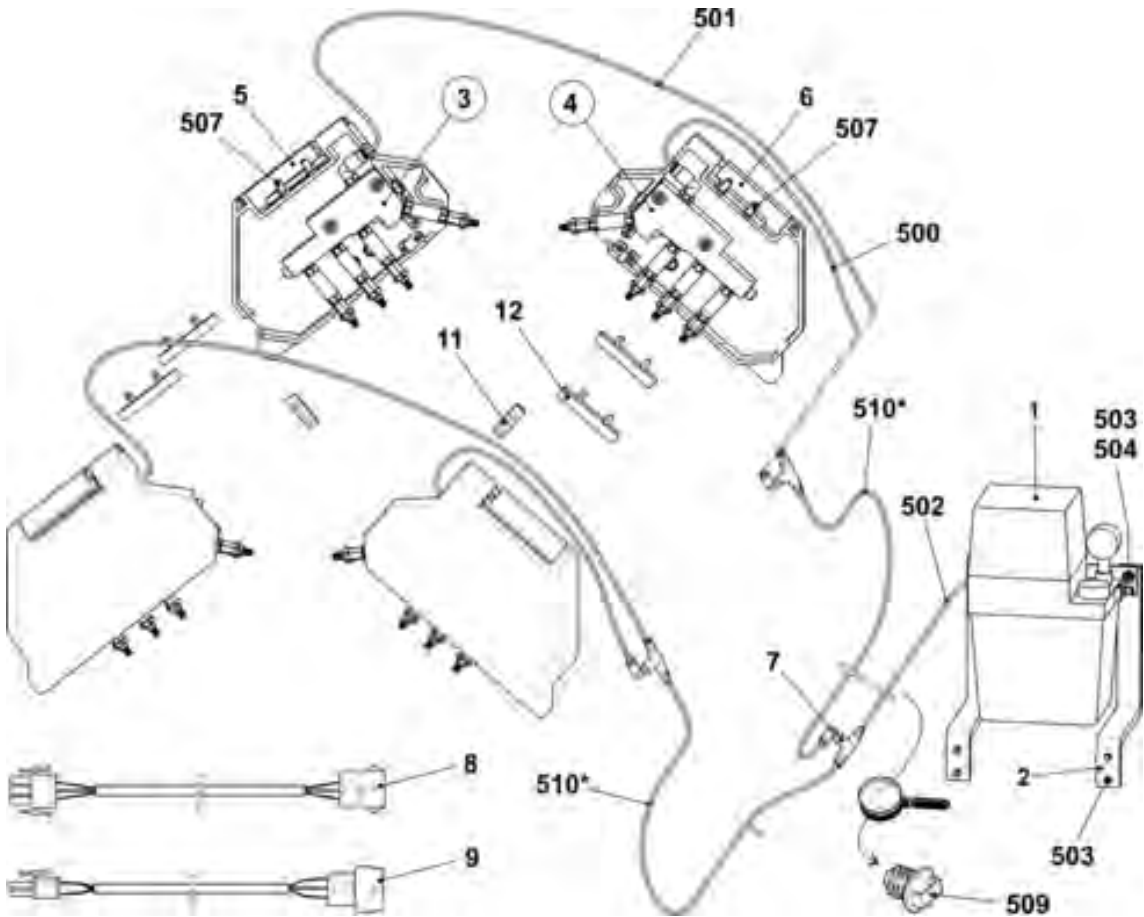
Notes:

10 Central lubrication



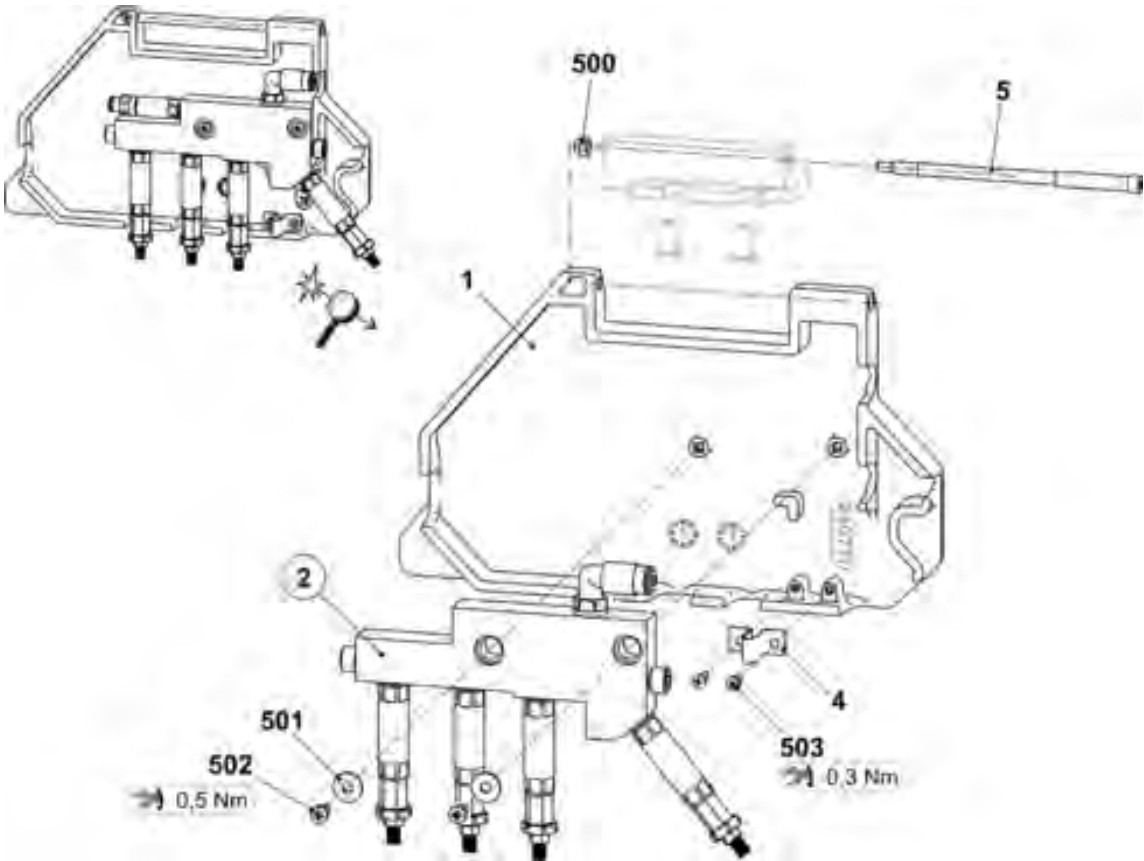
10.1 Central lubrication

Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Central lubrication	242 949		11	Sealing plug	240 777
1	Oil central lubricating pump Vogel	235 068		12	Cover	240 778
2	Support for oil equipment	241 636		500	Hose D6, L = 500	235 037
3	Lubricating unit at the front complete	241 047		501	Hose D6, L = 1000	235 038
4	Lubricating unit at the rear complete	241 048		502	Hose D6, L = 2500	236 545
5	Joint at the front	240 791		503	Cap screw M8x16	023 629
6	Joint at the rear	240 792		504	U-washer 8	020 883
7	T-piece complete	235 039		507	Countersunk screw M6x12	235 935
8	Cable mains supply 50"/96" OKC	244 406		509	Assembling element	209 543
9	Cable control ZS OKC	238 704		510*	Hose D6, L = 3300	235 044



10.1.1 Lubricating unit at the front complete

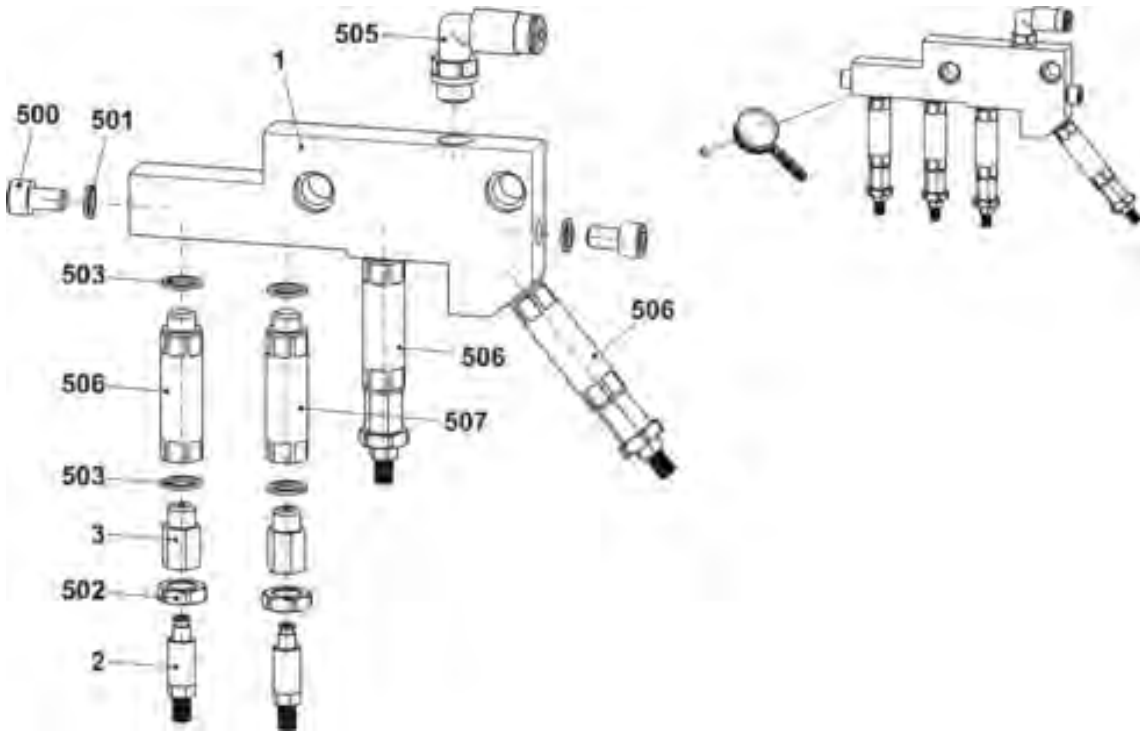
Pos	Designation	Id		Pos	Designation	Id
Σ	Lubricating unit at the front complete	241 047				
1	Housing at the front	240 771		500	Hexagon nut M4	023 046
2	Distributor complete	241 046		501	U-washer 4	023 047
4	Locking plunger	235 054		502	Screw KB 40x8	238 089
5	Shoulder screw	240 790		503	Screw KB 30x8	236 228



10.1 Central lubrication

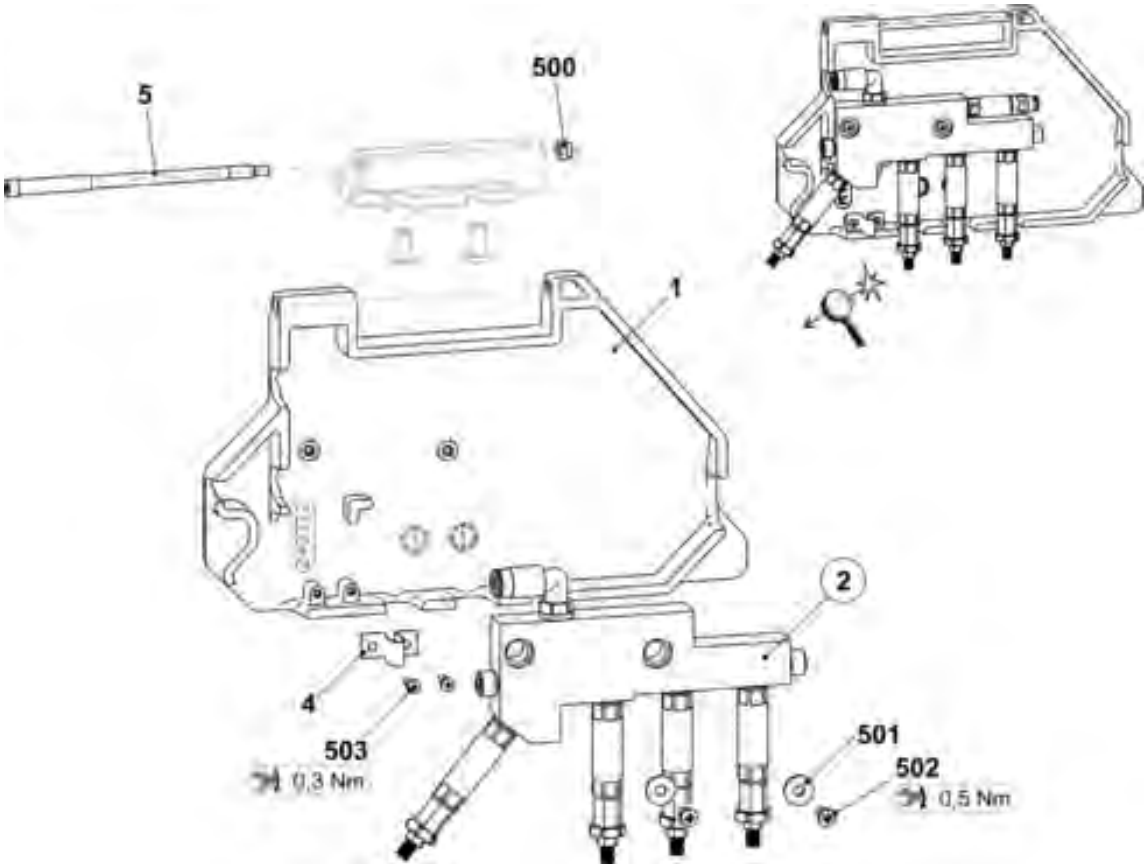
10.1.1.1 Distributor complete

Pos	Designation	Id		Pos	Designation	Id
Σ	Distributor complete	241 046				
1	Distributor	240 773		502	Hexagon nut M8-04	020 856
2	Brush	235 050		503	Sealing ring A8x11.5	023 892
3	Adapter brush	235 049		505	Swivelling connection	235 067
500	Cap screw M6X10	023 690		506	Dosing unit screw connection	235 079
501	Sealing ring A6.5x9.5	237 456		507	Dosing unit screw connection	237 809



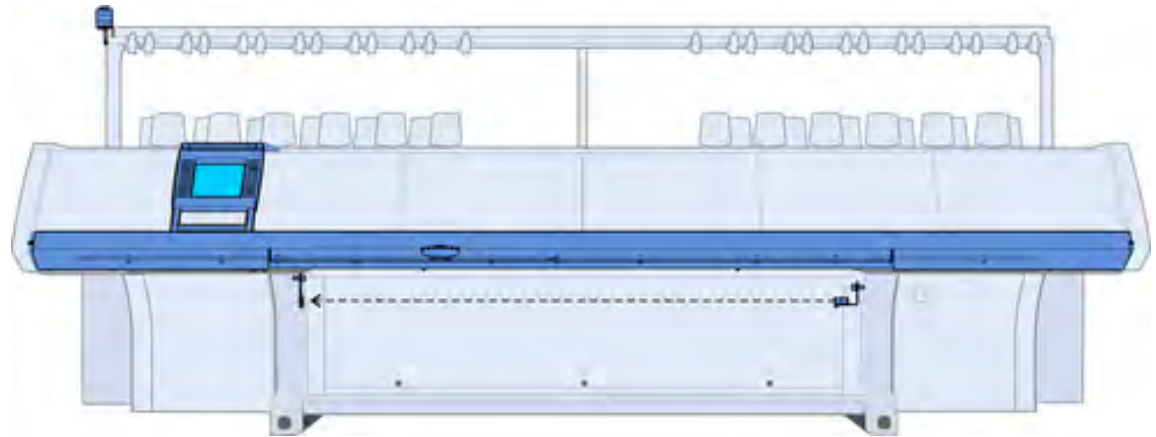
10.1.2 Lubricating unit at the rear complete

Pos	Designation	Id		Pos	Designation	Id
Σ	Lubricating unit at the rear complete	241 048				
1	Housing at the rear	240 772		500	Hexagon nut M4	023 046
2	Distributor complete	241 046		501	U-washer 4	023 047
4	Locking plunger	235 054		502	Screw KB 40x8	238 089
5	Shoulder screw	240 790		503	Screw KB 30x8	236 228



Notes:

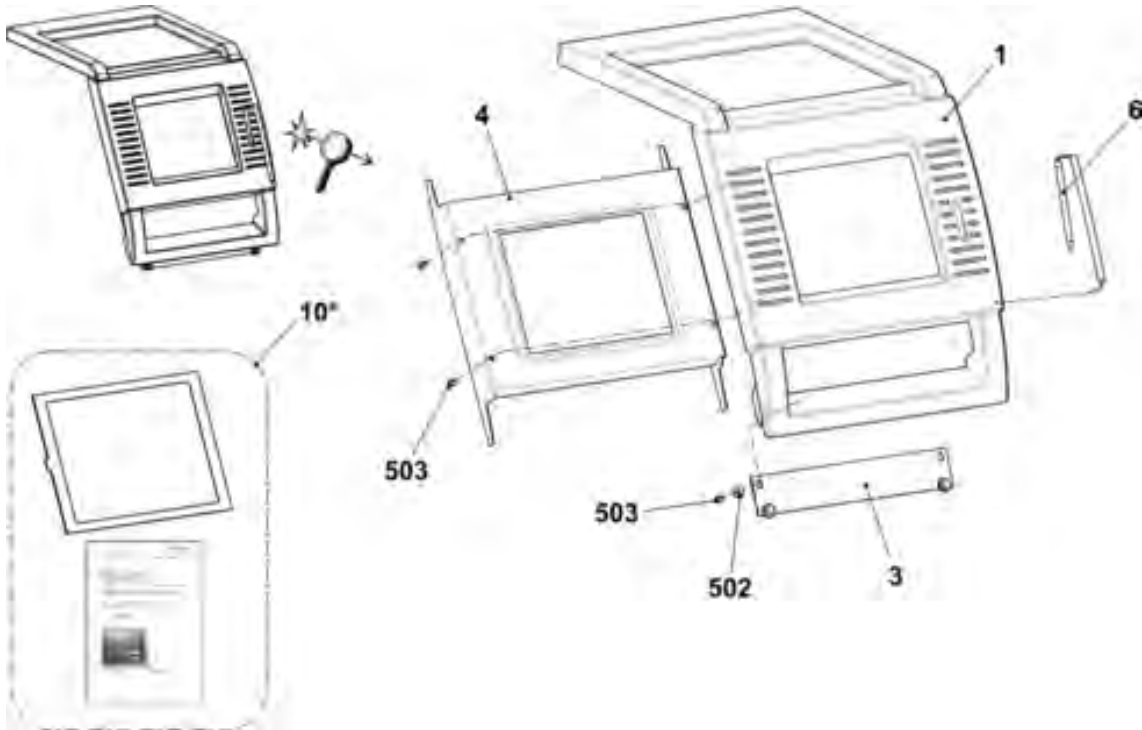
11 Operation and control



11.1 Input unit

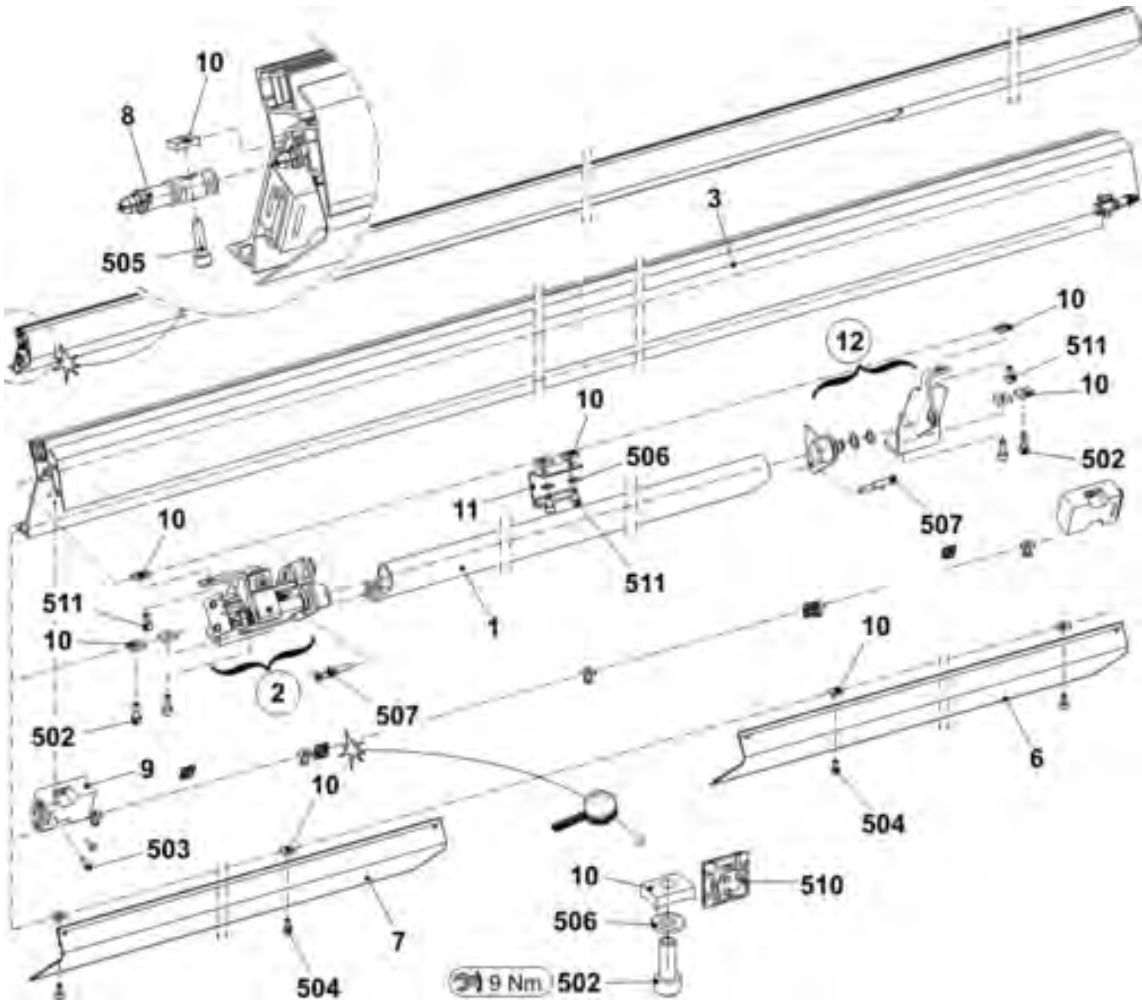
11.1 Input unit

Pos	Designation	Ident No.		Pos	Designation	Ident No.
Σ	Input unit complete	240 194		6	Touch pen	242 812
1	Base frame	240 195		10*	Touch panel spare parts package	244 554
3	Bearing strip complete	240 198		502	U-washer	020 901
4	Display touch complete	250 298		503	Screw KB 50x12	240 359



11.2 Starting unit

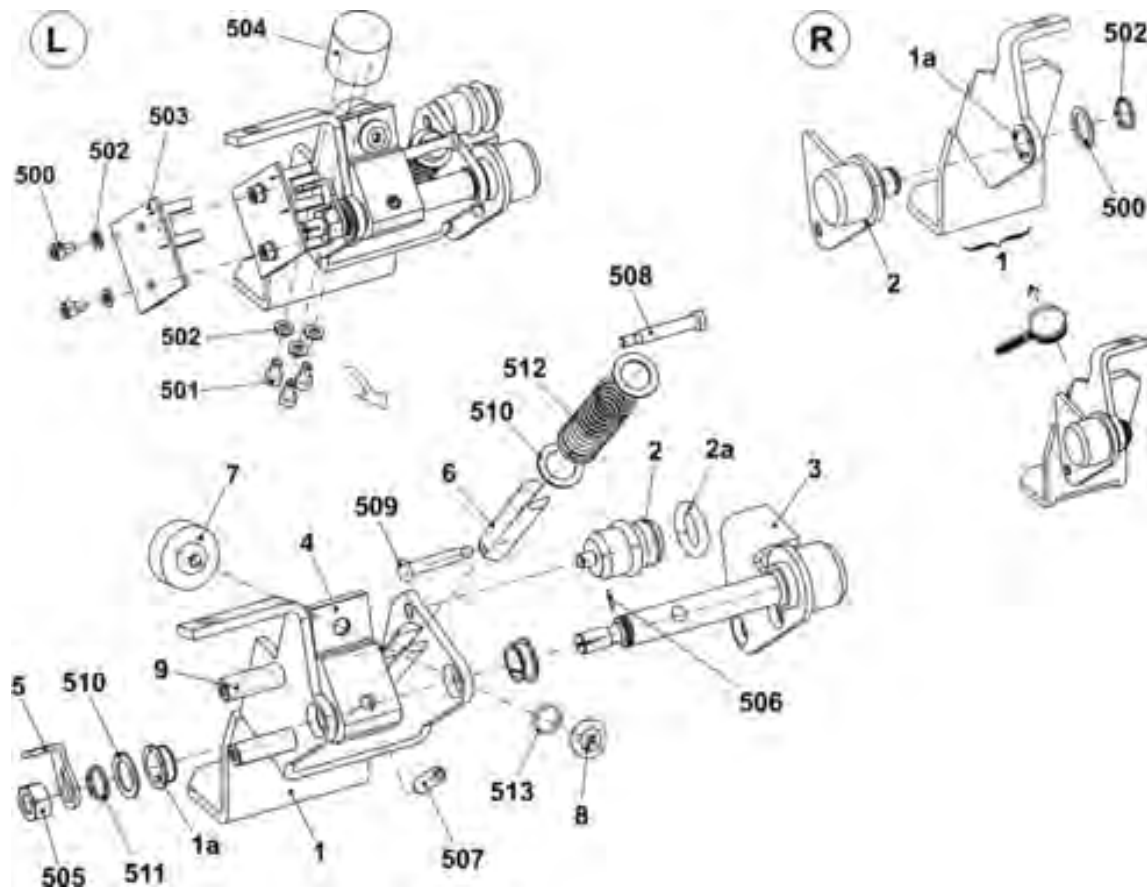
Pos	Designation	Id	Pos	Designation	Id
Σ	Starting unit complete	241 229			
1	Engaging rod	241 224	12	Bearing on the right complete	252 964
2	Bearing on the left complete	250 071	502	Cap screw M6x16	020 135
3	Guide rail at the bottom complete	251 228	503	Countersunk screw M5x14	023 588
6	Cover plate on the right	251 218	504	Cap screw M6X12	020 134
7	Cover plate on the left	251 219	505	Cap screw M6X20	020 136
8	Fixing bolt	219 107	506	U-washer 6	020 872
9	Switch with cable to protective hoods	223 350	507	Screw M6x25	023 510
10	Sliding nut (sliding block)	225 099	510	Adhesive base	243 055
11	Stabilizer	244 634	511	Cap screw M6X10	023 690



11.2 Starting unit

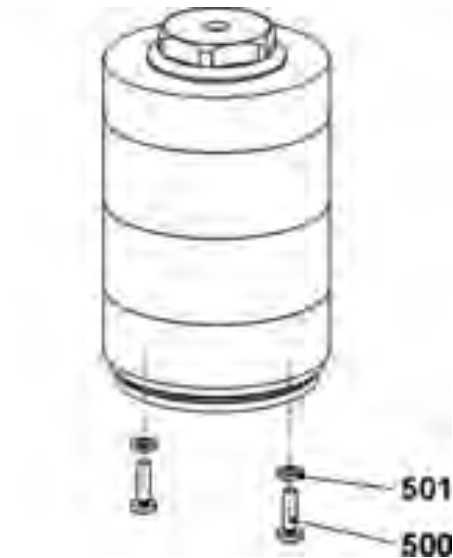
11.2.1 Bearing of the engaging rod

Pos	Designation	Ident No.	Pos	Designation	Ident No.
L	Bearing on the left complete	250 071			
1	Bearing on the left	245 218	505	Hexagon nut M4-6	020 838
1a	Clip bearing MCM12-04	023 639	506	Dowel pin 1.5x8	236 923
2	Support buffer	220 561	507	Spring dowel sleeve 6x20	023 719
2a	O-ring 14x4	023 237	508	Shoulder screw M4x24.8x7.7	240 299
3	Shaft on the left	245 219	509	Shoulder screw	251 316
4	Rotor	253 776	510	Adjusting washer 12x18x1	023 315
5	Switch flag	245 220	511	Locking ring 12x1	020 951
6	Spring mandrel	251 340	512	Compression spring 1.25x15x98.2	023 609
7	Disc	245 222	513	Compression spring 0.5x11x12	251 369
8	Shoulder screw	254 528			
9	Distance bolt	240 287	R	Bearing on the right complete	252 964
500	Cap screw M4X6	023 067	1	Bearing on the right	240 230
501	Cap screw M4x8	022 501	1a	Clip bearing MCM 12-04	023 639
502	Adjusting washer 4x8x1	023 369	2	Shaft on the right	242 888
503	Card engaging	240 167	500	Shim ring 12x18x1	023 315
504	Adhesive magnet direct current	026 233	502	Locking ring 12x1	020 951



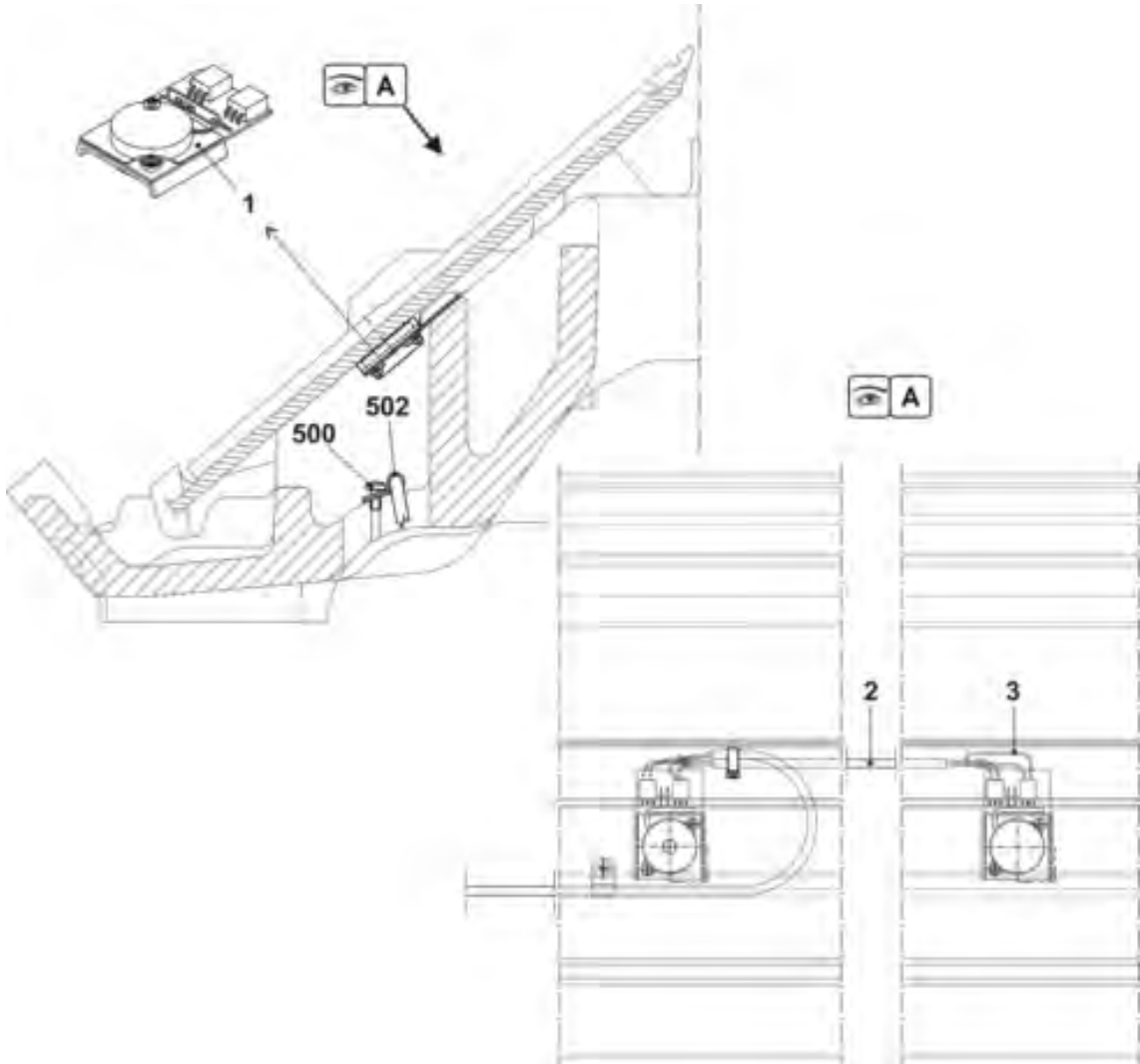
11.3 Signal light

Pos	Designation		Id		Pos	Designation		Id
Σ	Warning light LED		240 395					
	500	Countersunk screw M4x14	023 037					
	501	Serrated lock washer A4.3-FS	022 482					



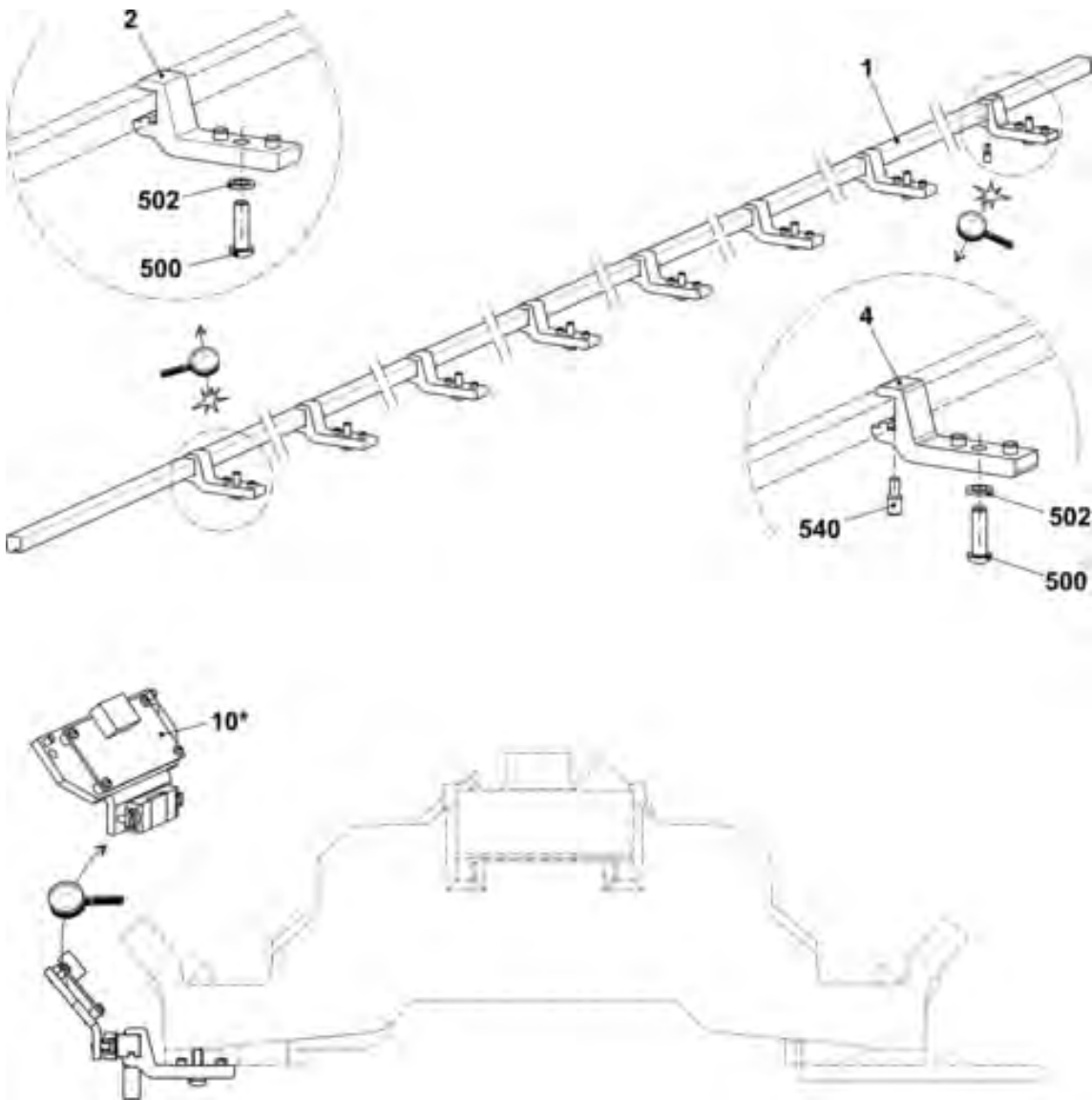
11.4 Shock stop motion

Pos	Designation	Id		Pos	Designation	Id
Σ	Shock stop motion complete	220 873		3	End plug piezo sensor	220 053
1	Shock stop motion (Piezo)	220 011		500	Pan-head screw M4x8	023 036
2	Connecting cable piezo sensor	220 063		502	Cable clip N-3B, 5 mm	210 729



11.5 Measuring device E5 + 8

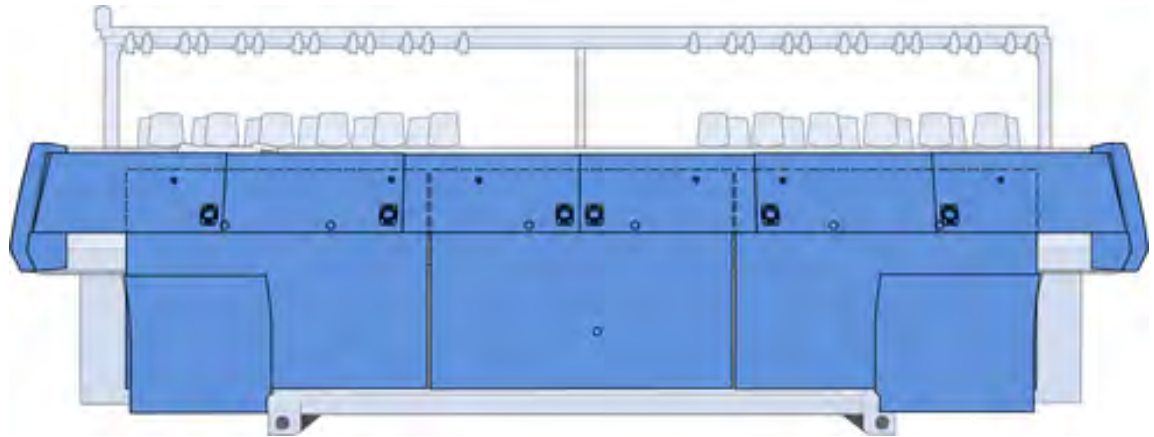
Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Measuring device E5 + E7 + E8 + E5m.4 + E7m.5 + E7m.8 + E8m.7 + E3,5.2	254 154				
1	Measuring bar	242 358		500	Countersunk screw	241 603
2	Guidance	212 210		502	U-washer	020 881
4	Guidance	240 672		10*	Measuring head complete	240 562
	540 Set screw	230 803				



11.5 Measuring device E5 + 8

Notes:

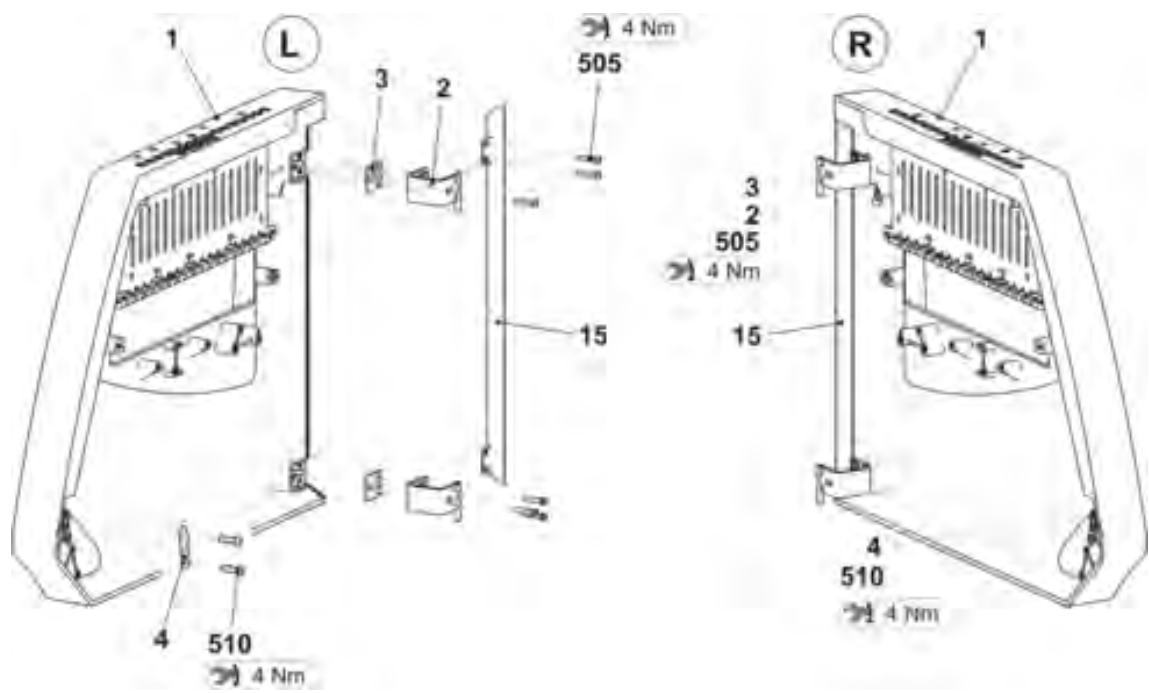
12 Protective device



12.1 Lateral safety covers

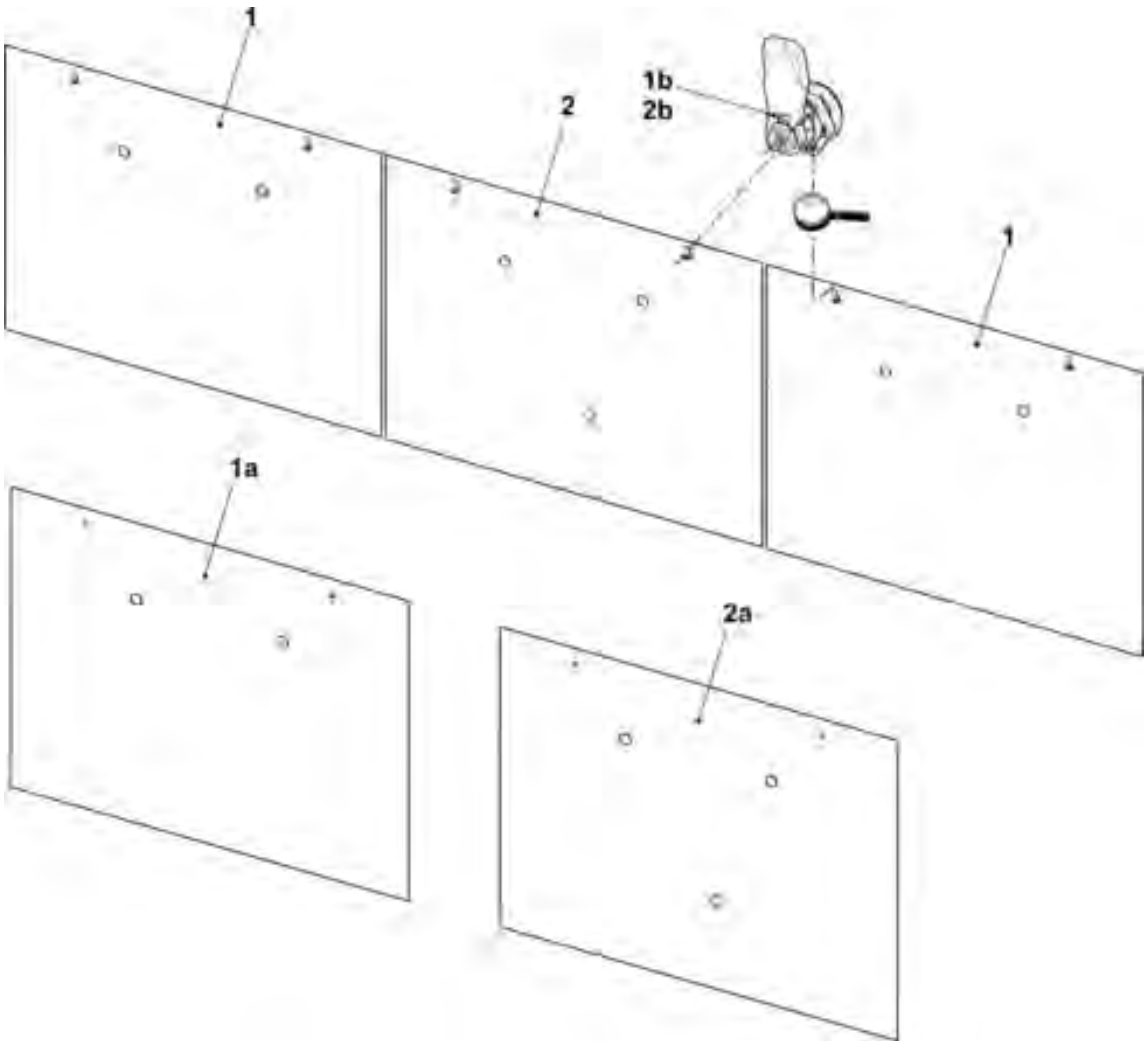
12.1 Lateral safety covers

Pos	Designation	Id		Pos	Designation	Id
Σ	Safety cover on the left			Σ	Safety cover on the right	
1	Safety cover on the left	250 562		1	Safety cover on the right	250 563
2	Hinge left safety cover	242 751		2	Hinge right safety cover	242 752
3	Plate	224 717		3	Plate	224 717
4	Locking plate	219 748		4	Locking plate	219 748
15	Cover at left safety cover	242 749		15	Cover at left safety cover	242 750
505	Screw KB 60x30	237 683		505	Screw KB 60x30	237 683
510	Screw KB60 x 20	237 682		510	Screw KB60 x 20	237 682



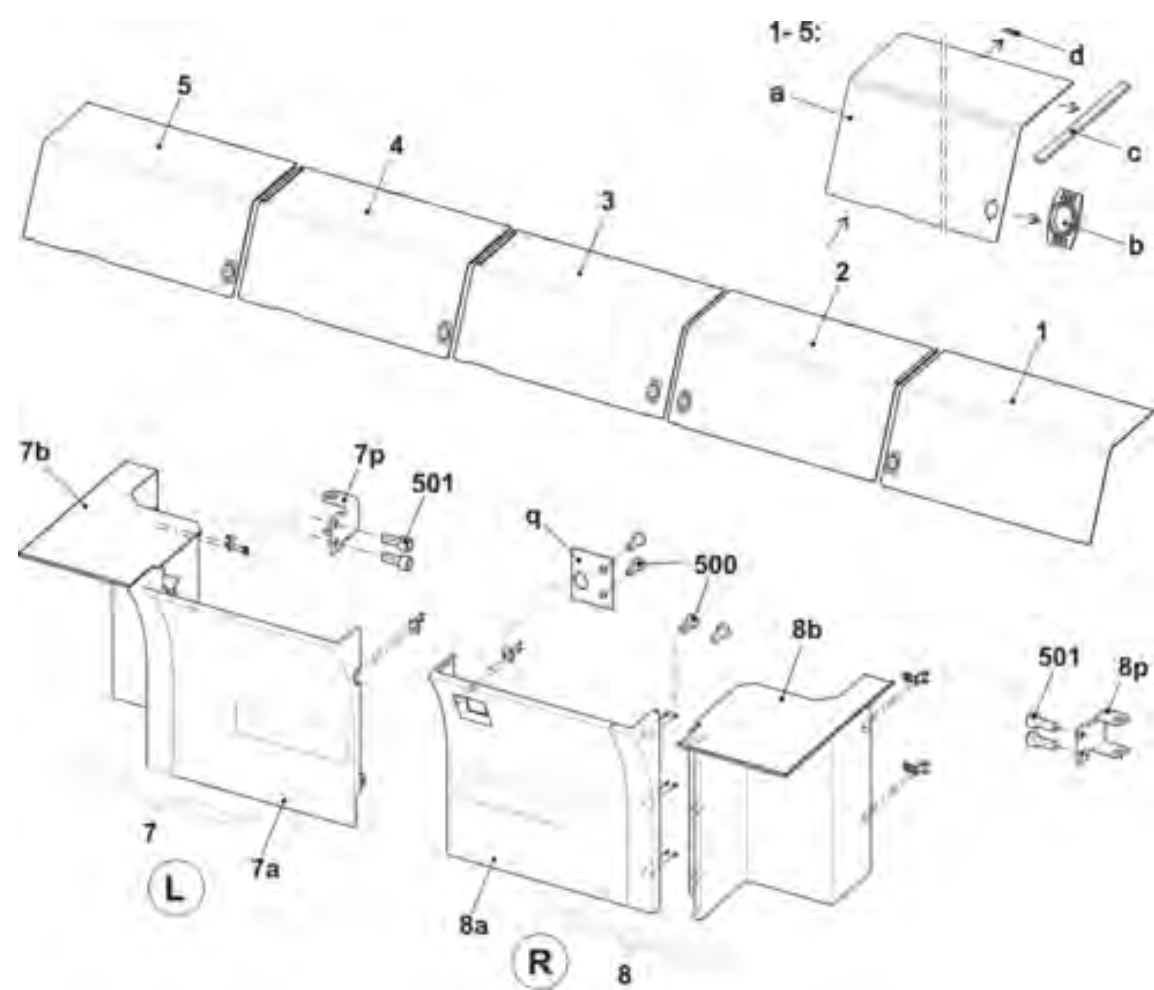
12.2 Rear panel

Pos	Designation		Id		Pos	Designation		Id
1	Panelling at the rear complete		257 716		2	Panelling at the rear complete		257 718
	1a	Panelling at the rear	257 715			2a	Panelling at the rear	257 717
	1b	Safety sash fastener complete	243 052			2b	Safety sash fastener complete	243 052

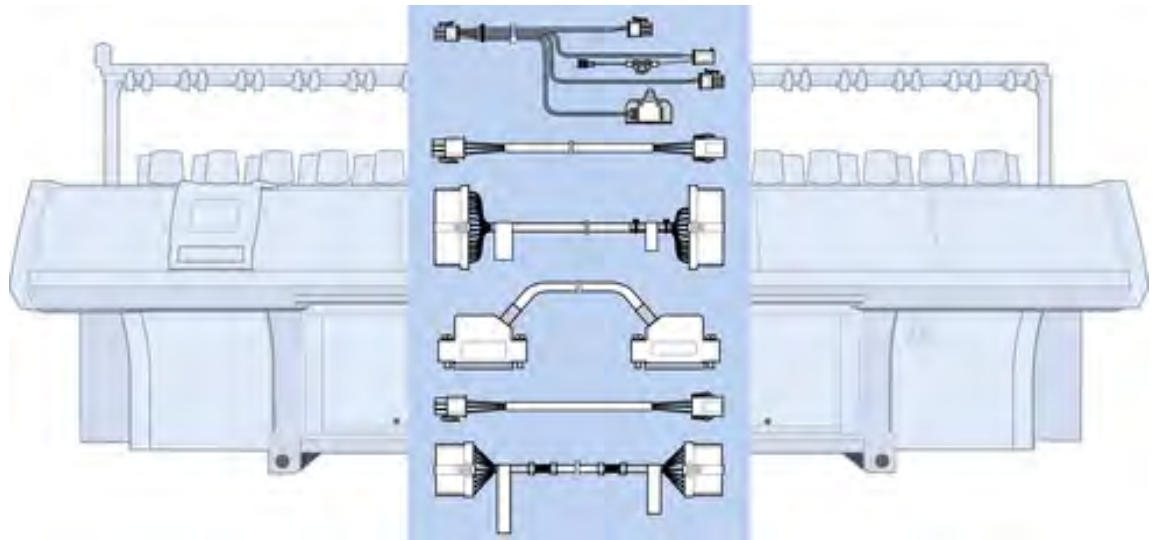


12.3 Panelling

Pos	Designation		Id	Pos	Designation		Id
1	Cover 1 (complete)		257 321	4	Cover 4 (complete)		257 324
	1a	Cover 1	257 310		4a	Cover 4	257 313
2	Cover 2 (complete)		257 322	5	Cover 5 (complete)		257 325
	2a	Cover 2	257 311		5a	Cover 5	257 317
3	Cover 3 (complete)		257 323	b	Inlet type handle		251 376
	3a	Cover 3	257 312	c	Stripper		219 393
				d	Magnet		204 666
7	Control unit panelling on the left complete		251 161	8	Control unit panelling on the right complete		251 160
	7a	Control unit panelling on the left	251 188		8a	Control unit panelling on the right	251 189
	7b	Side part on the left	251 162		8b	Side part on the right	251 163
	7p	Hinge on the left	252 890		8q	Hinge on the right	252 891
7/8	q	Strap	240 412	7/8	500	Screw KB 50x12	240 359
					501	Cap screw M6x16	020 135

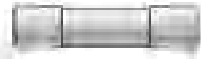


13 Electrical equipment



13.1 Fuses

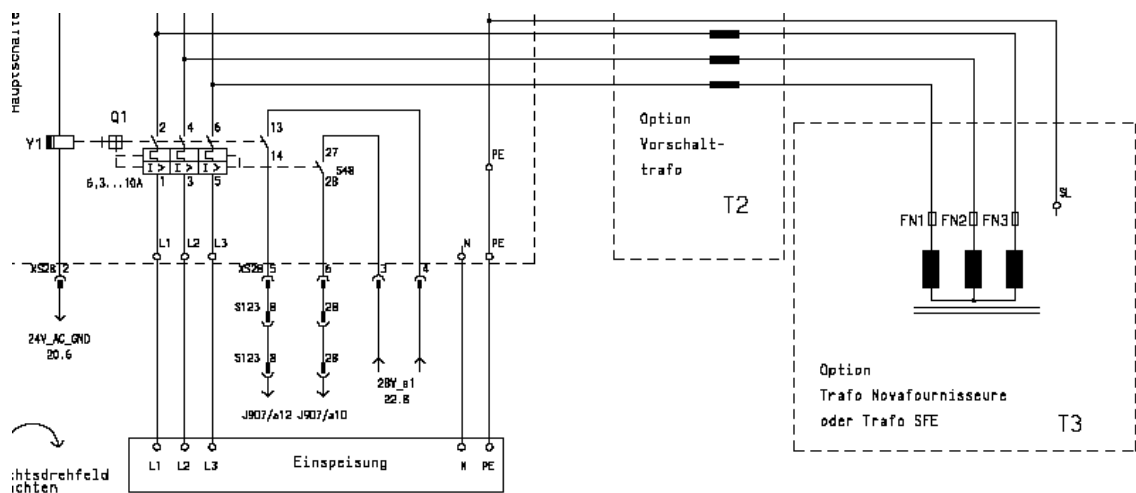
13.1 Fuses

	Designation	Ident No.
	Fuse 1.0A F 5x20	008 748
	Fuse 3.15A T/440V 6.3x32	025 261
	Fuse 10A T/440V 6.3x32	025 258
	Fuse 2.5A T/440V 6.3x32	217 465
	Fuse 1.6A T/440V 6.3x32	236 229
	Fuse 6.3A T/440V 6.3x32	026 809
	Fuse 8A T/440V 6.3x32	241 866
	Fuse 12.5A T/440V 6.3x32	232 367

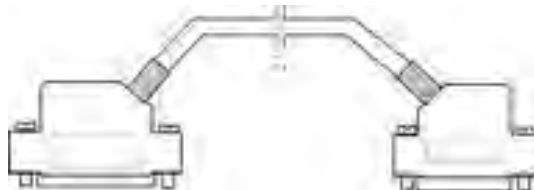
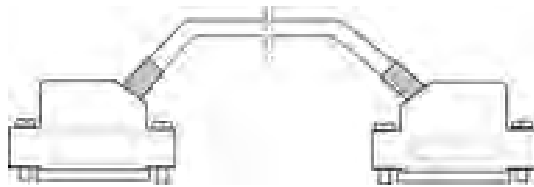
13.2 Circuit diagram (221) as PDF

Designation	Id	Marking
Circuit diagram 221 German	257 279	_DE
Circuit diagram 221 English	257 279	_GB
Circuit diagram 221 Chinese	257 279	_CN

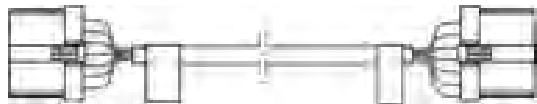
You will find the circuit diagram 221 on the CMS documentation DVD with the ID 257 157



13.3 Trailing cable

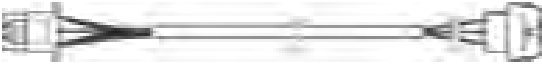
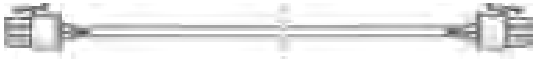
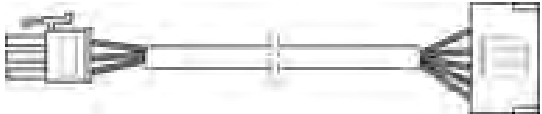
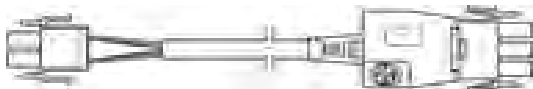
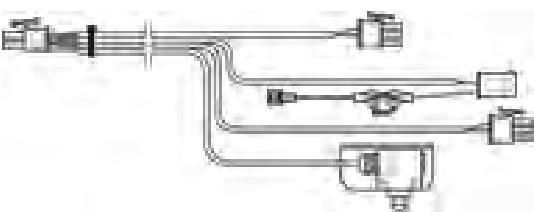
Designation	Id		Designation	Id
Cable impulse giver at the rear o the left XL138	242 703		Cable SM rear left XL321	242 709
Cable impulse giver at the rear on the right XL136	242 705		Cable SM front left XL323	242 711
			Cable SM rear right XL325	242 713
			Cable SM front right XL327	242 715
				
Cable yarn carrier on the left	242 707	Cable signal at the rear on the left XL322		242 710
Cable yarn carrier on the right	242 708	Cable signal front left XL324		242 712
		Cable signal at the rear on the right XL326		242 714
		Cable signal front right XL328		242 716
				

13.4 Loom of cables 1

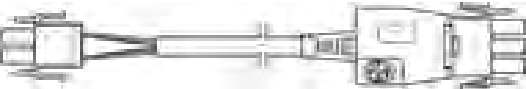
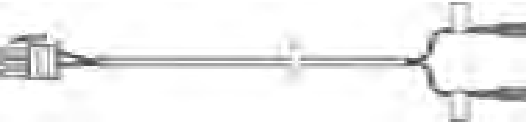
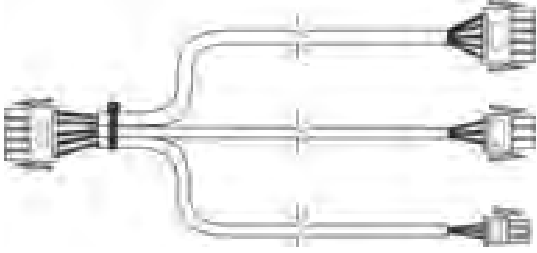
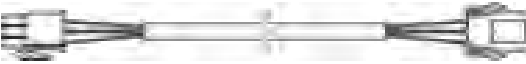
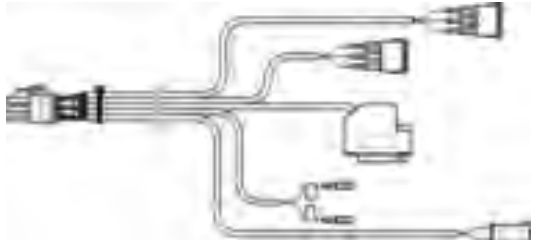
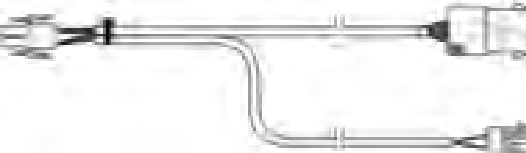
Pos	Designation	Id		Pos	Designation	Id
Σ	Loom of cables 1	242 502				
1	Cable Engaging rod	242 505		2	Cable mains supply FKE lamp	242 506
						
3	Cable protective unit on the left	253 616				
						

13.5 Loom of cables 2

13.5 Loom of cables 2

Pos	Designation	Id		Pos	Designation	Id
Σ	Loom of cables 2	242 503				
1	Cable motor HIAB pressure roller	242 508		2	Cable impulse giver pressure roller	242 509
						
3	Cable limit switch racking	242 510		4	Cable ventilator drive	242 511
						
5	Cable Feed wheel on the right	242 512		6	Cable Drive motor	242 513
						
7	Cable resolver drive	242 514		8	Cable Racking motor	242 515
						
9	Cable resolver racking	242 516		10	Cable protective unit on the right	253 615
						
11	Cable fabric sensor	242 518				
						

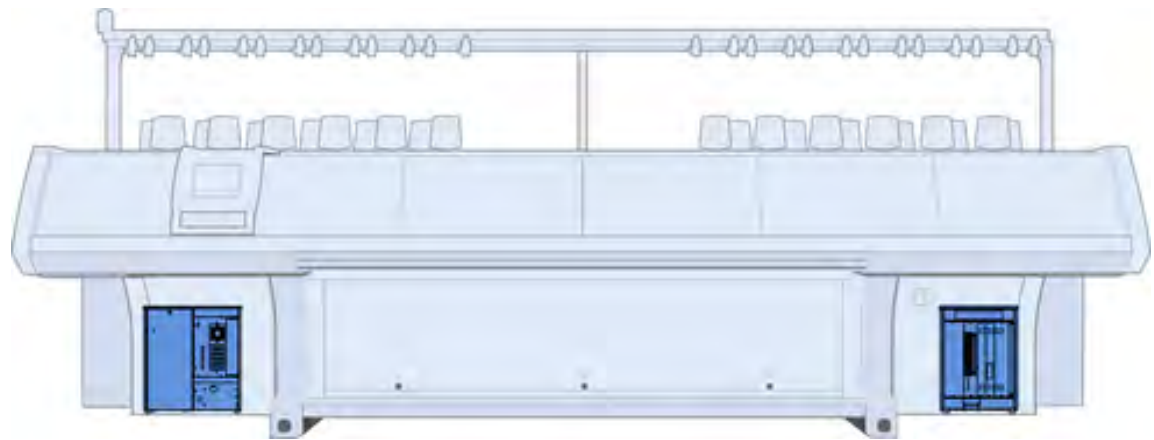
13.6 Loom of cables 3

Pos	Designation	Id	Pos	Designation	Id
Σ	Loom of cables 3	242 504			
1	Cable CAN	242 522	2	Cable Electro	242 523
					
3	Cable Feed wheel on the left	242 524	4	Cable motor HAAB	242 521
					
5	Cable switch HAAB	242 520	6	Cable power supply WAZ/F	242 765
					
7	Cable power supply Servo	242 766	8	Cable power supply unit of mains supply	242 767
					
9	Cable power supply lighting	242 768	10	Cable motor HIAB	242 525
					
11	Cable impulse giver HIAB	242 526	12	Cable impulse giver HAAB	242 519
					
13	Cable power supply FLENT	251 232			
					

13.6 Loom of cables 3

Notes:

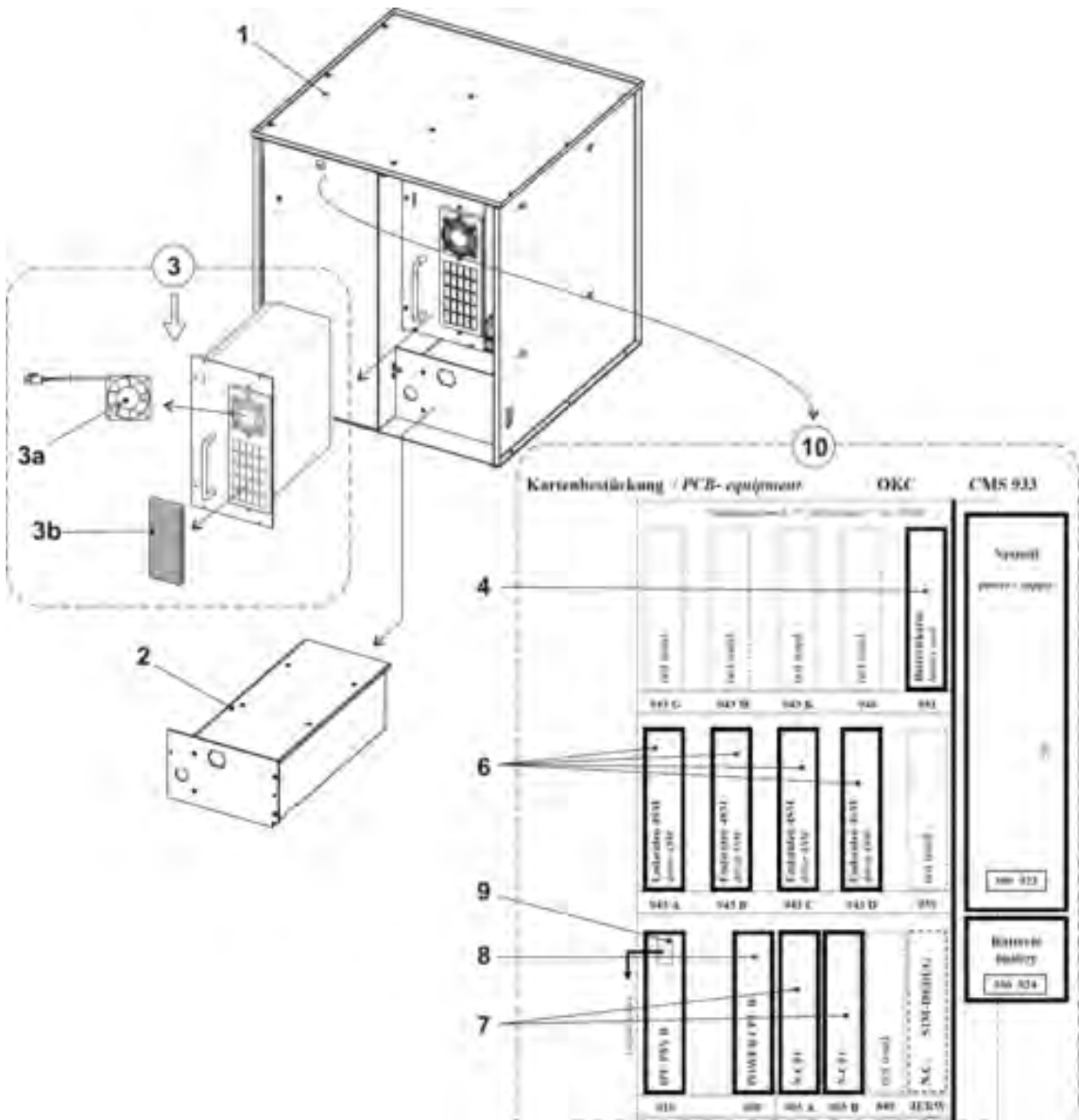
14 Control electronics



14.1 Left control cabinet

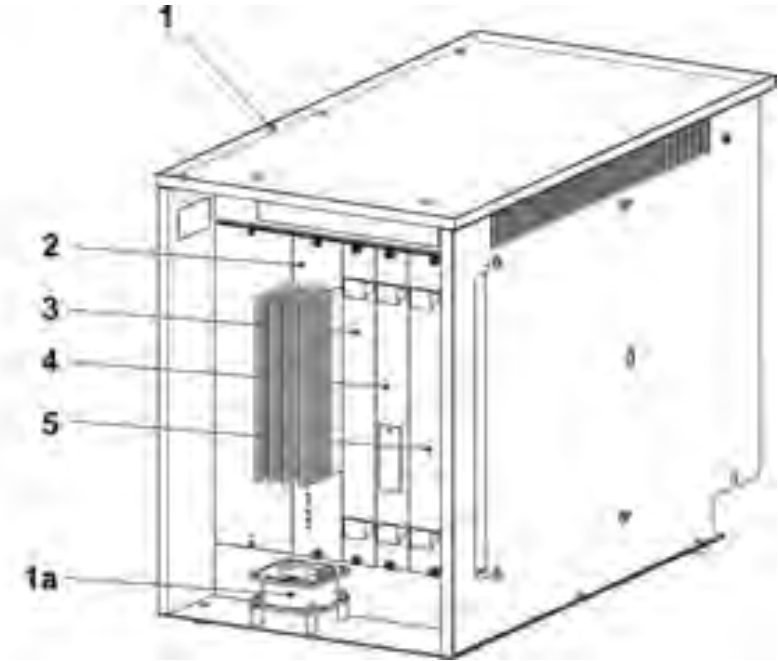
14.1 Left control cabinet

Pos	Designation		Id		Pos	Designation		Id
Σ	Control unit on the left complete		254 860		4	Battery card		300 951
1	Control unit on the left without any equipment		254 868		6	Card amplifier 4SM 7TE		300 943
2	Battery plug-in unit		300 924		7	Card N-CPU 432		300 965
3	Power supply unit CG54		300 923		8	Card power CPU B		301 009
	3a	Ventilator power supply unit	239 305		9	Spare parts packet IPC P8X S 01		257 040
	3b	Filter mat CG54	239 350		10	Adhesive label of card equipment on the left		254 861



14.2 Right control cabinet

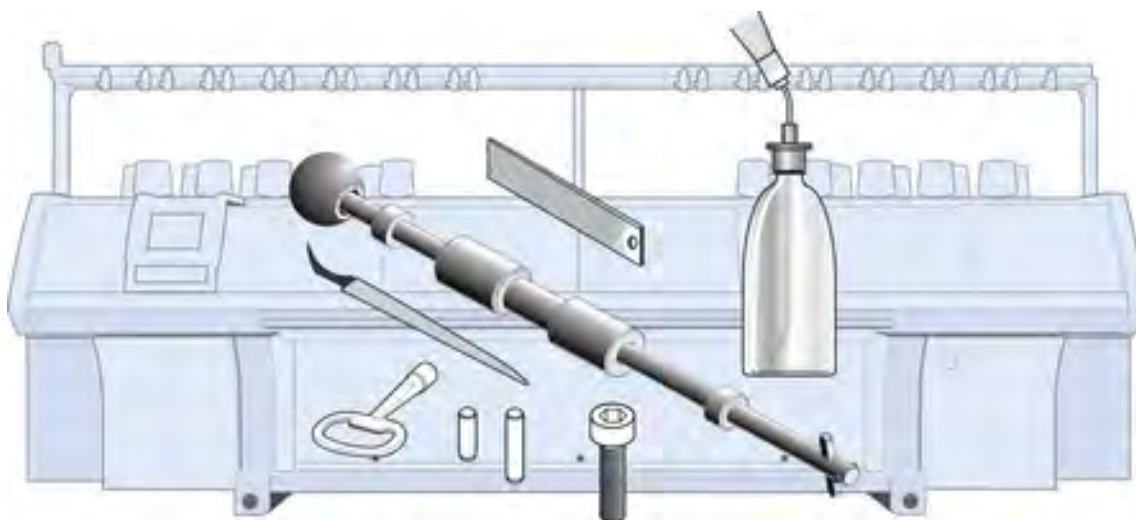
Pos	Designation	Ident No.		Pos	Designation	Ident No.
Σ	Control unit on the right complete	238 738				
1	Control unit on the left without any equipment	238 737		3	Card relay	300 953
1a	Axial fan Servo 5	229 059		4	Card CWAZ	300 929
2	Card servo 6	301 000		5	Card CWAZ capacitor	300 936



14.2 Right control cabinet

Notes:

15 Deliverable accessories



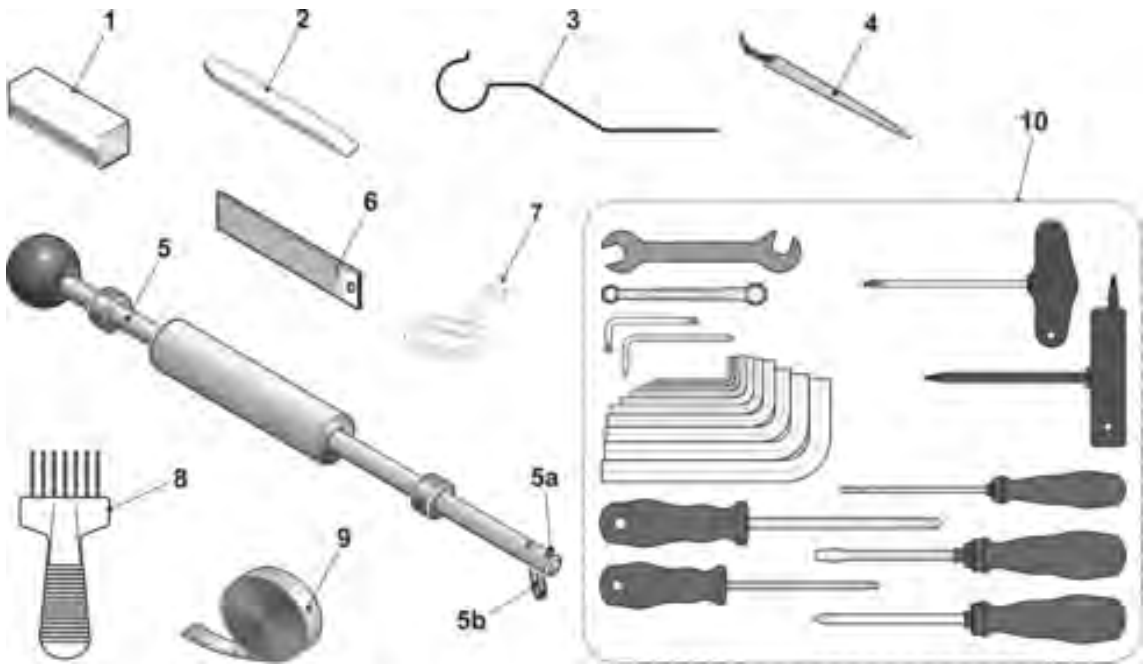
You can order the following tools, lubricants and expendables.

The following list does not correspond to the scope of delivery of the knitting machine.

15.1 Tool

15.1 Tool

Pos	Designation	Ident No.	Pos	Designation	Ident No.
1	Channel support E4	062 309	6	Groove file 0,45mm E16-18	006 169
	Channel support E5, E2,5.2	062 310		Groove file 1.25 mm E5-8, E3,5.2	006 170
	Channel support E7, E3,5.2	062 312		Groove file 0,90mm E10-12, E5.2 6.2	006 175
	Channel support E8	062 313		Groove file 0.73 mm E14, E7.2	006 173
	Channel support E10, E5.2	062 314		Groove file 0.45 mm E16-18, E9.2	006 179
	Channel support E12, E6.2	062 315	7	Key of switch cabinet	009 346
	Channel support E14, E7.2	218 069	8	Groove cleaner E4	031 232
	Channel support E16, E8.2	230 188		Groove cleaner E5	031 233
	Channel support E18, E9.2	230 189		Groove cleaner E6	031 234
	Channel support E20	230 190		Groove cleaner E7, E3,5.2	031 235
2	Channel chisel E14-20 (E5-14)	062 316		Groove cleaner E8	031 236
	Channel chisel E4-8 (E3,5.2)	062 317		Groove cleaner E10 (E5.2)	031 238
	Channel chisel E10-14	062 318		Groove cleaner E12 (E6.2)	031 240
3	Yarn guide on the left	227 071		Groove cleaner E14 (E7.2)	031 242
	Yarn guide on the right	227 070		Groove cleaner E16	225 111
4	Working hook	227 249		Groove cleaner E18 (E9.2)	225 112
5	Extraction hook	232 027		Groove cleaner E20	225 113
	5a Small pin	202 843	9	Measuring tape L=150 cm	228 180
	5b Pin	232 022	10	Tool kit	209 527



15.2 Lubricating stuff

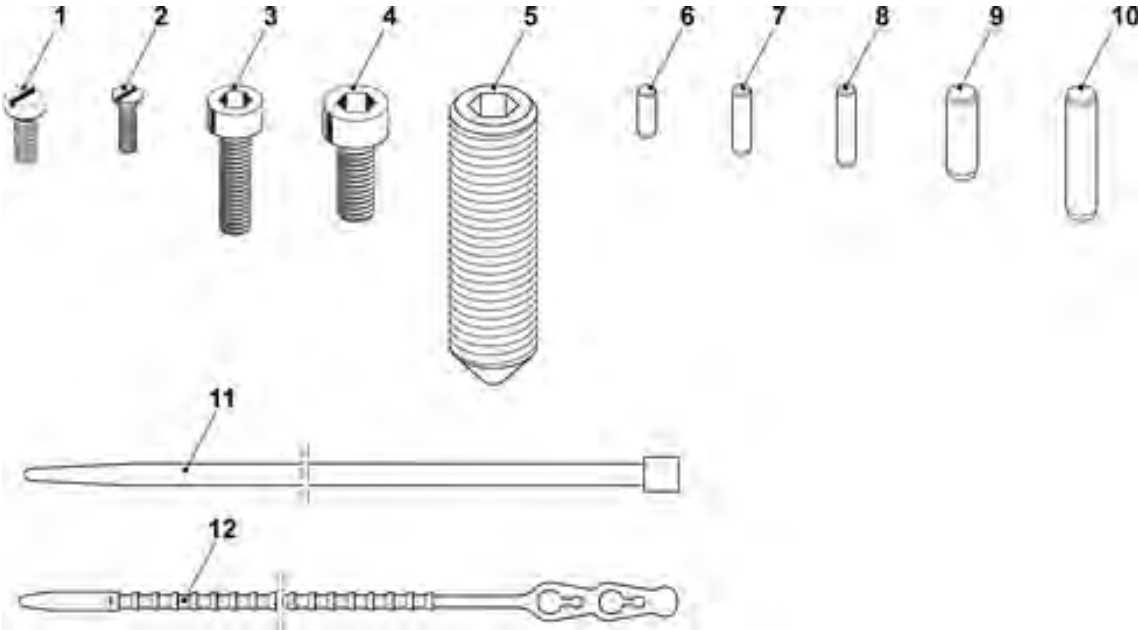
Pos	Designation	Ident No.		Pos	Designation	Ident No.
1	Textile machines oil T46, 1l	230 614		4	Oil combifix	216 732
2	Grease OKS 475, 1kg	009 200		5	White grease paste OKS270	229 372
3	Grease OKS 475, 150g	005 351		6	Grease Staburags NBU 12/300KP	231 191



15.3 Mechanical parts

15.3 Mechanical parts

Pos	Designation	Ident No.		Pos	Designation	Ident No.
1	Cap screw M4x8	020 091		11	Cable binder 203x3.6 mm	025 815
2	Countersunk screw M3x6	020 286			Cable binder T50L	026 294
3	Cap screw M5x16	022 726			Cable binder 140x3.6mm	008 379
4	Cap screw M6x14	022 658			Cable binder 302x4.8mm	008 642
5	Set screw M16x50	023 235			Cable binder 92x2.4mm	008 378
6	Setting pin 3x7	020 643		12	Reusable tie ABV 232 320 mm	026 557
7	Setting pin 3x10	020 645				
8	Setting pin 3x12	020 647				
9	Setting pin 5x12	021 988				
10	Setting pin 5x18	022 622				



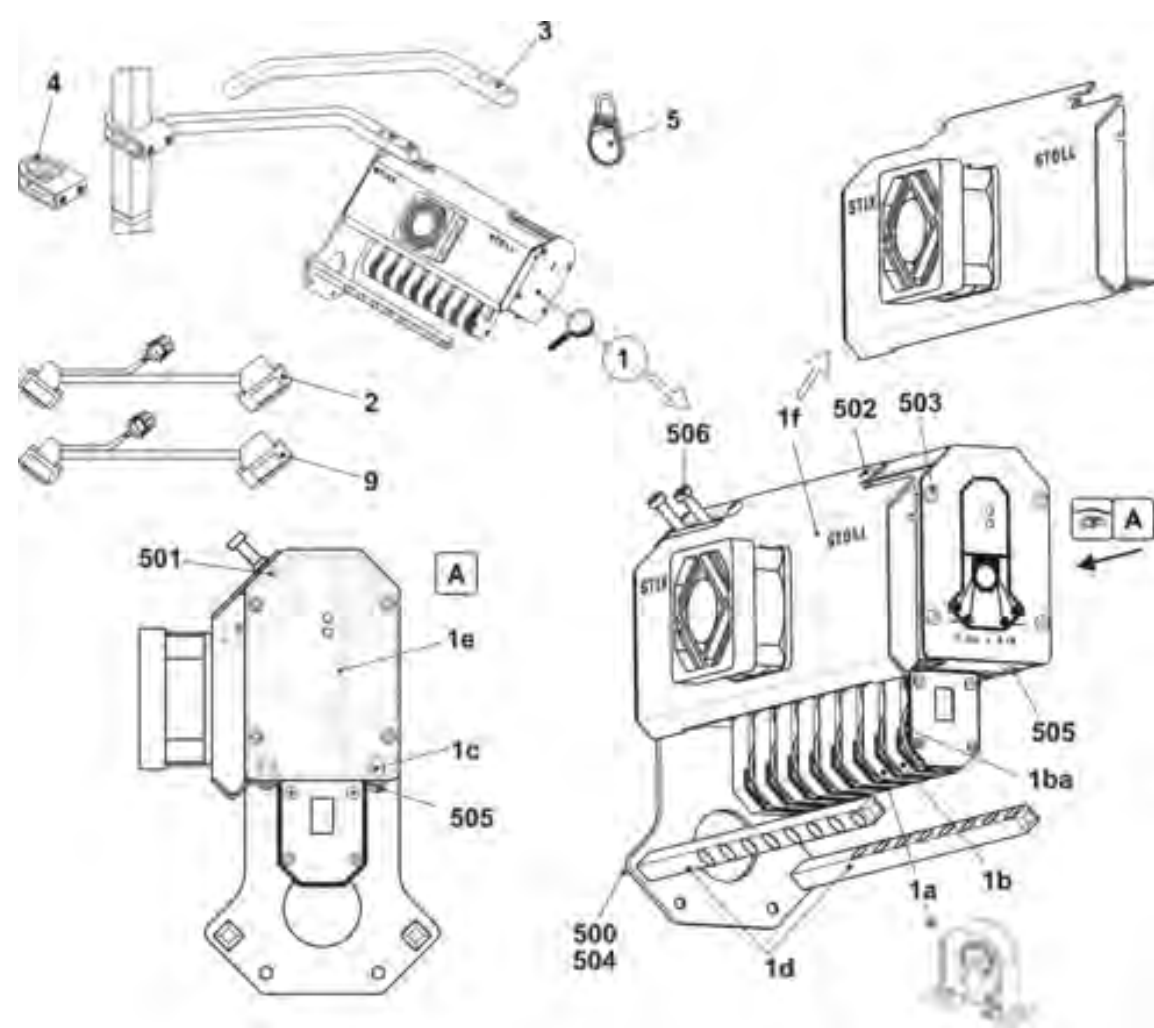
16 Special attachments



16.1 STIXX device

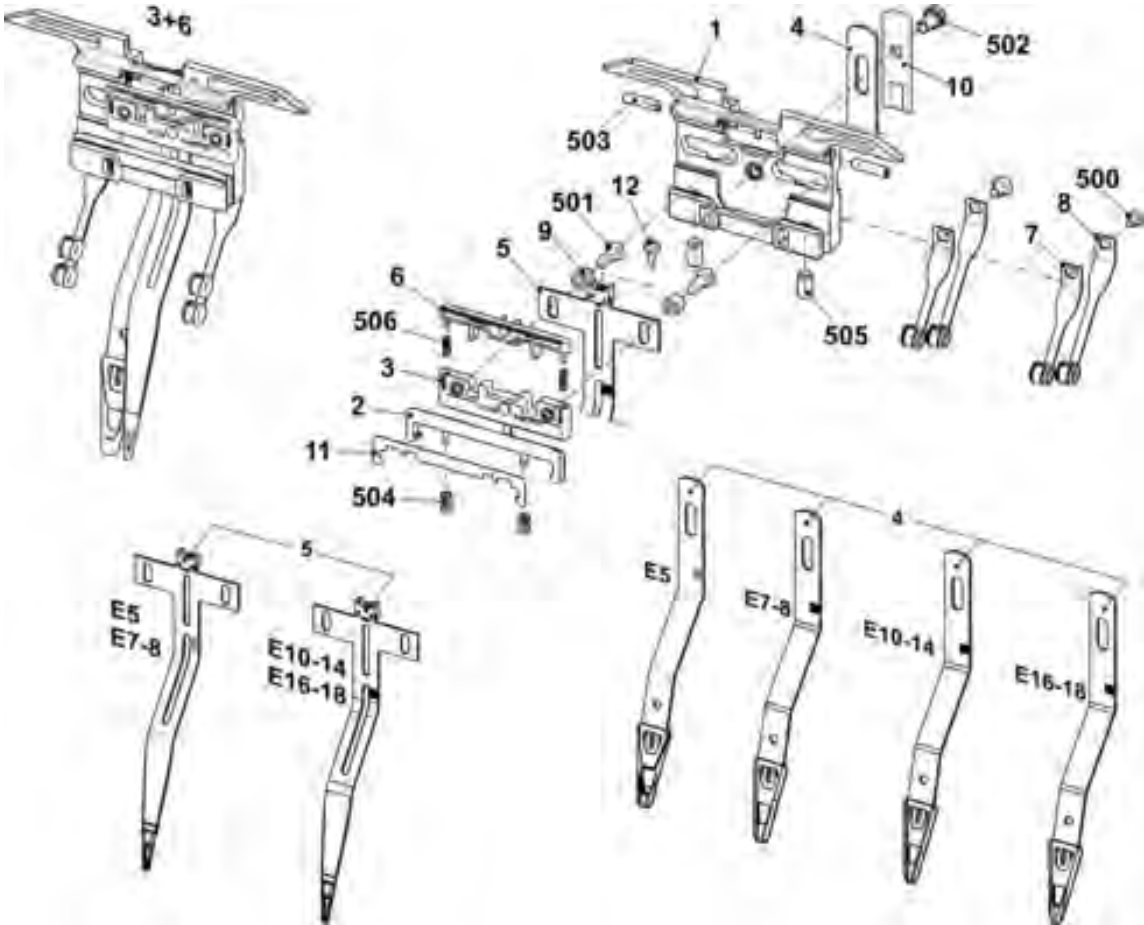
16.1 STIXX device

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn length measuring device	223 382	4	Clamp	223 025
1	Yarn length measuring device 3	236 275	5	Adjustment weight	212 241
	1a	Sensor	9	Cable length measuring MSLU7	225 114
	1b	Sensor complete	500	Countersunk screw M5x10	023 247
	1ba	Rubber running ring	501	Spring nut M5	022 873
	1c	Threaded strip	502	Countersunk screw M5x6	023 246
	1d	Yarn guide rod	503	Sheet metal screw ST 3.5x13	022 940
	1e	Card STIXX-CPU	504	Spring washer A5	022 454
	1f	Fan complete	505	Pan head screw M3x10	023 380
2	Cable length measuring	236 718	506	Cap screw M5X22	023 193
3	Support	223 030			



16.2 Plating yarn carrier 3+6

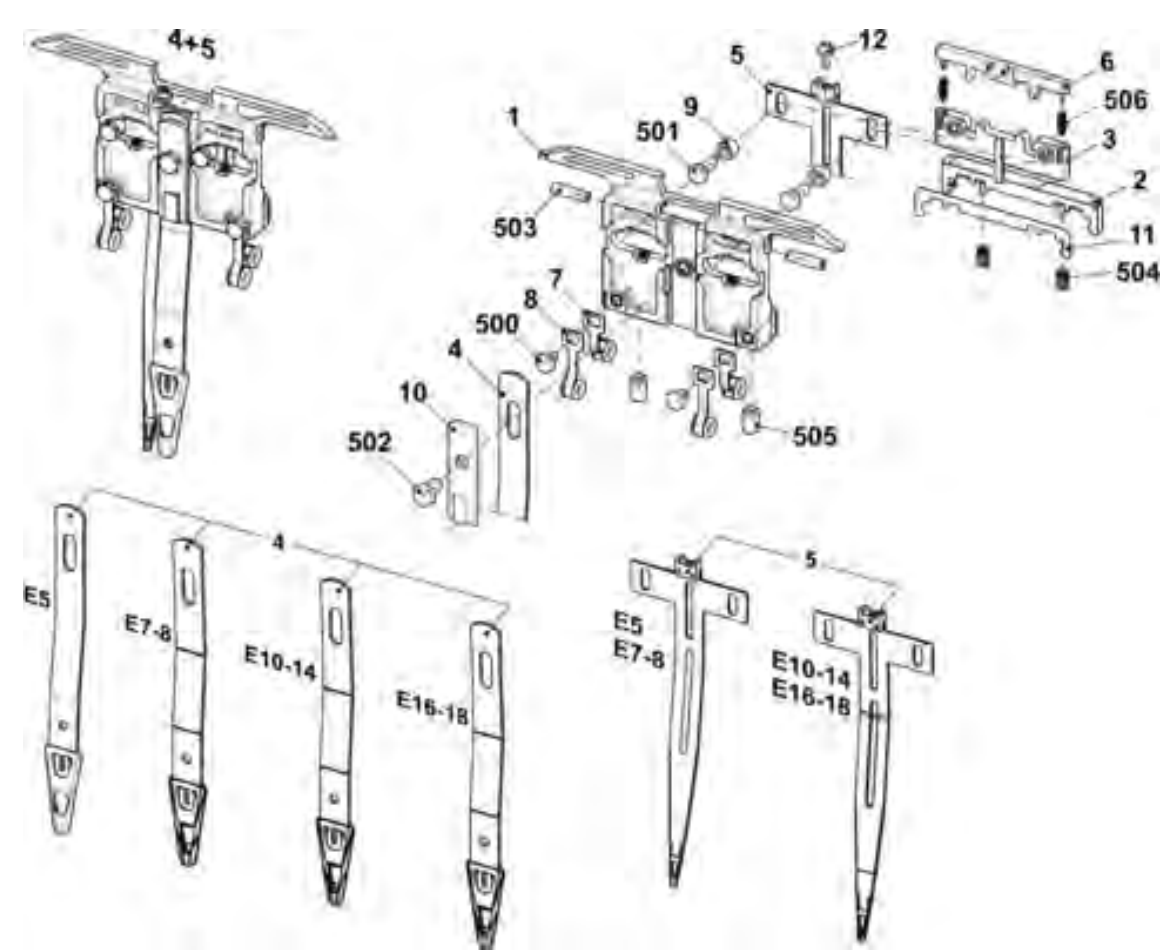
Pos	Designation	Id	Pos	Designation	Id
Σ	Plating yarn carrier carriage 3+6 complete				
	E5 E2,5.2 E3,5.2 E5.2	252 782	6	Sliding piece	252 797
	E7 E8 E6.2	252 784	7	Eyelet holder complete	252 825
	E10 E12 E14 E7.2 E8.2	252 786	8	Eyelet holder complete	252 824
	E16 E18 E9.2	252 788	9	Distance bushing	252 796
1	Plating yarn carrier carriage	252 806	10	Shim 0,03x11x80	213 035
2	Sliding piece	212 583	11	Shim 0,03x11x80	216 143
3	Slider	252 798	12	Adjusting screw	253 436
4	Plating yarn carrier bow 3+6		500	Hexagon screw M4x5	243 779
	E5	252 820	501	Hexagon screw M4x10	020 346
	E7-8	252 821	502	Hexagon screw	252 832
	E10-14	252 822	503	Setscrew M4x16	254 196
	E16-18	252 823	504	Compression spring	021 399
5	Plating yarn carrier bow 3+6 E5-8	252 800	505	Threaded bolt	213 399
	Plating yarn carrier bow 3+6 E10-18	252 808	506	Compression spring	253 058



16.3 Plating yarn carrier 4+5

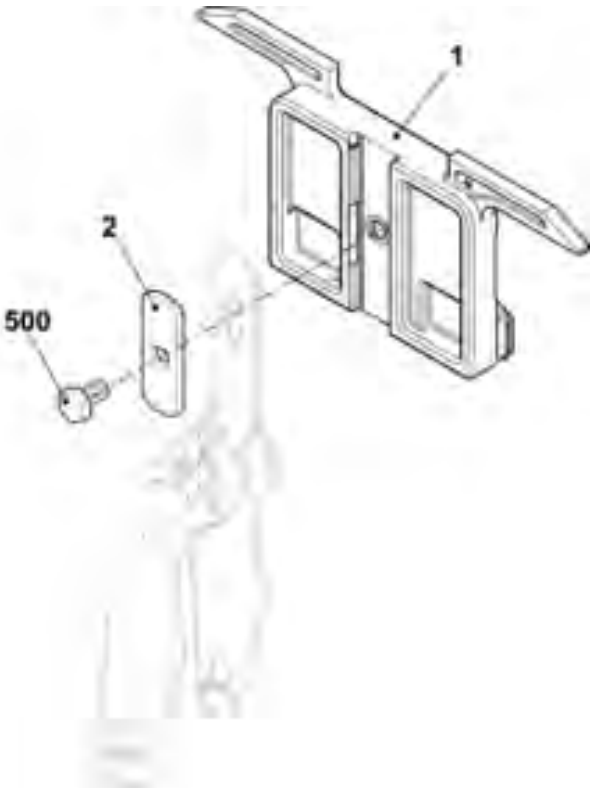
16.3 Plating yarn carrier 4+5

Pos	Designation	ID		Pos	Designation	ID
Σ	Plating yarn carrier carriage 4+5 co.					
	E5 + E2,5.2 + E3,5.2 + E5.2	252 781		6	Sliding piece	252 797
	E7 + E8 + E6.2	252 783		7	Eyelet holder complete	252 815
	E10 + E12 + E14 + E7.2 + E8.2	252 785		8	Eyelet holder complete	252 816
	E16 + E18 + E9.2	252 787		9	Spacer	252 796
1	Plating yarn carrier carriage	252 806		10	Shim	213 035
2	Sliding piece	212 583		11	Shim	216 143
3	Slider	252 798		12	Adjusting screw	253 436
4	Plating yarn carrier bow 4+5			500	Hexagon screw M4x5	243 779
	E5	252 790		501	Hexagon screw M4x10	020 346
	E7-8	252 791		502	Hexagon screw	252 832
	E10-14	252 792		503	Set screw M4x16	254 196
	E16-18	252 793		504	Compression spring	021 399
5	Plating yarn carrier bow 4+5 E5-8	252 799		505	Threaded bolt	213 399
	Plating yarn carrier bow 4+5 E10-18	252 807		506	Compression spring	253 058



16.4 Carriage of plating yarn carrier

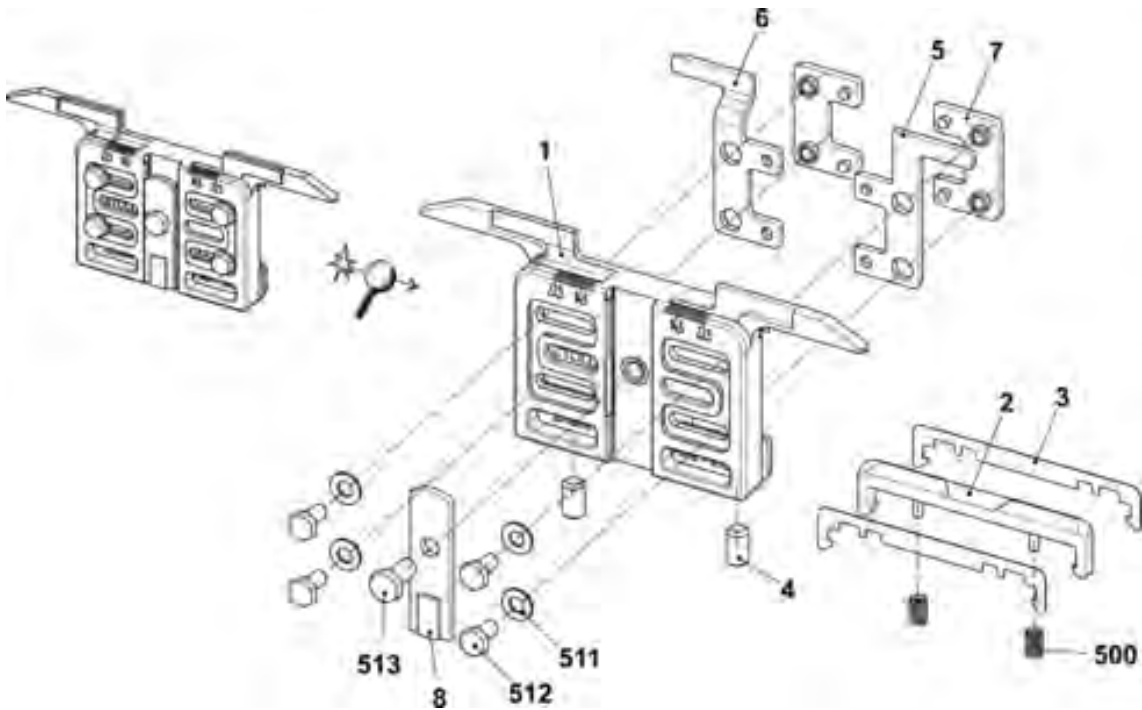
Pos	Designation	Id		Pos	Designation	Id
Σ	Plating YC carriage complete E5-18	244 998				
1	YC carriage MW46	244 253		500	Hexagon screw M5x10	020 351
2	Shim 0.2x12x75	213 035				



16.5 Carriage of plating yarn carrier (adjustable)

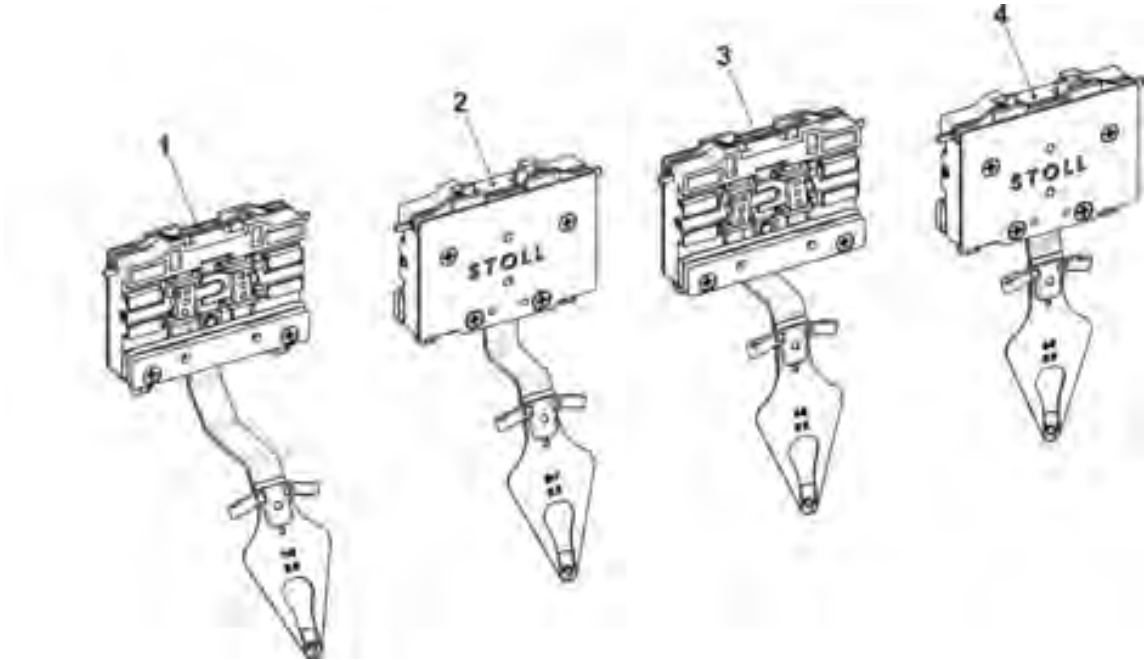
16.5 Carriage of plating yarn carrier (adjustable)

Pos	Designation	Ident No.	Pos	Designation	Ident No.
Σ	Plating yarn carrier carriage complete	251 867			
1	Carriage of yarn carrier	251 864	7	Guiding part	253 226
2	Sliding piece	212 583	8	Shim 0,03x11x80	213 035
3	Shim 0,03x11x80	216 143	500	Compression spring	021 399
4	Threaded bolt	213 399	511	U-washer 4	022 481
5	Insert on the right	251 866	512	Hexagon screw M4x8	022 461
6	Insert on the left	251 865	513	Hexagon screw M5x10	020 351



16.6 Complete intarsia yarn carriers type 2

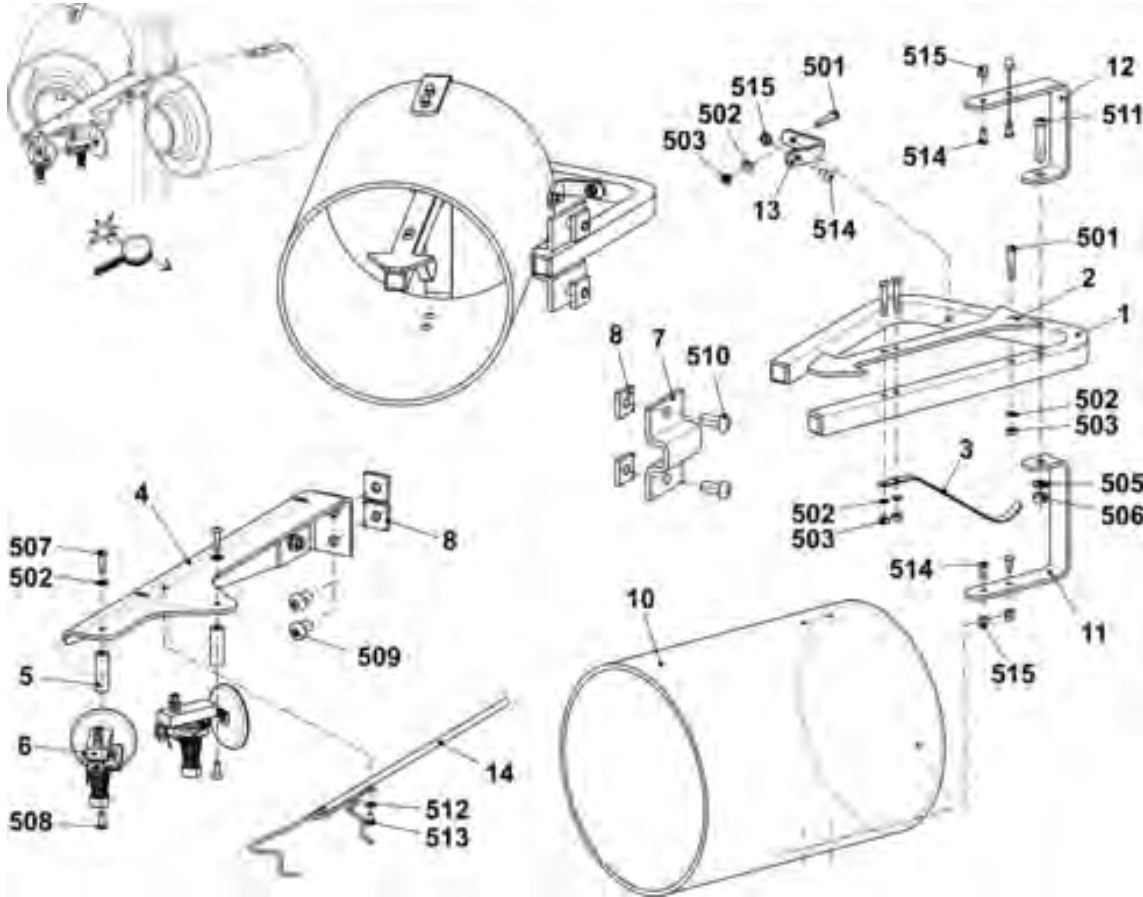
Designation	Gauge	Track	Pos	Id		Designation	Gauge	Track	Pos	Id
IYC carriage complete	E5 E 3,5.2 E5.2	1 8	1	250 319		IYC carriage complete	E7 E8	1 8	1	250 323
		2 7	2	250 320				2 7	2	250 324
		3 6	3	250 321				3 6	3	250 325
		4 5	4	250 322				4 5	4	250 326



16.7 Bobbin holder on the left

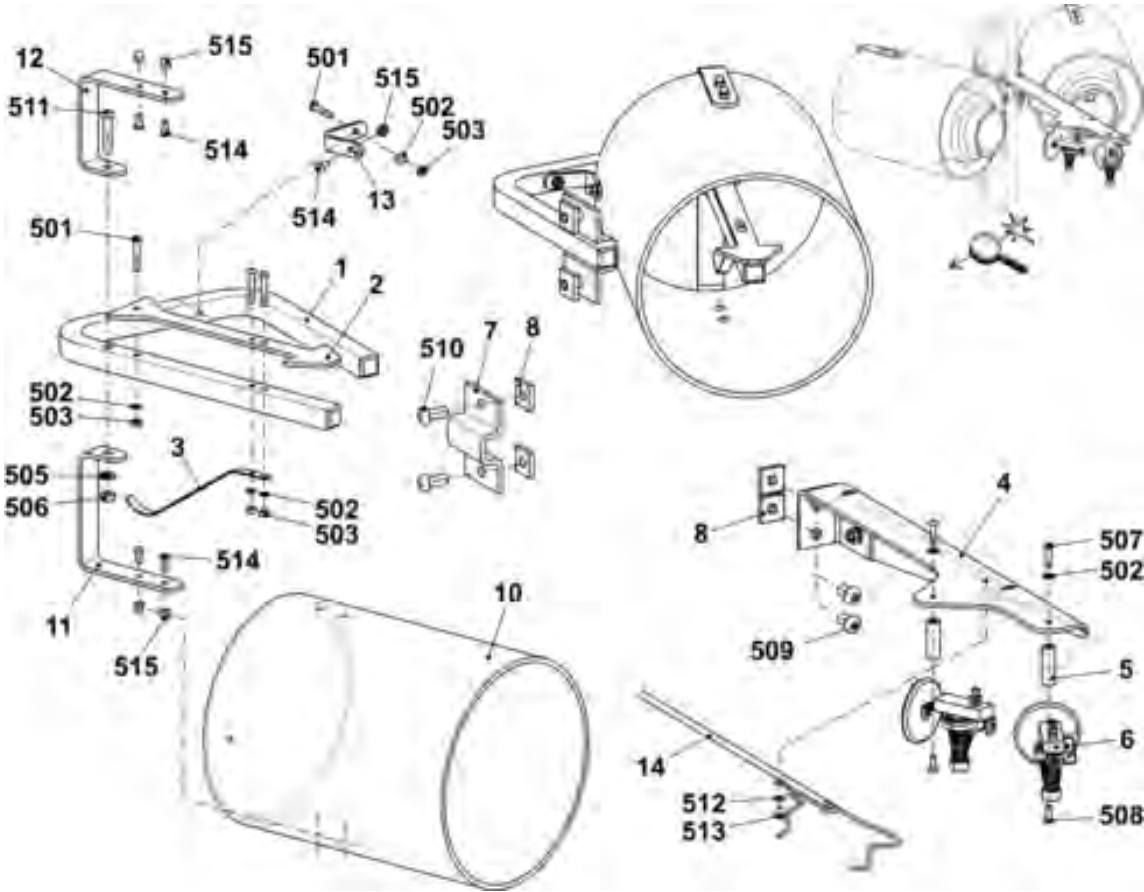
16.7 Bobbin holder on the left

Pos	Designation	Id		Pos	Designation	Id
Σ	Bobbin holder on the left	253 965		501	Countersunk screw M4x25	023 511
1	Support	253 969		502	U-washer 4	022 481
2	Support	252 769		503	Hexagon nut M4-6	022 536
3	Leaf spring	253 350		505	U-washer 6	022 431
4	Support on the left	253 347		506	Hexagon nut M6-6	022 899
5	Spacer	253 349		507	Countersunk screw M4x16	023 412
6	Yarn detector	226 964		508	Countersunk screw M3x10	023 062
7	Clamp	228 583		509	Countersunk screw M8x16	023 113
8	Sliding block	228 851		510	Countersunk screw M8x18	251 331
10	Cover	253 968		511	Countersunk screw M6x30	023 451
11	Support angle	253 964		512	Serrated lock washer A4.3Serrated lock washer A4.3	022 482
12	Support angle	253 963		513	Countersunk screw M4x6	022 946
13	Support angle	253 967		514	Countersunk screw M4x10	023 450
14	Cable plating	253 468		515	Cap nut M4-6	253 805



16.8 Bobbin holder on the right

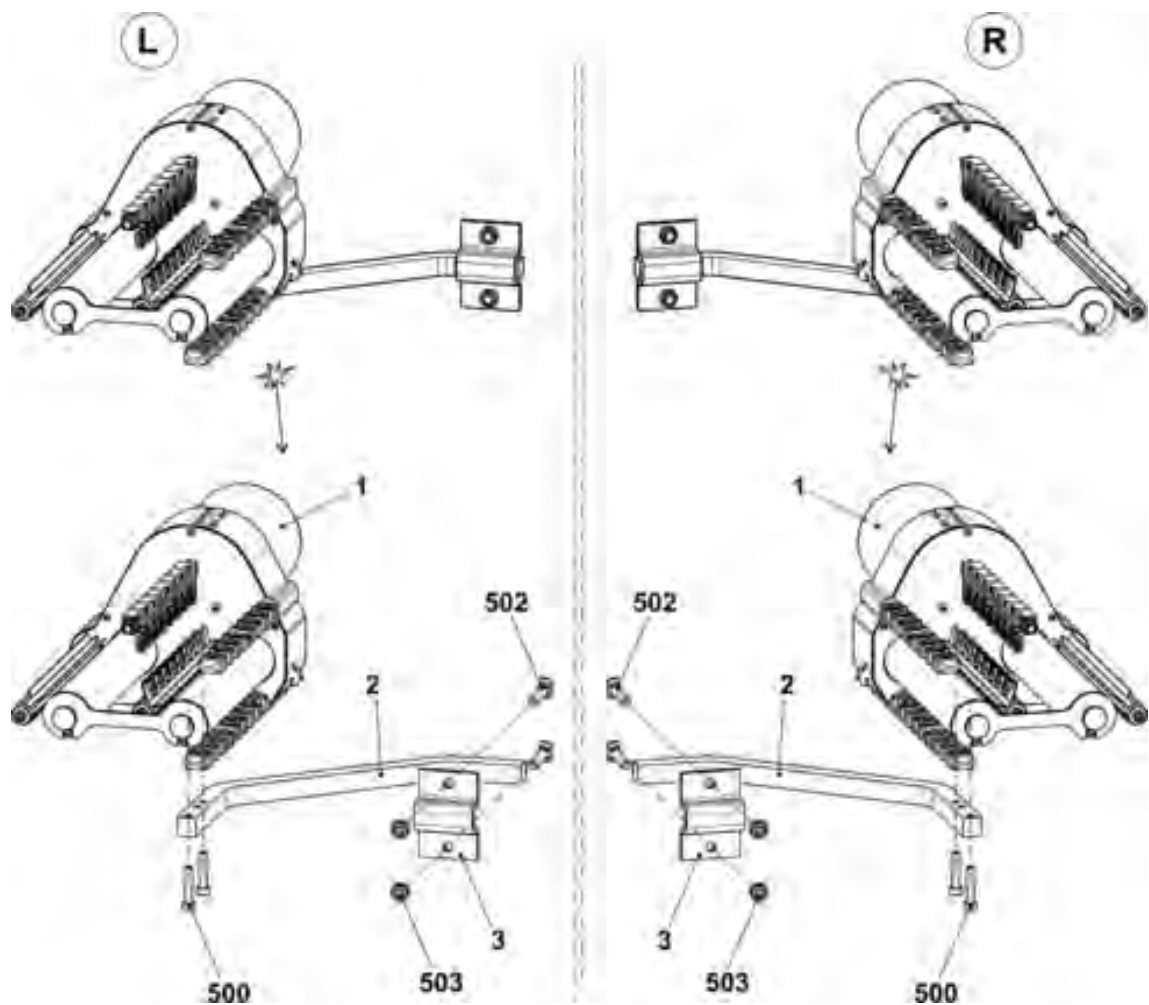
Pos	Designation	Id	Pos	Designation	Id
Σ	Bobbin holder on the right	253 966	501	Countersunk screw M4x25	023 511
1	Support	253 969	502	U-washer 4	022 481
2	Support	252 769	503	Hexagon nut M4-6	022 536
3	Leaf spring	253 350	505	U-washer 6	022 431
4	Support right	253 348	506	Hexagon nut M6-6	022 899
5	Spacer	253 349	507	Countersunk screw M4x16	023 412
6	Yarn detector	226 964	508	Countersunk screw M3x10	023 062
7	Clamp	228 583	509	Countersunk screw M8x16	023 113
8	Sliding block	228 851	510	Countersunk screw M8x18	251 331
10	Cover	253 968	511	Countersunk screw M6x30	023 451
11	Support angle	253 964	512	Serrated lock washer A4.3Serrated lock washer A4.3	022 482
12	Support angle	253 963	513	Countersunk screw M4x6	022 946
13	Support angle	253 967	514	Countersunk screw M4x10	023 450
14	Cable plating	253 468	515	Cap nut M4-6	253 805



16.9 Friction feed wheel on the left and on the right complete

16.9 Friction feed wheel on the left and on the right complete

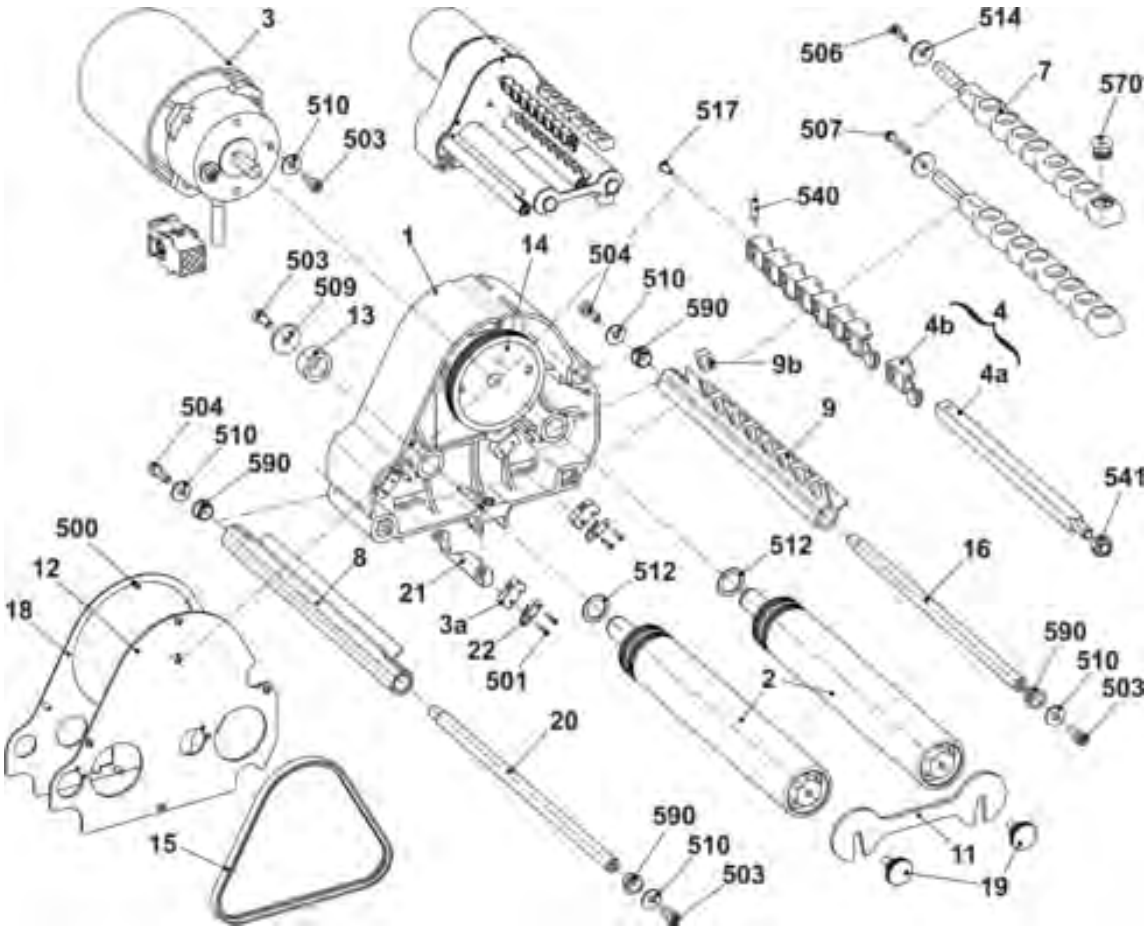
Pos	Designation	Id		Pos	Designation	Id
ΣL	Friction feed wheel on the left complete	243 767		ΣR	Friction feed wheel on the right complete	243 768
1	Friction feed wheel on the left	243 571		1	Friction feed wheel on the right	243 572
2	Support	223 030		2	Support	223 030
3	Clamp	228 583		3	Clamp	228 583
500	Cap screw M6X30	020 138		500	Cap screw M6X30	020 138
502	T-head bolt M8x25	022 866		502	T-head bolt M8x25	022 866
503	Hexagon nut M8	022 843		503	Hexagon nut M8	022 843



16.9 Friction feed wheel on the left and on the right complete

16.9.1 Left friction feed wheel

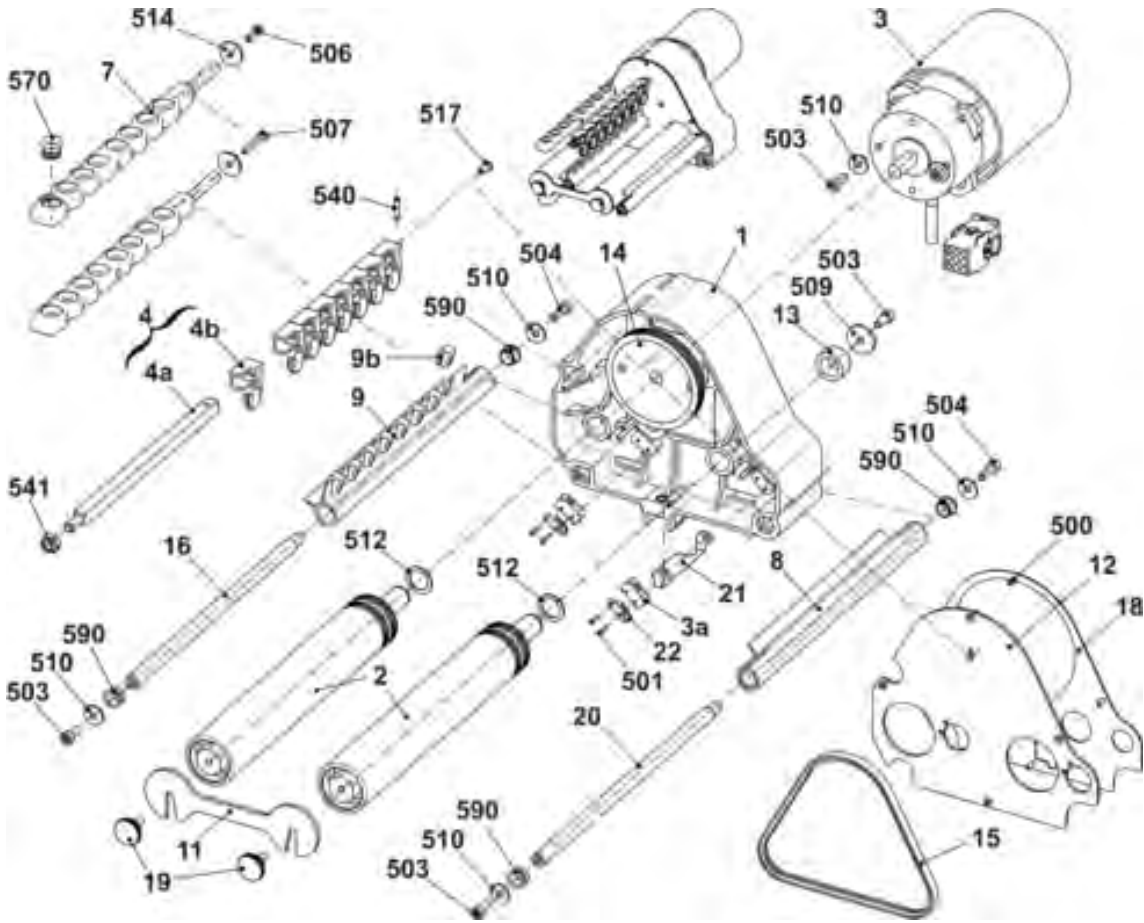
Pos	Designation		Id	Pos	Designation		Id
Σ	Friction feed wheel on the left complete		243 571	14	Ribbed V-belt pulley		221 268
1	Housing		240 368	15	Ribbed V-belt pulley V3J 406		206 927
2	Friction roller complete		231 704	16	Rod		221 319
3	Three-phase A.C. motor complete		219 800	18	Cover		230 758
	3a	Microswitch	008 664	19	Knurled srew		223 361
4	Deflector complete 8-fold		250 089	20	Rod		230 658
	4a	Support rail	250 055	21	Grounding plate		256 622
	4b	Eyelet holder complete	250 077	22	Spring plate		256 702
	540	Spring dowel sleeve 4x15	020 783	500	Screw KB 30x8		236 228
	541	Hexagon nut M8-8	022 843	501	Screw 20x10		244 736
7	Yarn guide rod complete		239 431	503	Cap screw M5x12		020 132
	570	Eyelet 8	021 504	504	Cap screw M5X16		022 726
8	Stop motion rail on the right complete		230 690	506	Screw KB 40x14		241 358
9	Stop motion rail on the left complete with eyelets		230 683	507	Screw KB 40x25		241 595
	9b	Eyelet	230 662	509	Washer 6.1x9x0.5		023 219
	590	Slide bearing	023 627	510	U-washer 5		020 901
11	Strap		221 316	512	Adjusting washer 15x21x1		023 216
12	Cover		251 098	514	U-washer 4,3		020 908
13	Bush		221 391	517	Pan-head screw M4x8		023 579



16.9 Friction feed wheel on the left and on the right complete

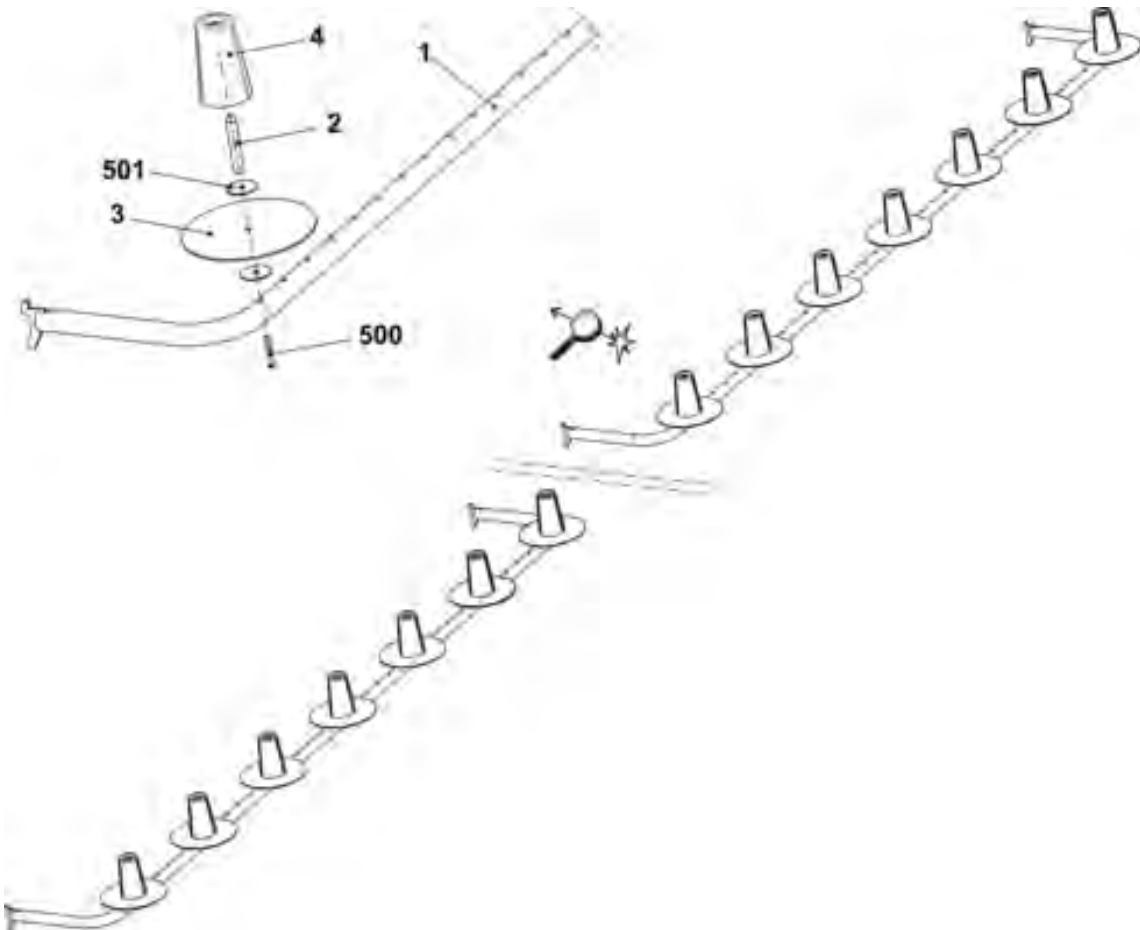
16.9.2 Right friction feed wheel

Pos	Designation		Id	Pos	Designation		Id
Σ	Friction feed wheel on the right complete		243 572	14	Ribbed V-belt pulley		221 268
1	Housing		240 368	15	Ribbed V-belt pulley V3J 406		206 927
2	Friction roller complete		231 704	16	Rod		221 319
3	Three-phase A.C. motor complete		219 800	18	Cover		230 758
	3a	Microswitch	008 664	19	Knurled srew		223 361
4	Deflector complete 8-fold		250 089	20	Rod		230 658
	4a	Support rail	250 055	21	Grounding plate		256 622
	4b	Eyelet holder complete	250 077	22	Spring plate		256 702
	540	Spring dowel sleeve 4x15	020 783	500	Screw KB 30x8		236 228
	541	Hexagon nut M8-8	022 843	501	Screw 20x10		244 736
7	Yarn guide rod complete		239 431	503	Cap screw M5x12		020 132
	570	Eyelet 8	021 504	504	Cap screw M5X16		022 726
8	Stop motion rail on the right complete		230 690	506	Screw KB 40x14		241 358
9	Stop motion rail on the right complete with eyelets		230 682	507	Screw KB 40x25		241 595
	9b	Eyelet	230 662	509	Washer 6.1x9x0.5		023 219
	590	Slide bearing	023 627	510	U-washer 5		020 901
11	Strap		221 316	512	Adjusting washer 15x21x1		023 216
12	Cover		251 098	514	U-washer 4,3		020 908
13	Bush		221 391	517	Pan-head screw M4x8		023 579



16.10 Additional bobbin board

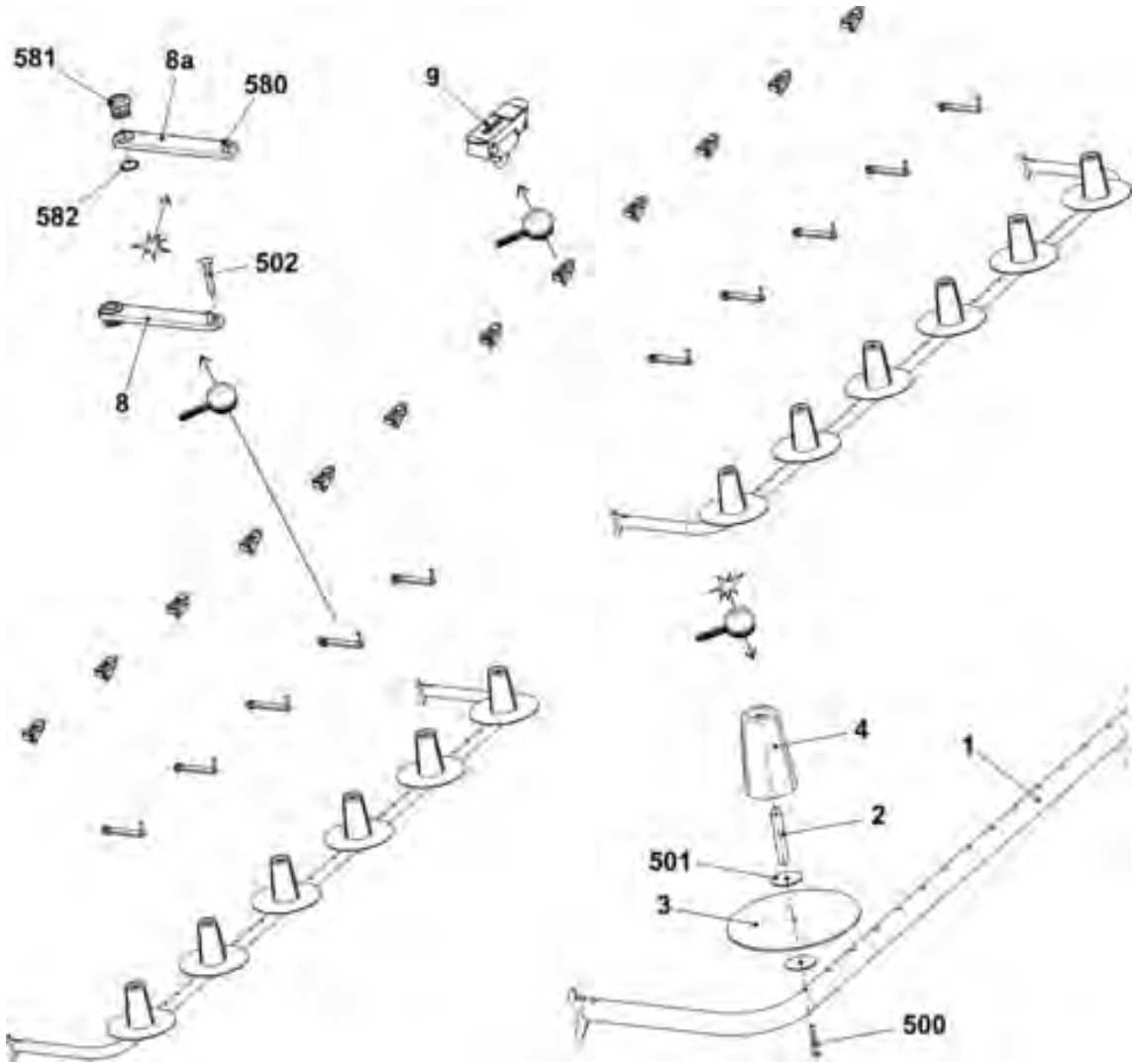
Pos	Designation	Id		Pos	Designation	Id
Σ	Additional bobbin board	242 742				
1	Additional bobbin board welded	242 741		4	Bobbin support	200 363
2	Positioning pin	202 777		500	Pan-head screw M4x30	023 681
3	Disk ø130	062 385		501	Washer 5.3x30x1.25	023 556



16.11 Additional board at the bottom

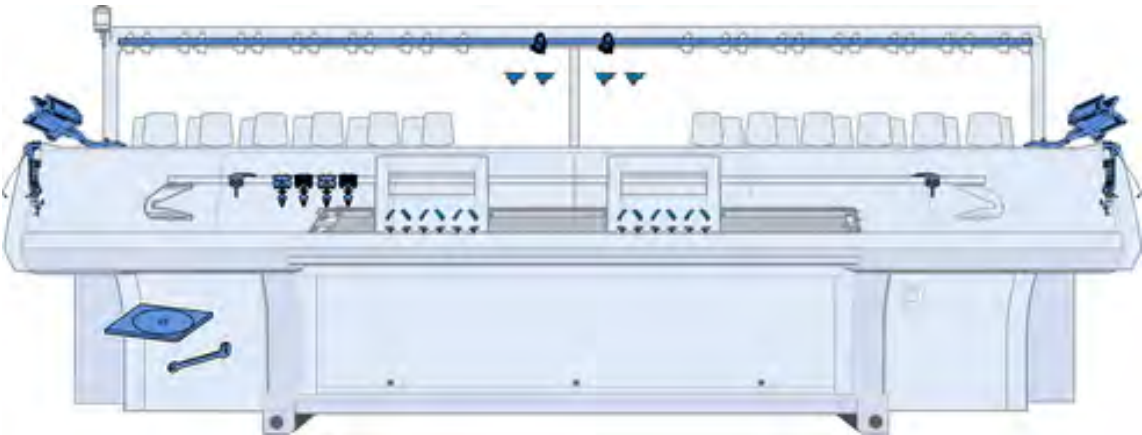
16.11 Additional board at the bottom

Pos	Designation	Id		Pos	Designation	Id	
Σ	Additional board at the bottom	253 647		502	Pan-head screw M4x25	023 511	
1	Additional bobbin board welded	253 503		8	Yarn guide		243 765
2	Positioning pin	202 777			8a	Guiding part	243 623
3	Disk ø130	062 385			580	Setting pin 3x12	020 647
4	Bobbin support	200 363			581	Eyelet 8	021 504
500	Pan-head screw M4x30	023 681			582	Snap ring A12	020 996
501	Washer 5.3x30x1.25	023 556					
				9	Yarn guide bracket complete		241 581



17 Conversion kit with 24 and 32 IFF

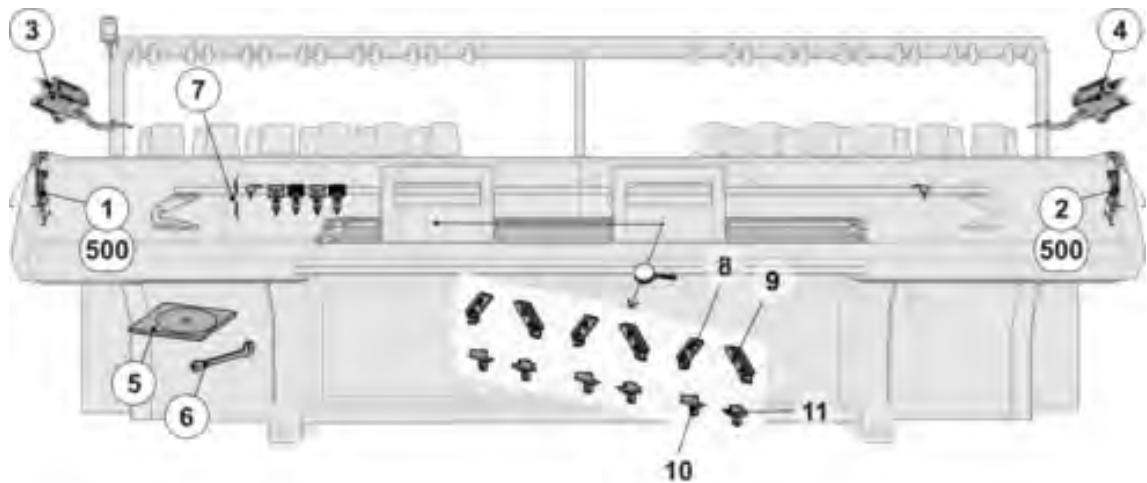
	Designation	Id
24 IFF:	Conversion kit 24 IFF E5	257 620
	Conversion kit 24 IFF E7-8	257 621
32 IFF	Conversion kit 32 IFF E5	257 582
	Conversion kit 32 IFF E7-8	257 583



17.1 Overview of conversion kit with 24 and 32 IFF E5

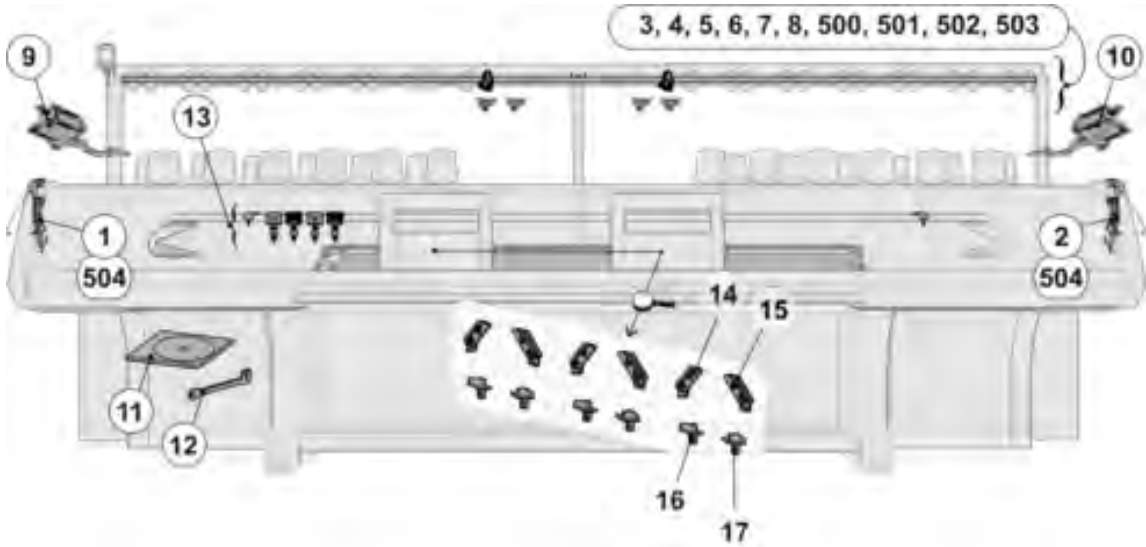
17.1 Overview of conversion kit with 24 and 32 IFF E5

Pos	Designation	Id		Pos	Designation	Id
Σ	Conversion kit 24 IFF E5	257 620				
	Conversion kit 32 IFF E5	257 582		7	Yarn guide complete E5 IFF 24	256 934
1	Yarn tensioner on the left complete E5	244 498			Yarn guide complete E5 IFF 32	245 161
2	Yarn tensioner on the right complete E5	244 501		8	Stitch cam on the left short tuck E5	212 130
3	Friction feed wheel 16 fold on the left complete	254 900		9	Stitch cam on the right short tuck E5	212 129
4	Friction feed wheel 16 fold on the right complete	254 901		10	Pressure part take-over on the left short tuck	240 697
5	DVD instructions conversion kit IYC	245 169		11	Pressure part take-over on the right short tuck	240 698
6	Adjusting part for yarn carrier bow	250 119		500	Screw KB60 x 20	237 682



17.2 Overview of conversion kit with 24 and 32 IFF E7-8

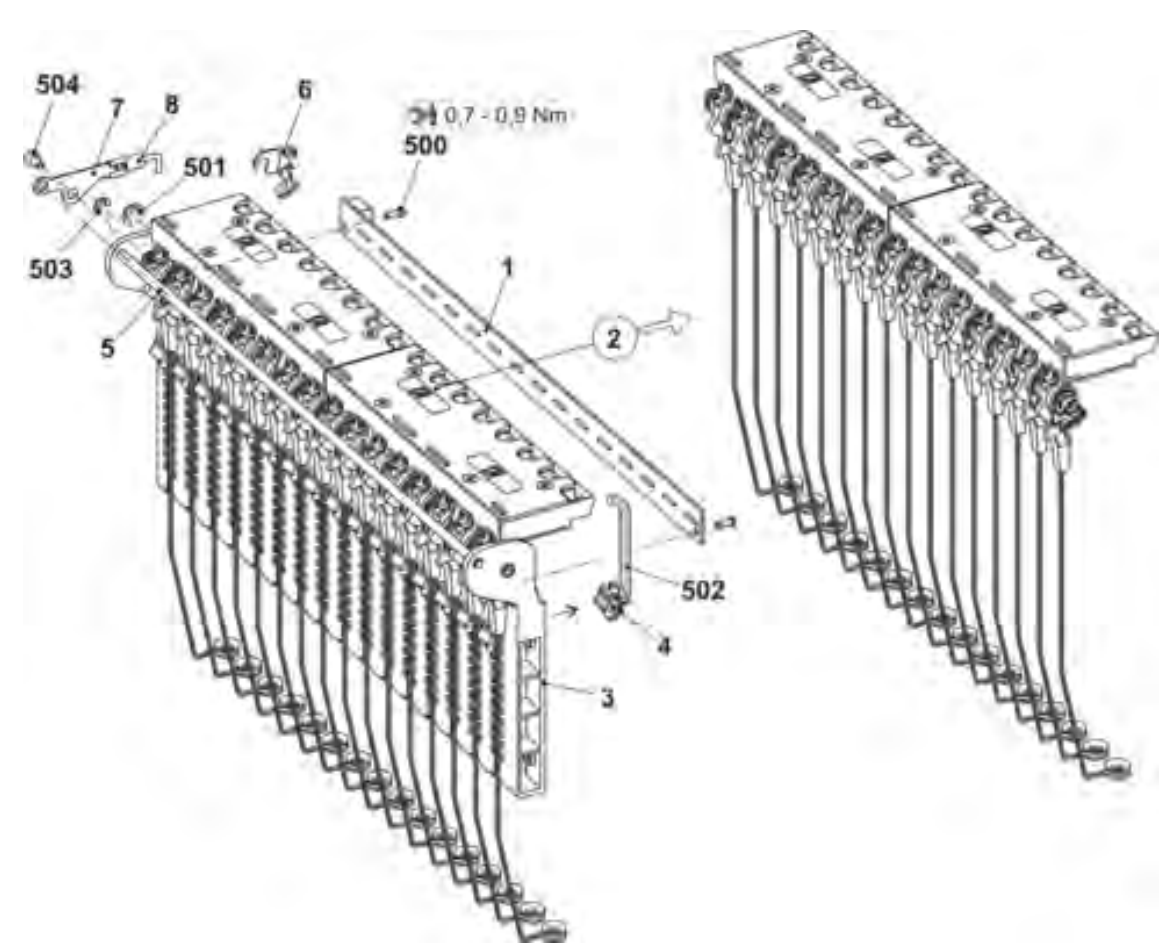
Pos	Designation	Id	Pos	Designation	Id
Σ	Conversion kit 24 IFF E7-8	257 621			
	Conversion kit 32 IFF E7-8	257 583	12	Adjusting part for yarn carrier bow	250 119
1	Yarn tensioner on the left complete E7-8	244 499	13	Yarn guide complete E7-8 IFF 24	256 935
2	Yarn tensioner on the right complete E7-8	244 502		Yarn guide complete E7-8 IFF 32	245 162
3	Yarn guide bar	242 431	14	Stitch cam on the left short tuck E7-8	212 057
4	Support on the left	243 609	15	Stitch cam on the right short tuck E7-8	212 056
5	Support on the right	243 610	16	Pressure part take-over on the left short tuck	240 697
6	Support	243 766	17	Pressure part take-over on the right short tuck	240 698
7	Yarn control device	237 124	500	Self-locking screw M6x12	023 415
8	Yarn guide bracket complete	241 581	501	Ribbed lock washer M6-10	023 414
9	Friction feed wheel 16 fold on the left complete	254 900	502	Square nut M8	023 269
10	Friction feed wheel 16 fold on the right complete	254 901	503	Countersunk screw M8x16	023 113
11	DVD instructions conversion kit IYC	245 169	504	Screw KB60 x 20	237 682



17.3 Yarn tensioner on the left

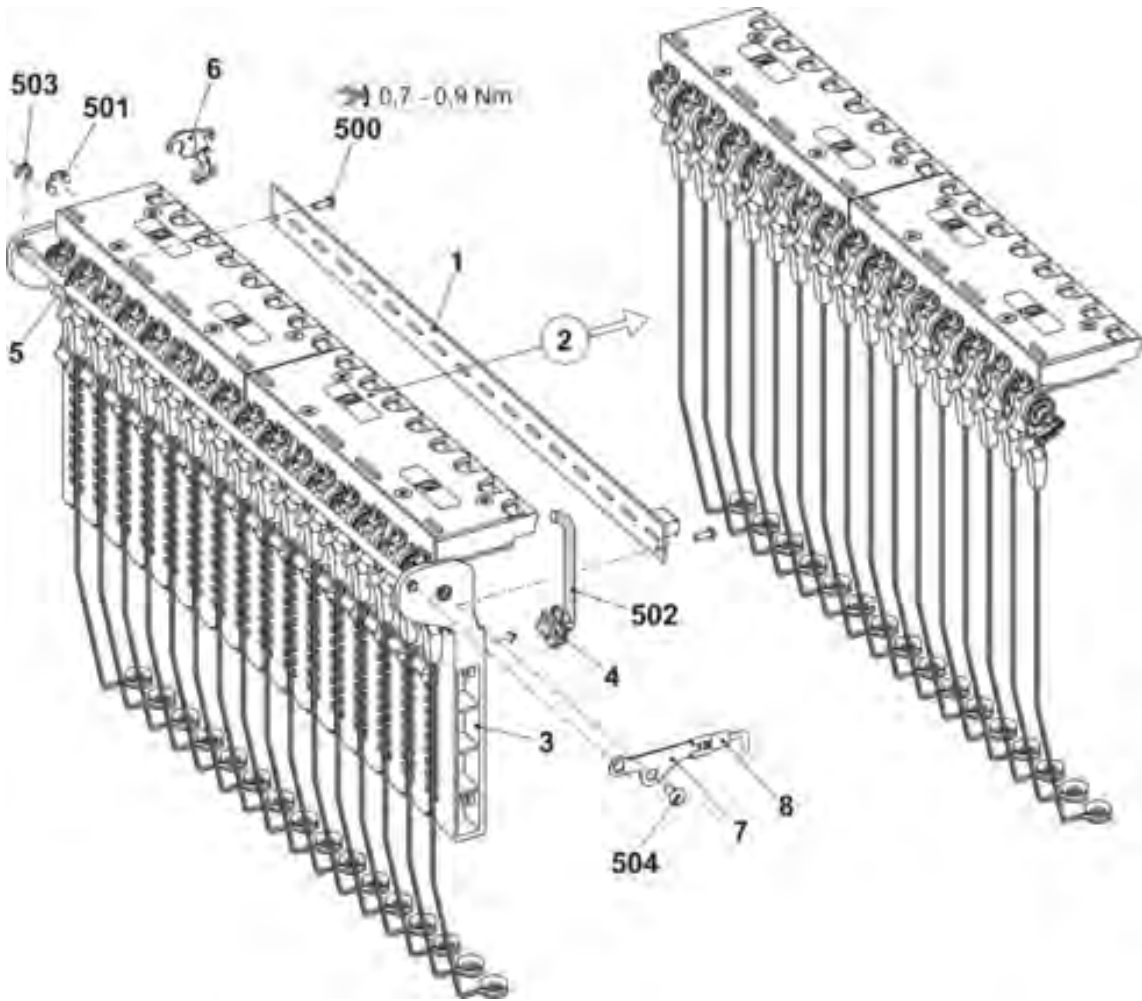
17.3 Yarn tensioner on the left

Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn tensioner on the left complete E5	244 498		7	Grounding sheet metal of tension axle	243 121
	Yarn tensioner on the left complete E7-8	244 499		8	Ground cable yarn tensioner	243 105
1	Card yarn tensioner 16-fold on the left	241 345		500	Screw KB 30x8	236 228
2	Tension axle complete E3-8	244 494		501	Circlip	021 022
3	Housing	241 367		502	Tension spring 5.05x0.55x53 (E5)	023 502
4	Slider	241 694			Tension spring 4,9x0,5x53 (E7-8)	023 503
5	Stop point	241 368		503	Circlip	021 020
6	Spacer	242 048		504	Countersunk screw M4x12	241 914



17.4 Yarn tensioner on the right

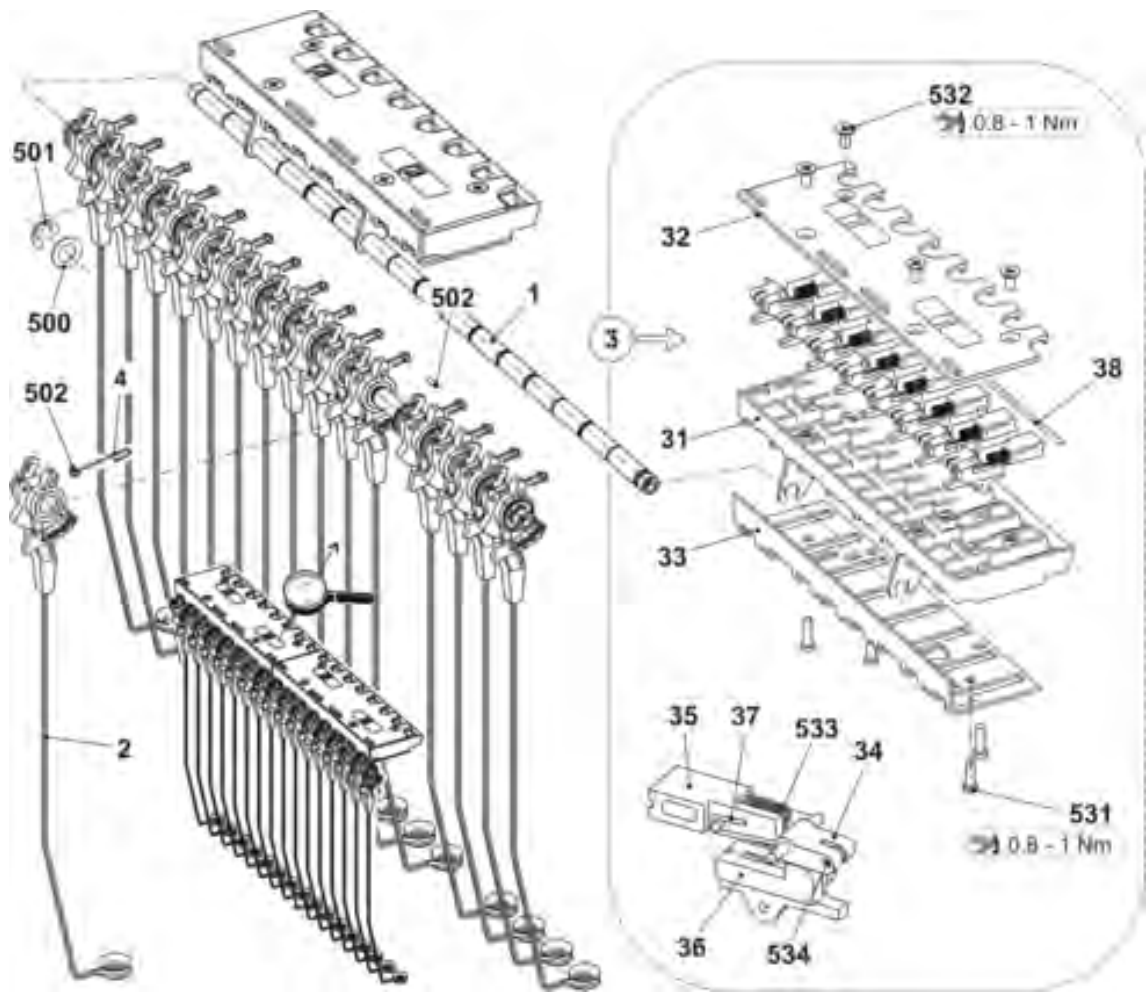
Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn tensioner on the right complete E5	244 501		7	Grounding sheet metal of tension axle	243 121
	Yarn tensioner on the right complete E7-8	244 502		8	Ground cable yarn tensioner	243 105
1	Card yarn tensioner 16-fold on the right	241 346		500	Screw KB 30x8	236 228
2	Tension axle complete E3-8	244 494		501	Circlip	021 022
3	Housing	241 367		502	Tension spring 5.05x0.55x53 (E5)	023 502
4	Slider	241 694			Tension spring 4,9x0,5x53 (E7-8)	023 503
5	Stop point	241 368		503	Circlip	021 020
6	Spacer	242 048		504	Countersunk screw M4x12	241 914



17.4 Yarn tensioner on the right

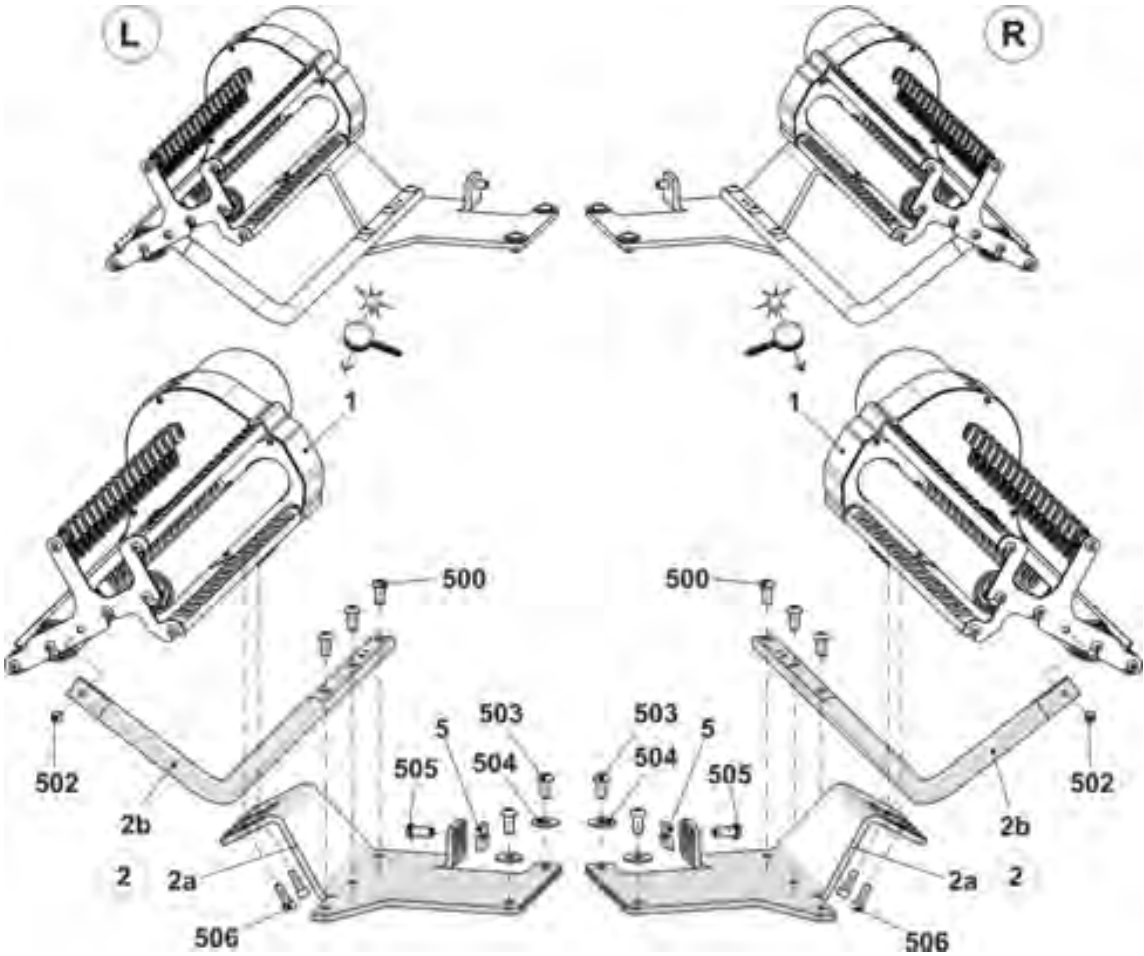
17.4.1 Tension axle

Pos	Designation	Id		Pos	Designation	Id
Σ	Tension axle complete E5 E7 E8	244 494		33	Sheet metal at the bottom (housing AKF)	240 719
1	Axle	244 522		34	Lever AKF	238 692
2	Tension arm pre-assembled E3-8	242 770		35	Thrust piece AKF	238 690
4	Wire bow	238 694		36	Slider AKF	238 691
500	Shim ring 8x14x0.5	023 501		37	Wire bow	238 694
501	Circlip	021 022		38	Wire	237 940
502	Grooved pin 2x6	243 172		531	Screw KB 35x12	237 681
3	Thread clamp AKF	238 695		532	Screw KB 40x8	236 227
31	Housing AKF	238 689		533	Compression spring 0.30x4.50x18.50	241 437
32	Cover AKF	237 926		534	Grooved pin 2x6	243 172



17.5 Friction feed wheel on the left and on the right complete

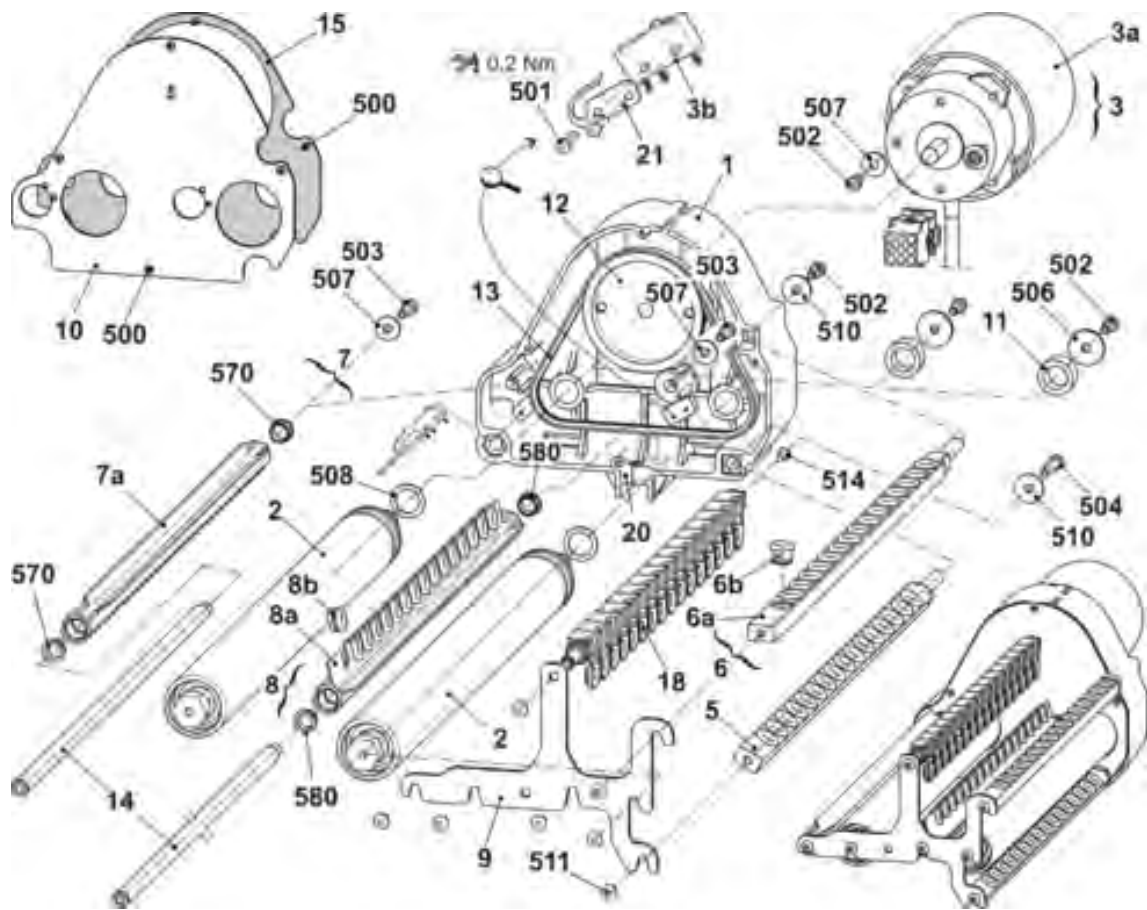
Pos	Designation		Id		Pos	Designation		Id
Σ L	Friction feed wheel 16 fold on the left complete		254 900		Σ R	Friction feed wheel 16 fold on the right complete		254 901
1	Friction feed wheel on the left		244 185		1	Friction feed wheel on the right		244 186
2	Support of left feed wheel 16 fold		254 534		2	Support of right feed wheel 16 fold		254 533
	2a	Support of left feed wheel 16 fold	253 841			2a	Support of right feed wheel 16 fold	253 842
	2b	Support of table on the left	244 560			2b	Support of table on the right	244 561
	500	Countersunk screw M8x16	023 113			500	Countersunk screw M8x16	023 113
5	Sliding block		228 851		5	Sliding block		228 851
502	Countersunk screw M5x8		239 408		502	Countersunk screw M5x8		239 408
503	Countersunk screw M8x16		023 113		503	Countersunk screw M8x16		023 113
504	U-washer		023 248		504	U-washer		023 248
505	Countersunk screw M8x18		251 331		505	Countersunk screw M8x18		251 331
506	Cap screw M6x16		020 135		506	Cap screw M6x16		020 135



17.5 Friction feed wheel on the left and on the right complete

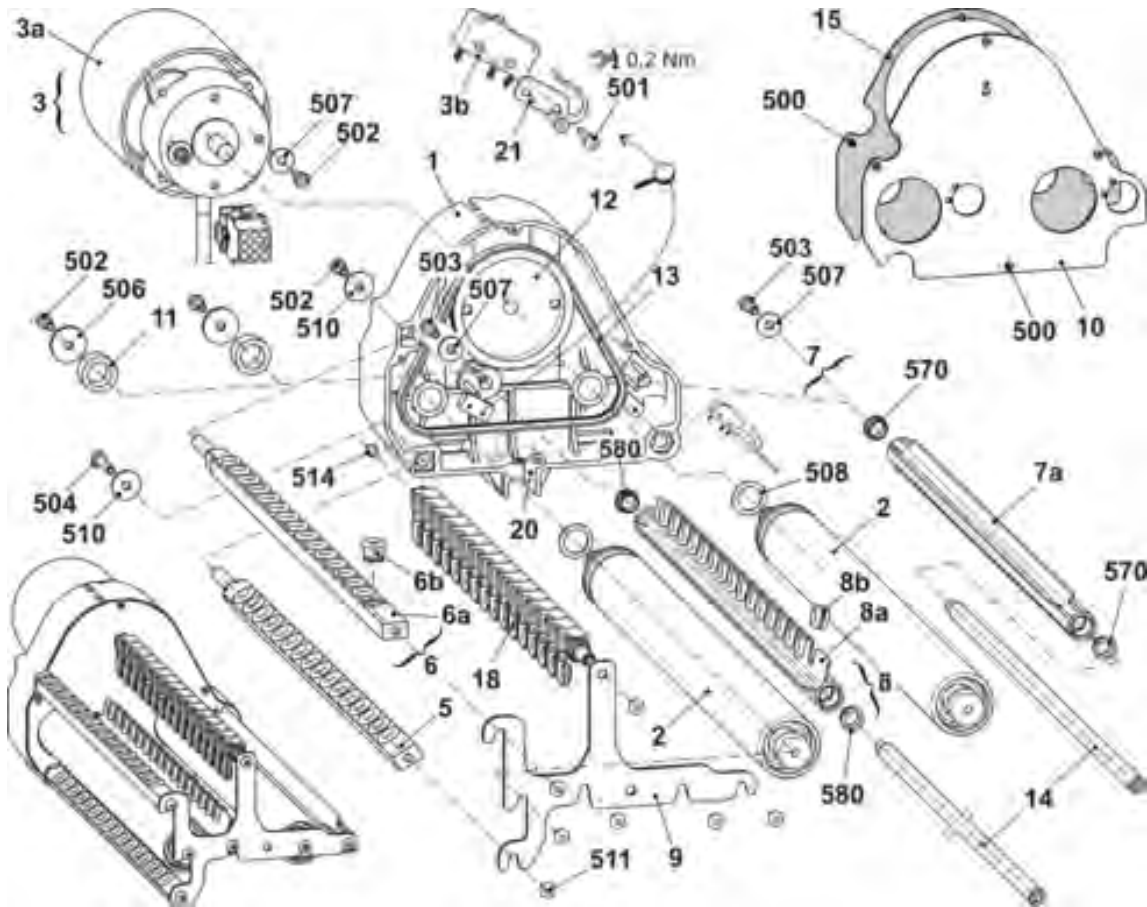
17.5.1 Friction feed wheel on the left

Pos	Designation		Id		Pos	Designation		Id
Σ	Friction feed wheel 16 fold on the left complete		244 185		11	Bush		221 391
1	Housing		240 368		12	Ribbed V-belt pulley		221 268
2	Friction roller complete		243 860		13	Ribbed V-belt		206 927
3	Three-phase A.C. motor 3x42V complete		219 800		14	Rod		243 868
	3a	Three-phase A.C. motor	220 161		15	Cover		230 758
	3b	Microswitch	008 664		18	Deflector complete 16-fold		250 102
5	Yarn guide rod 16-fold complete		244 576		20	Grounding plate		256 622
6	Yarn guide rod 16-fold complete		244 578		21	Spring plate		256 702
	6a	Yarn guide rod 16-fold	244 577		500	Screw KB 30x8		236 228
	6b	Ceramic eyelet	240 640		501	Screw M20x10		244 736
7	Stop motion rail on the right complete		243 863		502	Cap screw M5x12		020 132
	7a	Stop motion rail on the right	243 864		503	Cap screw M5X16		022 726
	570	Slide bearing GFM-101214-07	023 627		504	Cap screw M5X25		023 523
8	Stop motion rail on the left complete		243 865		506	Washer 6.1x9x0.5		023 219
	8a	Stop motion rail on the left	243 866		507	U-washer 5		020 901
	8b	Eyelet	230 662		508	Shim ring 15x21x1		023 216
	580	Slide bearing GFM-101214-07	023 627		510	U-washer 5		023 542
9	Strap		251 113		511	Countersunk screw M5x8		239 408
10	Cover		251 098		514	Pan-head screw M4x8		023 579



17.5.2 Friction feed wheel on the right

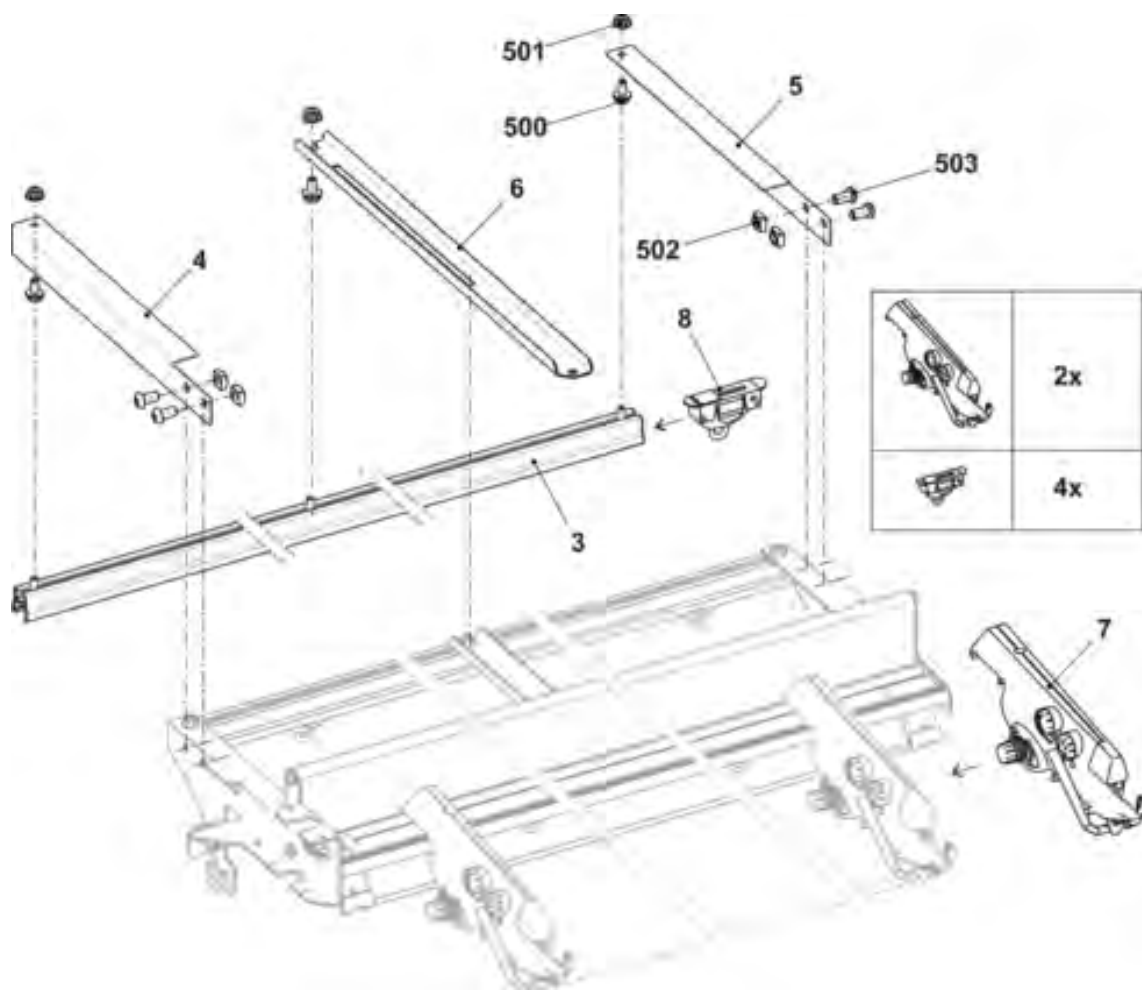
Pos	Designation	Id	Pos	Designation	Id
Σ	Friction feed wheel 16 fold on the right complete	244 186	11	Bush	221 391
1	Housing	240 368	12	Ribbed V-belt pulley	221 268
2	Friction roller complete	243 860	13	Ribbed V-belt	206 927
3	Three-phase A.C. motor 3x42V complete	219 800	14	Rod	243 868
	3a Three-phase A.C. motor	220 161	15	Cover	230 758
	3b Microswitch	008 664	18	Deflector complete 16-fold	250 102
5	Yarn guide rod 16-fold complete	244 772	20	Grounding plate	256 622
6	Yarn guide rod 16-fold complete	244 578	21	Spring plate	256 702
	6a Yarn guide rod 16-fold	244 577	500	Screw KB 30x8	236 228
	6b Ceramic eyelet	240 640	501	Screw M20x10	244 736
7	Stop motion rail on the right complete	243 863	502	Cap screw M5x12	020 132
	7a Stop motion rail on the right	243 864	503	Cap screw M5X16	022 726
	570 Slide bearing GFM-101214-07	023 627	504	Cap screw M5X25	023 523
8	Stop motion rail on the right complete	244 530	506	Washer 6.1x9x0.5	023 219
	8a Stop motion rail on the right	244 531	507	U-washer 5	020 901
	8b Eyelet	230 662	508	Shim ring 15x21x1	023 216
	580 Slide bearing GFM-101214-07	023 627	510	U-washer 5	023 542
9	Strap	251 113	511	Countersunk screw M5x8	239 408
10	Cover	251 098	514	Pan-head screw M4x8	023 579



17.6 Parts for the yarn guide system E7-8

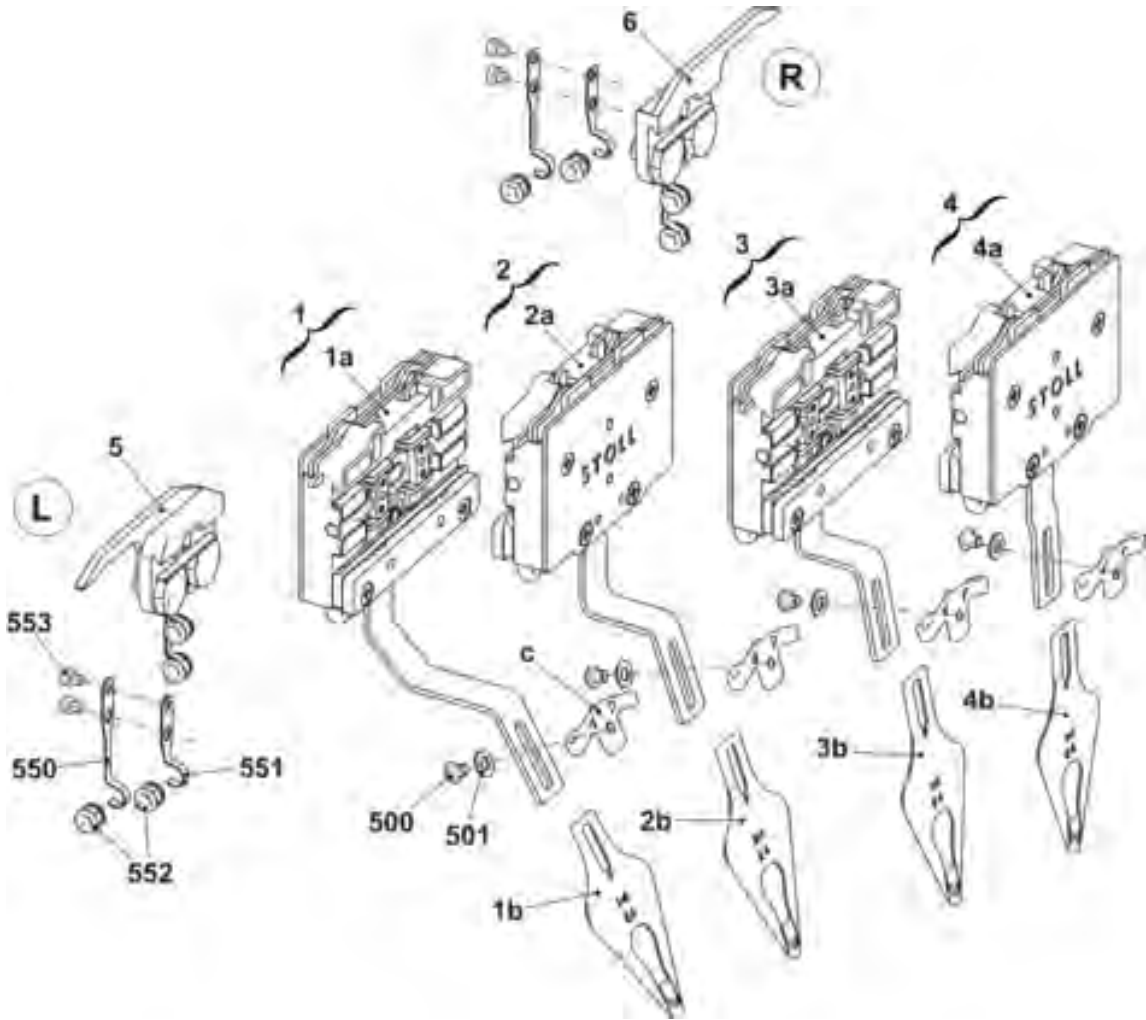
17.6 Parts for the yarn guide system E7-8

Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn guide system					
3	Yarn guide bar	242 431		7	Yarn guide bracket complete	241 581
4	Support on the left	243 609		500	Self-locking screw M6x12	023 415
5	Support on the right	243 610		501	Ribbed lock washer M6-10	023 414
6	Support	243 766		502	Square nut M8	023 269
7	Yarn control device	237 124		503	Countersunk screw M8x16	023 113



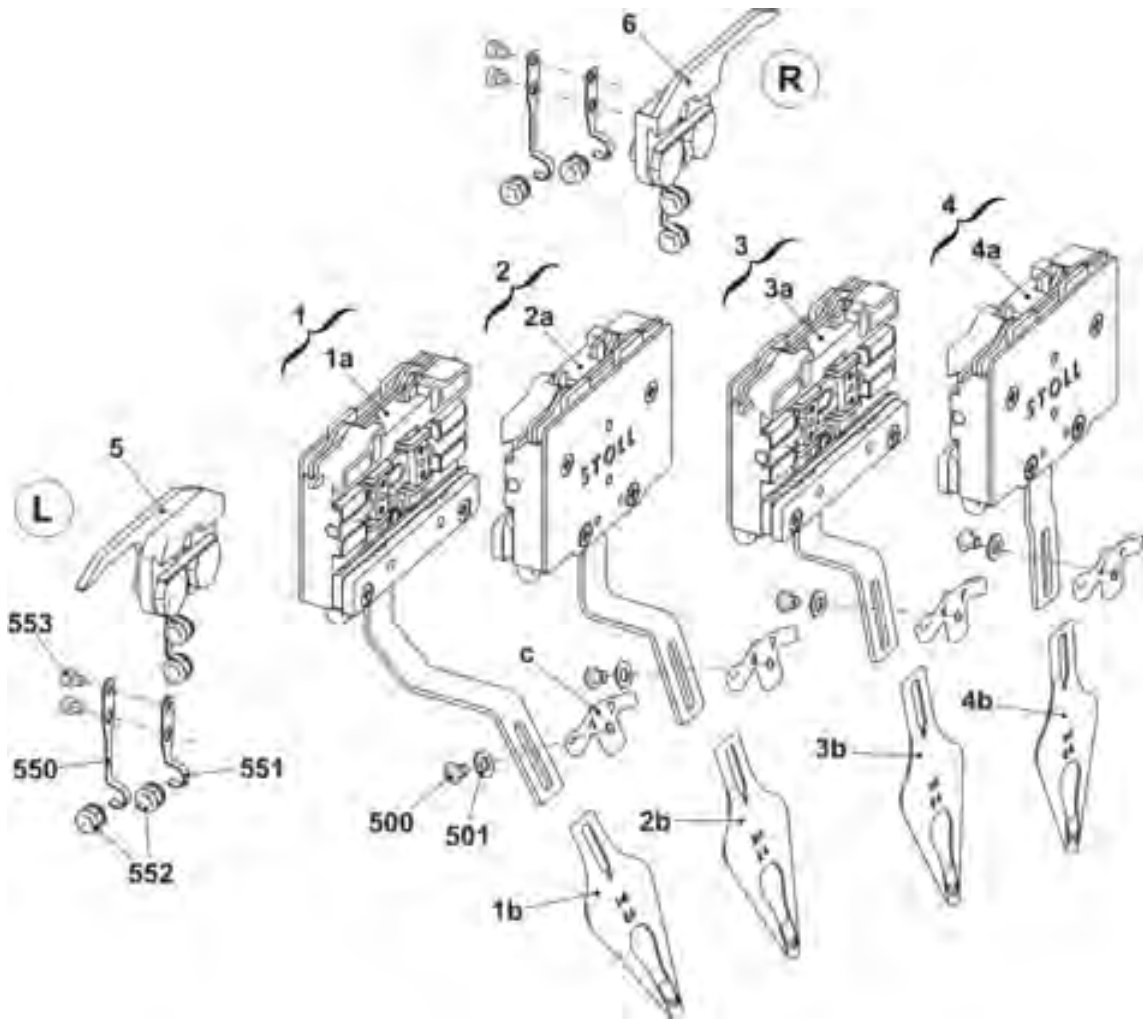
17.7 Yarn guide complete E5 IFF 24

Pos	Designation		Id		Pos	Designation		Id
Σ	Yarn guide complete E5 IFF 24		256 934					
1	IFF carriage complete 1+8 E5		250 319		5	Limiter on the left with two eyelets		244 446
	1a	IFF carriage 1+8	250 315			550	Eyelet holder complete	022 324
	1b	Yarn carrier head 1+8 complete E5	244 076			551	Eyelet holder complete	022 323
2	IFF carriage complete 2+7 E5		250 320			552	Eyelet 4.2	021 499
	2a	IFF carriage 2+7	250 316			553	Cap screw M3.5x4	020 011
	2b	Yarn carrier head 2+7 complete E5	244 077		6	Limiter on the right with two eyelets		244 445
3	IFF carriage complete 3+6 E5		250 321		c	Yarn guide angle		242 863
	3a	IFF carriage 3+6	250 317		500	Pan-head screw M4x5		239 549
	3b	Yarn carrier head 3-6 complete E5	244 078		501	U-washer 4		020 870
4	IFF carriage complete 4+5 E5		250 322					
	4a	IFF carriage 4+5	250 318					
	4b	Yarn carrier head 3-6 complete E5	244 078					



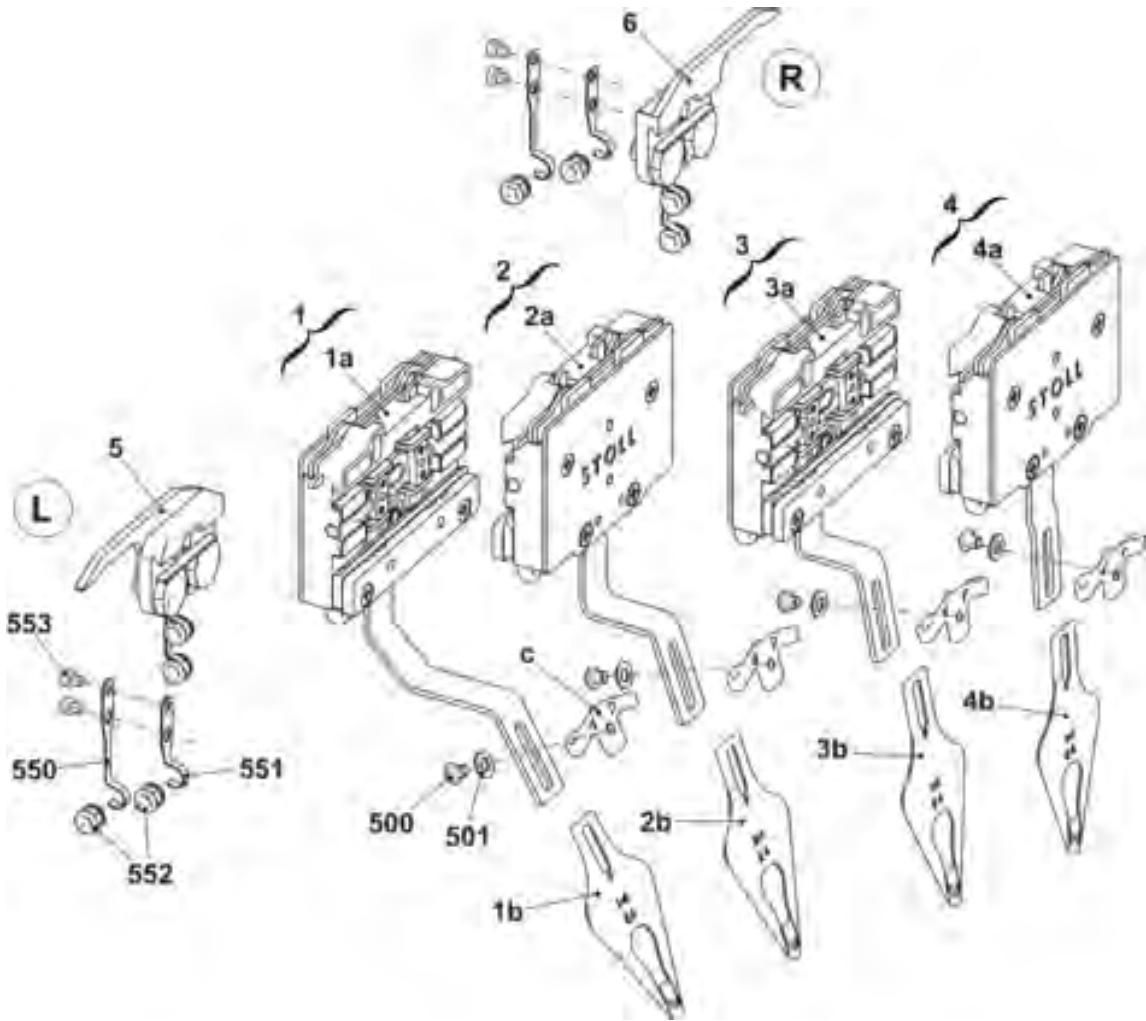
17.8 Yarn guide complete E7-8 IFF 24

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn guide complete E7-8 IFF 24	256 935			
1	IFF carriage complete 1+8 E7-8	250 323	5	Limiter on the left with two eyelets	244 446
	1a IFF carriage 1+8	250 315		550 Eyelet holder complete	022 324
	1b Yarn carrier head 1+8 complete E7-8	244 082		551 Eyelet holder complete	022 323
2	IFF carriage complete 1+8 E7-8	250 324		552 Eyelet 4.2	021 499
	2a IFF carriage 2+7	250 316		553 Cap screw M3.5x4	020 011
	2b Yarn carrier head 2+7 complete E7-8	244 083	6	Limiter on the right with two eyelets	244 445
3	IFF carriage complete 3+6 E7-8	250 325	c	Yarn guide angle	242 863
	3a IFF carriage 3+6	250 317	500	Pan-head screw M4x5	239 549
	3b Yarn carrier head 3-6 complete E7-8	244 084	501	U-washer 4	020 870
4	IFF carriage complete 4+5 E7-8	250 326			
	4a IFF carriage 4+5	250 318			
	4b Yarn carrier head 3-6 complete E7-8	244 084			



17.9 Yarn guide complete E5 IFF 32

Pos	Designation		Id		Pos	Designation		Id
Σ	Yarn guide complete E5 IFF 32		245 161					
1	IFF carriage complete 1+8 E5		250 319		5	Limiter on the left with two eyelets		244 446
	1a	IFF carriage 1+8	250 315			550	Eyelet holder complete	022 324
	1b	Yarn carrier head 1+8 complete E5	244 076			551	Eyelet holder complete	022 323
2	IFF carriage complete 2+7 E5		250 320			552	Eyelet 4.2	021 499
	2a	IFF carriage 2+7	250 316			553	Cap screw M3.5x4	020 011
	2b	Yarn carrier head 2+7 complete E5	244 077		6	Limiter on the right with two eyelets		244 445
3	IFF carriage complete 3+6 E5		250 321		c	Yarn guide angle		242 863
	3a	IFF carriage 3+6	250 317		500	Pan-head screw M4x5		239 549
	3b	Yarn carrier head 3-6 complete E5	244 078		501	U-washer 4		020 870
4	IFF carriage complete 4+5 E5		250 322					
	4a	IFF carriage 4+5	250 318					
	4b	Yarn carrier head 3-6 complete E5	244 078					



17.10 Yarn guide complete E7-8 IFF 32

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn guide complete E7-8 IFF 32	245 162			
1	IFF carriage complete 1+8 E7-8	250 323	5	Limiter on the left with two eyelets	244 446
	1a IFF carriage 1+8	250 315		550 Eyelet holder complete	022 324
	1b Yarn carrier head 1+8 complete E7-8	244 082		551 Eyelet holder complete	022 323
2	IFF carriage complete 1+8 E7-8	250 324		552 Eyelet 4.2	021 499
	2a IFF carriage 2+7	250 316		553 Cap screw M3.5x4	020 011
	2b Yarn carrier head 2+7 complete E7-8	244 083	6	Limiter on the right with two eyelets	244 445
3	IFF carriage complete 3+6 E7-8	250 325	c	Yarn guide angle	242 863
	3a IFF carriage 3+6	250 317	500	Pan-head screw M4x5	239 549
	3b Yarn carrier head 3-6 complete E7-8	244 084	501	U-washer 4	020 870
4	IFF carriage complete 4+5 E7-8	250 326			
	4a IFF carriage 4+5	250 318			
	4b Yarn carrier head 3-6 complete E7-8	244 084			

