

STOLL

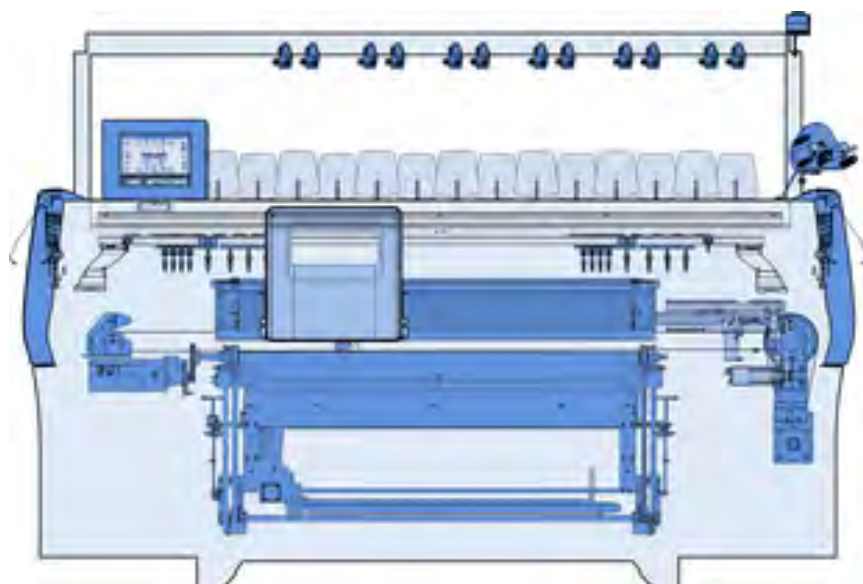
THE RIGHT WAY TO KNIT

Spare-parts catalog

CMS 502 (Type 638)

Component type 000

E5 | E7 | E7m.5 | E3,5.2 | E3,5.2m.4L | E2,5.2 | E2,5.2m.4L



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1 Introduction

Imprint

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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.

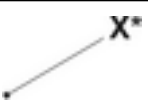
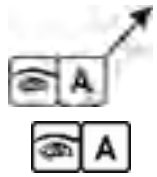
When ordering spare parts we imperatively ask for the following indications as otherwise a delivery of spare parts is not possible:

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

Only genuine STOLL spare parts may be used for repairs.

1.1 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.

1.2 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 Clasas de resistencia		
		4,8	8,8	12,9
Regelgewinde Coarse-pitch thread Filetage à pas gros Filatto 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 **not 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.

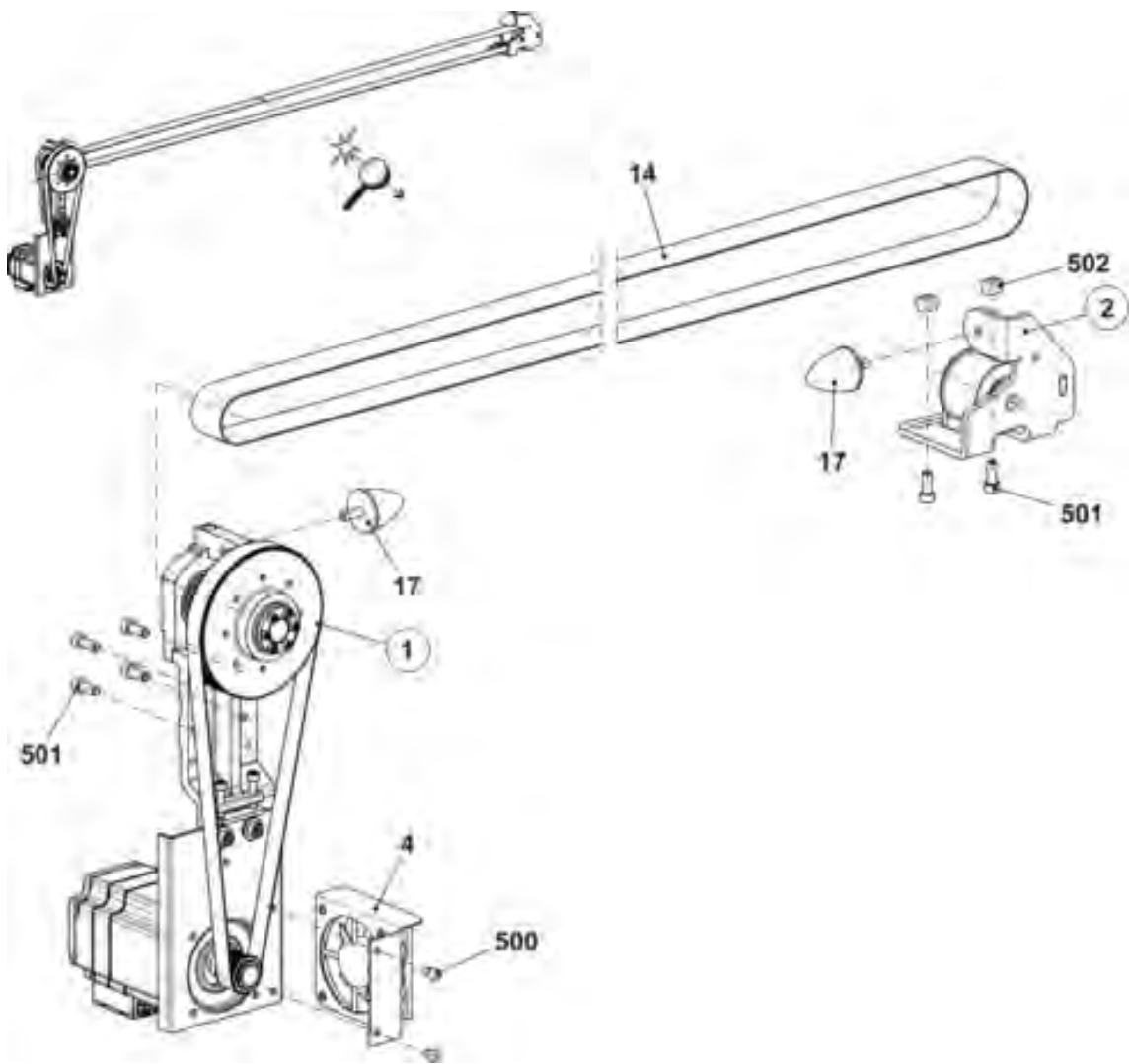
Notes:

2 Carriage drive



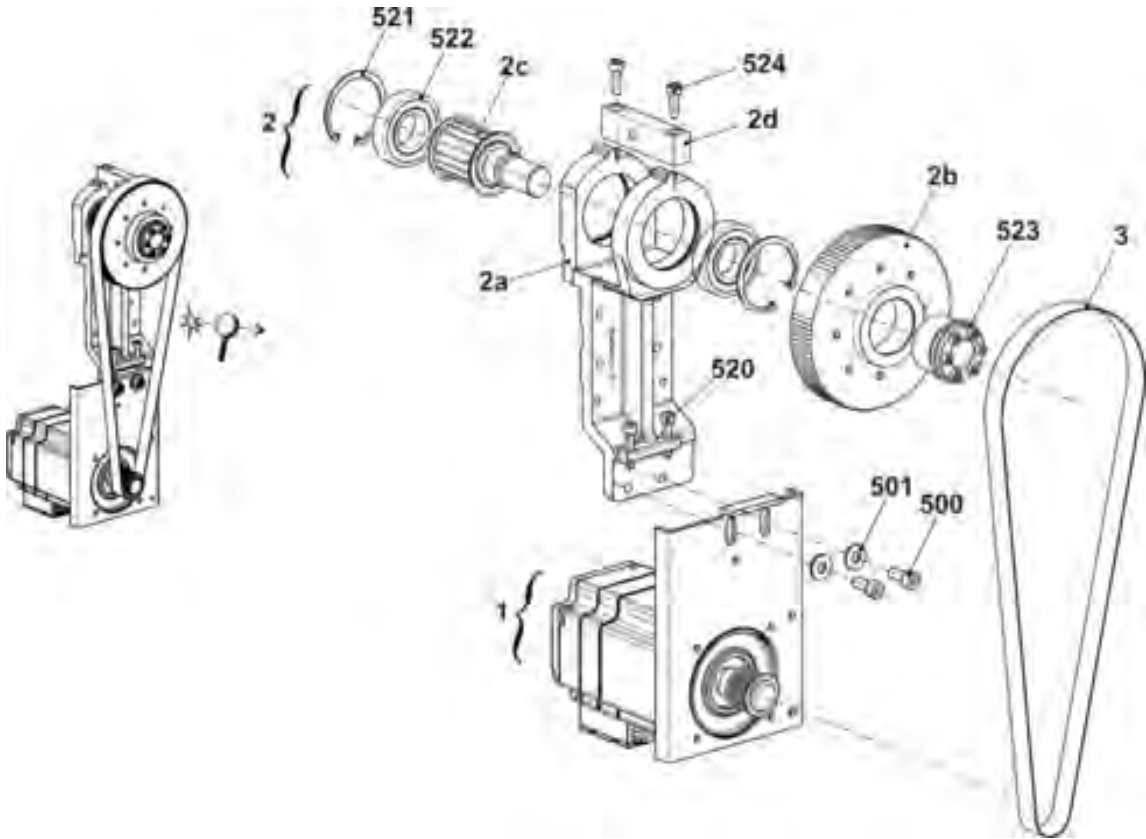
2.1 Drive

Pos	Designation	Id		Pos	Designation	Id
Σ	Drive unit					
1	Drive unit complete	251 608		17	Parabolic spring	200 661
2	Tension bearing complete	251 581		500	Cap screwM8x12	023 138
4	Fan complete	253 692		501	Cap screwM10x25	020 157
14	Toothed belt50AT10/4170 HP	251 607		502	NutM10x12	023 471



2.1.1 Motor and belt drive

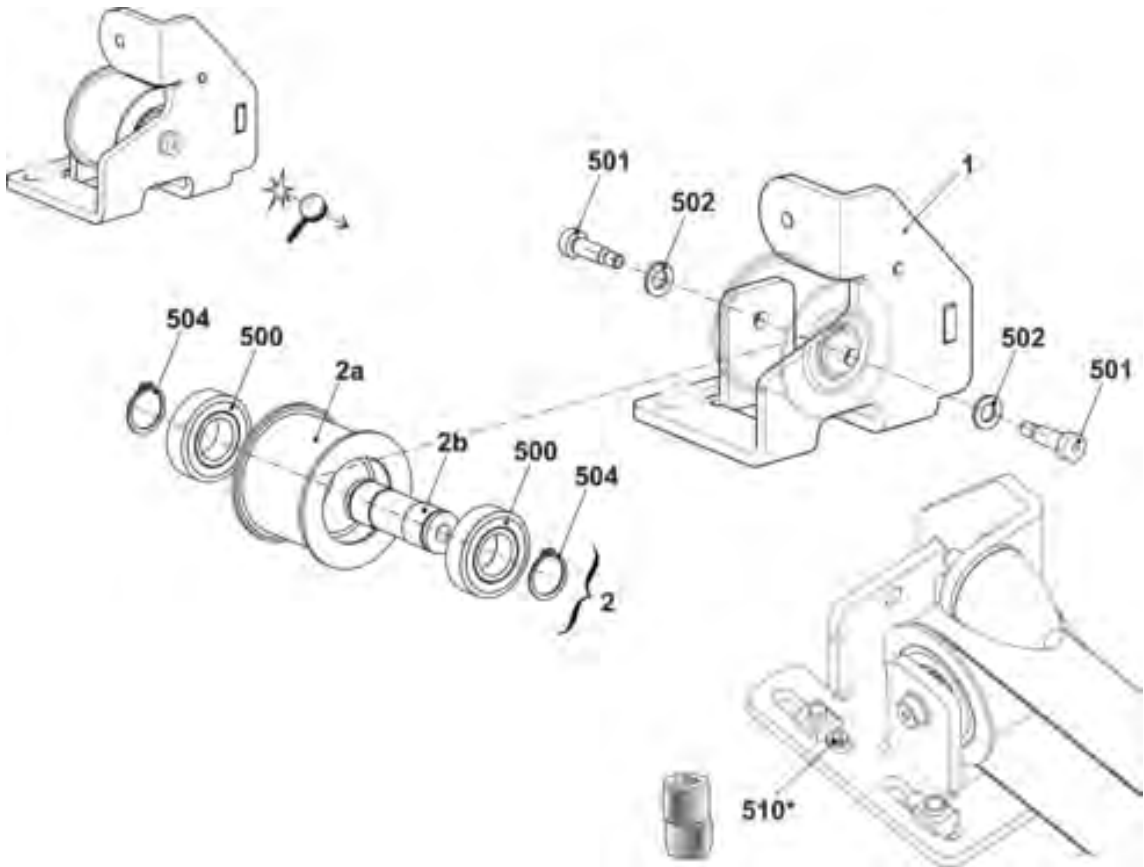
Pos	Designation		Id		Pos	Designation		Id	
Σ	Drive unit complete		251 608						
1	Drive unit		258 189			521	Locking ring68x2.5	022 914	
2	Drive bearing		255 005			522	Grooved ball bearing 6207-2RS		022 915
	2a	Drive bearing	252 634			523	Tension set 30X55		023 208
	2b	Toothed belt pulley	240 616			524	Cap screw M8X25 12.9		020 142
	2c	Pinion57 AT10 18	242 039		3	Toothed belt		252 594	
	2d	Support of buffer	222 100		500	Cap screwM10X25		020 157	
520	Cap screw M8X35	020 144	501		Disk10,5X25X2,5		022 178		



2.1 Drive

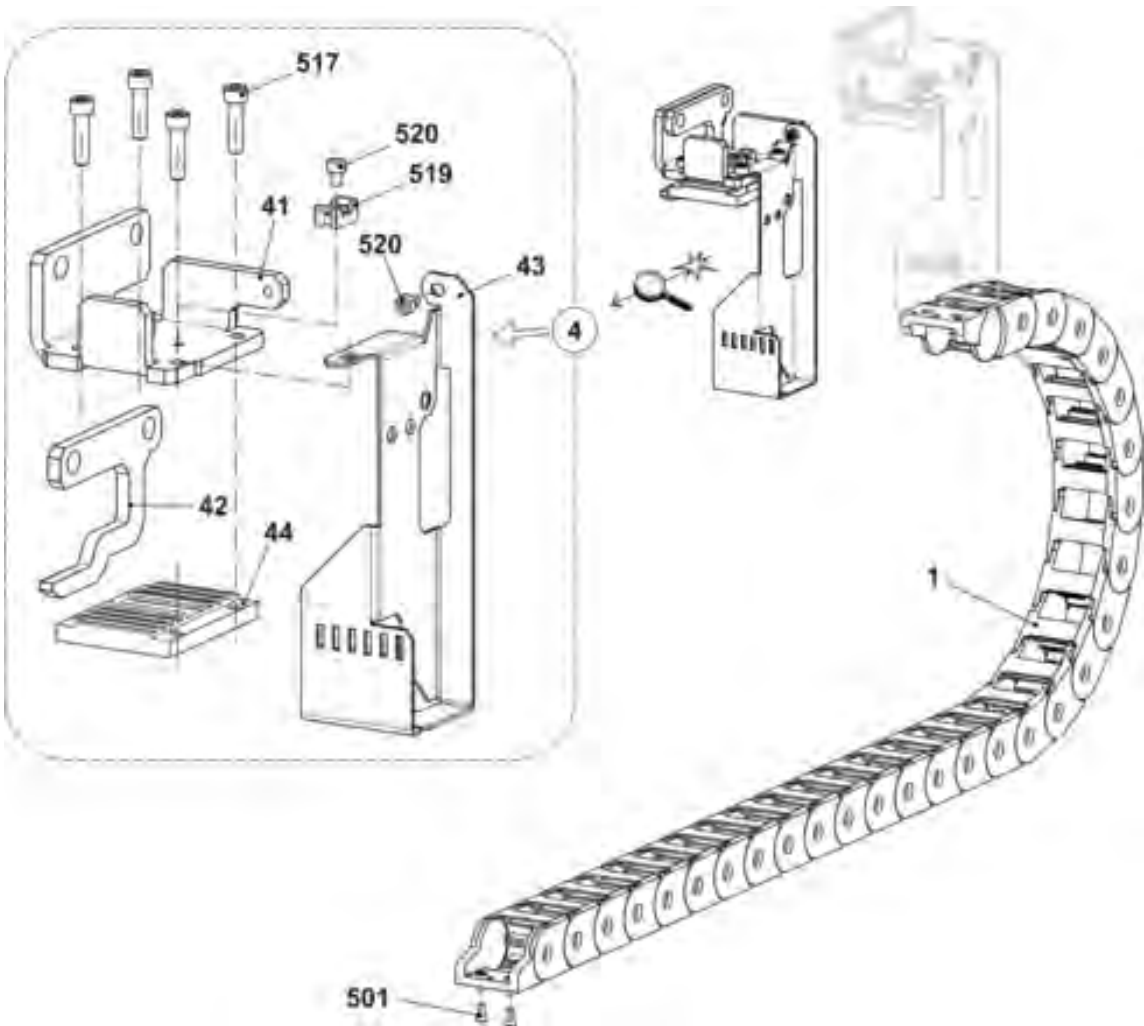
2.1.2 Tension bearing

Pos	Designation		ID		Pos	Designation		ID
Σ	Tension bearing complete		251 581		2	500	Grooved ball bearing625-6305-2RS	255 686
1	Tension bearing		251 560			504	Locking ring 471-25x1,2	251 617
2	Tension roller complete		256 640		501	Cap screw M10x25		023 751
	2a	Tension roller	255 684		502	Washer		020 874
	2b	Axle	251 579		510*	Eccentric		255 499



2.2 Energy chain and plunger

Pos	Designation		Id		Pos	Designation		Id
1	Energy chain 28 links		253 896		4	43	Cable driver	259 287
501	Cap screw M6x8		023 411			44	Clamping plate	252 592
4	Carriage driver complete		258 404			517	Cap screw M8x30	020 143
	41	Carriage driver	260 689			519	Fixing element	026 489
	42	Switch flag carriage driver	260 690			520	Cap screw M6x8	023 411



2.2 Energy chain and plunger

Notes:

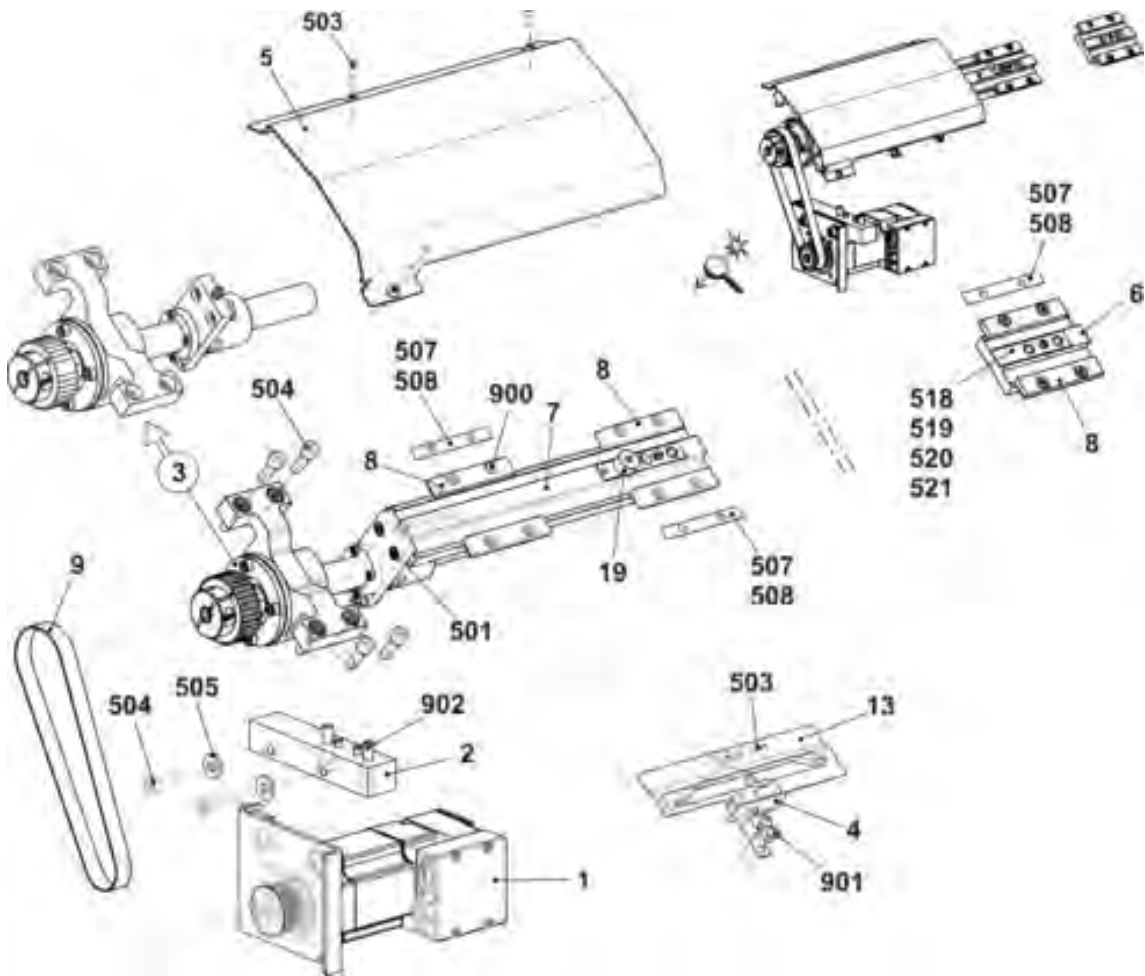
3 Racking



3.1 Racking drive

3.1 Racking drive

Pos	Designation	Id	Pos	Designation	Id
Σ	Racking				
1	Three-phase AC servo motor racking complete	258 195	503	Pan-head screw M6x10	023 183
2	Bearing	257 403	504	Cap screw M8x25	020 142
3	Spindle bearing	253 262	505	Washer8,4X20X3	022 175
4	Card racking limit switch	229 396	507	Shim0,03x11x80	023 286
5	Racking cover plate	256 858	508	Shim0,05x11x80	023 287
6	Racking strip on the left	240 696	518	Shim0,03x15x75	023 395
7	Racking strip	256 857	519	Shim 0,05x15x7	023 396
8	Guide strip	206 382	520	Shim0,1x15x75	023 397
9	Toothed belt150 S 5M 490	229 281	521	Shim0,2x15x75	023 398
13	Switch plate	240 722	900	Cap screw M6x12	022 795
19	Stop screw	221 386	901	Pan-head screw M6x10	023 183
501	Cap screw M6x16	023 116	902	Cap screw M8x30	020 143



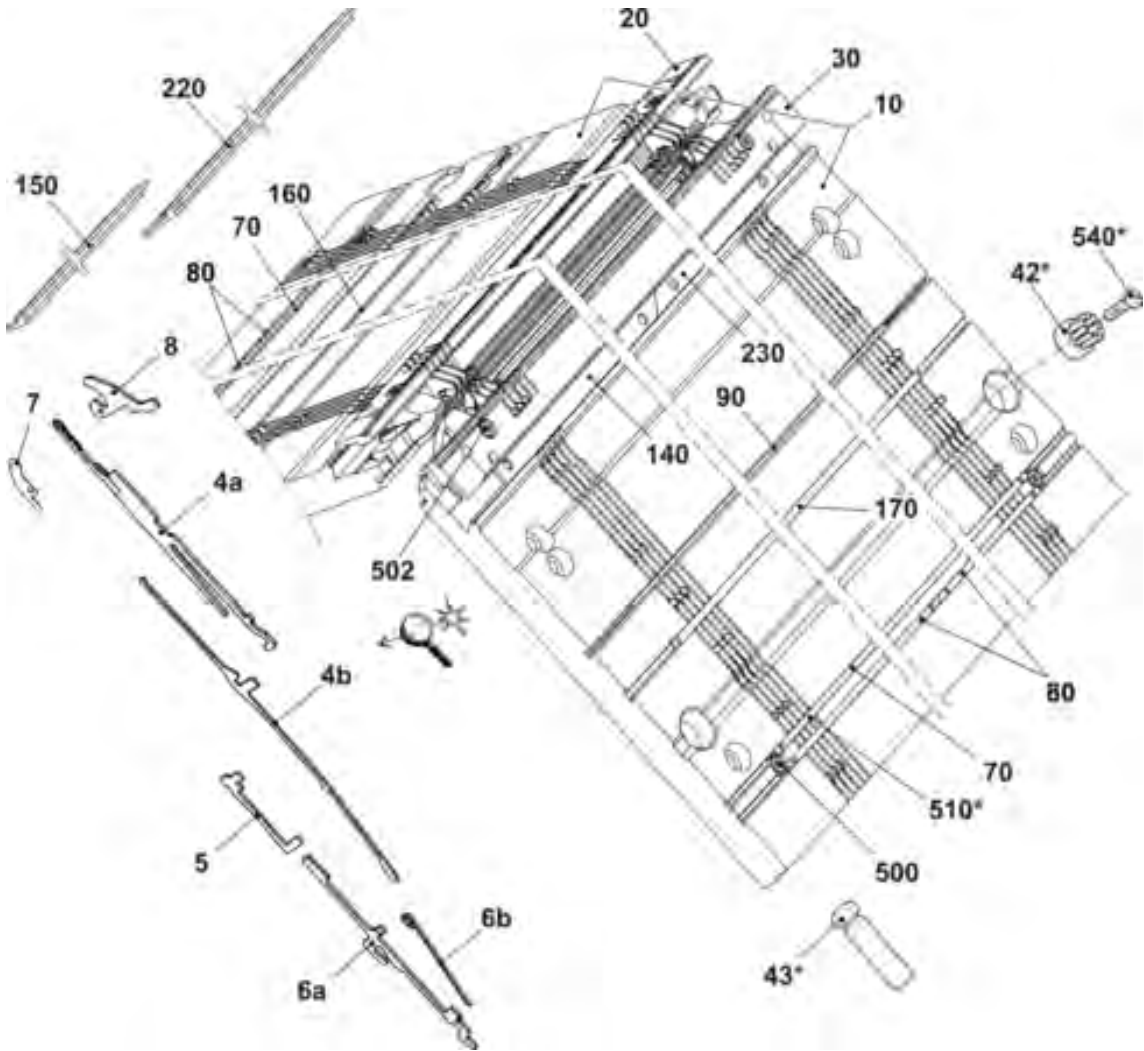
4 Needle beds



4.1 Needle bed E5

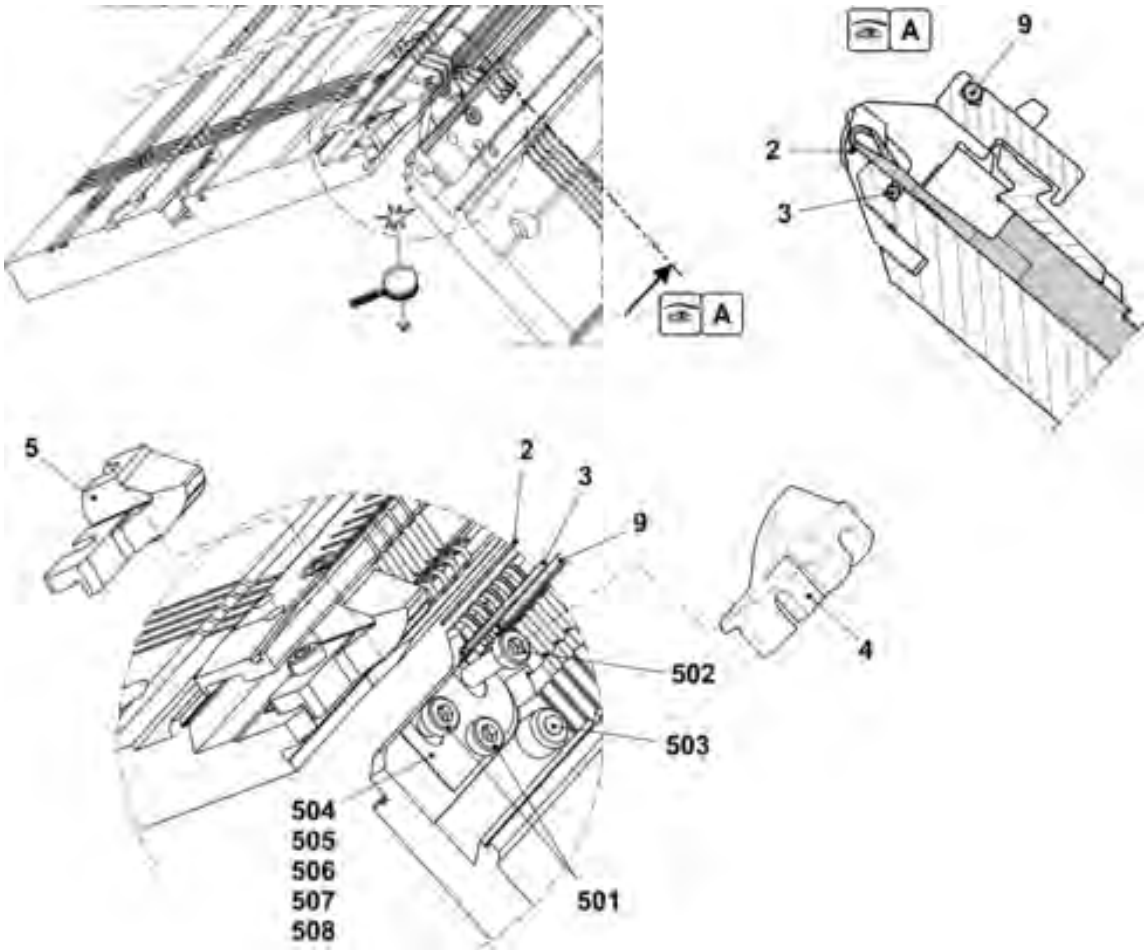
4.1 Needle bed E5

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rearE5	252 665				
4a	Needle E5 - E6 with round hook	205 396		90	Locating wire D=2,8	207 270
4b	Coupling part E5 - E8	253 381		140	Needle bar on the left at the front	237 835
5	Intermediate slider E5 - E8	237 323		150	Needle bar rear on the right	237 836
6a	Selection jack E4 - E8	200 687		160	Cover rail at the rear	250 572
6b	Selector spring E4 - E8	200 690		170	Cover rail at the front E5	255 538
7	Knock-over bit E5	204 996		220	Needle bar on the left at the rear	253 908
8	Holding-down jack E5	205 031		230	Needle bar on the right at the rear	253 910
10	Needle bed at the front + rearE5	251 619		500	Cap screw M5x10	022 918
20	Holding-down jack bed at the rear E5	250 537		502	Cap screw M5x22	023 193
30	Holding-down jack bed at the front E5	250 536		42*	Disk brush	202 600
70	Cover rail	250 575		43*	Adjusting bolt	251 772
80	Cover rail	250 576		540*	Cap screw M5x12	020 032



4.1.1 Continuation needle bed E5

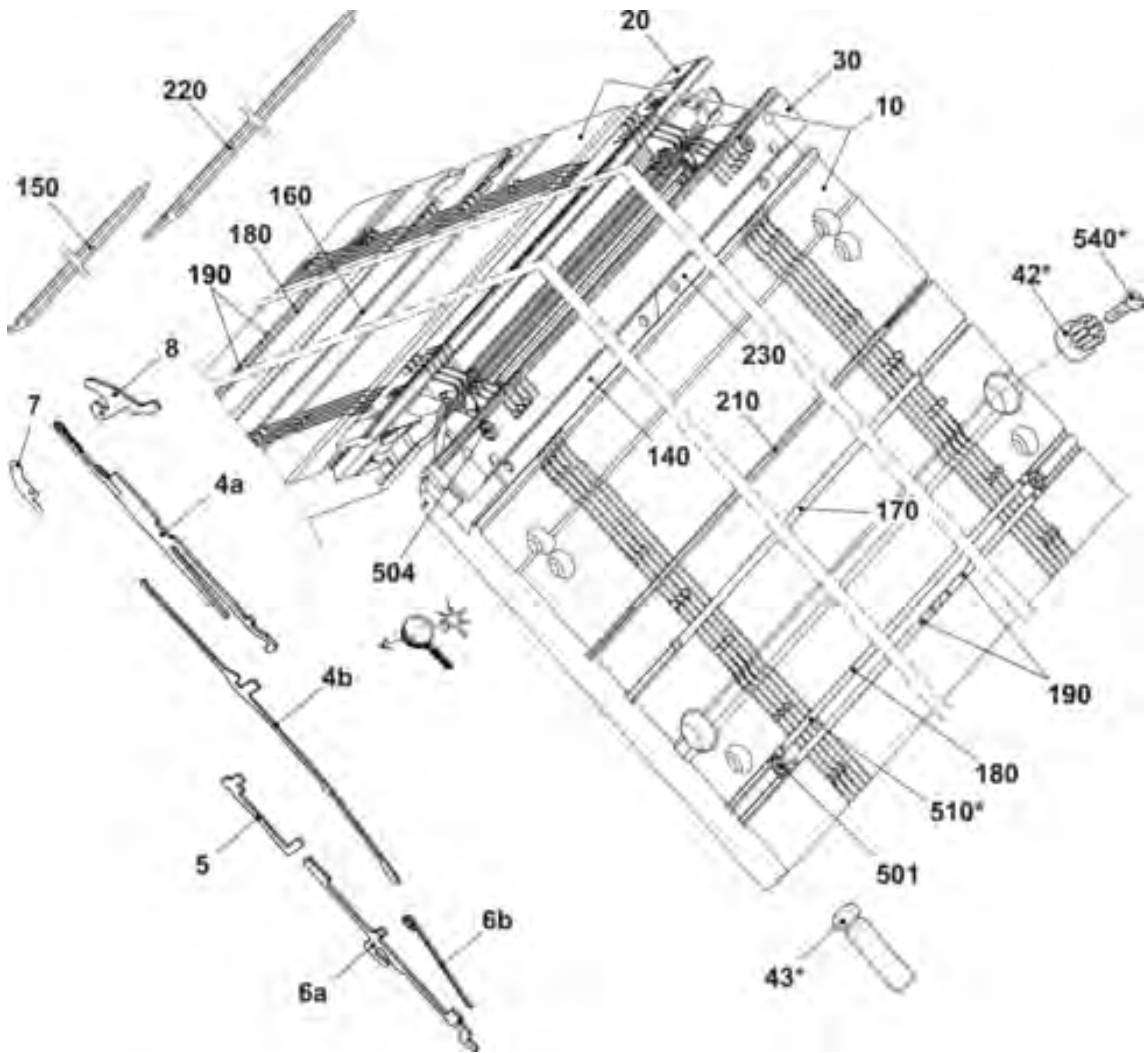
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E5	252 665		502	Cap screwM5x22	023 193
2	Spring steel wire ø 1,0	207 482		503	Springy thrust piece	023 177
3	Spring steel wire ø 2,0	207 269		504	Shim 0,02x18,5x34	023 194
4	Limiter on the left E4-8	205 343		505	Shim 0,03x18,5x34	023 195
5	Limiter on the right E4-8	205 344		506	Shim 0,05x18,5x34	023 196
9	Locating wire ø2,8	207 270		507	Shim 0,1x18,5x34	023 197
501	Cap screwM5x8	023 154		508	Shim 0,2x18,5x34	023 253



4.2 Needle bed E7

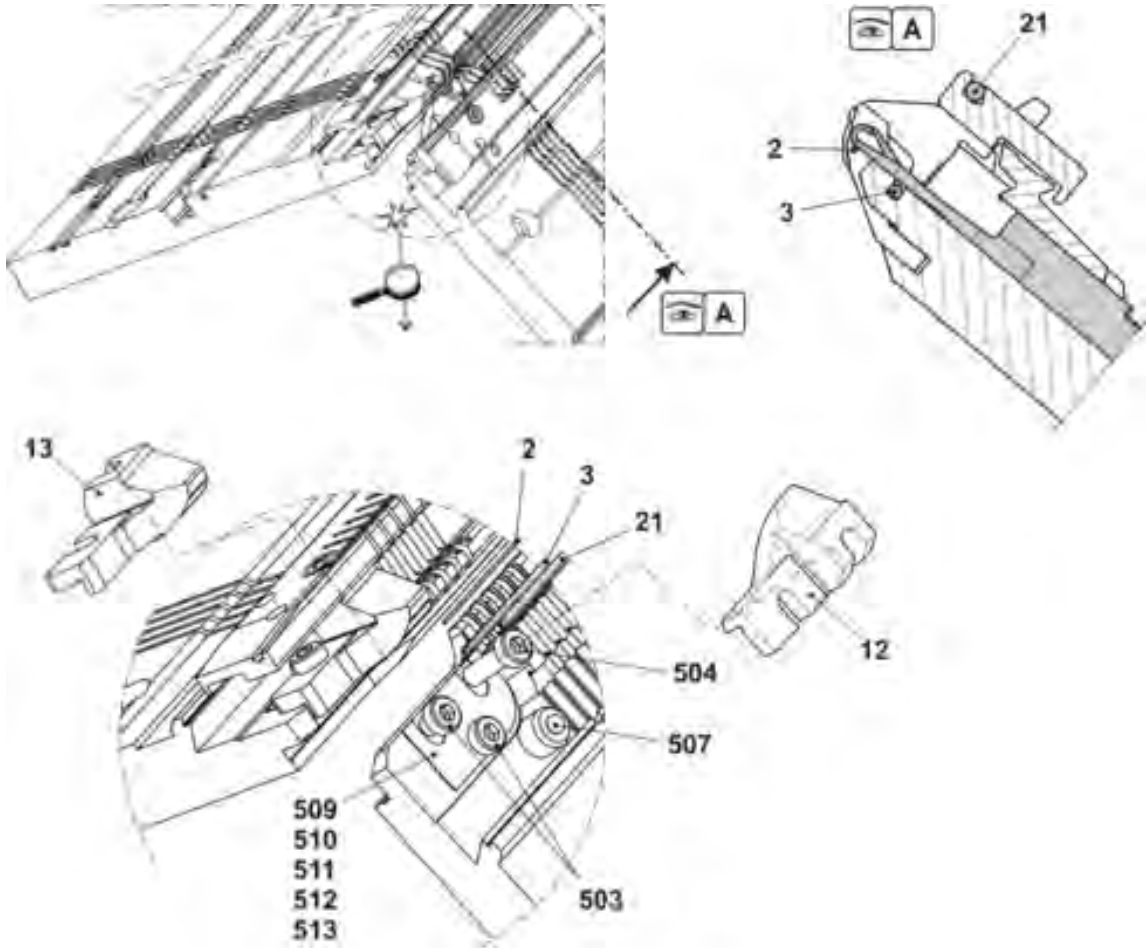
4.2 Needle bed E7

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rearE7	252 667				
4a	Needle E7 with round hook	205 397		160	Cover rail at the rear	250 572
4b	Coupling part E5-8	253 381		170	Cover rail at the front E7	255 539
5	Intermediate slider with brake E5-8	237 323		180	Cover rail	250 575
6a	Selection jack E4 - E8	200 687		190	Cover rail	250 576
6b	Selector spring E4 - E8	200 690		210	Locating wire ø2,8	207 270
7	Knock-over bit E7	207 055		220	Needle bar on the left at the rear	253 908
8	Holding-down jack E7	205 032		230	Needle bar on the right at the rear	253 910
10	Needle bed at the front + rearE7	251 620		501	Cap screw M5x10	022 918
20	Holding-down jack bed at the rear E7	250 539		504	Cap screw M5x22	023 193
30	Holding-down jack bed at the front E7	250 538		42*	Disk brush	202 600
140	Needle bar on the left at the front	237 835		43*	Adjusting bolt	251 772
150	Needle bar rear on the right	237 836		540*	Cap screw M5x12	020 032



4.2.1 Continuation needle bed E7

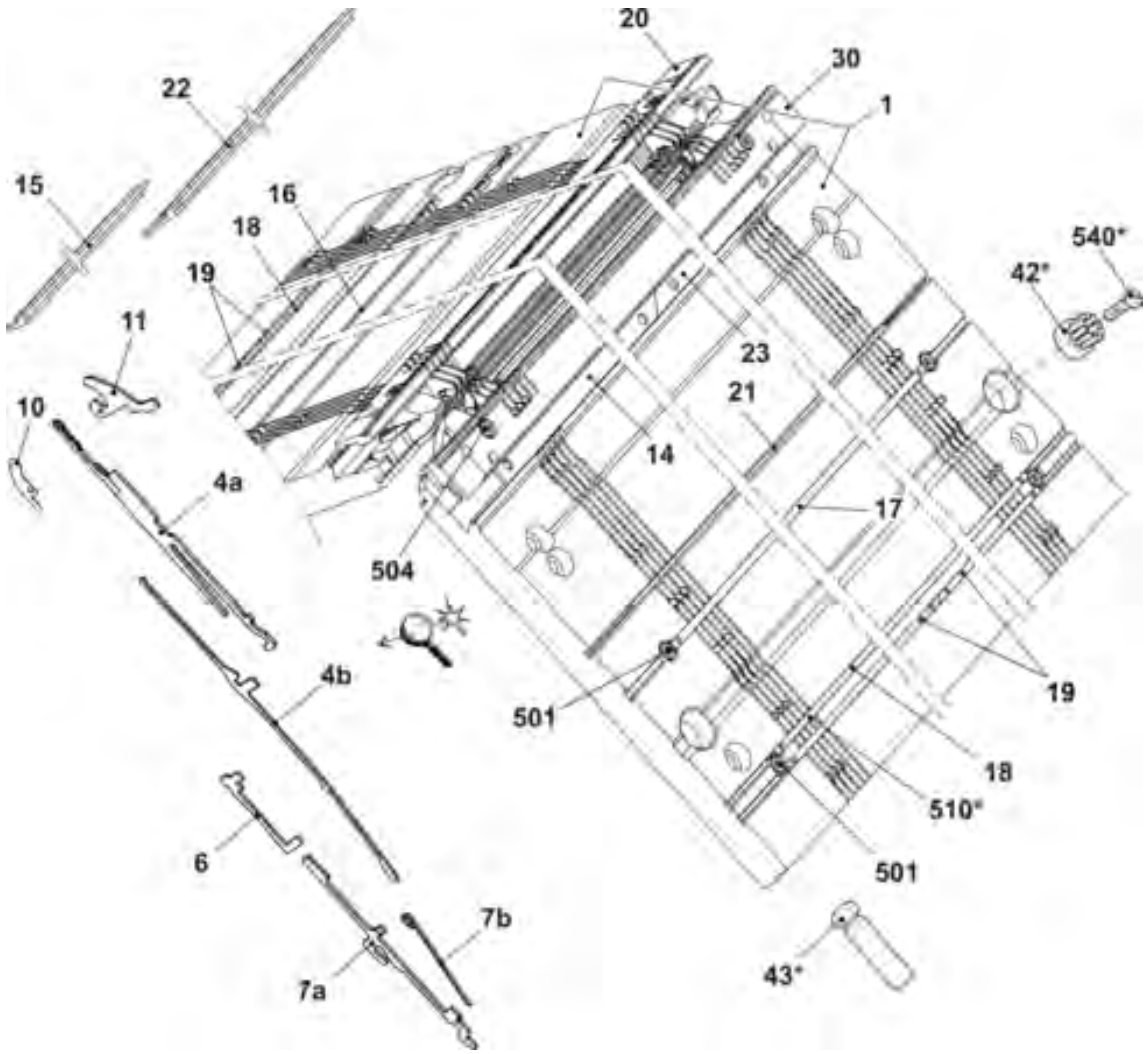
Pos	Designation	Id		Pos	Designation	Id
2	Spring steel wire $\varnothing$ 0,8	207 483		504	Cap screw M5x22	023 193
3	Spring steel wire $\varnothing$ 2,0	207 269		507	Springy thrust piece	023 177
12	Limiter on the left E4-8	205 343		511	Shim0,05x18,5x34	023 196
13	Limiter on the right E4-8	205 344		512	Shim0,1x18,5x34	023 197
21	Locating wire $\varnothing$ 2,8	207 270		513	Shim0,2x18,5x34	023 253



4.3 Needle bed E7m.5

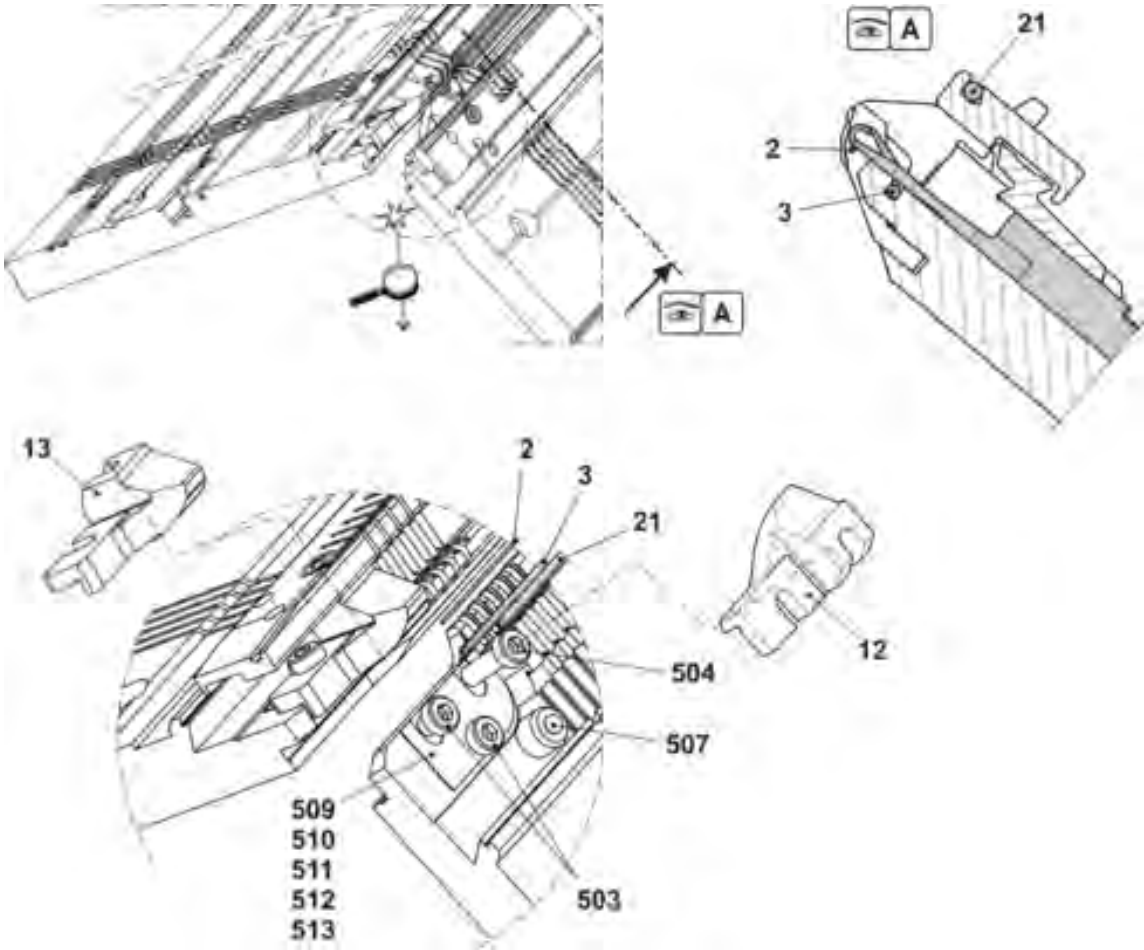
4.3 Needle bed E7m.5

Pos	Designation	Id	Pos	Designation	Id
Σ	Needle bed complete at the front and rearE7m.5	253 949			
1	Needle bed at the front + rearE7	251 620	18	Cover rail	250 575
4a	Needle E5 – E6with round hook	205 396	19	Cover rail	250 576
4b	Coupling part E5 - E8	253 381	20	Holding-down jack bed at the rear E7	250 539
6	Intermediate slider E5 - E8	237 323	21	Locating wire D=2,8	207 270
7a	Selection jack E4 - E8	200 687	22	Needle bar on the left at the rear	253 908
7b	Selector spring E4 - E8	200 690	23	Needle bar on the right at the rear	253 910
10	Knock-over bit E7	207 055	30	Holding-down jack bed at the front E7	250 538
11	Holding-down jack E7	205 032	501	Cap screw M5x10	022 918
14	Needle bar on the left at the front	237 835	504	Cap screw M5x22	023 193
15	Needle bar rear on the right	237 836	42*	Disk brush	202 600
16	Cover rail at the rear	250 572	43*	Adjusting bolt	251 772
17	Cover rail at the front E7	255 539	540*	Cap screw M5x12	020 032



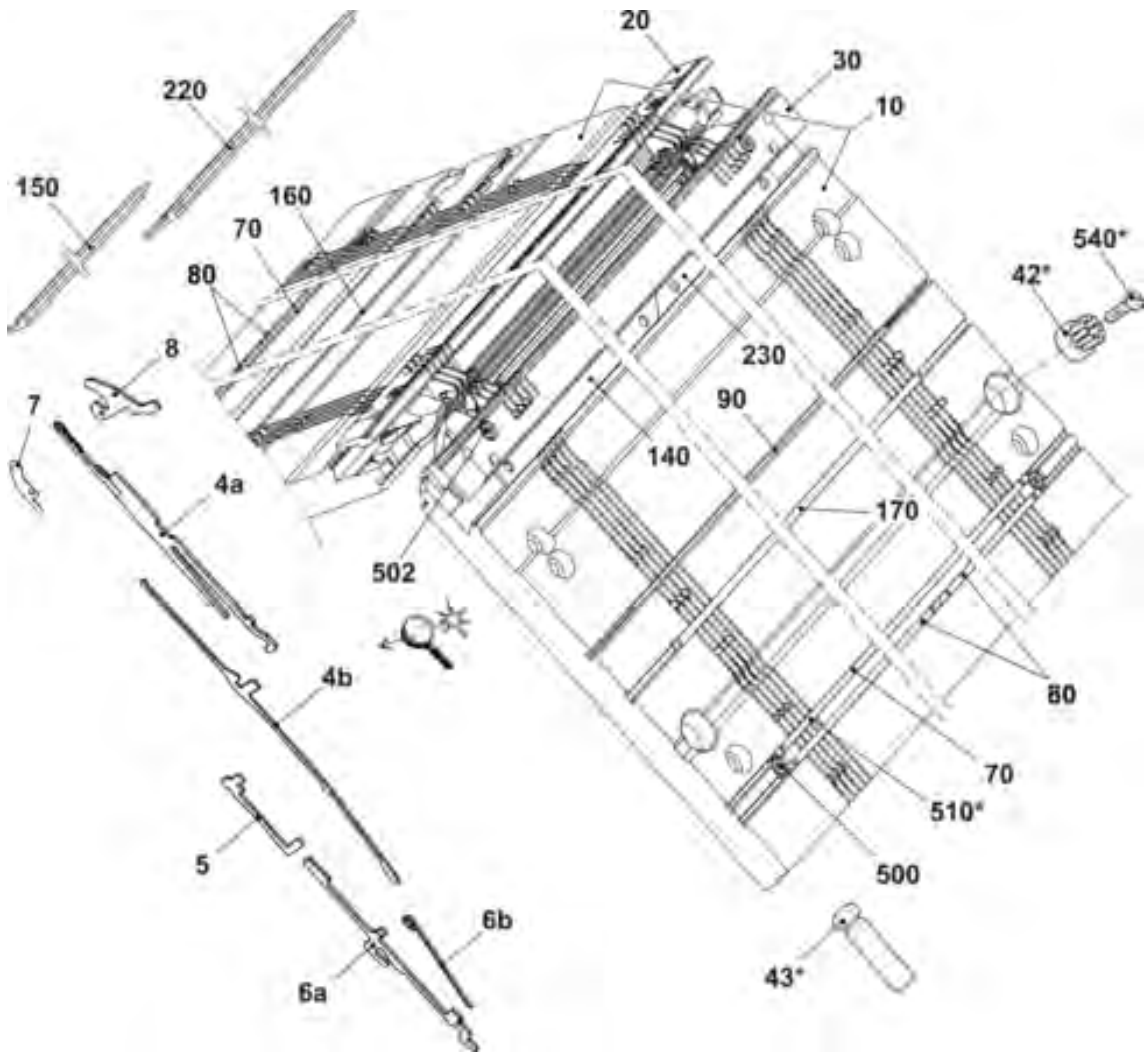
4.3.1 Continuation needle bed E7m.5

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rearE7m.5	253 949		503	Cap screw M5x8	023 154
2	Spring steel wire ø 0,8	207 483		504	Cap screw M5x22	023 193
3	Spring steel wire ø 2,0	207 269		507	Springy thrust piece	023 177
12	Limiter on the left E4-8	205 343		511	Shim0,05x18,5x34	023 196
13	Limiter on the right E4-8	205 344		512	Shim0,1x18,5x34	023 197
21	Locating wire ø2,8	207 270		513	Shim0,2x18,5x34	023 253



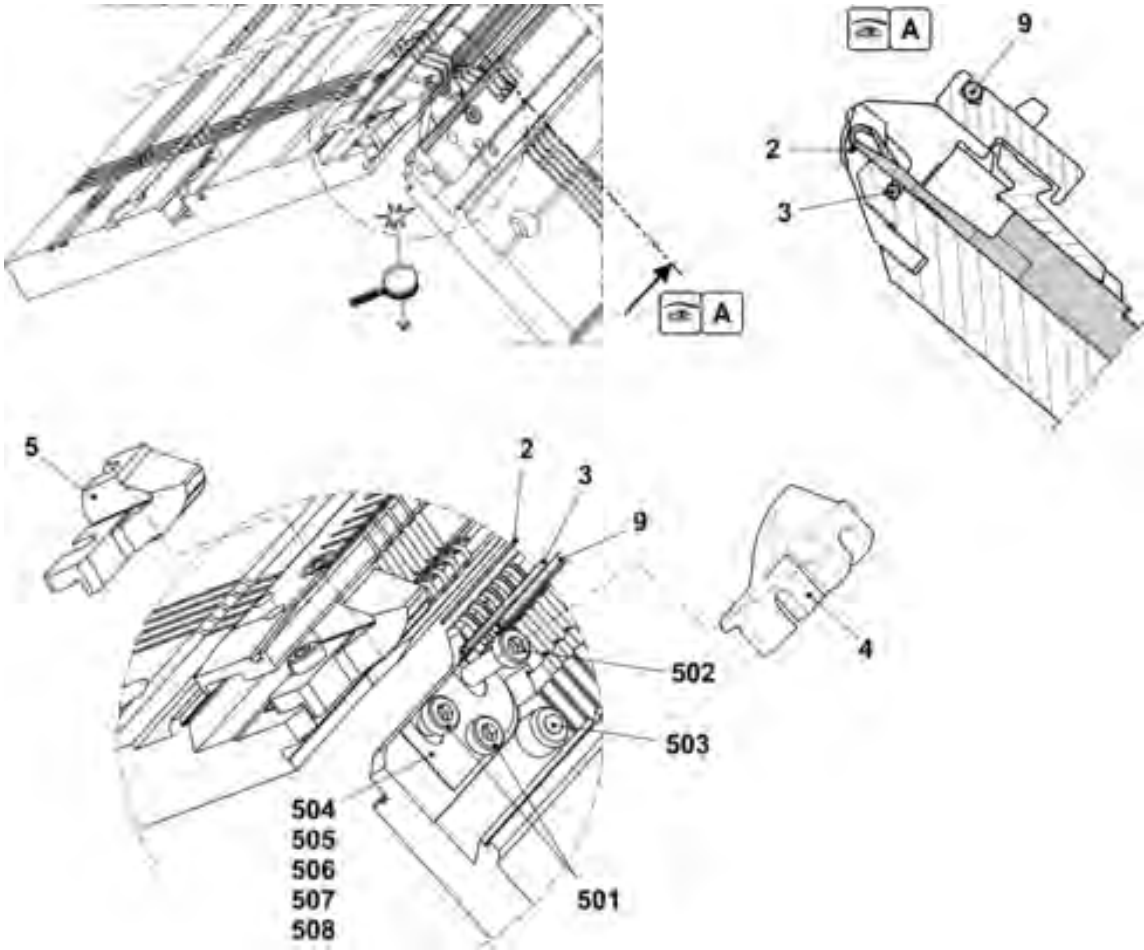
4.4 Needle bed E2,5.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rearE5	260 668				
4a	Needle E2,5.2-3,5.2	232 581		90	Locating wire D=2,8	207 270
4b	Coupling part E5 - E8	253 381		140	Needle bar on the left at the front	237 835
5	Intermediate slider with brake E5 - E8	237 323		150	Needle bar rear on the right	237 836
6a	Selection jack E4 - E8	200 687		160	Cover rail at the rear	250 572
6b	Selector spring E4 - E8	200 690		170	Cover rail at the front E5	255 538
7	Knock-over bit E5	204 996		220	Needle bar on the left at the rear	253 908
8	Holding-down jack E5	205 031		230	Needle bar on the right at the rear	253 910
10	Needle bed at the front + rearE5	251 619		500	Cap screw M5x10	022 918
20	Holding-down jack bed at the rear E2,5.2	260 672		502	Cap screw M5x22	023 193
30	Holding-down jack bed at the front E2,5.2	260 671		42*	Disk brush	202 600
70	Cover rail	250 575		43*	Adjusting bolt	251 772
80	Cover rail	250 576		540*	Cap screw M5x12	020 032



4.4.1 Continuation needle bed E2,5.2

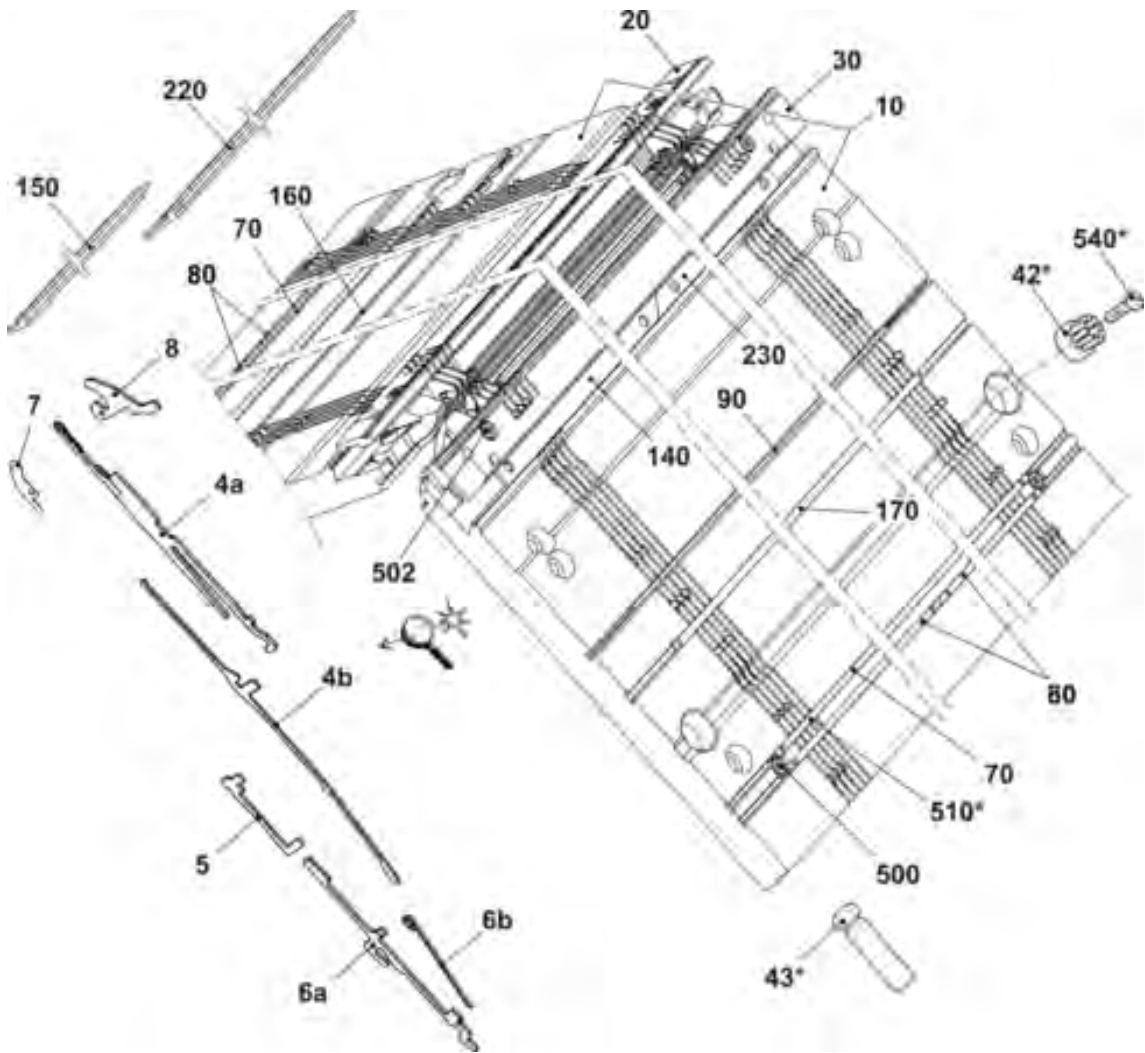
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rearE2,5.2	260 668		501	Cap screw M5x8	023 154
2	Spring steel wire ø 1,0	207 482		502	Cap screw M5x22	023 193
3	Spring steel wire ø 2,0	207 269		503	Springy thrust piece	023 177
4	Limiter on the left E4-8	205 343		506	Shim0,05x18,5x34	023 196
5	Limiter on the right E4-8	205 344		507	Shim0,1x18,5x34	023 197
9	Locating wire ø2,8	207 270		508	Shim0,2x18,5x34	023 253



4.5 Needle bed E2,5.2m.4L

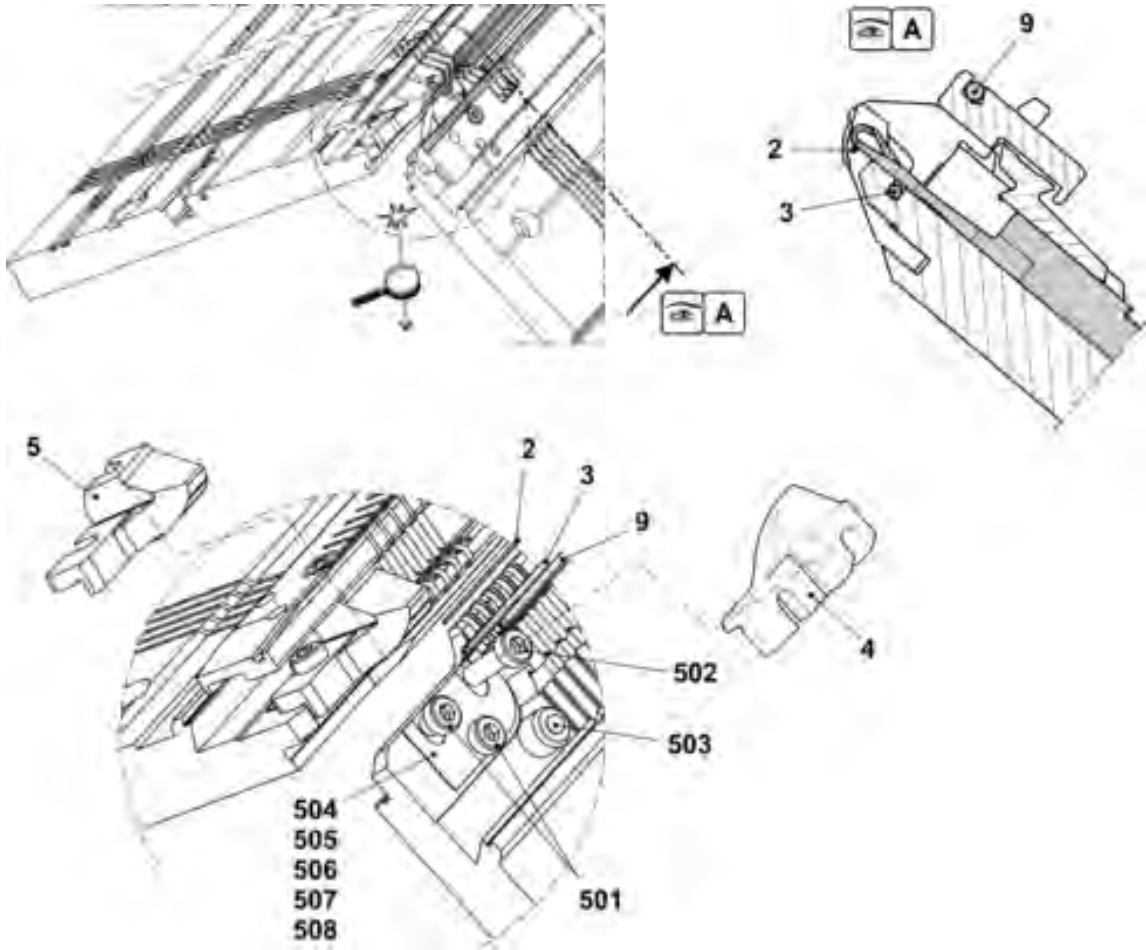
4.5 Needle bed E2,5.2m.4L

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rearE2,5.2m.4L	260 674				
4a	Needle E2,5.2-3,5.2m.4L	258 694		90	Locating wire D=2,8	207 270
4b	Coupling part E5 - E8	253 381		140	Needle bar on the left at the front	237 835
5	Intermediate slider with brake E5 - E8	237 323		150	Needle bar rear on the right	237 836
6a	Selection jack E4 - E8	200 687		160	Cover rail at the rear	250 572
6b	Selector spring E4 - E8	200 690		170	Cover rail at the front E5	255 538
7	Knock-over bit E5	204 996		220	Needle bar on the left at the rear	253 908
8	Holding-down jack E5	205 031		230	Needle bar on the right at the rear	253 910
10	Needle bed at the front + rearE2,5.2	251 619		500	Cap screw M5x10	022 918
20	Holding-down jack bed at the rear E2,5.2	260 672		502	Cap screw M5x22	023 193
30	Holding-down jack bed at the front E2,5.2	260 671		42*	Disk brush	202 600
70	Cover rail	250 575		43*	Adjusting bolt	251 772
80	Cover rail	250 576		540*	Cap screw M5x12	020 032



4.5.1 Continuation needle bed E2,5.2m.4L

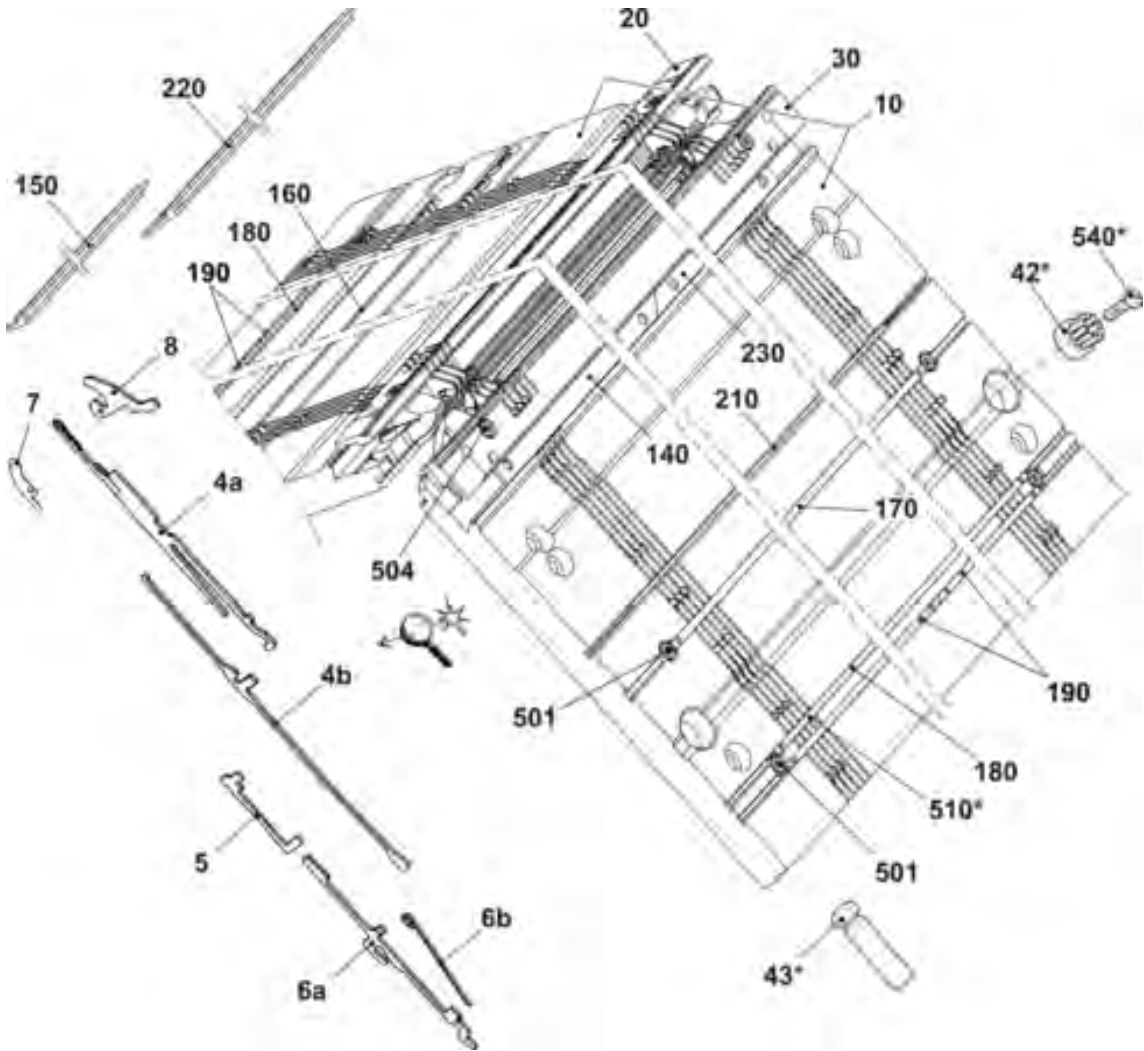
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rearE2,5.2m.4L	260 674		501	Cap screw M5x8	023 154
2	Spring steel wire ø 1,0	207 482		502	Cap screw M5x22	023 193
3	Spring steel wire ø 2,0	207 269		503	Springy thrust piece	023 177
4	Limiter on the left E4-8	205 343		506	Shim0,05x18,5x34	023 196
5	Limiter on the right E4-8	205 344		507	Shim0,1x18,5x34	023 197
9	Locating wire ø2,8	207 270		508	Shim0,2x18,5x34	023 253



4.6 Needle bed E3,5.2

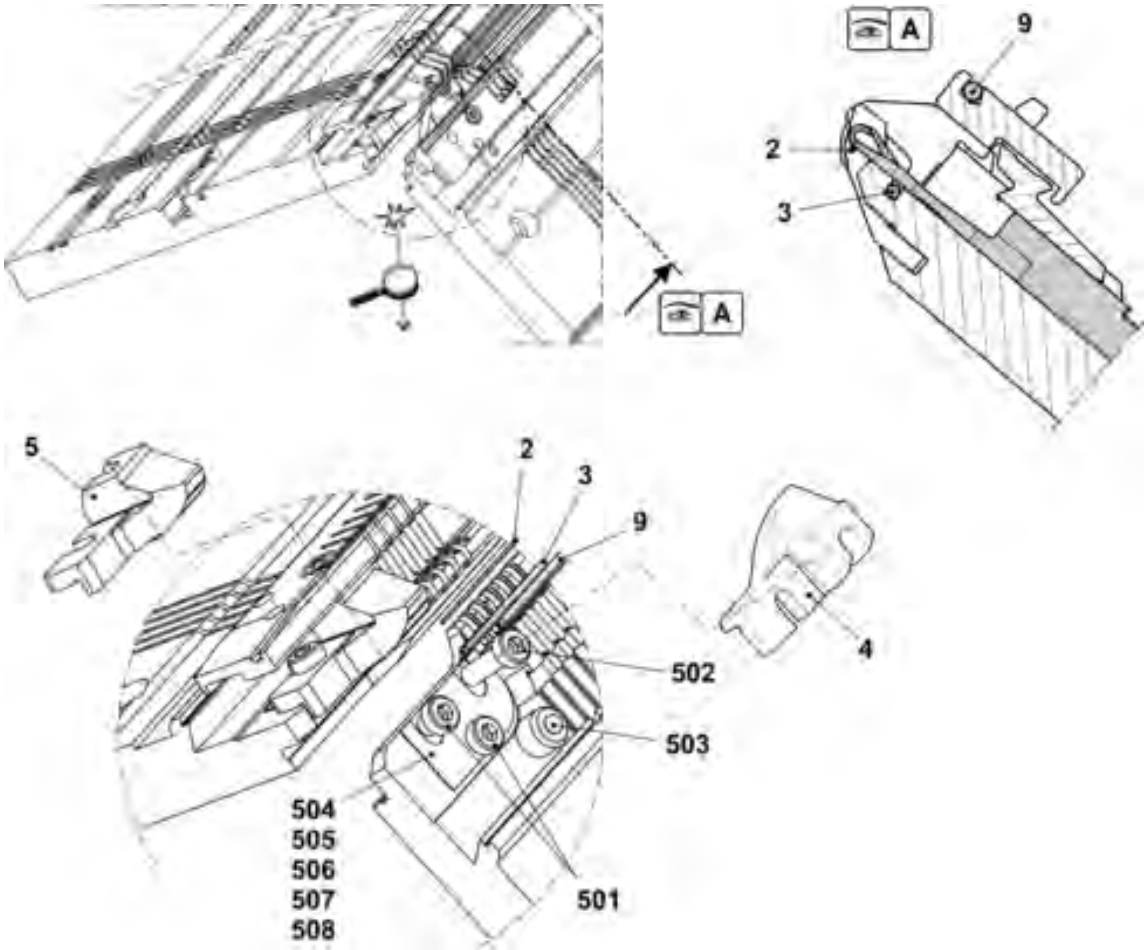
4.6 Needle bed E3,5.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rearE3,5.2	252 671				
4a	Needle E2,5.2-3,5.2	232 581		160	Cover rail at the rear	250 572
4b	Coupling part E5-E8	253 381		170	Cover rail at the front E7	255 539
5	Intermediate slider with brake E5 – E8	237 323		180	Cover rail	250 575
6a	Selection jack E4 – E8	200 687		190	Cover rail	250 576
6b	Selector spring E4 – E8	200 690		210	Locating wire ø2,8	207 270
7	Knock-over bit E7	207 055		220	Needle bar on the left at the rear	253 908
8	Holding-down jack E7	205 032		230	Needle bar on the right at the rear	253 910
10	Needle bed at the front + rearE7	251 620		501	Cap screw M5x10	022 918
20	Holding-down jack bed at the rear E3,5.2	250 916		504	Cap screw M5x22	023 193
30	Holding-down jack bed at the front E3,5.2	250 915		42*	Disk brush	202 600
140	Needle bar on the left at the front	237 835		43*	Adjusting bolt	251 772
150	Needle bar rear on the right	237 836		540*	Cap screw M5x12	020 032



4.6.1 Continuation needle bed E3,5.2

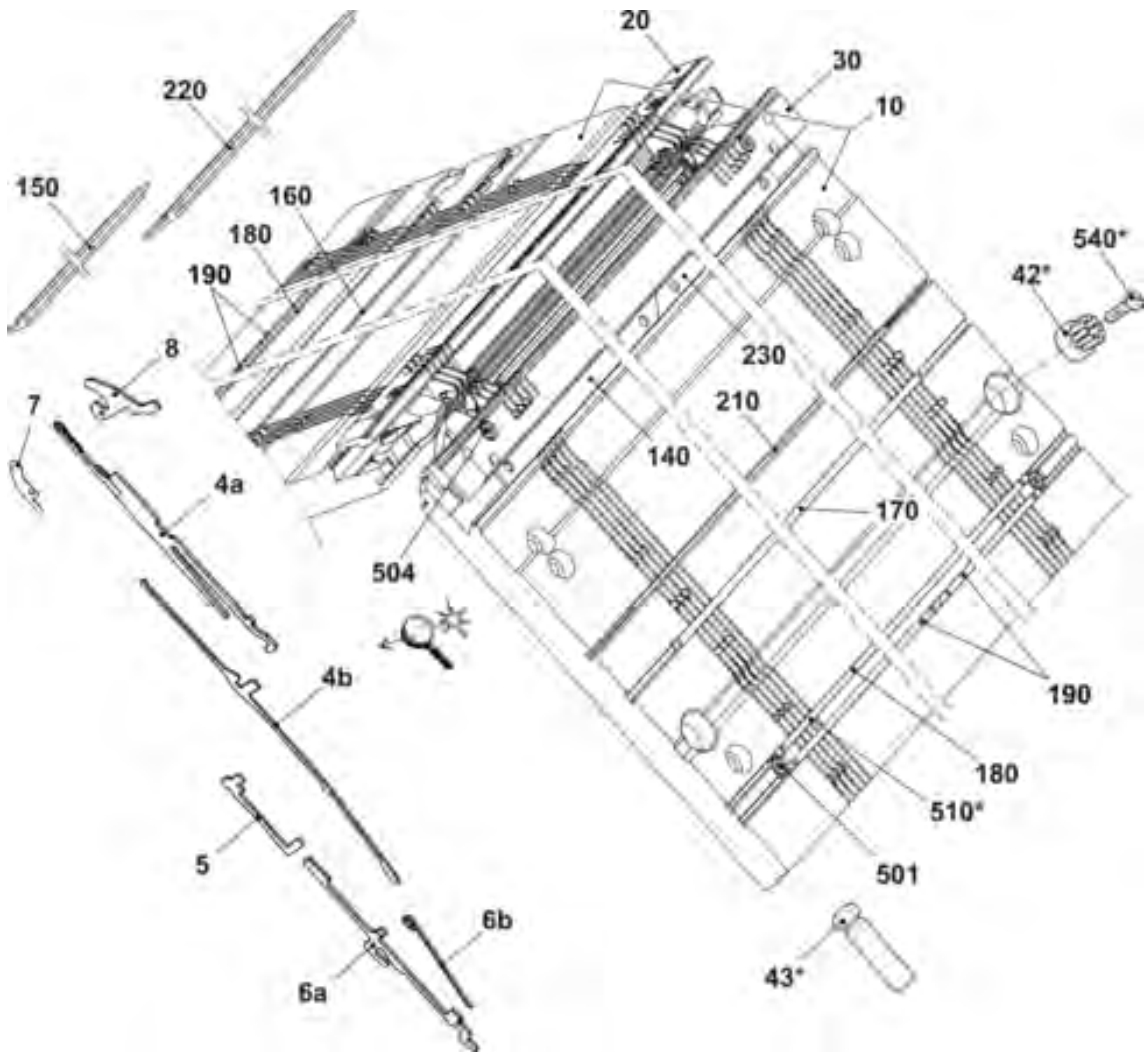
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rearE3,5.2	252 671		501	Cap screw M5x8	023 154
2	Spring steel wire ø 0,8	207 483		502	Cap screw M5x22	023 193
3	Spring steel wire ø 2,0	207 269		503	Springy thrust piece	023 177
4	Limiter on the left E4-8	205 343		506	Shim0,05x18,5x34	023 196
5	Limiter on the right E4-8	205 344		507	Shim0,1x18,5x34	023 197
9	Locating wire ø2,8	207 270		508	Shim0,2x18,5x34	023 253



4.7 Needle bed E3,5.2m.4L

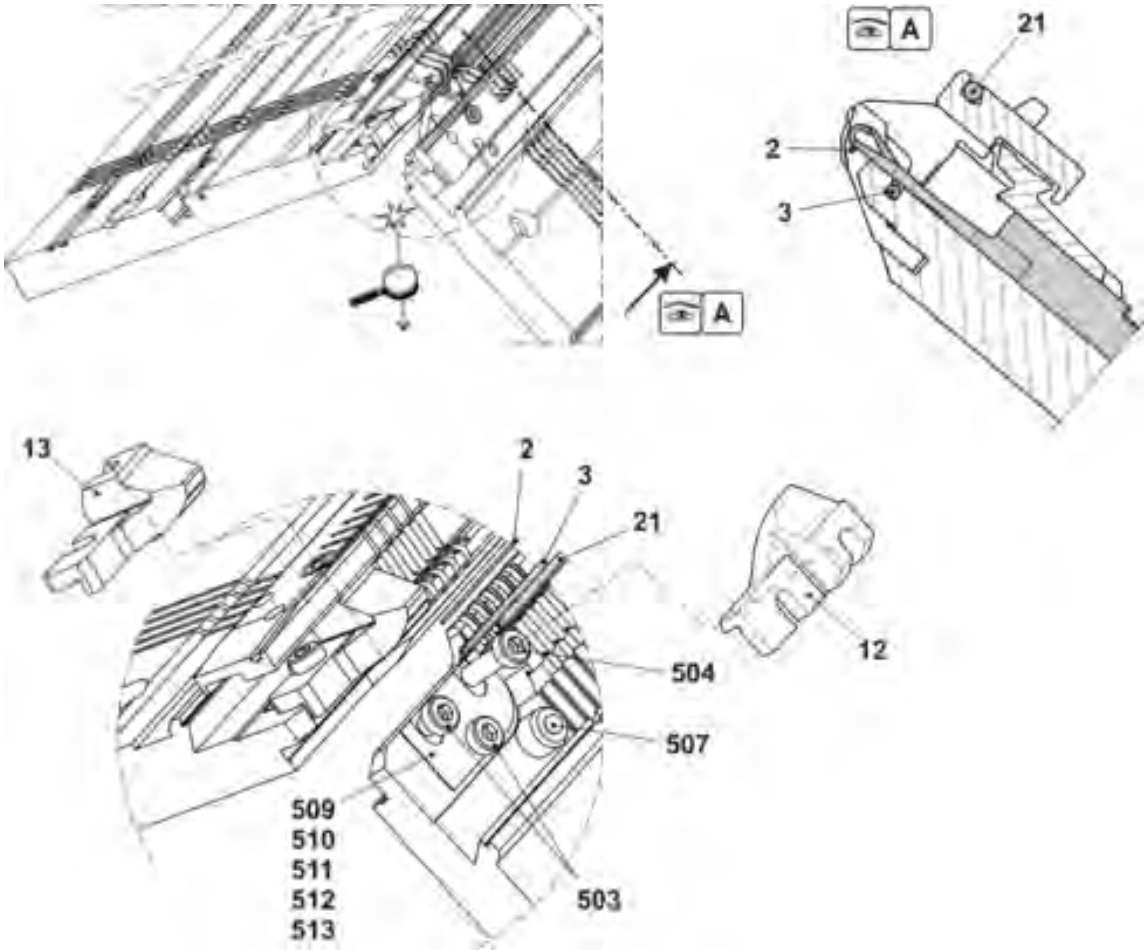
4.7 Needle bed E3,5.2m.4L

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rearE3,5.2m.4L	252 671				
4a	Needle E2,5.2+3,5.2m.4L	258 694		160	Cover rail at the rear	250 572
4b	Coupling part E5-8	253 381		170	Cover rail at the front E7	255 539
5	Intermediate slider with brake E5 – E8	237 323		180	Cover rail	250 575
6a	Selection jack E4 – E8	200 687		190	Cover rail	250 576
6b	Selector spring E4 – E8	200 690		210	Locating wire ø2,8	207 270
7	Knock-over bit E7	207 055		220	Needle bar on the left at the rear	253 908
8	Holding-down jack E7	205 032		230	Needle bar on the right at the rear	253 910
10	Needle bed at the front + rearE7	251 620		501	Cap screw M5x10	022 918
20	Holding-down jack bed at the rear E3,5.2	250 916		504	Cap screw M5x22	023 193
30	Holding-down jack bed at the front E3,5.2	250 915		42*	Disk brush	202 600
140	Needle bar on the left at the front	237 835		43*	Adjusting bolt	251 772
150	Needle bar rear on the right	237 836		540*	Cap screw M5x12	020 032



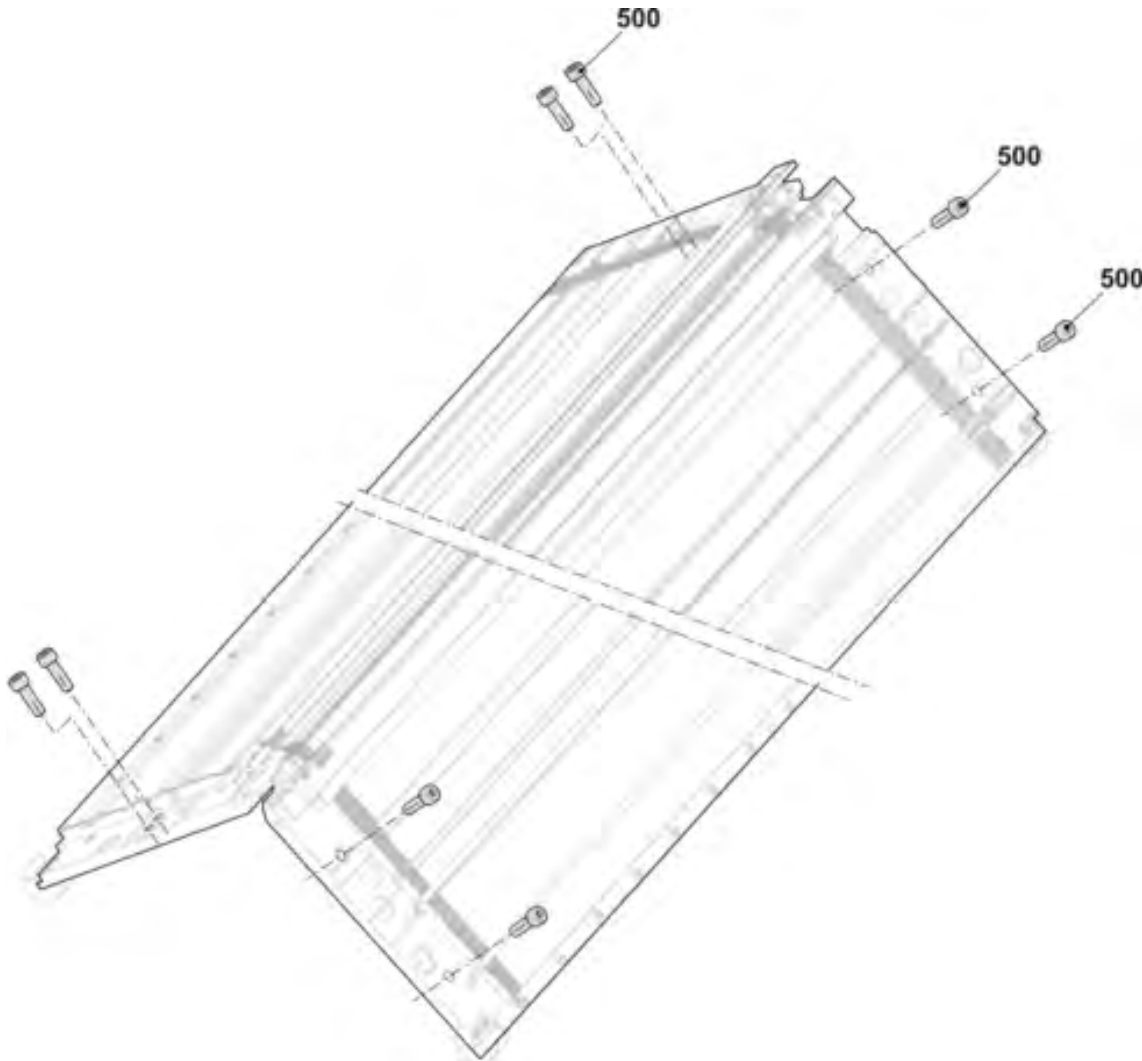
4.7.1 Continuation needle bed E3,5.2m.4L

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rearE3,5.2m.4L	260 115		503	Cap screw M5x8	023 154
2	Spring steel wire ø 0,8	207 483		504	Cap screw M5x22	023 193
3	Spring steel wire ø 2,0	207 269		507	Springy thrust piece	023 177
12	Limiter on the left E4-8	205 343		511	Shim0,05x18,5x34	023 196
13	Limiter on the right E4-8	205 344		512	Shim0,1x18,5x34	023 197
21	Locating wire ø2,8	207 270		513	Shim0,2x18,5x34	023 253



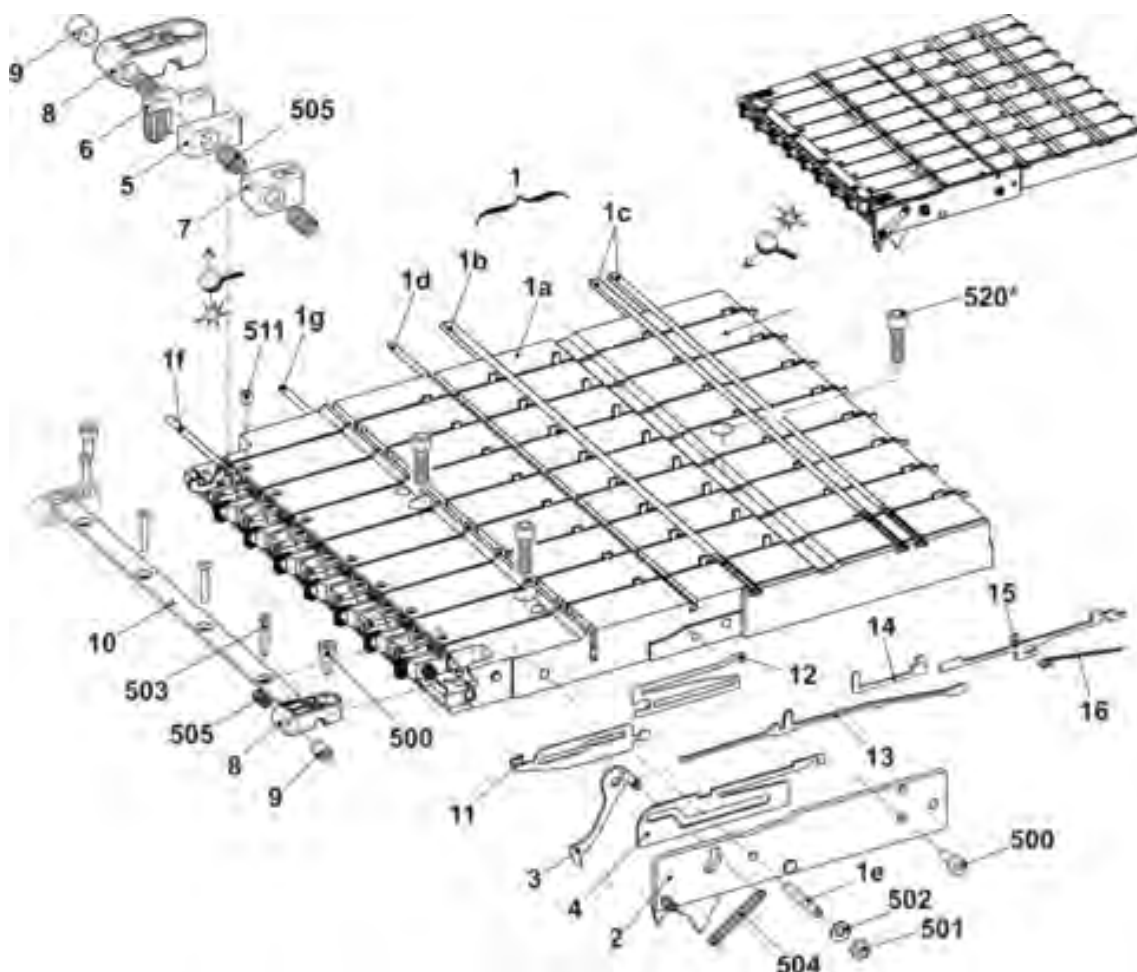
4.8 Needle beds, connection screws

Pos	Designation	ID	Pos	Designation	ID
Σ	Connection screws		500	Cap screwM8x25	020 142



4.9 Clamping/cutting bed on the right

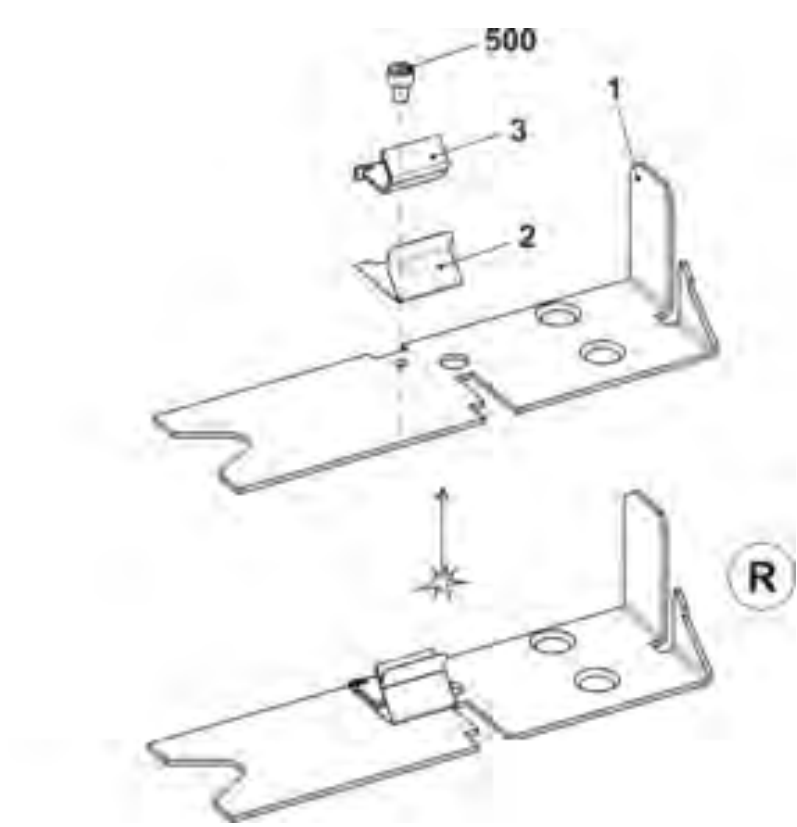
Pos	Designation	ID	Pos	Designation	ID
Σ	Clamping and cutting bed on the right E2,5.2m.4L	260 088	8	Spring holder	255 724
1	Guide plate EPT on the right E5-14	257 193	9	Threaded bolt	255 723
1a	Guide plate on the right E5-14	257 189	10	Holding strip	253 176
1b	Cover rail	253 173	11	Catch needle on the right E2,5.2m.4L	260 512
1c	Cover rail	253 174	12	Intermediate cam E10-14	244 591
1d	Locating wire	253 172	13	Coupling part E5-8	253 381
1e	Guide pin	211 351	14	Intermediate slider with brake E5-8	237 323
1f	Locating wire	253 171	15	Selection jack E4-8	200 687
1g	Locating wire	215 927	16	Selector spring E4-8	200 690
511	Setscrew M5x5	236 061	500	Cap screw M4x10	023 136
2	Cover on the right complete E10-14	251 119	501	Hexagon nut M4	023 046
3	Catch hook on the right E10-14	251 378	502	Washer4	020 870
4	Slider E5-14	253 084	503	Pan-head screw M3x18	242 728
5	Blade	260 509	504	Tension spring 5x0,5x17,4	023 377
6	Clamp on the right complete	260 514	505	Compression spring 07x4,3x12,1	023 521
7	Intermediate piece	255 719	520*	Cap screw M6x20	244 824



4.10 Yarn brake at clamping and cutting bed

4.10 Yarn brake at clamping and cutting bed

Pos	Designation	Id		Pos	Designation	Id
Σ R	Yarn brake on the right	256 715				
3	Cover on the right	256 714		2	Test clamping plate	256 713
1	Leaf spring	256 712		500	Cap screwM4x6	023 067



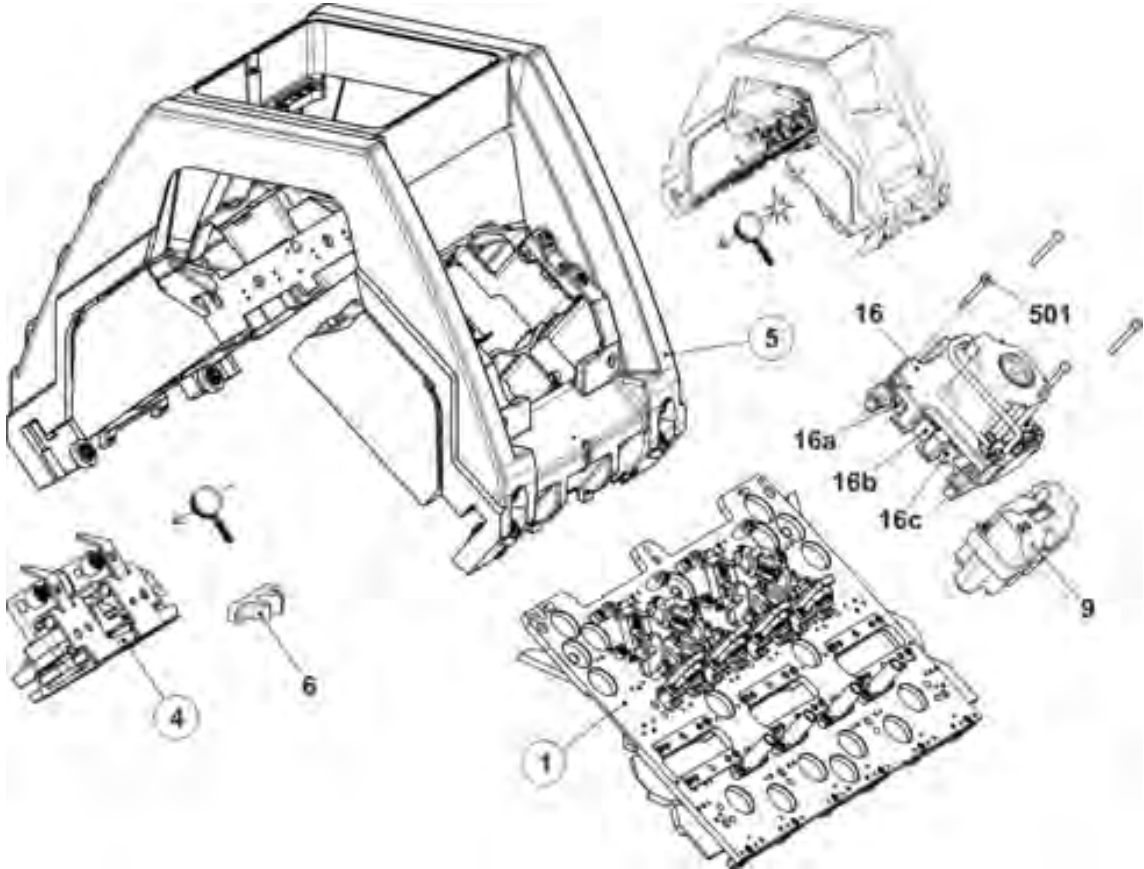
5 Carriage



5.1 Overview of carriage

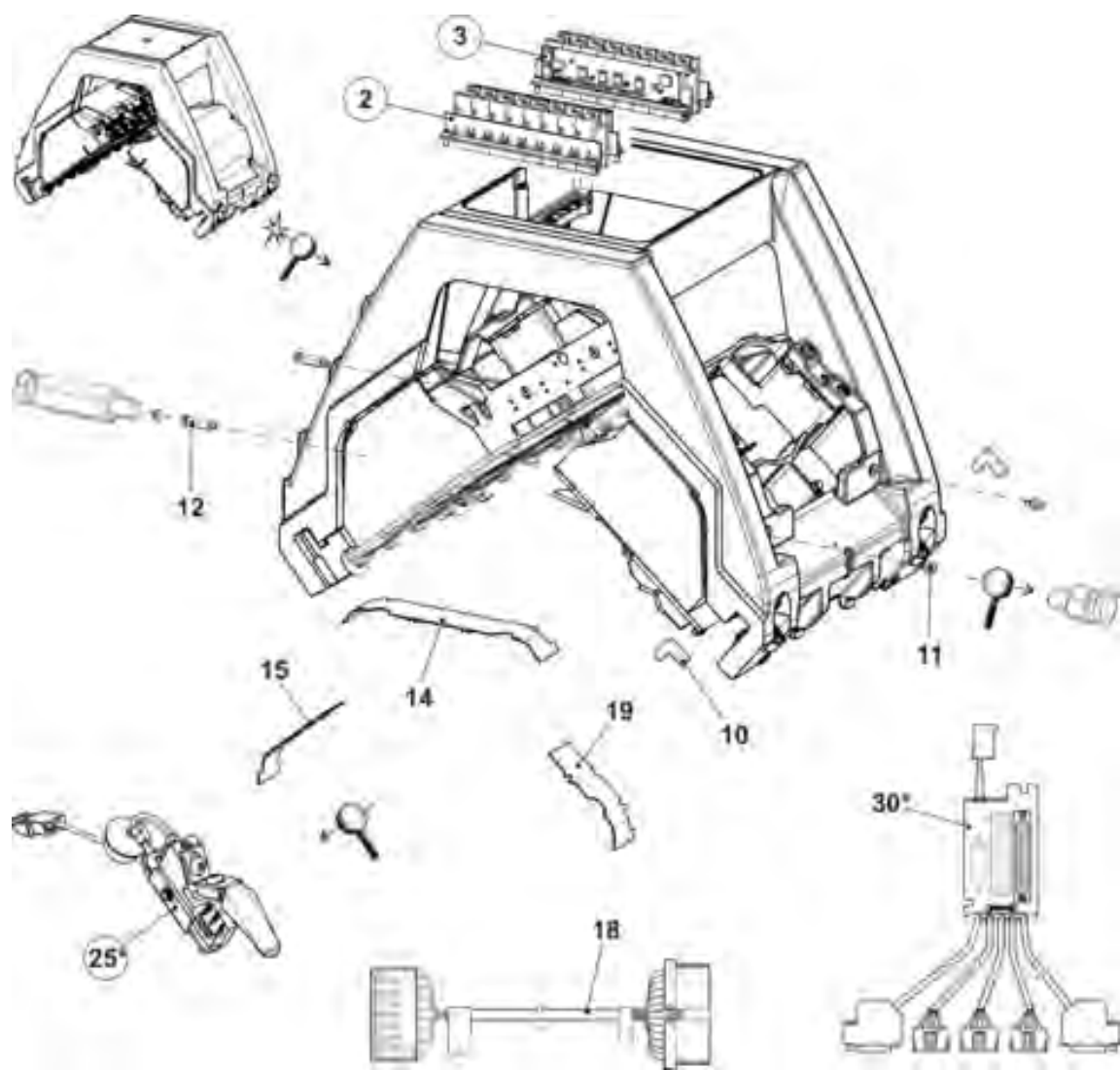
5.1 Overview of carriage

Pos	Designation	Id	Pos	Designation	Id
Σ	Carriage complete		1	Cam box complete	
	E5 E7m.5 E2,5.2 E3,5.2	256 079		E5 E7m.5 E2,5.2 E3,5.2	250 983
	E7	256 080		E7	250 673
	E3,5.2m.4L E2,5.2m-4L	260 116		E3,5.2m.4L E2,5.2m-4L	260 117
4	Holding-down jack control	213 266	16a	Gear rack at the top complete	209 781
5	Carriage assembly 2 cam boxes complete 502	256 497	16b	Gear rack in the middle complete	209 782
6	Plunger	210 559	16c	Gear rack at the bottom complete	209 783
9	Selection system completeE2-8	216 218	501	Cap screw M4x30	023 290
16	Motor unit complete	253 531			



5.2 Overview of carriage, continuation

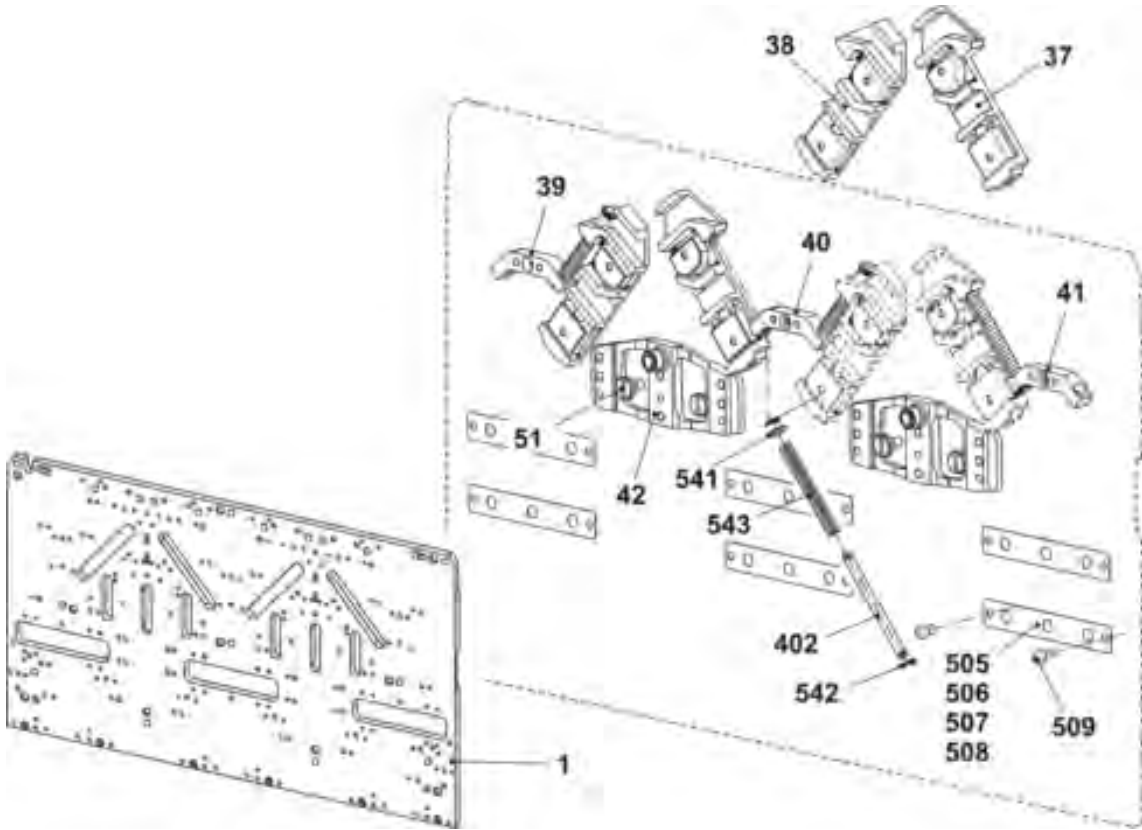
Pos	Designation	Id		Pos	Designation	Id
Σ	Carriage complete			12	Bolts	212 204
2	FF driving outside complete	241 080		14	Cover plate at the top	250 594
3	FF driving in the middle complete	241 081		15	Cover plate at the bottom	250 595
8	Cable connection YC output stage OKC	240 651		19	Cover plate at the bottom	251 127
10	Wiper felt	241 411		25*	Needle detector	221 238
11	Bolts	212 392		30*	Distributor at the back and the front420 ECO2	252 009



5.3 Cam box E5 | E3,5.2 | E7m.

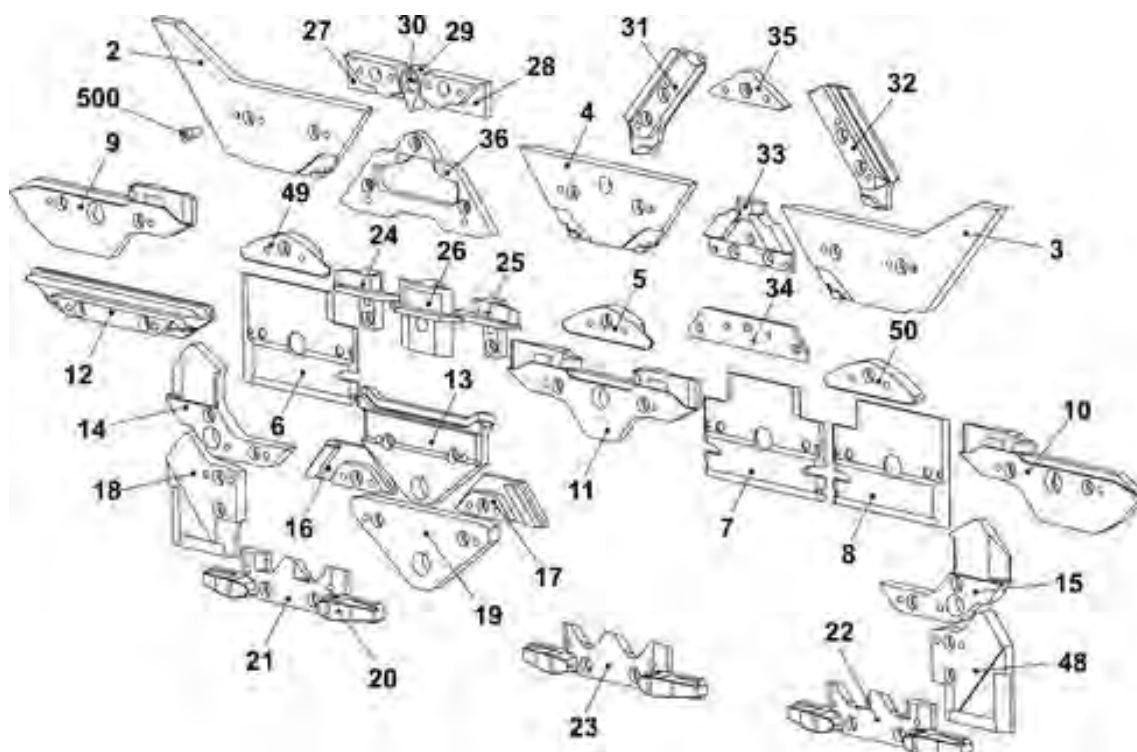
5.3 Cam box E5 | E3,5.2 | E7m.

Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box completeE5	250 983	42	Switching piece	240 281
1	Cam plate	250 177	51	Shoulder screw	239 626
37	Loop sinking cam on the right completeE5-10	211 163	505	Shim0,03x12x75	022 828
38	Loop sinking cam on the left completeE5-10	211 164	506	Shim0,05x12x75	022 829
39	Rod guide element on the left	211 165	507	Shim0,1x12x75	022 830
40	Rod guide element in the middle	211 166	508	Shim0,2x12x75	022 831
41	Rod guide element on the right	211 168	509	Pan-head screw	023 142
402	Spring rod	209 791			
541	Disk4,3x7x0,5	022 153			
542	Circlip 3,2	021 019			
543	Spring	250 515			



5.3.1 Continuation cam box E5 | E3,5.2 | E7m.5

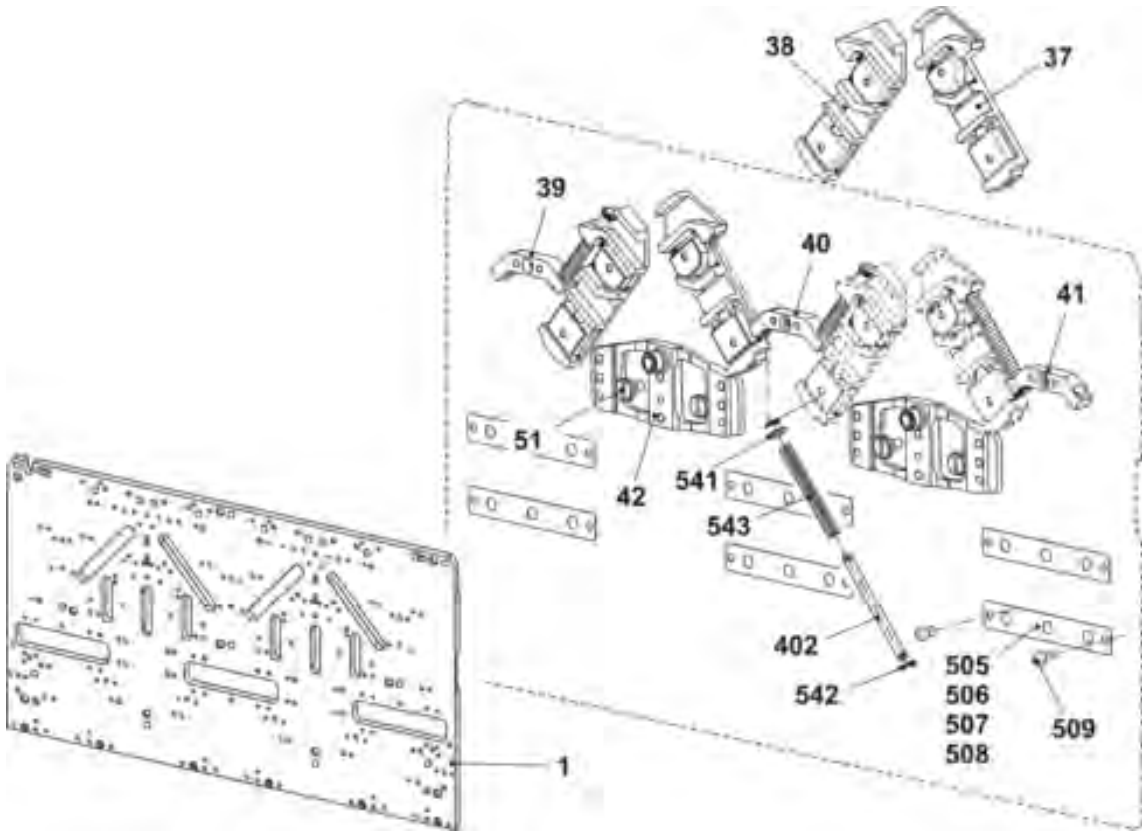
Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box complete E5	250 983			
2	Entry cam on the left	213 304	22	Selection cam on the right	212 947
3	Entry cam on the right	213 303	23	Selection cam	212 946
4	Entry cam at the top	210 285	24	Pressure part receiving on the left	239 848
5	Entry cam in the middle bottom E2,5.2 + E3,5.2	235 719	25	Pressure part receiving 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	Limiting cam on the left E5	210 289
8	Plate on the right	231 036	28	Limiting 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 limiting cam E5	214 051
14	Cam on the left E5-14	212 265	34	Raising cam plate E4-12	204 372
15	Cam at 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 at the right E5-14	212 275
19	Cam part	210 252	49	Entry cam at the bottom on the left E5-8	235 718
20	Offering cam	210 185	50	Entry cam at the bottom on the right E5-8	235 720
21	Selection cam on the left	212 944	500	Cap screw M4x8	020 091



5.4 Cam box E7

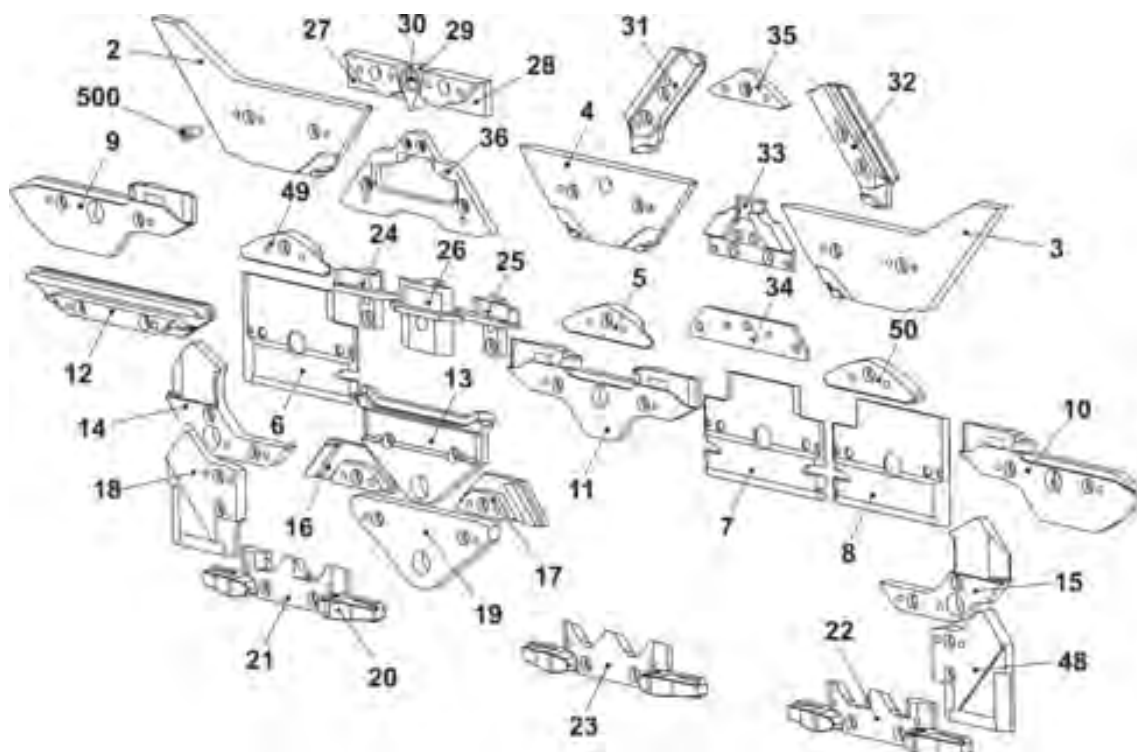
5.4 Cam box E7

Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box completeE7	250 673	42	Switching piece	240 281
1	Cam plate	250 177	51	Shoulder screw	239 626
37	Loop sinking cam on the right completeE5 – E10	211 163	505	Shim0,03x12x75	022 828
38	Loop sinking cam on the left completeE5 - E10	211 164	506	Shim0,05x12x75	022 829
39	Rod guide element on the left	211 165	507	Shim0,1x12x75	022 830
40	Rod guide element in the middle	211 166	508	Shim0,2x12x75	022 831
41	Rod guide element on the right	211 168	509	Pan-head screw M3x4	023 142
402	Spring rod	209 791			
541	Disk4,3x7x0,5	022 153			
542	Circlip 3,2	021 019			
543	Compression spring	250 515			



5.4.1 Continuation cam box E7

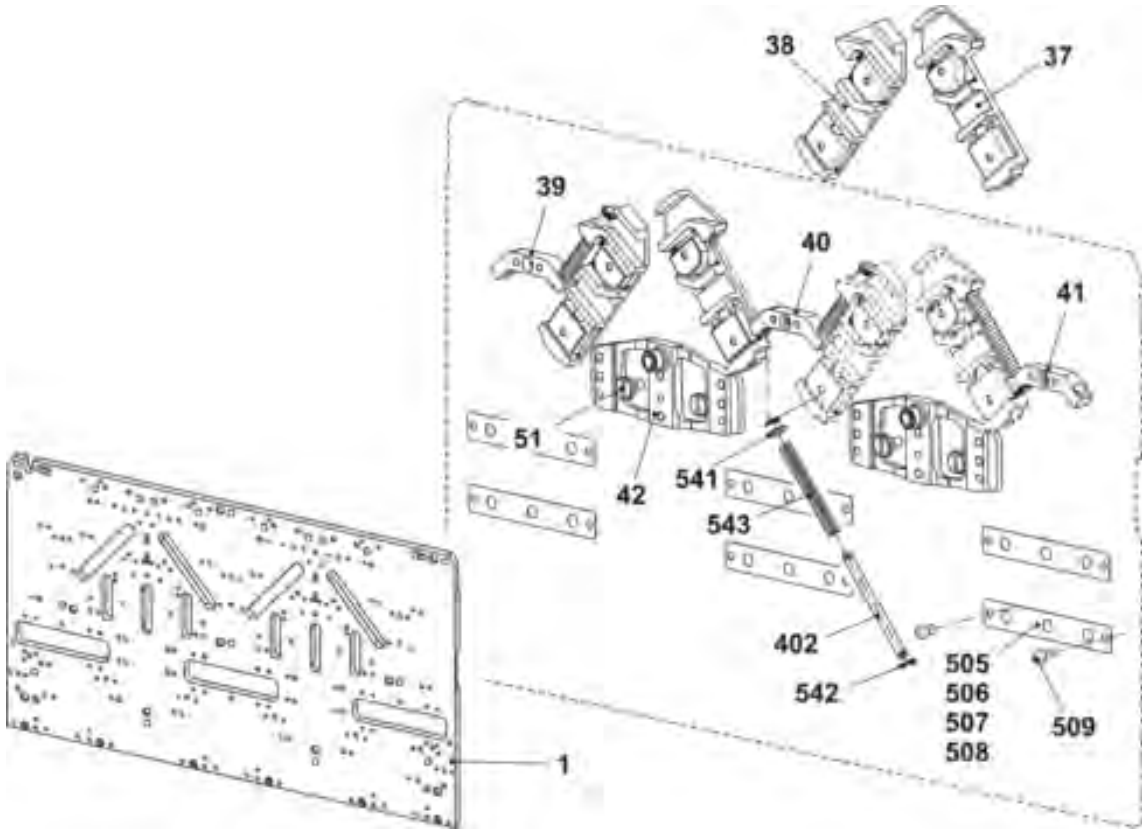
Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box complete E7	250 673			
2	Entry cam on the left	213 304	22	Selection cam on the right	212 947
3	Entry cam on the right	213 303	23	Selection cam	212 946
4	Entry cam at the top	210 285	24	Pressure part receiving on the left	239 848
5	Entry cam at the bottom E5-8	212 395	25	Pressure part receiving 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	Limiting cam on the left E7-8	210 291
8	Plate on the right	231 036	28	Limiting cam on the right E7-8	210 292
9	Cam on the left	231 039	29	Pointer E5-8	210 336
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 E7-8	210 324
12	Cam part	227 923	32	Stitch cam on the right E7-8	210 323
13	Cam part	210 254	33	Tuck limiting cam E7-8	255 056
14	Cam on the left E5-14	212 265	34	Raising cam plate E4-12	204 372
15	Cam at the right E5-14	212 266	35	Receiving cam E7-8	210 339
16	Cam on the left	236 192	36	Raising cam without split-stitchE7-8	255 055
17	Cam part at the right	236 193		Raising cam with split-stitchE7-8 (Accessory)	255 192
18	Cam on the left E5-14	212 274	48	Cam at the right E5-14	212 275
19	Cam part	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	Selection cam on the left	212 944	500	Cap screwM4x8	020 091



5.5 Cam box E2,5m.4L | E3,5.2m.4L

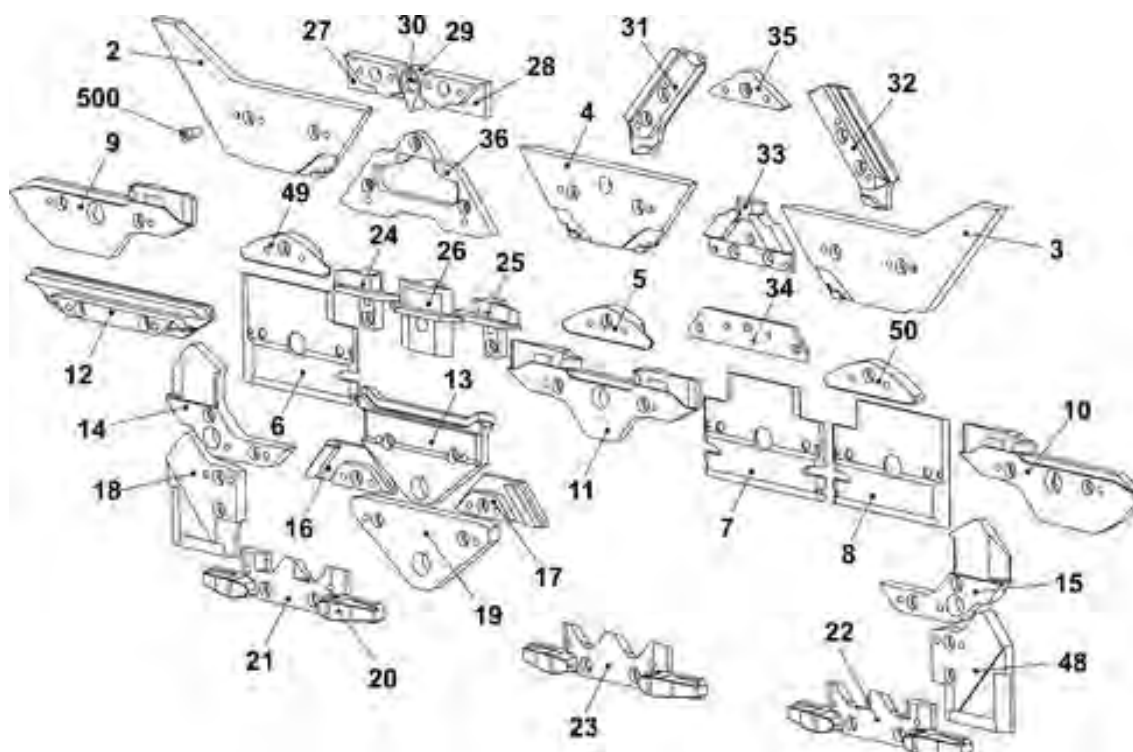
5.5 Cam box E2,5m.4L | E3,5.2m.4L

Pos	Designation		Id		Pos	Designation		Id
Σ	Cam box complete E3,5.2m.4L		260 117		42	Switching piece		240 281
1	Cam plate		250 177		51	Shoulder screw		239 626
37	Loop sinking cam on the right completeE5-10		211 163		505	Shim0,03x12x75		022 828
38	Loop sinking cam on the left completeE5-10		211 164		506	Shim0,05x12x75		022 829
39	Rod guide element on the left		211 165		507	Shim0,1x12x75		022 830
40	Rod guide element in the middle		211 166		508	Shim0,2x12x75		022 831
41	Rod guide element on the right		211 168		509	Pan-head screw		023 142
	402	Spring rod	209 791					
	541	Disk4,3x7x0,5	022 153					
	542	Circlip 3,2	021 019					
	543	Spring	250 515					



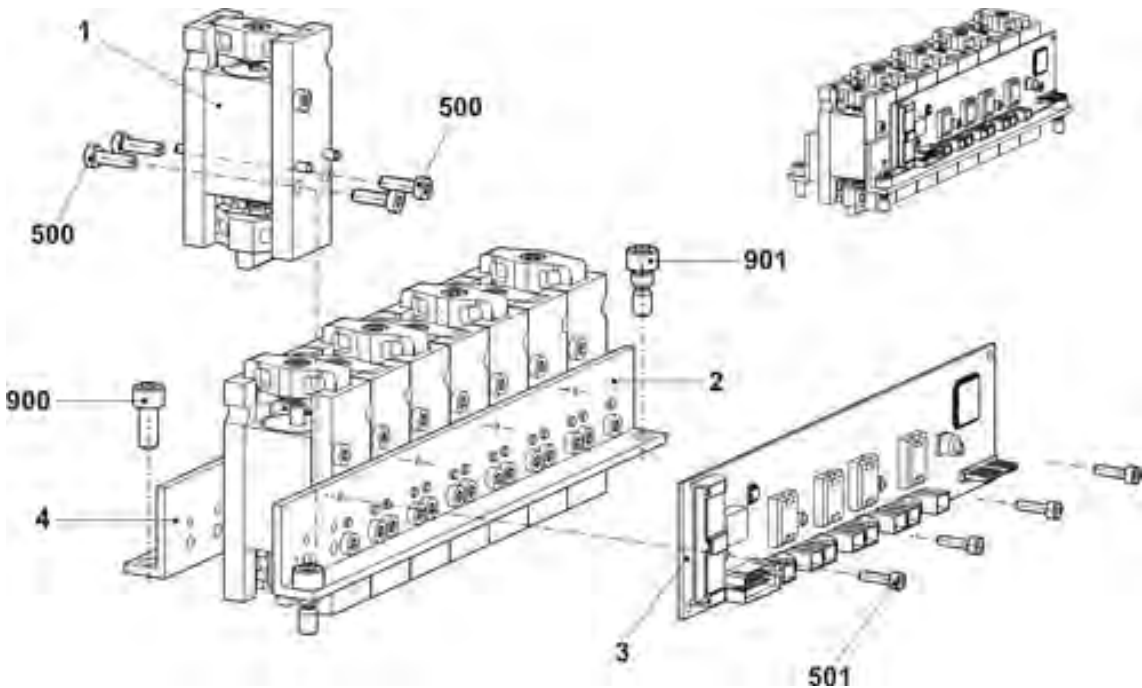
5.5.1 Continuation cam box E2,5m.4L | E3,5.2m.4L

Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box complete E3,5.2m.4L	260 117	21	Selection cam on the left	212 944
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 receiving on the left	239 848
5	Entry cam in the middle bottom E2,5.2 + E3,5.2	235 719	25	Pressure part receiving 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	Limiting cam on the left E2,5.2m.4L+3,5.2m.4L	259 006
8	Plate on the right	231 036	28	Limiting cam on the right E2,5.2m.4L+3,5.2m.4L	259 007
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 limiting cam E2,5.2m.4L+3,5.2m.4L	259 010
14	Cam on the left E5-14	212 265	34	Raising cam plate E4-12	204 372
15	Cam at the right E5-14	212 266	35	Receiving cam E2,5.2m.4L+3,5.2m.4L	259 008
16	Cam on the left	236 192	36	Raising cam without split-stitch E2,5.2m.4L+3,5.2m.4L	259 009
17	Cam part at the right	236 193	48	Cam at the right E5-14	212 275
18	Cam on the left E5-14	212 274	49	Entry cam at the bottom on the left E5-8	235 718
19	Cam part	210 252	50	Entry cam at the bottom on the right E5-8	235 720
20	Offering cam	210 185	500	Cap screw M4x8	020 091



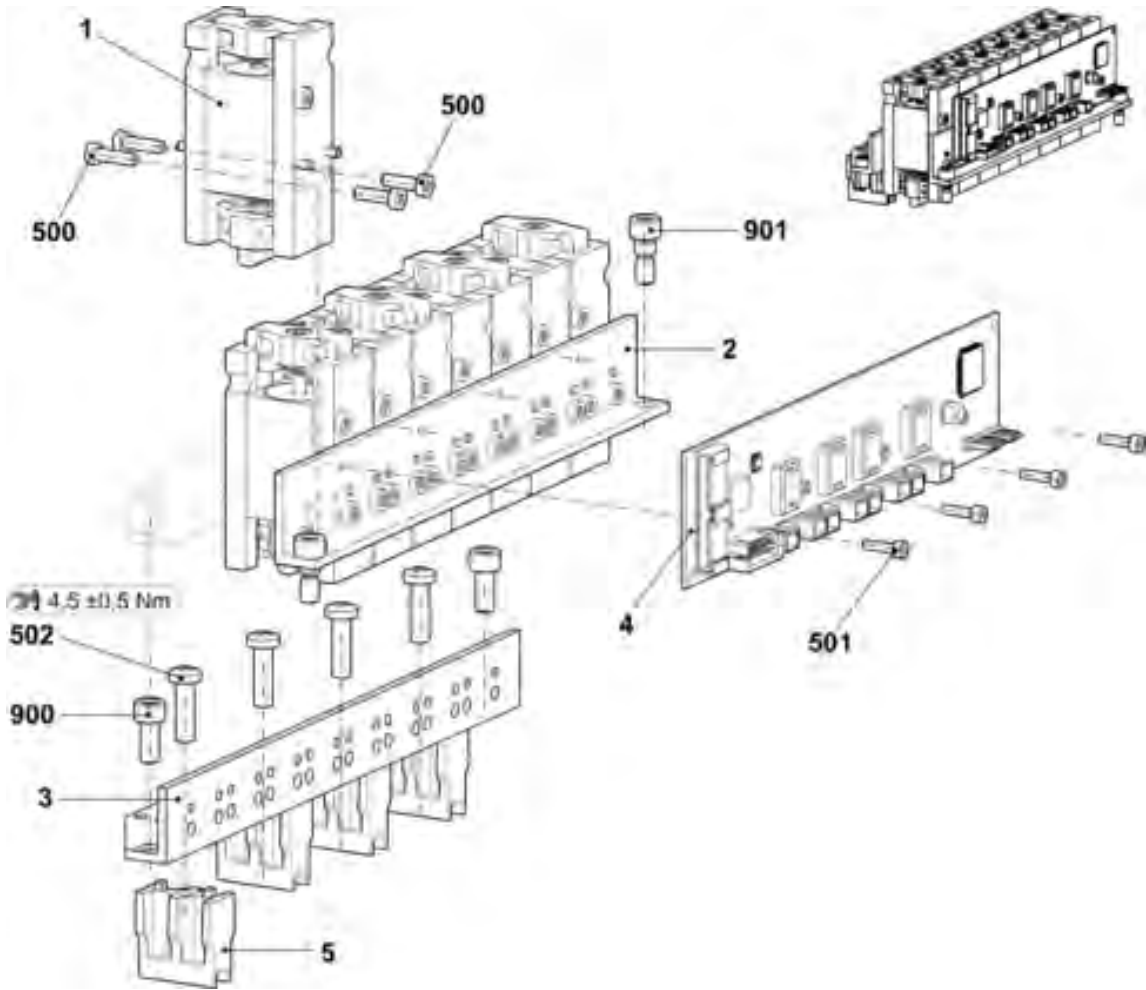
5.6 Yarn carrier driving without guide part

Pos	Designation	Id		Pos	Designation	Id
Σ	FF driving outside complete	241 080				
1	Yarn carrier plunger complete	242 214		500	Cap screwM4x14-I-Torx	242 279
2	Holding angle for jack	241 038		501	Cap screwM3x12-12.9	022 648
3	Card yarn carrier final stagesOKC	300 960		900	Cap screwM6x14	022 658
4	Holding angle for YC driving	242 903		901	Shoulder screw	231 899



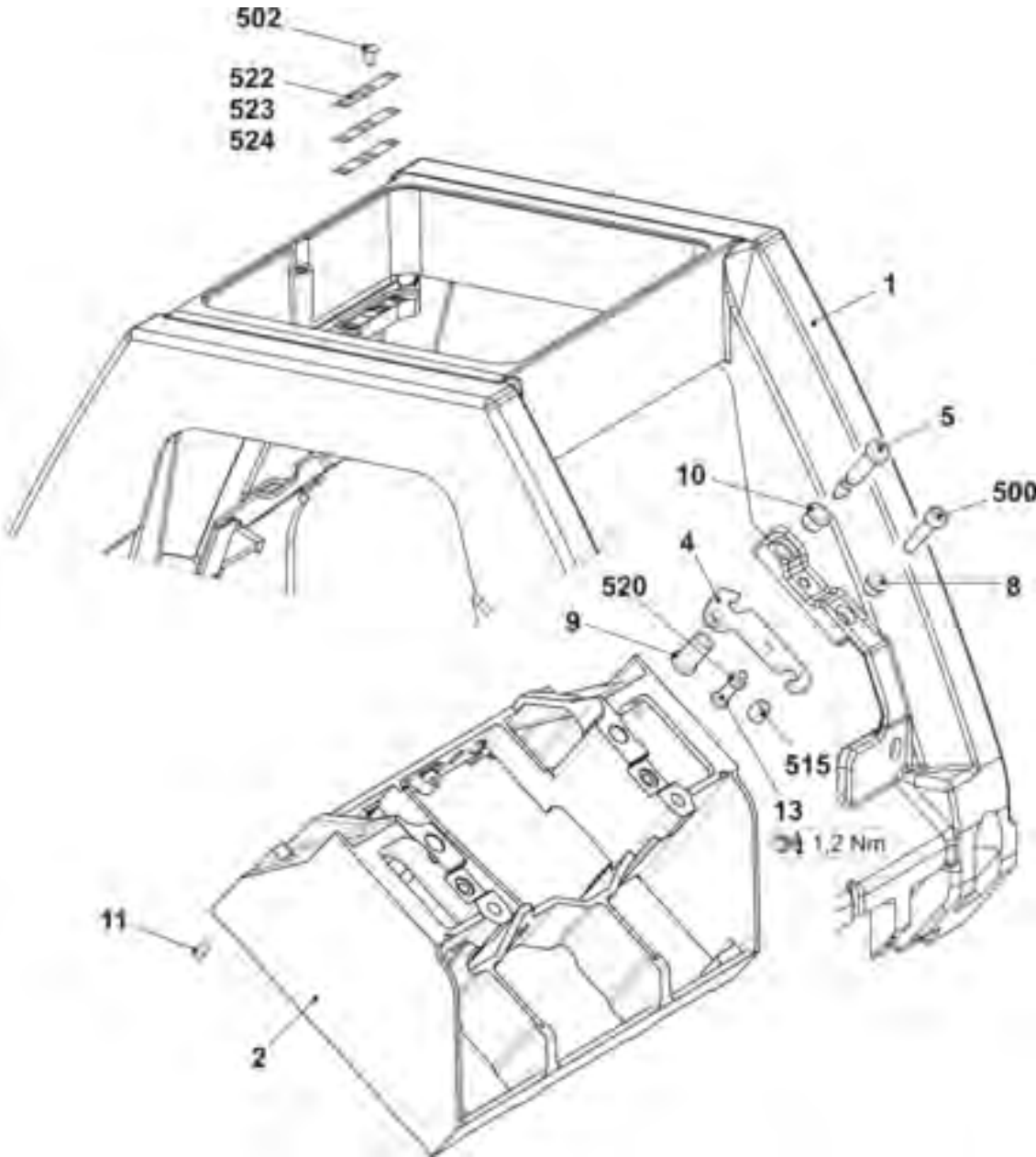
5.7 Yarn carrier driving with guide part

Pos	Designation	Id		Pos	Designation	Id
Σ	FF driving in the middle complete	241 081				
1	Yarn carrier plunger complete	242 214		500	Cap screw M4x14-I-Torx	242 279
2	Holding angle for jack	241 038		501	Cap screw M3x12-12.9	022 648
3	Holding angle for YC driving	241 044		502	Screw KB60X20	243 625
4	Card yarn carrier final stagesOKC	300 960		900	Cap screwM6x14	022 658
5	Guide part	239 972		901	Shoulder screw	231 899



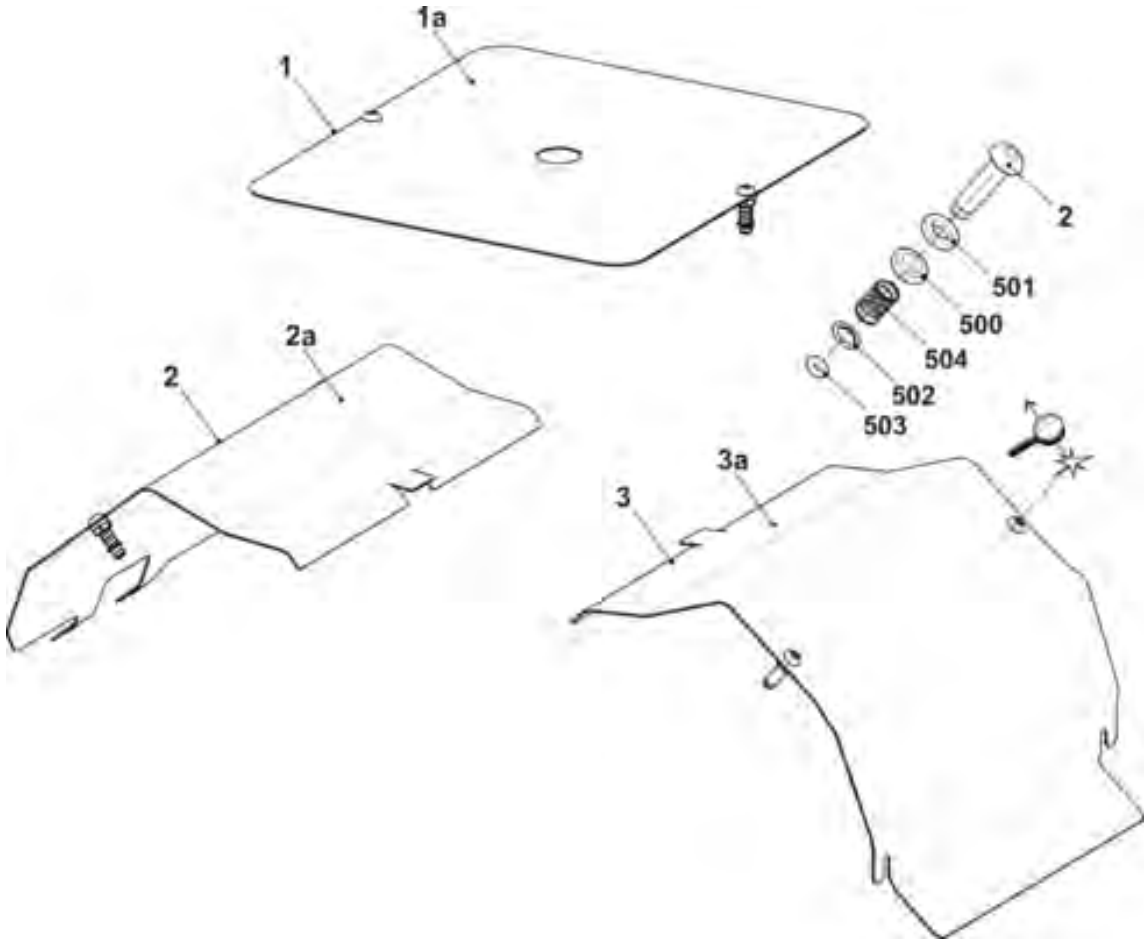
5.8 Carriage assembly

Pos	Designation	Id		Pos	Designation	Id
Σ	Carriage assembly 2 cam boxes complete 502	256 497		11	Eccentric	222 983
1	Carriage frame, 2 cam boxes	259 015		13	Locating bolt linking spot	244 179
2	Carriage part, 2 cam boxes	253 402		500	Cap screw M8x30	020 143
4	Shim	225 312		502	Pan-head screw M6x10	023 183
5	Shoulder screw	211 750		520	Circlip6	021 022
8	Bush	207 546		522	Shim0,2x10x70	023 699
9	Bush	209 275		523	Shim0,1x10x70	023 698
10	Bush	209 274		524	Shim0,05x10x70	023 697



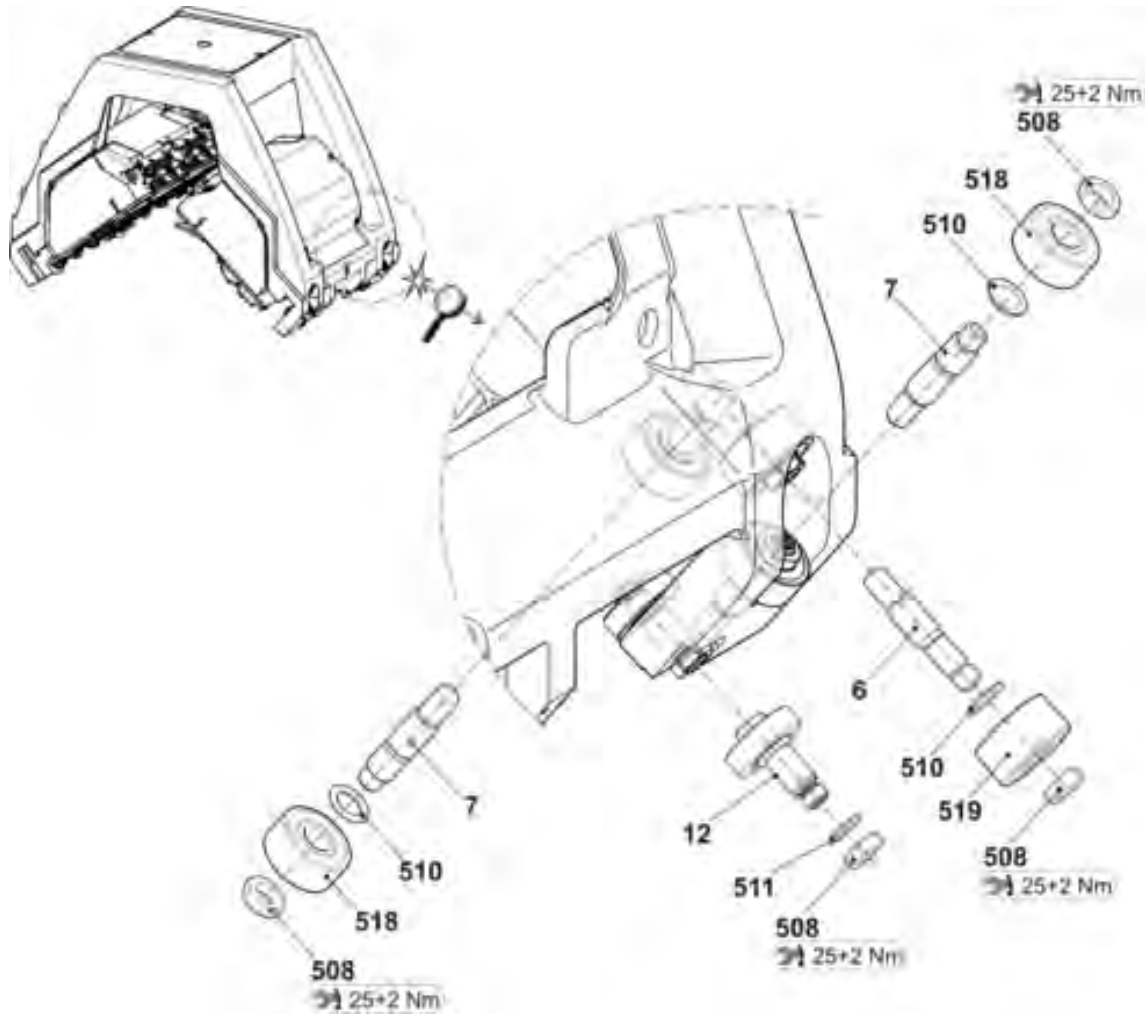
5.9 Carriage cover

Pos	Designation	ID		Pos	Designation	ID
1	Carriage cover at the top 2 cam boxes complete	257 099		10	Locating bolt	242 382
	1a Carriage cover at the top 2 cam boxes 6Z	256 509		500	Hexagon nut M6	257 088
2	Carriage cover at the rear complete 2 cam boxes	257 159		501	Washer6.1x9x0,5	023 554
	2a Carriage cover at the rear 2 cam boxes	256 734		502	Serrated lock washer 6,4	022 385
3	Carriage cover front 2 cam boxes	257 158		503	O-ring 3x2	242 420
	3a Carriage cover front 2 cam boxes	256 733		504	Compression spring 0,48x7,02x17,29	023 654



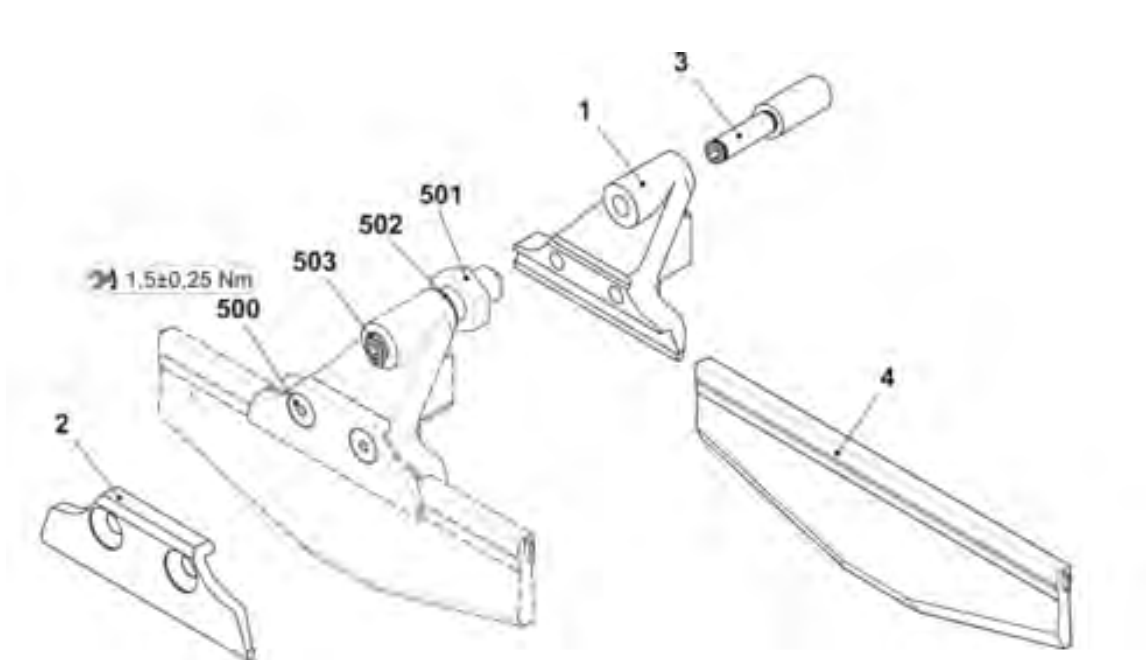
5.10 Carriage guide

Pos	Designation	Id		Pos	Designation	Id
6	Bearing bolt eccentric 0,5	242 060		510	Shim ring 12x18x1	023 315
7	Bearing bolt eccentric 0,5	240 624		511	Shim ring 10x16x1	023 260
12	Bolt pre-assembled	244 283		518	Grooved ball bearing 62201-2RS	241 408
508	NutM10	023 316		519	Grooved ball bearing 62300-2RS1	242 070



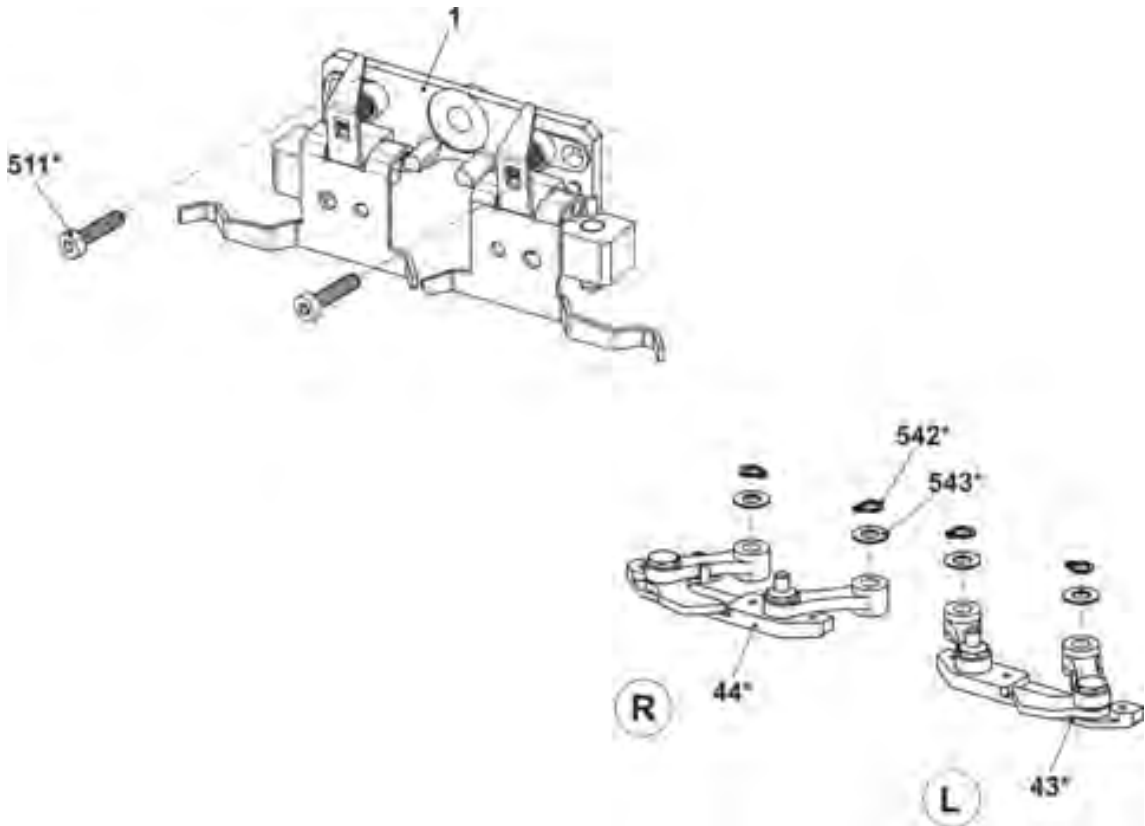
5.11 Brush holder

Pos	Designation	Id	Pos	Designation	Id
Σ	Brush holder complete	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	Shim ring 5x10x0,5	023 348
4	Brush	203 254	503	Locking ring 5x0,6	023 347



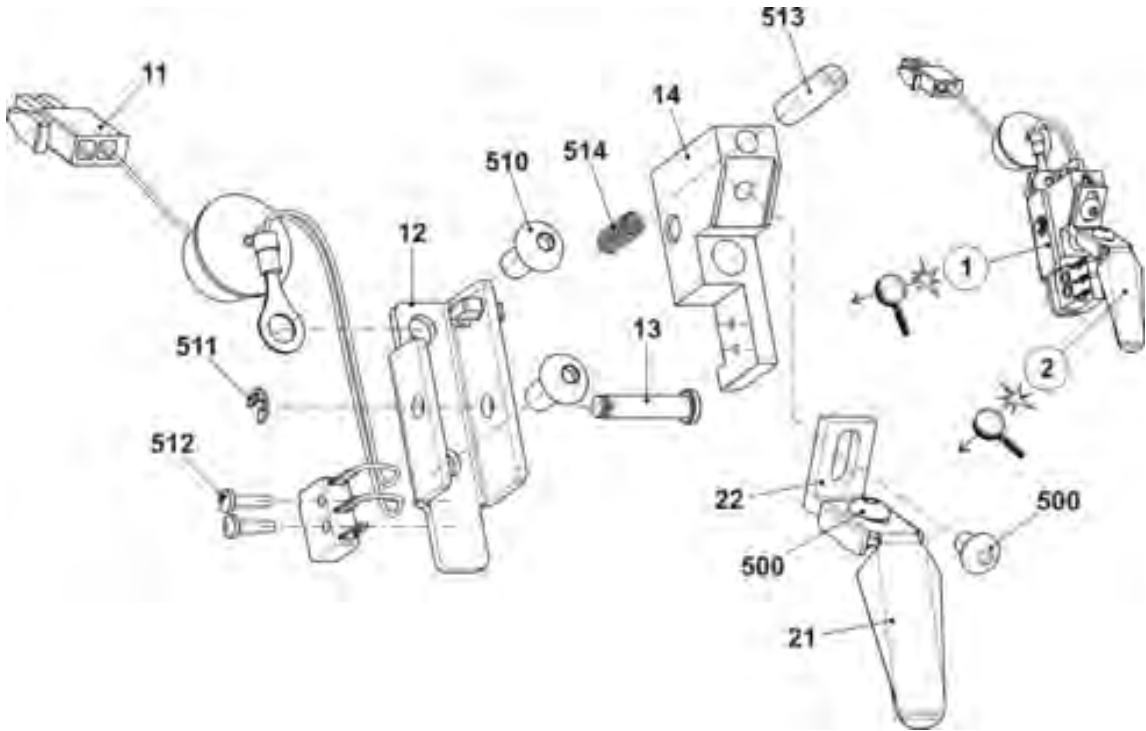
5.12 Holding-down jack control and slider

Pos	Designation	Id	Pos	Designation	Id
1	Holding-down jack control	213 266	Σ	Slider complete	
511*	Cap screw M5x16	023 141	43*	Slider on the left completeE5-8	212 611
			44*	Slider on the right completeE5-8	212 610
			542*	Locking ring5x0,6	023 347
			543*	Shim ring 5x10x0,5	023 348



5.13 Needle detector

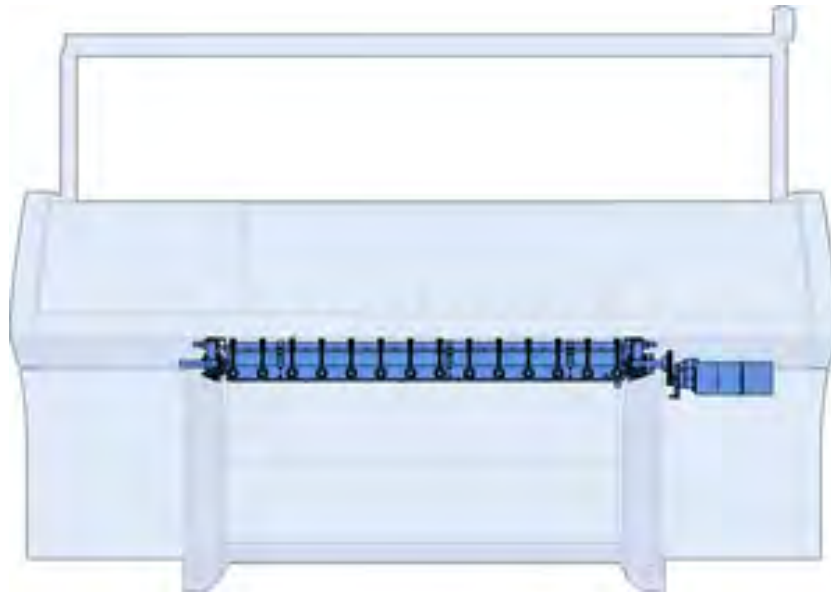
Pos	Designation		ID		Pos	Designation		ID
Σ	Needle detector		221 238			512	Pan-head screw M2x8	258 310
1	Needle detector pre-assembled		221 773			513	Setscrew M5x20	023 526
	11	Cable of needle detector complete	221 207			514	Compression spring 4,3x0,45x10	021 398
	12	Retainer	220 464		2	Sensor pre-assembled		221 758
	13	Bolts	258 390		21	Sensor		220 839
	14	Switch rocker	220 637		22	Angle		221 175
	510	Pan-head screw M5x10	023 247		500	Pan-head screw M4x6		023 427
	511	Circlip	021 018		500	Pan-head screw M4x8		023 579



5.13 Needle detector

Notes:

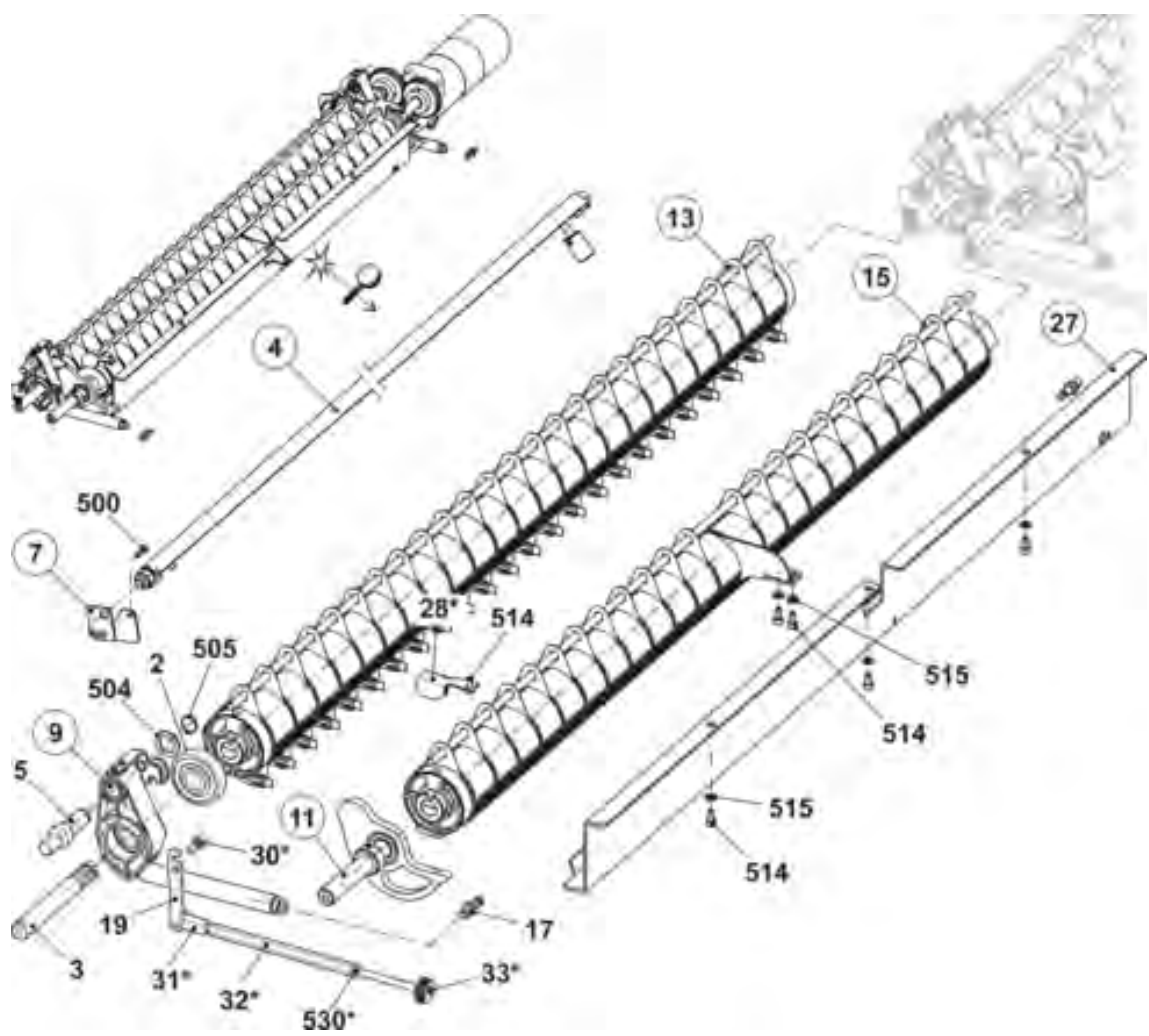
6 Main take-down



6.1 Take-down rollers and left bearing

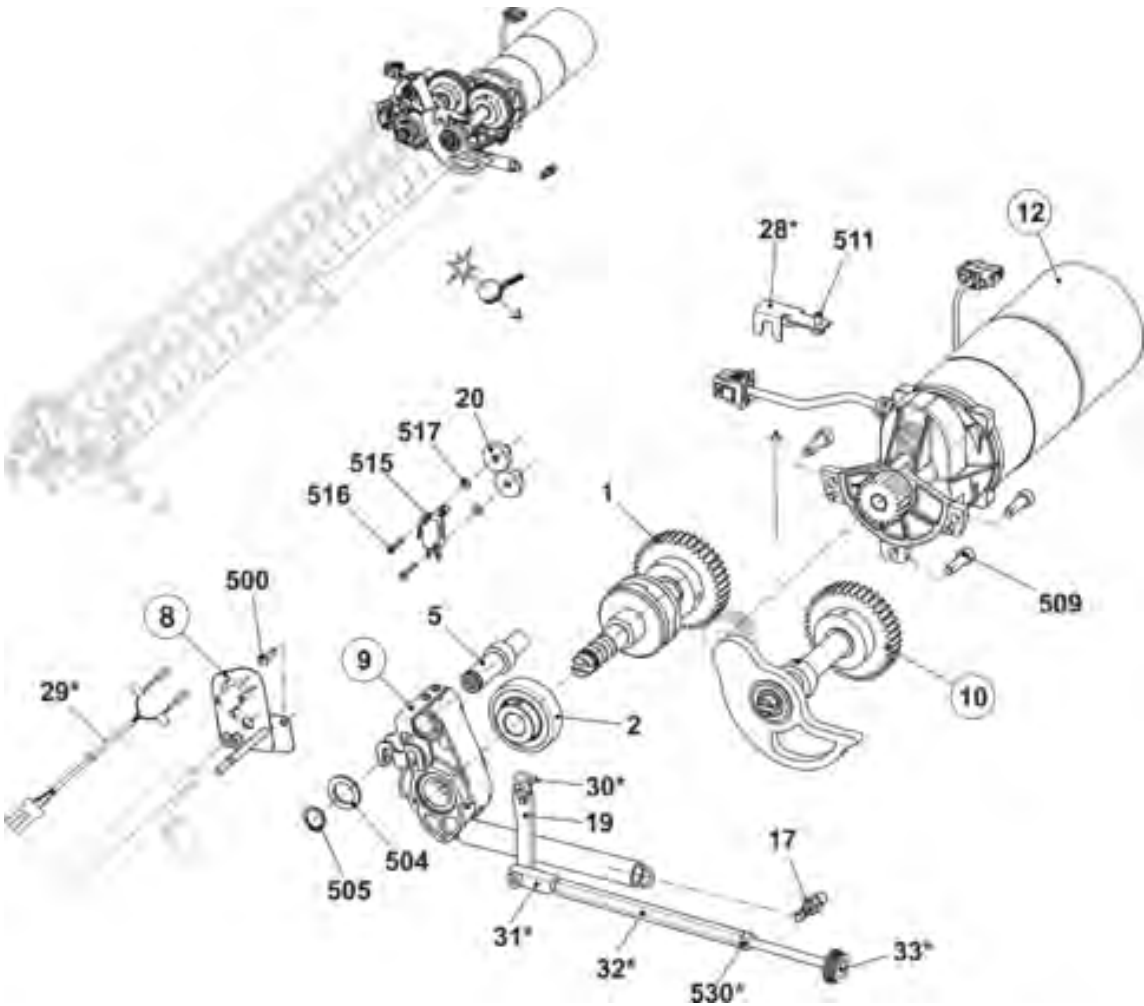
6.1 Take-down rollers and left bearing

Pos	Designation	Id		Pos	Designation	Id
Σ	Main take-down complete			27	Angle rail complete	251 550
2	Bearing race complete	244 459		500	Screw 50x15	251 728
3	Shaft on the left at the rear	221 012		504	Washer18	023 295
4	Stripper angle at the rear complete	259 985		505	Locking ring18x1,2	020 955
5	Bolts	208 538		514	Cap screw M6x12	020 134
7	Mounting plate on the left complete	231 725		515	Washer6	022 431
9	Swivel-mounted bearing	251 761		28*	Sheet metal support on the left	251 766
11	Full floating axle on the left	251 984		30*	Shoulder screw	257 000
13	Take-down roller at the rear complete E5-14	251 683		31*	Coupling piece	256 999
15	Take-down roller at the front complete	251 681		32*	Connecting rod	256 998
17	Spring bolt	221 143		33*	Knurled screw	250 608
19	Stop point	256 078		530*	Hexagon nut M8-6	020 838



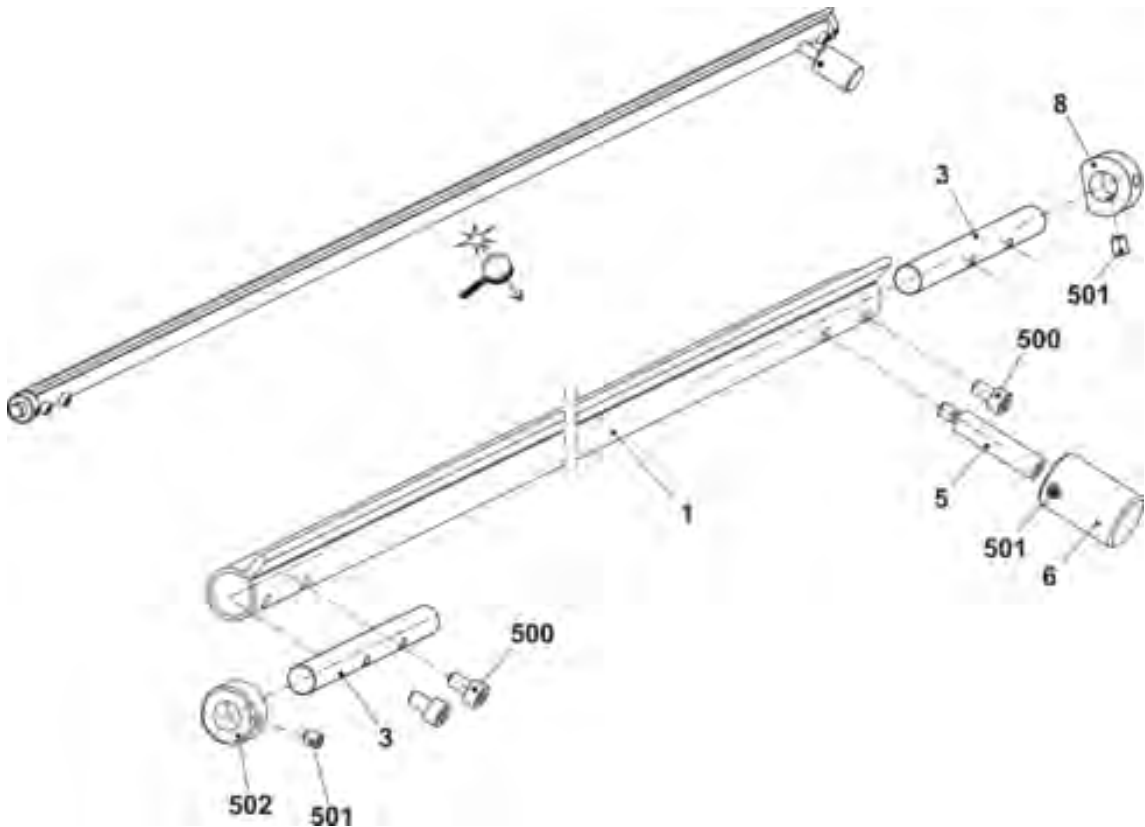
6.2 Take-down motor and right bearing

Pos	Designation	Id		Pos	Designation	Id
Σ	Main take-down complete			505	Locking ring18x1,2	020 955
1	Clutch set	251 677		509	Cap screw M8x25-12.9	020 142
2	Bearing race complete	244 459		511	Cap screw M6x12	020 134
5	Bolts	208 538		515	Microswitch	210 510
8	Mounting plate on the right complete	260 090		516	Cap screw M3x20	023 221
9	Swivel-mounted bearing	251 761		517	Washer3	023 657
10	Full floating axle on the right	251 985		28*	Sheet metal support on the right	251 765
12	Motor take-down unit complete	253 803		29*	Connection cable winding plate	241 703
17	Spring bolt	221 143		30*	Shoulder screw	257 000
19	Stop point	256 078		31*	Coupling piece	256 999
20	Threaded bush	222 522		32*	Connecting rod	256 998
500	Screw 50x15	251 728		33*	Knurled screw	250 608
504	Washer18	023 295		530*	Hexagon nut M8-6	020 838



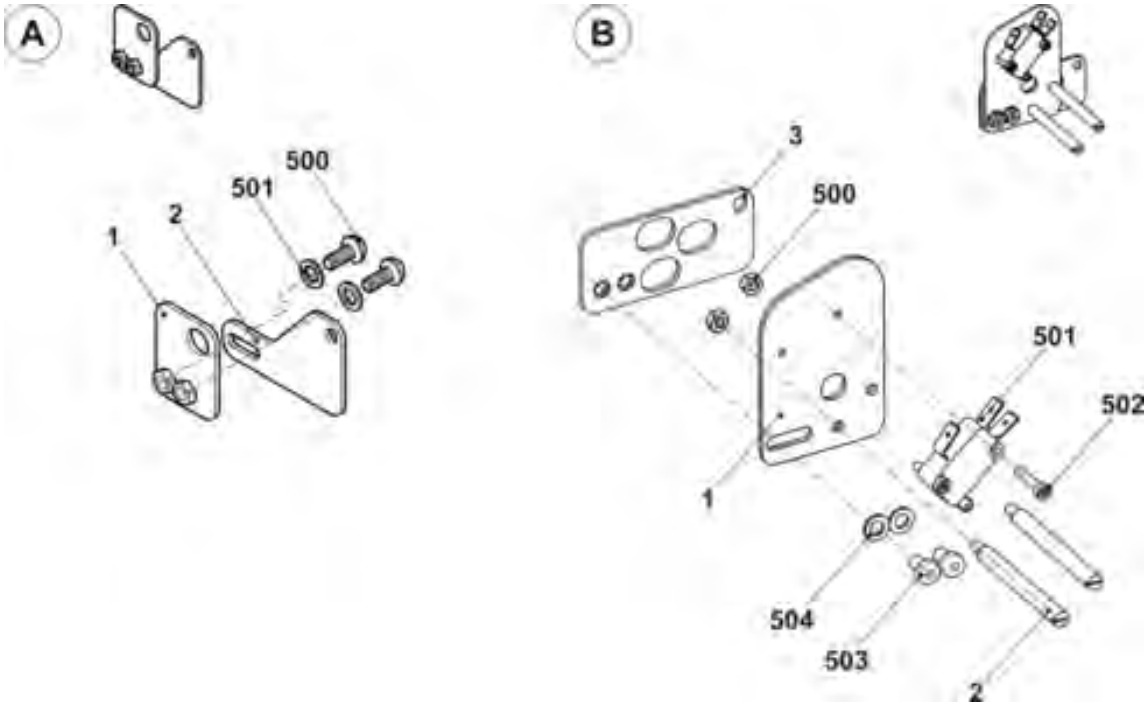
6.3 Stripper angle

Pos	Designation	Id		Pos	Designation	Id
Σ	Stripper angle at the rear complete	259 985				
1	Stripper angle	259 971		8	Cam	260 109
3	Axle	259 969		500	Cap screw M5x8	023 319
5	Bolts	228 310		501	Setscrew M5x6	022 738
6	Adjustment weight	229 248		502	Set collar	020 934



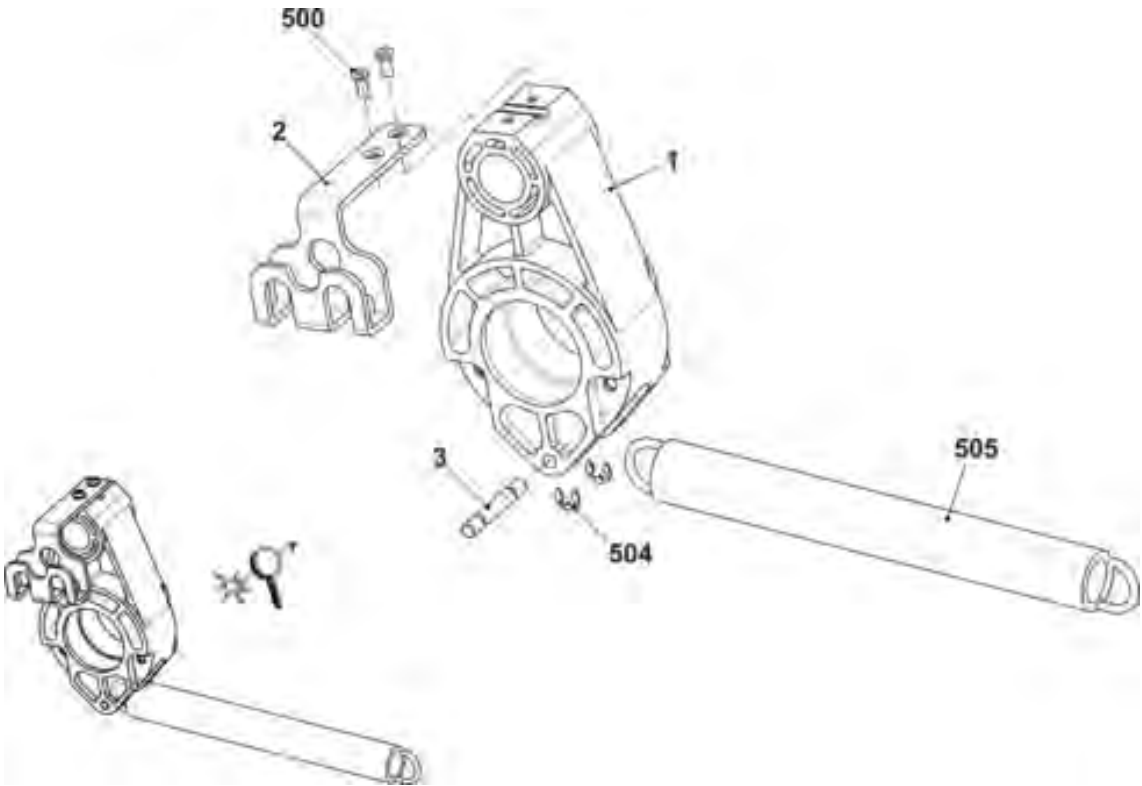
6.4 Mounting plate

Pos	Designation	ID		Pos	Designation	ID
Σ L	Mounting plate on the left complete	231 725		Σ R	Mounting plate on the right complete	260 090
1	Mounting plate on the left	231 541		1	Mounting plate on the right	260 067
2	Retaining plate on the left	231 539		2	Shoulder screw	240 067
500	Pan-head screw M5x10	023 247		3	Retaining plate on the right	240 066
501	Serrated lock washer J5,3	022 489		500	Hexagon nut M4-6	022 536
				501	Microswitch	026 259
				502	Cap screw M3x16	022 583
				503	Cap screw M5x8	244 278
				504	Washer5-200	020 871



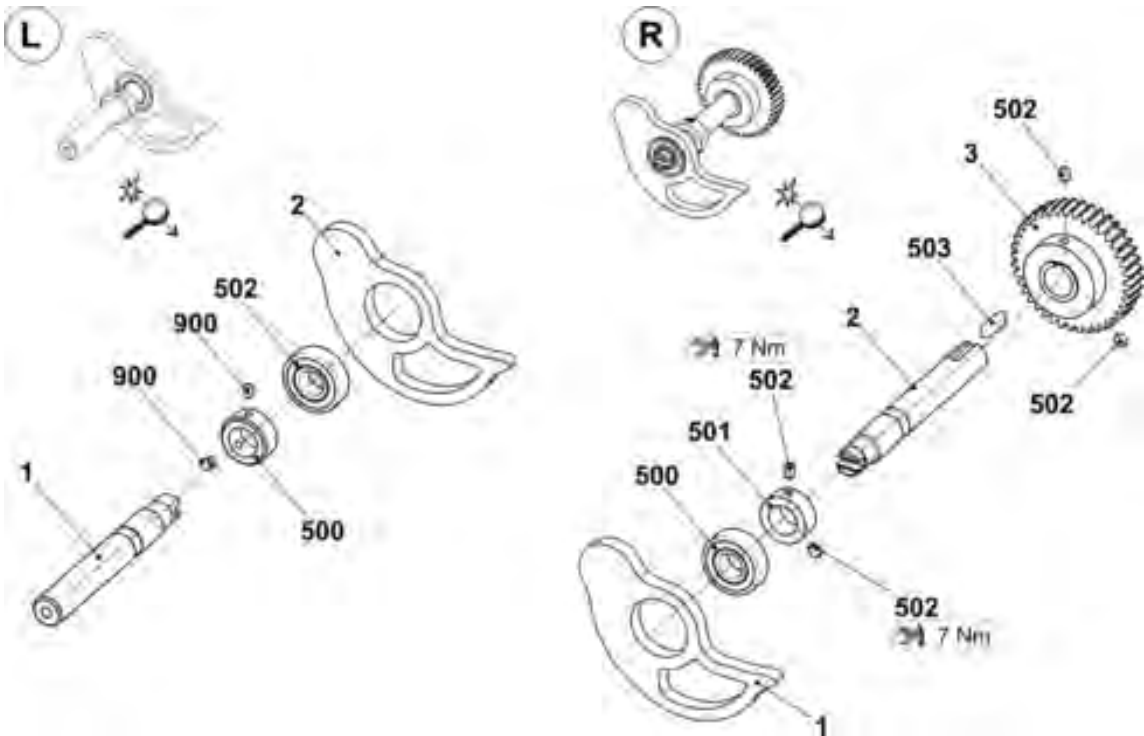
6.5 Swivel-mounted bearing

Pos	Designation	ID		Pos	Designation	ID
Σ	Swivel-mounted bearing	251 761				
1	Swivel-mounted bearing	241 996		500	Screw M35x10	259 102
2	Sheet metal support	251 749		504	Circlip4	021 020
3	Axle	251 758		505	Tension spring 21x3,0x192	240 217



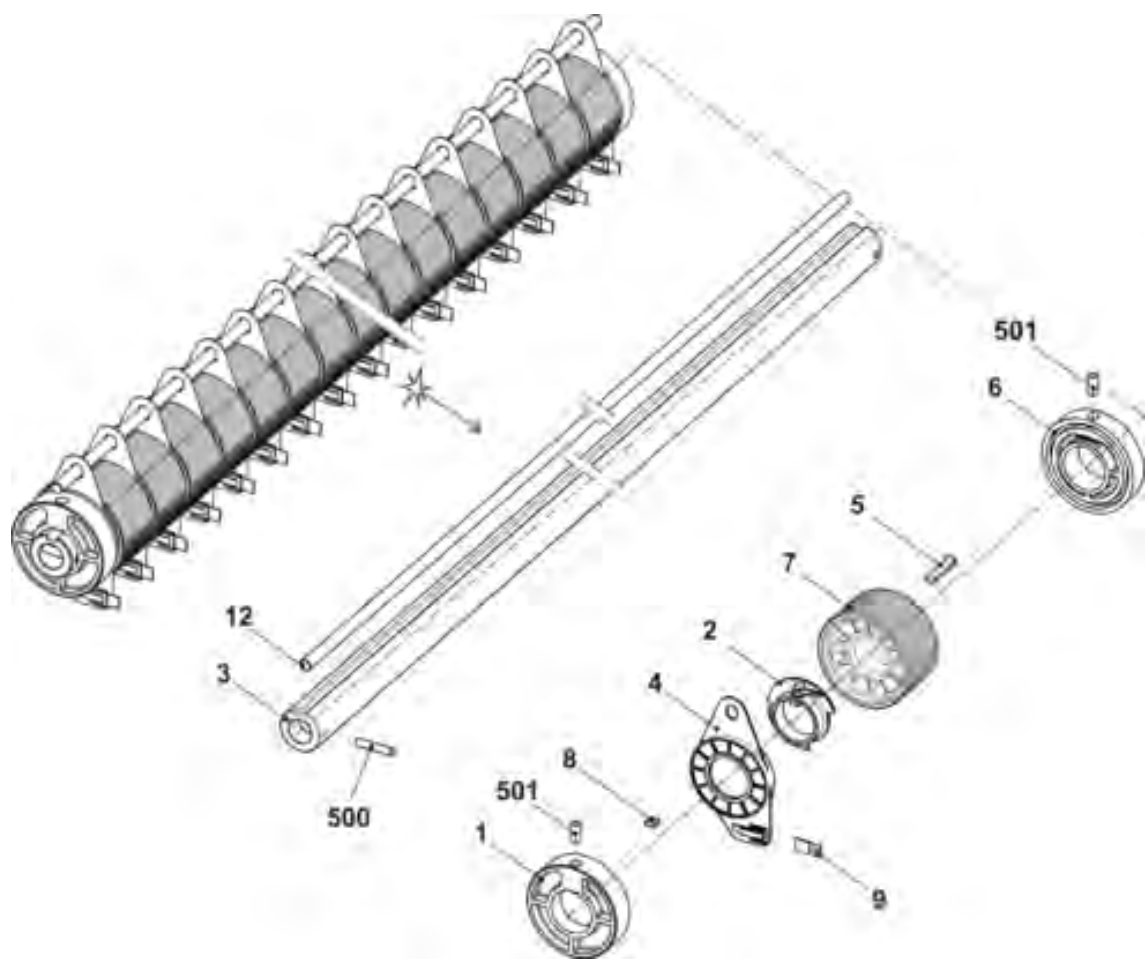
6.6 Full floating axle

Pos	Designation	ID		Pos	Designation	ID
Σ L	Full floating axle on the left	251 984		Σ R	Full floating axle on the right	251 985
1	Shaft on the left at the front	221 013		1	Eccentric	251 959
2	Eccentric	251 959		2	Shaft on the right	223 393
500	Set collar	020 938		3	Gear wheel Z=40, M=2	213 744
502	Fitting freewheel ZZ6203L	023 294		500	Fitting freewheel ZZ6203L	023 294
900	Setscrew M6x8	022 684		501	Set collar	020 938
				502	Setscrew M6x8	022 684
				503	Feather key A 6x6x25	023 017



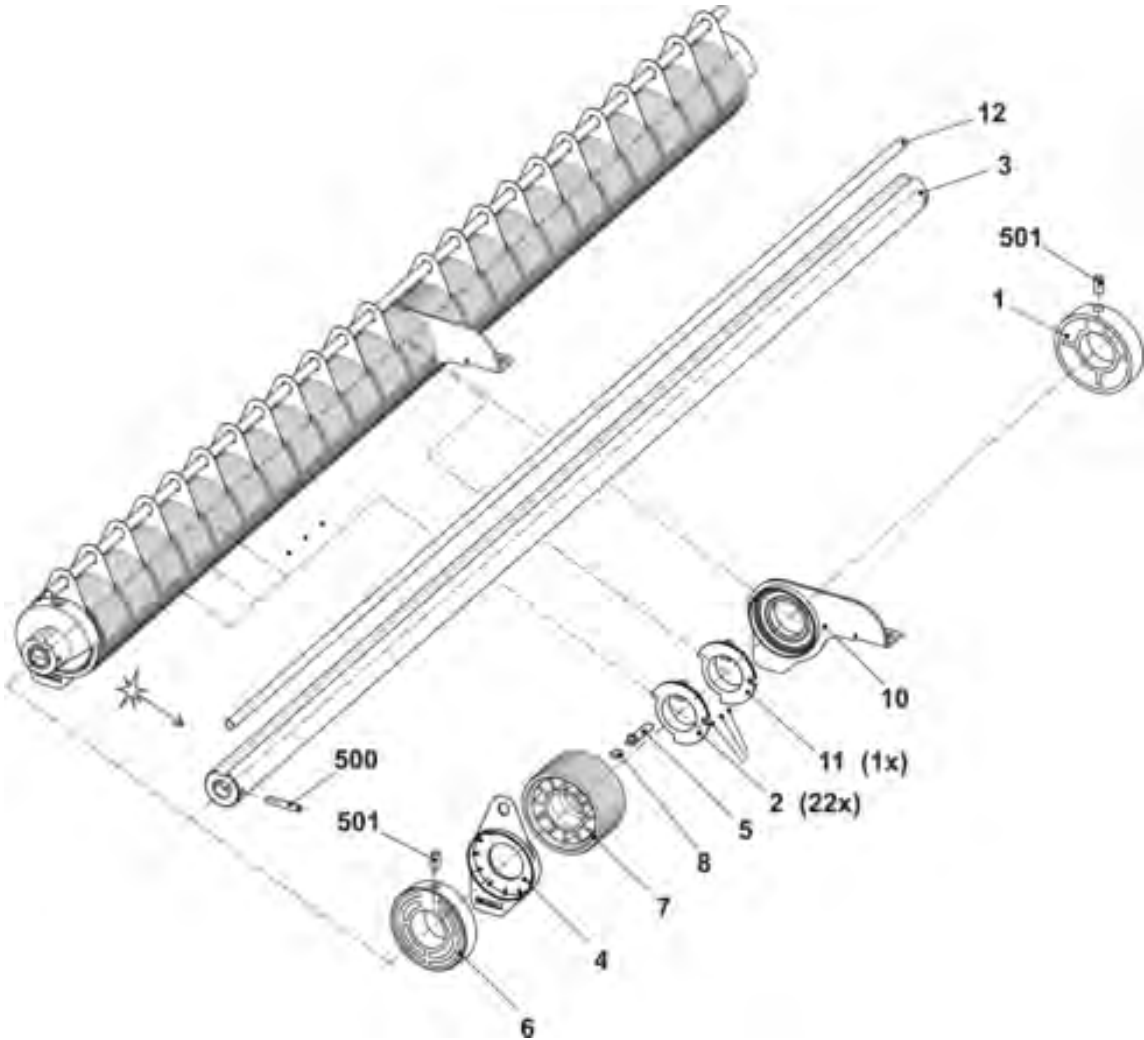
6.7 Rear take-down roller

Pos	Designation	Id		Pos	Designation	Id
Σ	Take-down roller at the rear complete E5-14	251 683				
1	Ring on the left	255 830		7	Roller (E5-14)	206 770
2	Stop ring on the left	204 369		8	Spacer slide	222 062
3	Wave	251 682		9	Brush	225 819
4	Stripper	241 612		12	Rod	251 769
5	Spacer slide	240 104		500	Dowel pin 6x32	020 685
6	Ring on the right	255 831		501	Setscrew M8x16	258 910



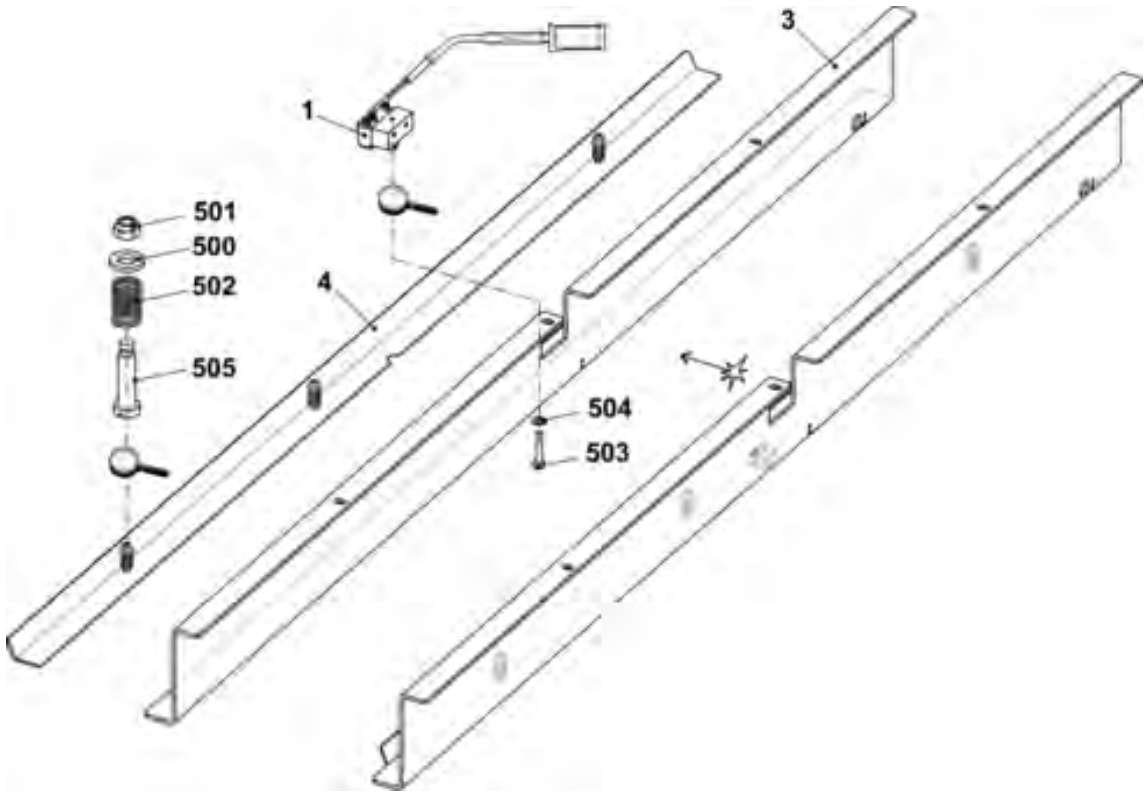
6.8 Front take-down roller

Pos	Designation	Id		Pos	Designation	Id
Σ	Take-down roller at the front complete	251 681		7	Roller	206 770
1	Ring on the left	255 830		8	Spacer slide	222 062
2	Stop ring on the left	204 369		10	Support	252 506
3	Shaft	251 680		11	Stop ring on the left	222 910
4	Stripper	241 612		12	Rod	251 769
5	Spacer slide	240 104		500	Dowel pin 6x32	020 685
6	Ring on the right	255 831		501	Setscrew M8x16	258 910



6.9 Angle rail

Pos	Designation	Id		Pos	Designation	Id
Σ	Angle rail complete	251 550		501	Hexagon nut M5-8	023 541
1	Switch complete (with cable)	221 265		502	Compression spring 0,8x9,2x27,5	023 537
3	Angle rail	251 548		503	Cap screwM2x12	023 522
4	Winding plate	251 549		504	Washer2	022 908
500	Washer6	022 431		505	Shoulder screw M5x20x5	023 675

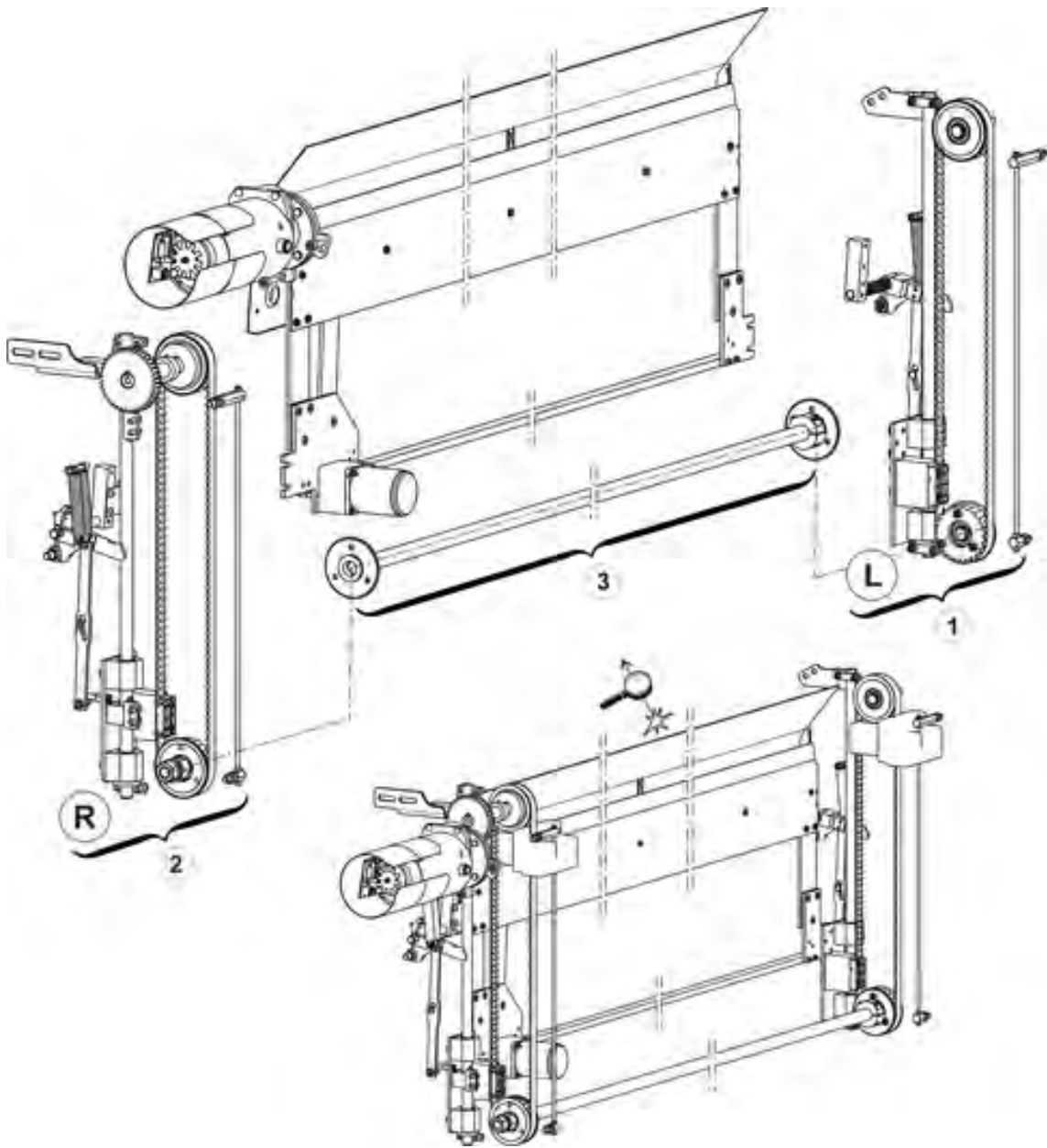


7 Comb take-down



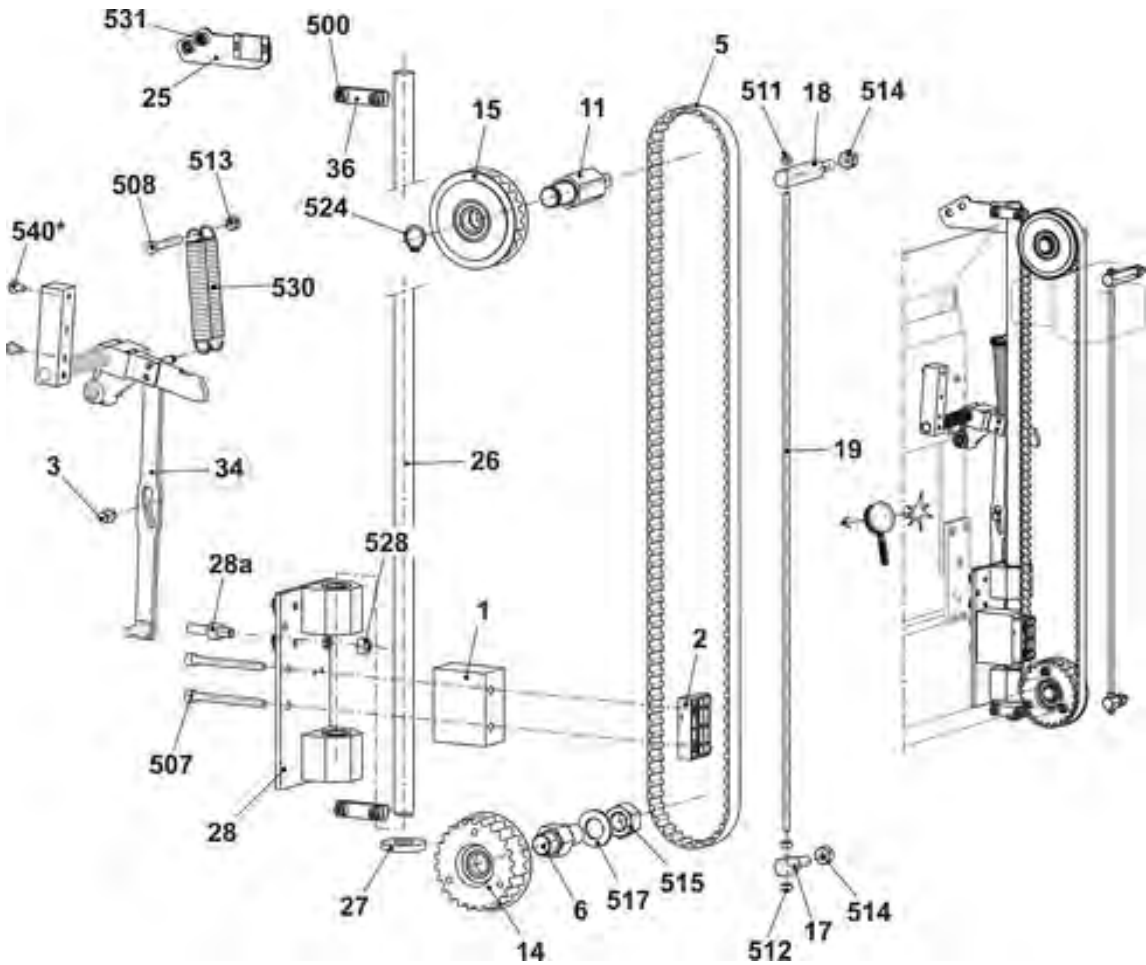
7.1 Comb take-down

Pos	Designation	Id		Pos	Designation	Id
Σ	Comb take-down			3	Comb take-down in the middle	
1	Comb take-down on the left	256 836			E5 E2,5.2 E2,5.2m.4L	253 951
2	Comb take-down on the right	256 837			E7 E7m.5 E3,5.2 E3,5.2m.4L	253 839



7.2 Comb take-down on the left

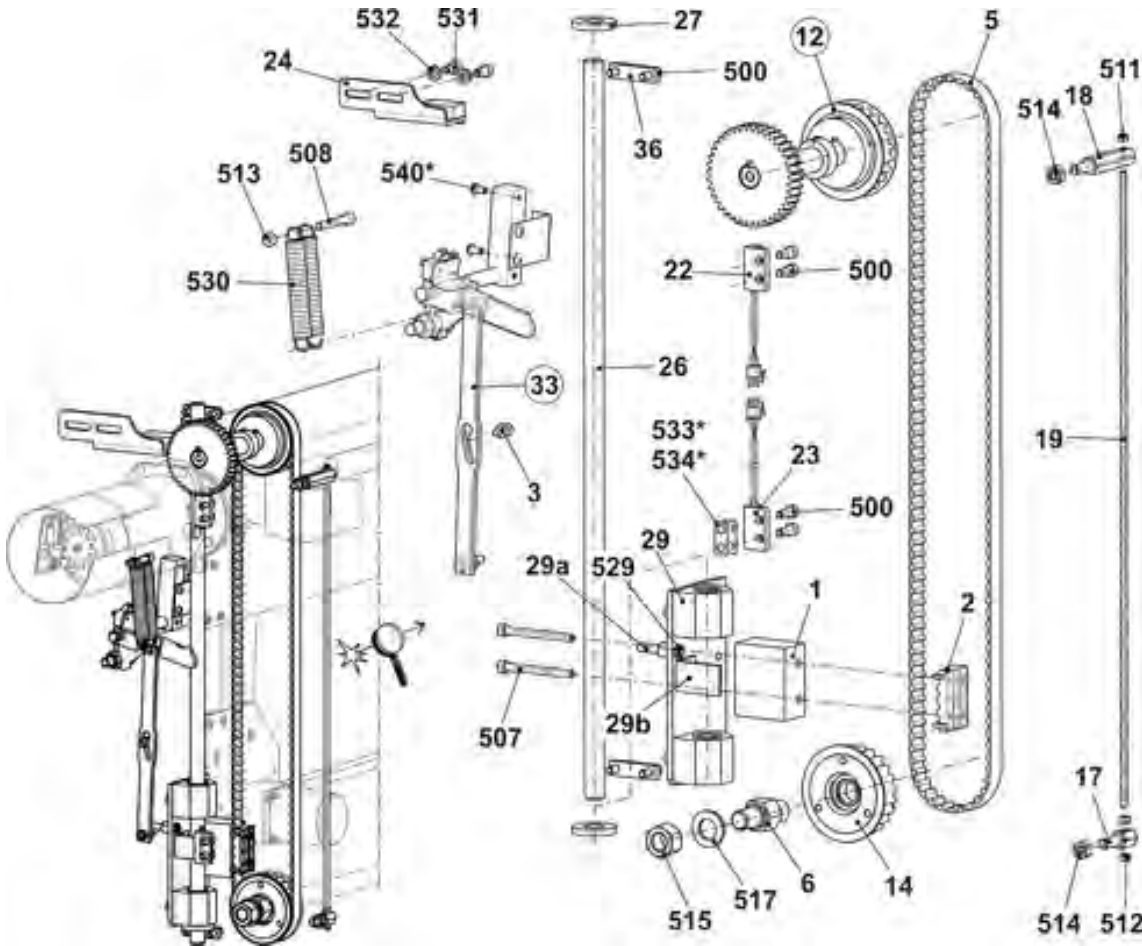
Pos	Designation	Id	Pos	Designation	Id
Σ	Comb take-down on the left	256 836			
1	Clamping piece	209 379	528	Hexagon nut M8-6	020 838
2	Pressure plate	241 967	34	Swivel lever on the left	252 859
3	Bolts	222 152	36	Clamping plate	227 159
5	Toothed belt16T10/1300	240 065	500	Cap screwM6x16	020 135
6	Eccentric pin	222 320	507	Cap screwM6x65	240 162
11	Bolts	207 689	508	Cap screwM6x45	022 689
14	Toothed lock washer at the bottom complete	211 822	511	Hexagon nut M5-8	023 541
15	Toothed lock washer at the top complete	211 823	512	Hexagon nut M5-6	020 835
17	Stay bolt	222 315	513	Hexagon nut M6-6	020 836
18	Stay bolt	240 056	514	Hexagon nut M8-6	020 838
19	Threaded rod M5	240 057	515	Hexagon nut M16-6	020 845
25	Reflector complete	256 826	517	Washer16	020 876
26	Guide bar C35	206 560	524	Locking ring17x1	023 299
27	Rubber buffer	206 561	530	Tension spring Din2097 15x1,50x70,94	251 614
28	Comb guide on the left	255 425	531	Cap screwM6x12	020 134
28a	Driving bolt	255 427	540*	Pan-head screwM5x10	023 247



7.3 Comb take-down on the right

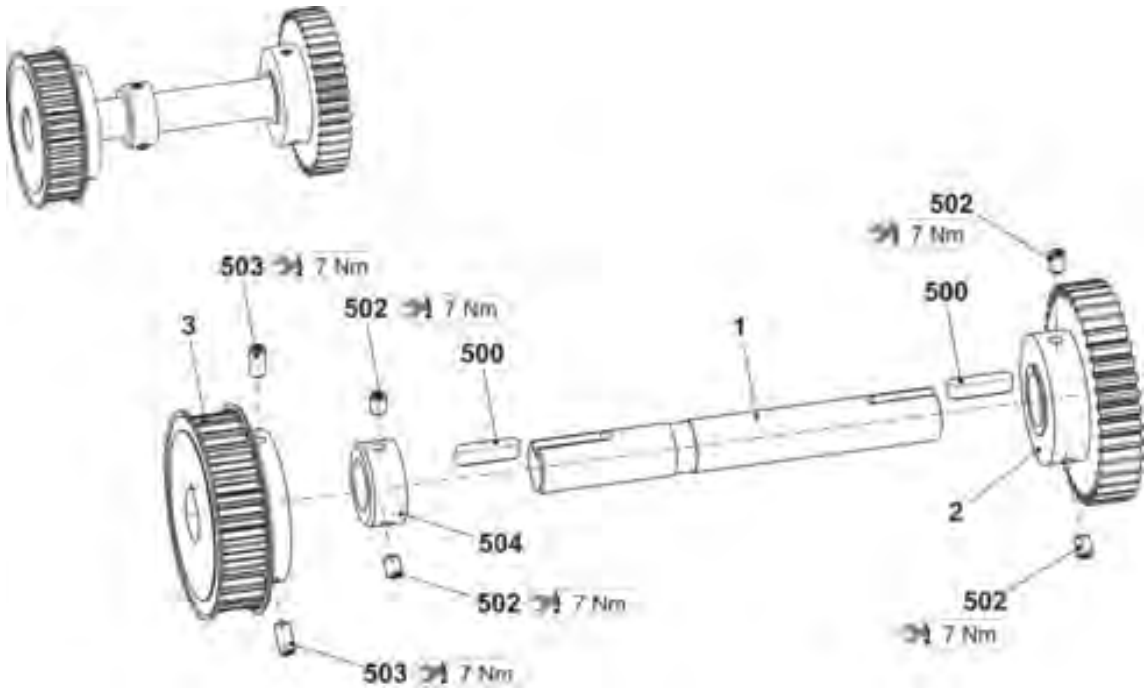
7.3 Comb take-down on the right

Pos	Designation	Id	Pos	Designation	Id
Σ	Comb take-down on the right	256 837			
1	Clamping piece	209 379	529	Hexagon nut M8-6	020 838
2	Pressure plate	241 967	33	Swivel lever on the right	252 858
3	Bolts	222 152	36	Clamping plate	227 159
5	Toothed belt16T10/1300	240 065	500	Cap screwM6x16	020 135
6	Eccentric pin	222 320	507	Cap screwM6x65	240 162
12	Drive shaft comb complete	214 583	508	Cap screwM6x45	022 689
14	Toothed lock washer at the bottom complete	211 822	511	Hexagon nut M5-8	023 541
17	Stay bolt	222 315	512	Hexagon nut M5-6	020 835
18	Stay bolt	240 056	513	Hexagon nut M6-6	020 836
19	Threaded rod M5	240 057	514	Hexagon nut M8-6	020 838
22	Proximity switch inductive at the top	231 516	515	Hexagon nut M16-6	020 845
23	Proximity switch inductive at the bottom	231 520	517	Washer16	020 876
24	Light barrier complete	256 825	530	Tension spring 15x1,50x70,94	251 614
26	Guide bar C35	206 560	531	Cap screwM6x12	020 134
27	Rubber buffer	206 561	532	Washer6	020 872
29	Comb guide on the right	255 424	533*	Shim 0,2x12x27	023 735
29a	Driving bolt	255 427	534*	Shim 0,5x12x27	023 736
29b	Angle	240 112	540*	Pan-head screwM5x10	023 247



7.3.1 Drive shaft of comb

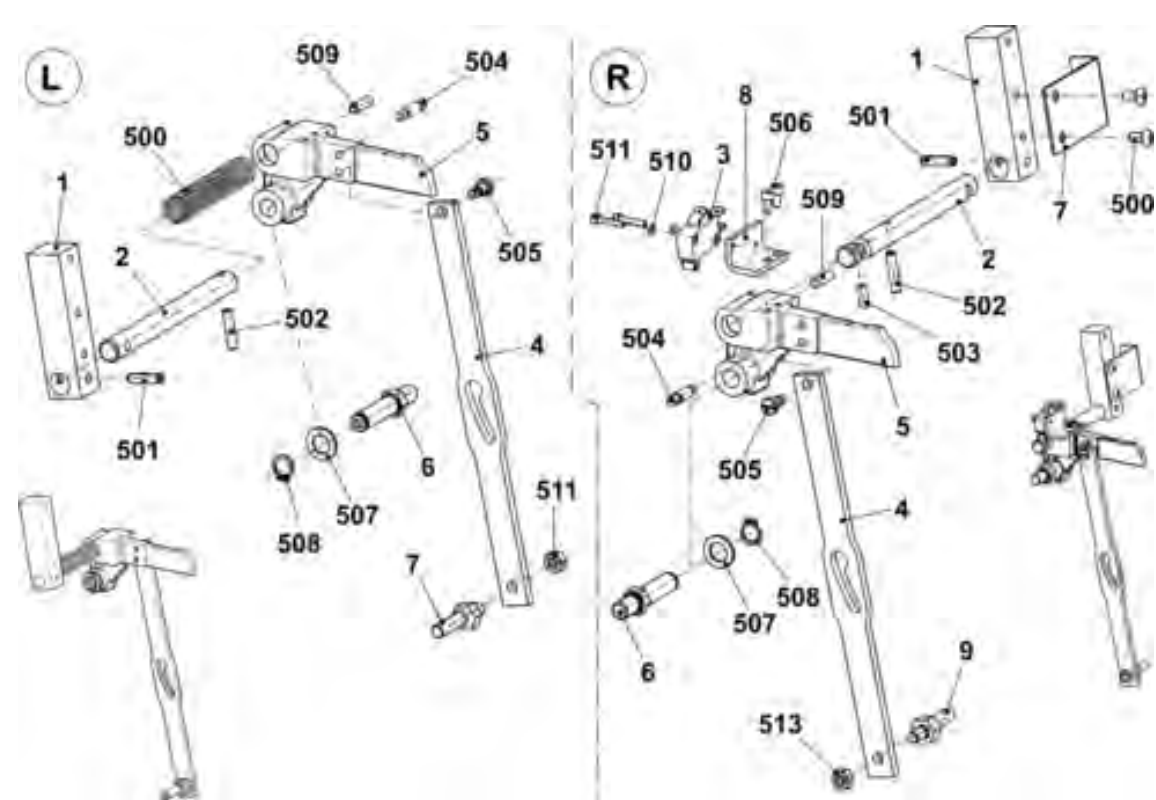
Pos	Designation	Id		Pos	Designation	Id
Σ	Drive shaft comb complete	214 583				
1	Shaft	213 969		500	Feather key A 6x6x25	023 017
2	Gear wheel Z=40, M=2	213 744		502	Setscrew M6x8	022 684
	Always order position 502 additionally			503	Setscrew M6x12	023 898
3	Toothed belt pulley at the top	206 394		504	Set collar	020 938
	Always order position 503 additionally					



7.3 Comb take-down on the right

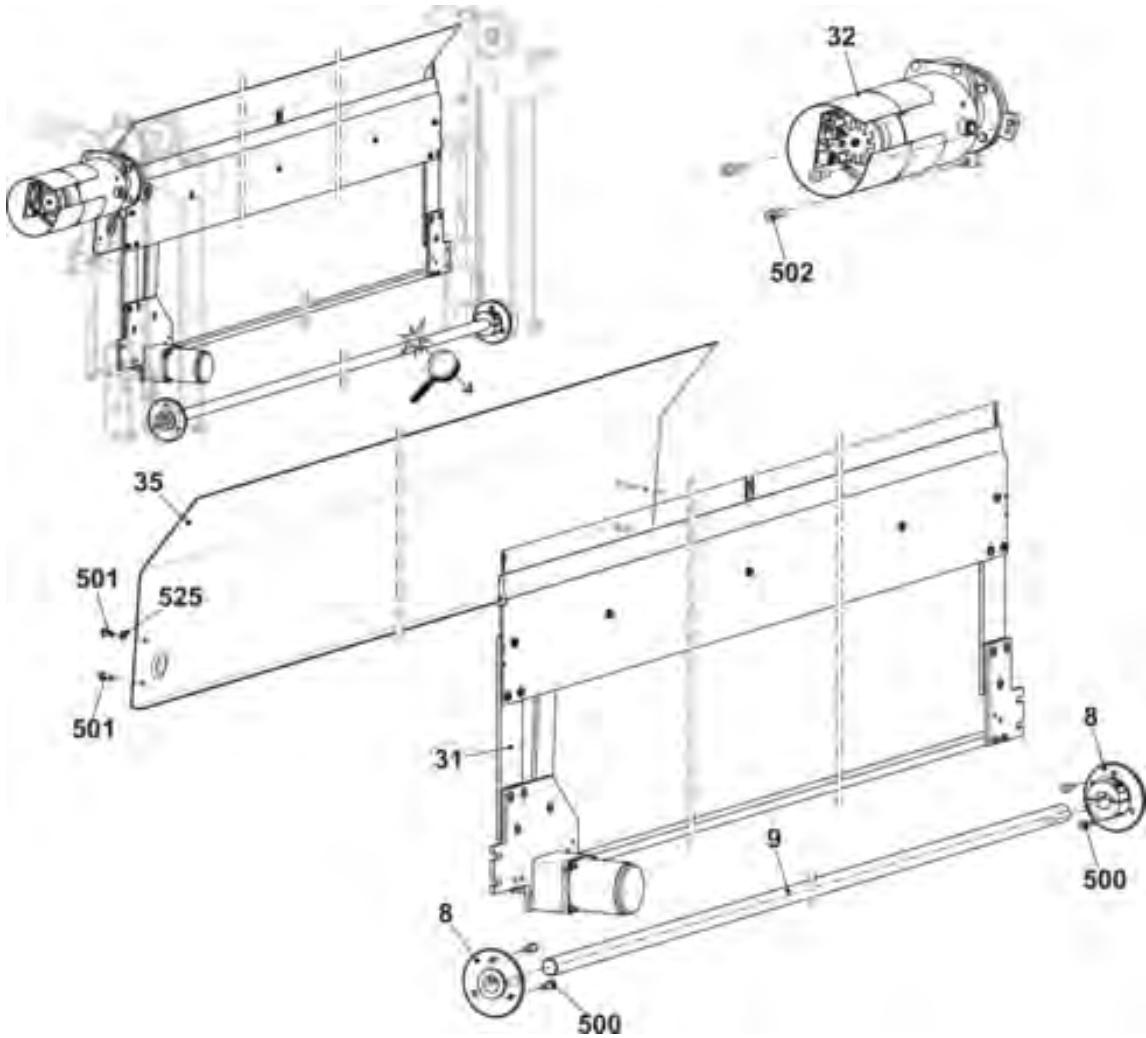
7.3.2 Swivel lever comb take-down

Pos	Designation	Id		Pos	Designation	Id
Σ L	Swivel lever on the left	252 859		Σ R	Swivel lever on the right	252 858
1	Support	252 780		1	Support	252 780
2	Shaft	223 994		2	Shaft	238 339
4	Plunger	255 650		3	Microswitch	026 259
5	Swivel lever	239 248		4	Plunger	255 650
6	Bolt	214 053		5	Swivel lever	239 248
7	Eccentric bolt	255 651		6	Bolt	214 053
500	Compression spring 1,4x13,6x93	023 572		7	Angle	224 009
501	Spring dowel sleeve Iso8752-5x20	020 794		8	Angle	238 304
502	Dowel pin 5x22	023 716		9	Eccentric bolt	255 651
504	Shoulder screw M5x29x35	251 618		500	Pan-head screwM5x10	023 247
505	Shoulder screw M5x5,8x6,2	023 365		501	Spring dowel sleeve 5x20	020 794
507	Washer10	020 884		502	Dowel pin 5x22	023 716
508	Locking ring	020 950		503	Spring dowel sleeve 5x12	020 793
509	Shoulder screw M5x12x18	020 539		504	Shoulder screw M5x29x35	251 618
511	Hexagon nut M8-6	020 838		505	Shoulder screw M5X5,8X6,2	023 365
				506	Cap screwM4x8	022 501
				507	Washer10	020 884
				508	Locking ring 10x1	020 950
				509	Shoulder screw M5X12X18	020 539
				510	Cap screwM3x16	022 583
				511	Washer3	020 877
				513	Hexagon nut M8-6	020 838



7.4 Comb take-down in the middle

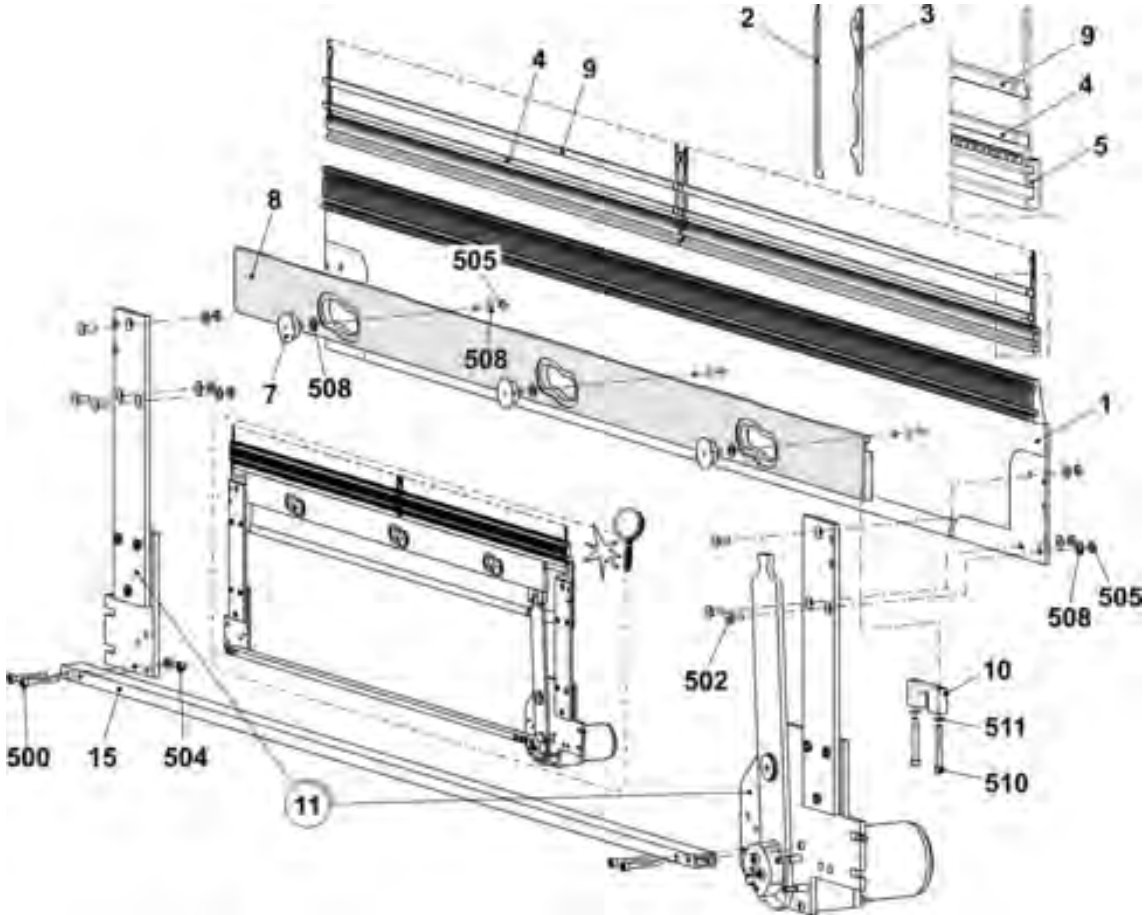
Pos	Designation	ID		Pos	Designation	ID
Σ	Comb take-down in the middle			31	Comb unit	
	E5 E2,5.2 E2,5.2m.4L	253 951			E5 E2,5.2 E2,5.2m.4L	253 948
	E7 E7m.5 E3,5.2 E3,5.2m.4L	253 839			E7 E7m.5 E3,5.2 E3,5.2m.4L	252 622
8	Flange	207 695		32	Motor take-down unit complete	253 803
9	Shaft long	251700		35	Marking plate open	259 238
500	Cap screw M6x16	020 135		502	Cap screw M8x25	020 142
501	Pan-head screw M5x10	023 247		525	Serrated lock washer J5,3	022 489



7.4 Comb take-down in the middle

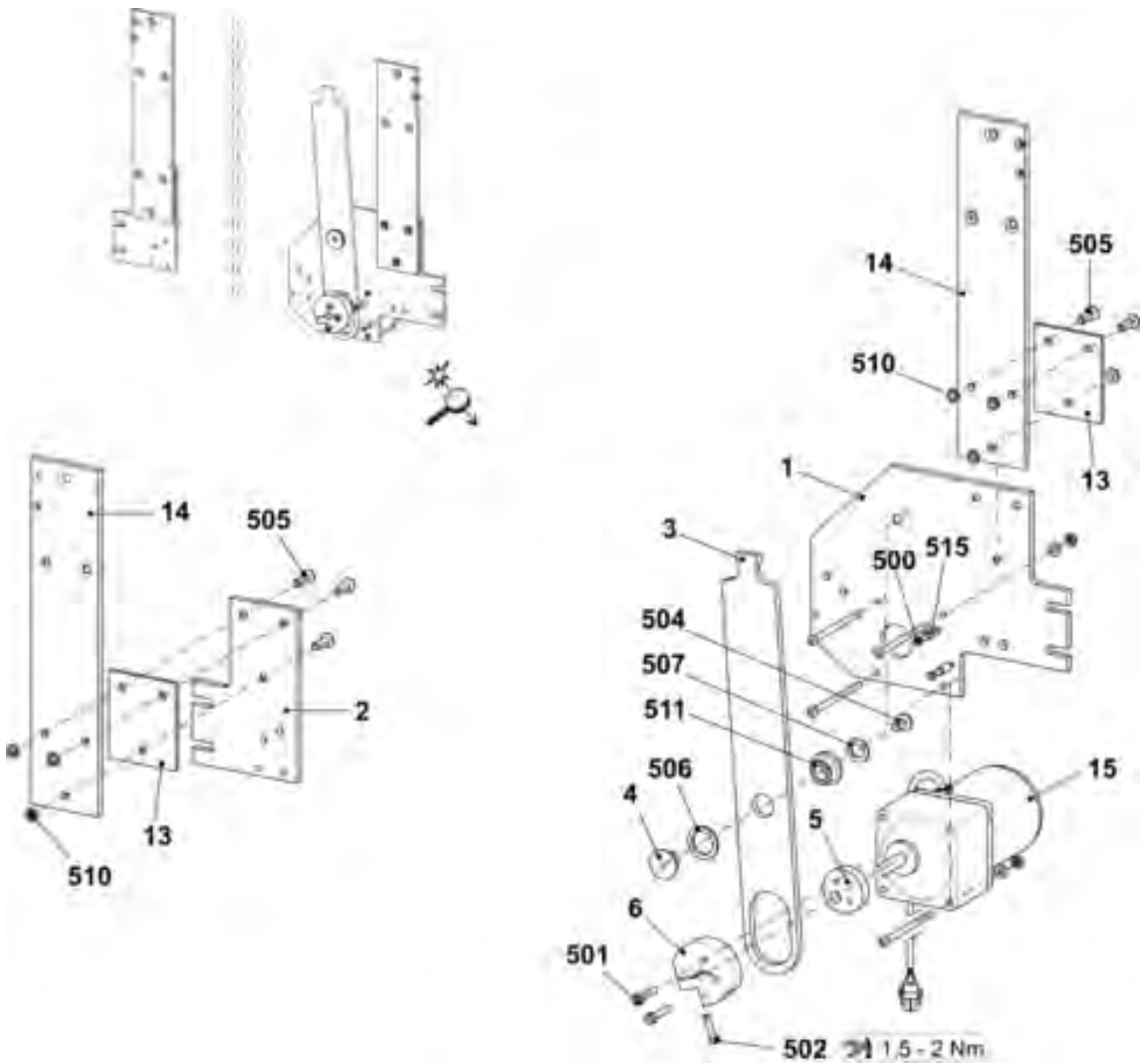
7.4.1 Comb unit

Pos	Designation	Id		Pos	Designation	Id
Σ	Comb unit					
	E5 E2,5.2 E2,5.2m.4L	253 948		8	Cross slider	251 701
	E7 E7m.5 E3,5.2 E3,5.2m.4L	252 622		9	Cover rail	251 702
1	Hook bed			10	Plunger	205 678
	E5 E2,5.2 E2,5.2m.4L	251 704		11	Switching lever complete	240 060
	E7 E7m.5 E3,5.2 E3,5.2m.4L	251 705		15	Stabilizer	251 697
2	Closer E3-8	230 105		500	Cap screw M4x30	023 290
3	BodyE3-8	230 093		502	Countersunk head screw M5x12	023 340
4	Cover rail	251 696		504	Hexagon nut M4-8	023 046
5	Hook slider			505	Hexagon nut M5-04	020 854
	E5 E2,5.2 E2,5.2m.4L	251 710		508	Washer5	020 871
	E7 E7m.5 E3,5.2 E3,5.2m.4L	251 708		510	Cap screw M4x35	023 550
7	Collar bolt complete	211 036		511	Circlip	022 774



7.4.2 Switching lever comb take-down

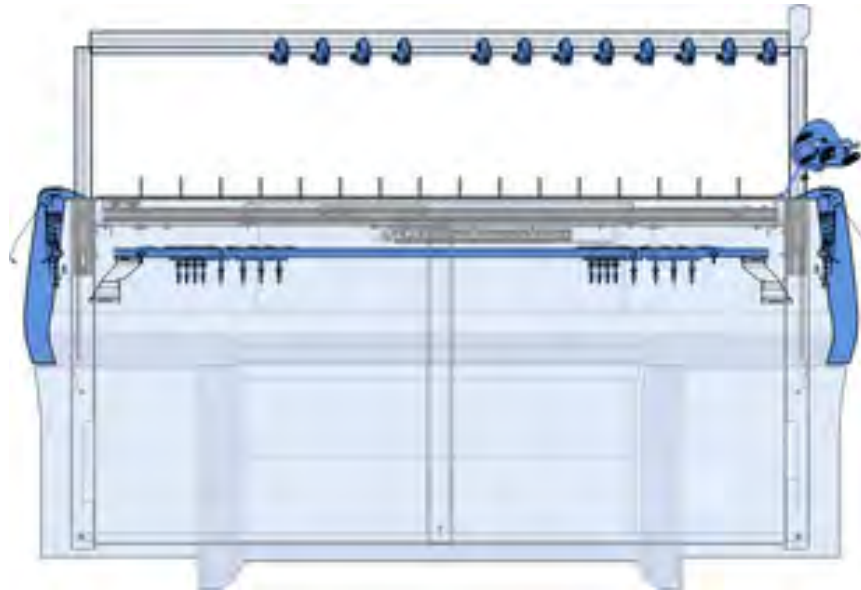
Pos	Designation	ID		Pos	Designation	ID
Σ	Switching lever complete	240 060		500	Cap screwM3x25	023 093
1	Screw-on plate on the right	240 058		501	Cap screwM4x20	023 171
2	Screw-on plate on the left	240 059		502	Cap screwM4x16	023 123
3	Lever	215 228		504	Pan-head screw M6x12	023 435
4	Bearing bolt	215 675		505	Pan-head screw M5x16	023 417
5	Eccentric	205 681		506	Shim ring 16x22x2	023 449
6	Tension cam	215 287		507	Shim ring 10x16x1	023 260
13	Intermediate plate	213 980		510	Hexagon nut M5	020 854
14	Holding plate	218 977		511	Collar bearing 10x16x22	022 841
15	Motor comb hook with 2 phases	244 635		515	Threaded spacer	210 488



7.4 Comb take-down in the middle

Notes:

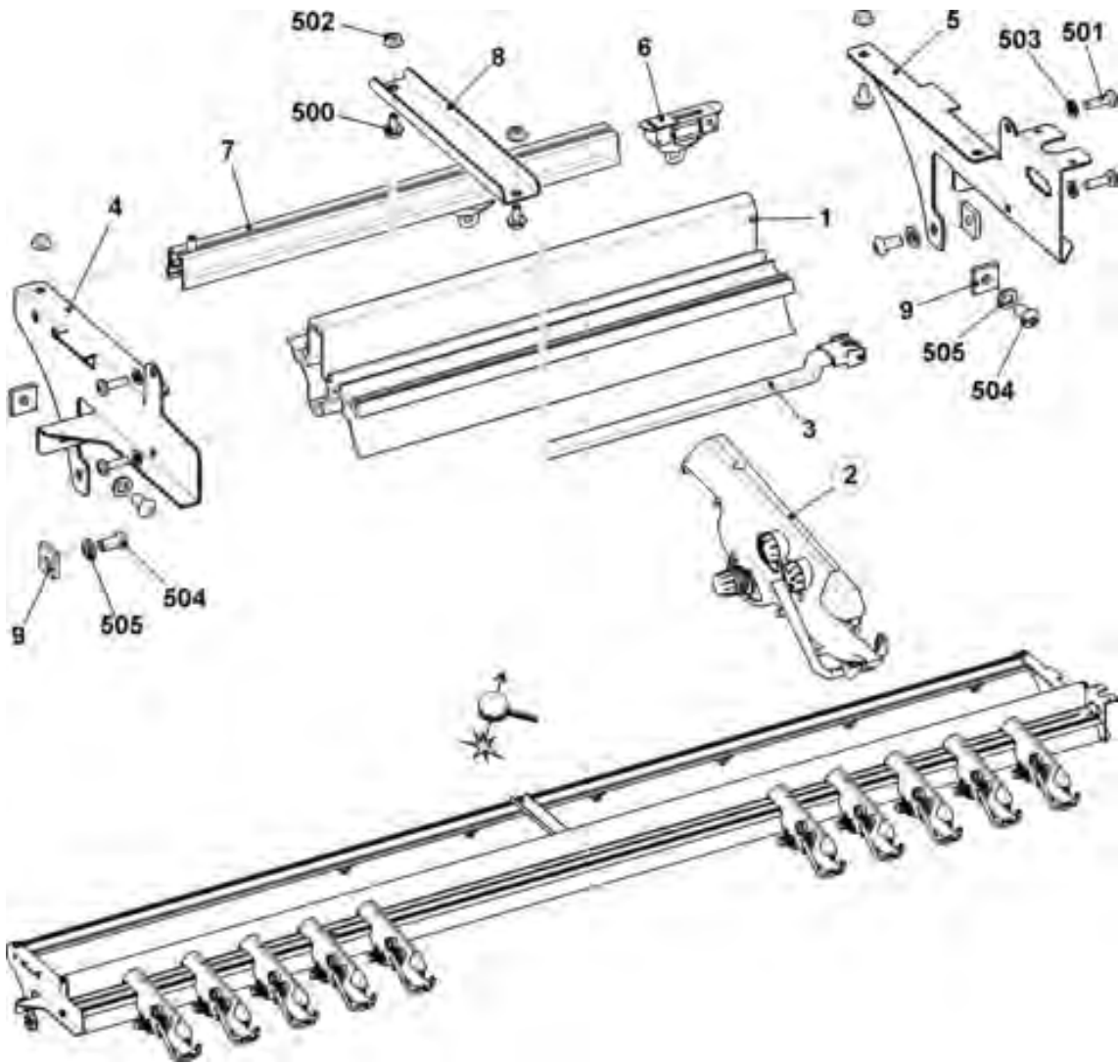
8 Yarn delivery device



8.1 Yarn guide system

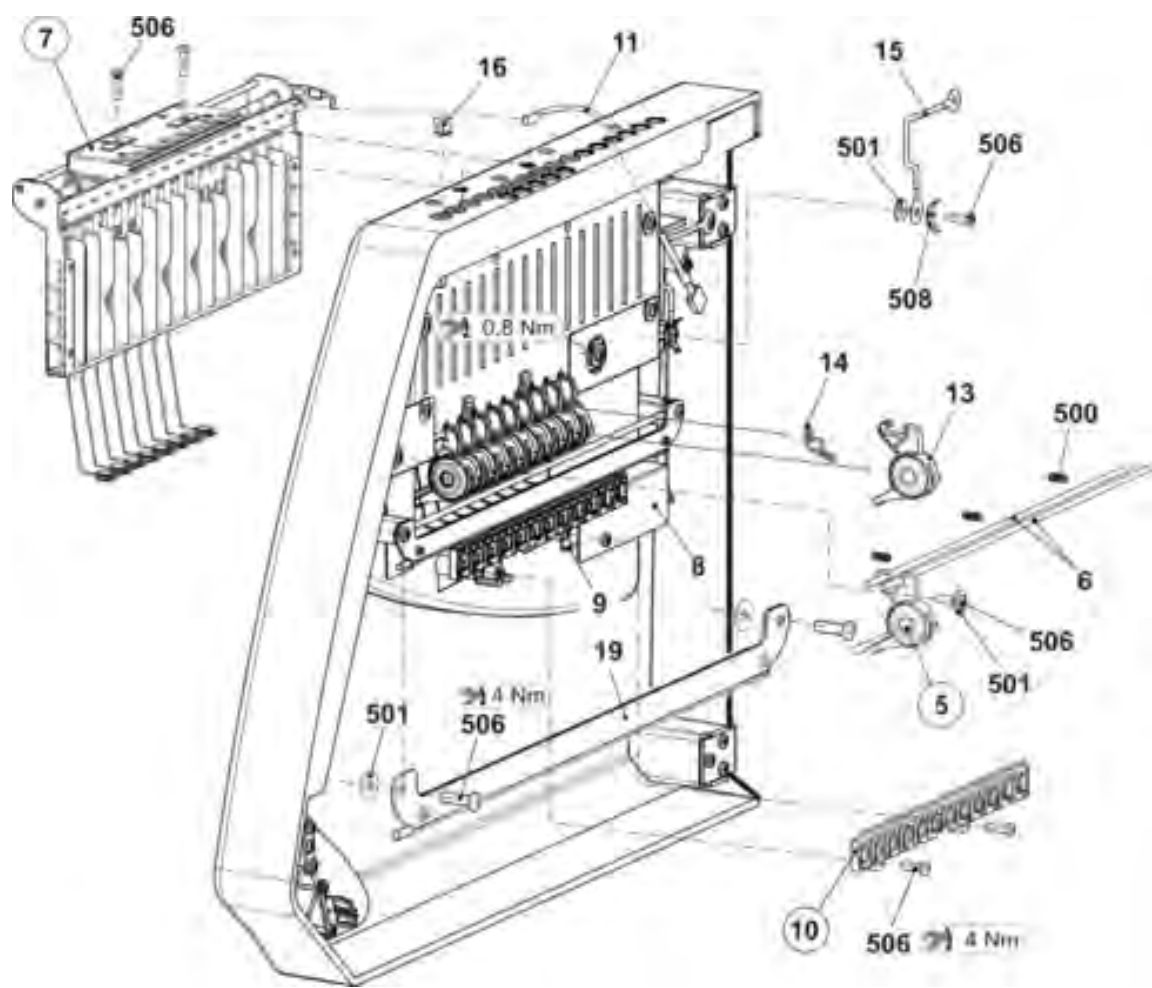
8.1 Yarn guide system

Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn guide system 10 FKE 45	262 296		8	Support	243 792
1	Support	251 628		9	Slot nut	228 851
2	Yarn control device(FKE)	237 124		500	Self-locking screw M6x12	023 415
3	Connection cable FKE E2	251 653		501	Screw M6x20	023 721
4	Support on the left	251 630		502	Serrated nut M6-10	023 414
5	Support on the right	251 629		503	Washer6	022 431
6	Yarn guide bracket complete	241 581		504	Pan-head screw M8x16	023 113
7	Yarn guide bar	251 631		505	Serrated lock washer	023 388



8.2 Left yarn guide

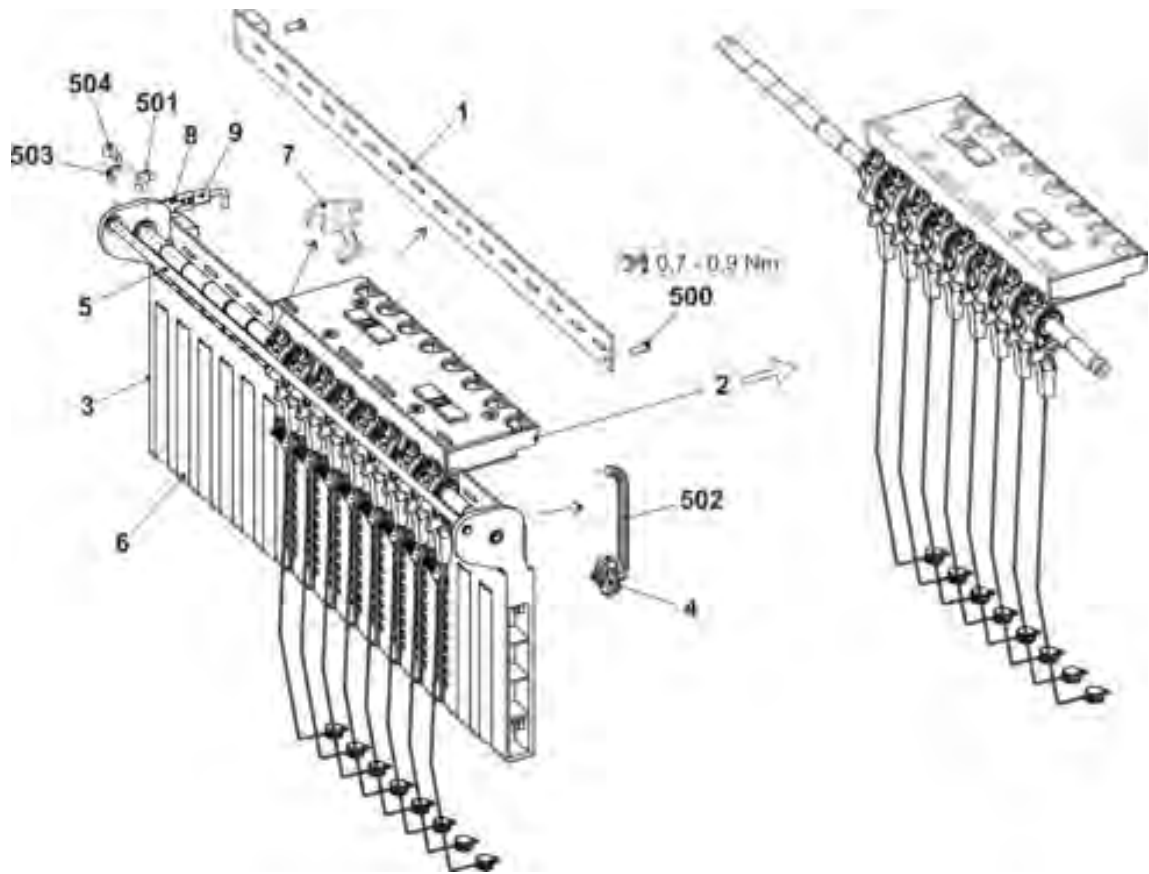
Pos	Designation	Id	Pos	Designation	Id
Σ	Safety door on the left complete				
	E5 E7m.5 E3,5.2 E3,5.2m.4L E2,5.2 E2,5.2m.4L	256 904	11	Connection cable yarn tensionerokc	240 808
	E7	256 905	13	Yarn brake not adjustable	244 356
5	Yarn brake complete	244 347	14	Clamping bow	244 409
6	Wave	241 318	15	Ground cable	244 404
7	Yarn tensioner on the left complete		19	Stop bar on the left complete	258 454
	E5 E7m.5 E3,5.2 E3,5.2m.4L E2,5.2 E2,5.2m.4L	256 897	16	Ceramic eyelet	240 640
	E7 E6.2	256 898	500	Compression spring 0,90x5,40x13,60	241 360
8	Cover on the left	256 901	501	Washer6	022 537
9	Wire bow on the left	241 370	506	Screw KB 60x20	237 682
10	Yarn deflector on the left	256 902	508	Flat connector 2x45° M6	243 117



8.2 Left yarn guide

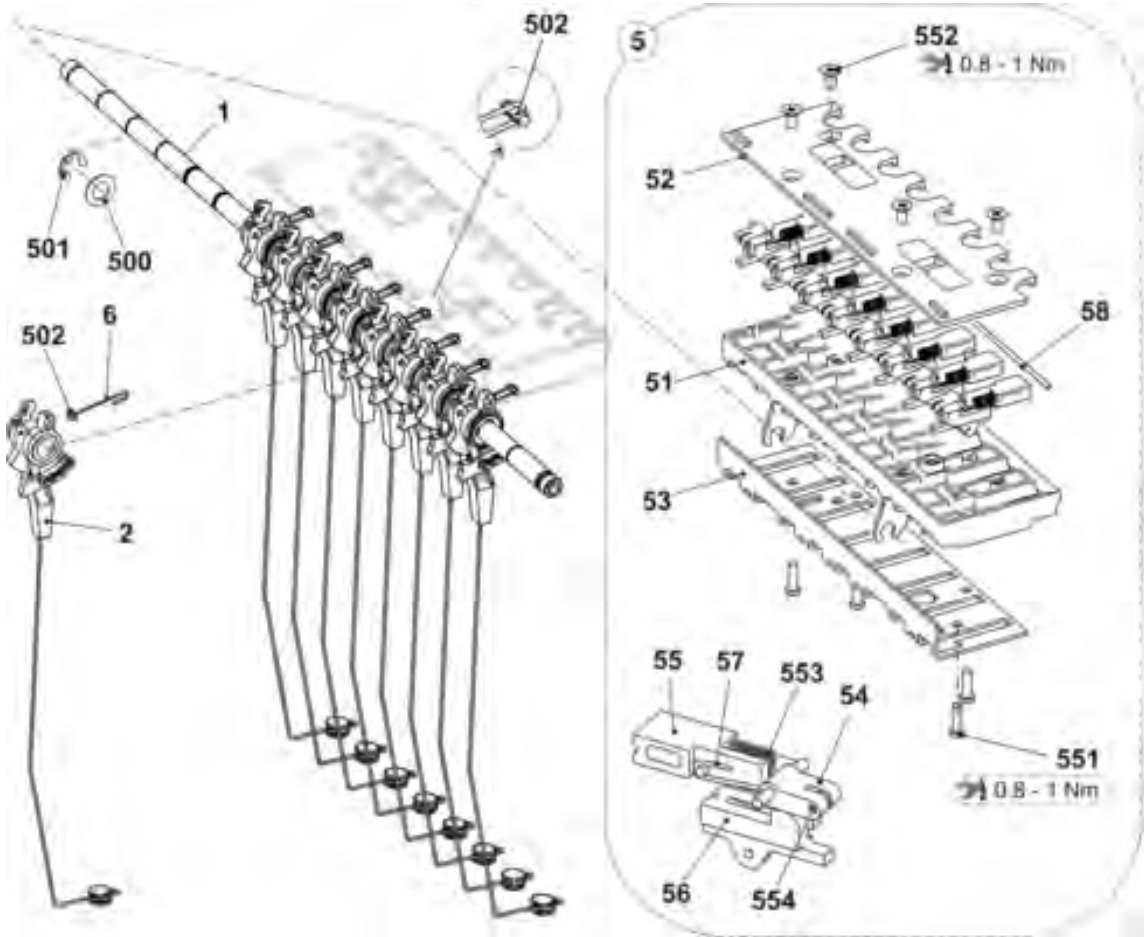
8.2.1 Left yarn tensioner

Pos	Designation	ID		Pos	Designation	ID
Σ	Yarn tensioner on the left complete			7	Spacer	242 048
	E5 E7m.5 E3,5.2 E3,5.2m.4L E2,5.2 E2,5.2m.4L	256 897		8	Grounding plate of tension axle	243 121
	E7 E6.2	256 898		9	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	256 892		501	Circlip	021 022
3	Housing	241 367		502	Tension spring 5,05x0,55x53 E5 E7m.5 E3,5.2 E3,5.2m.4L E2,5.2 E2,5.2m.4L	023 502
					Tension spring 4,9x0,5x53 E7	023 503
4	Slider	241 694		503	Circlip	021 020
5	Stop point	241 368		504	Countersunk screw M4x10	241 914
6	Border	242 268				



8.2.1.1 Left tension axle

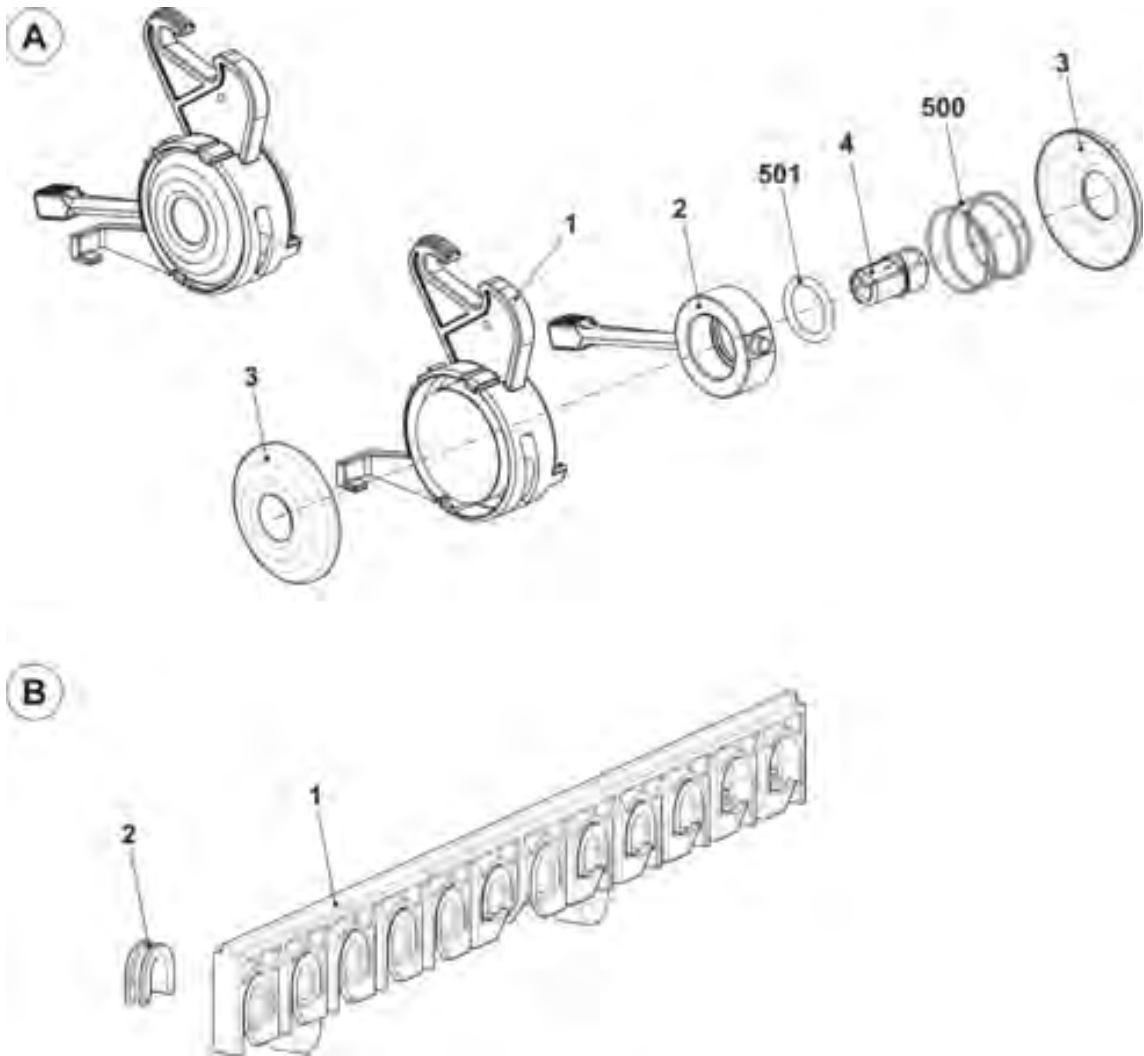
Pos	Designation	ID		Pos	Designation	ID
Σ	Tension axle on the left complete E5-8	256 892		5	Thread clamp AKF	238 695
1	Axle	243 107		51	HousingAKF	238 689
2	Tension arm pre-assembledE3-8	259 448		52	Cover AKF	237 926
6	Wire bow	238 694		53	Sheet metal at the bottom (housing AKF)	240 719
500	Shim ring 8x14x0,5	023 501		54	Lever AKF	238 692
501	Circlip	021 022		55	Pressure piece AKF	238 690
502	Grooved pin 2x6	243 172		56	SliderAKF	238 691
				57	Wire bow	238 694
				58	Wire	237 940
				551	Screw KB 35x12	237 681
				552	Screw KB 40x8	236 227
				553	Compression spring 0,30x4,50x18,50	241 437
				554	Grooved pin 2x6	243 172



8.2 Left yarn guide

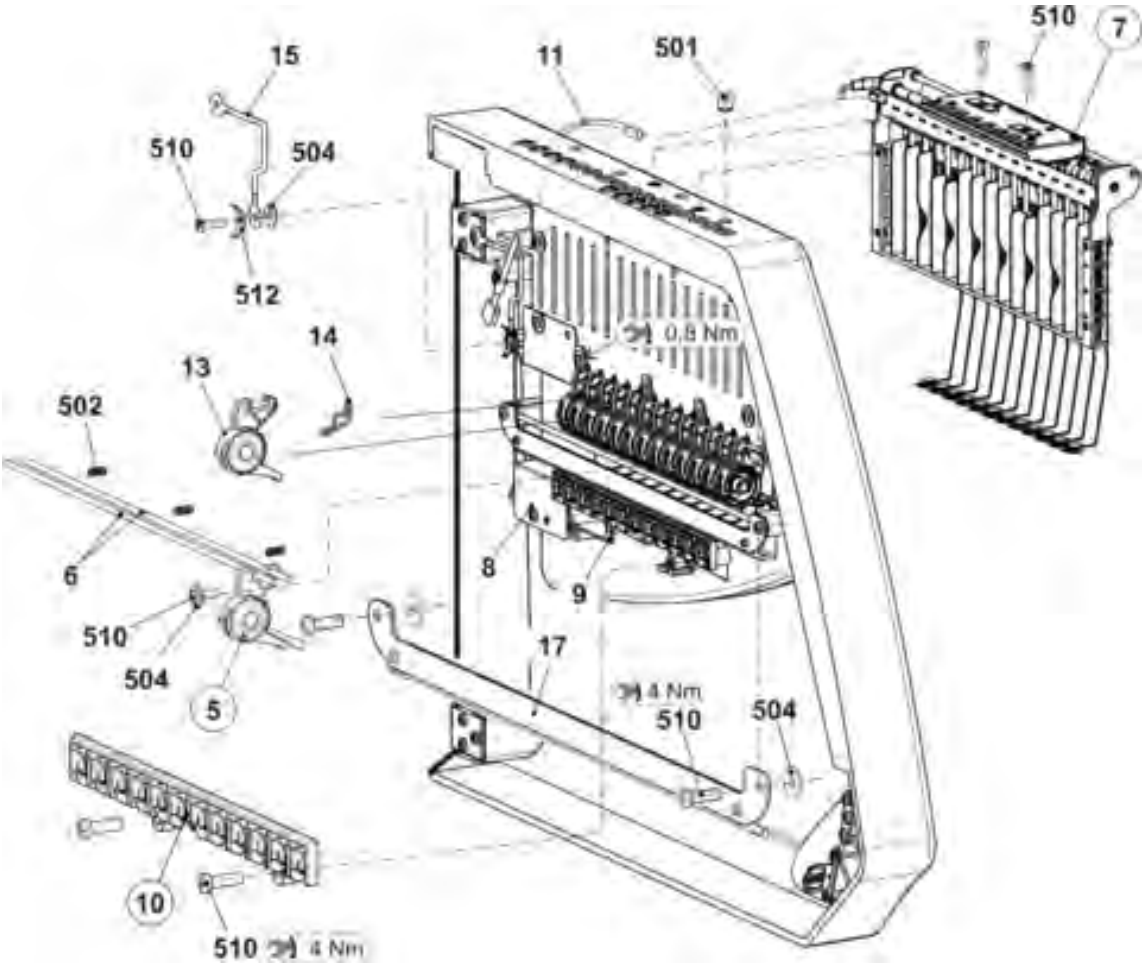
8.2.2 Yarn brake and yarn deflector on the left

Pos	Designation	Id		Pos	Designation	Id
A	Yarn brake complete	244 347		B	Yarn deflector	256 902
1	Support	240 607		1	Support of 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				



8.3 Right yarn guide

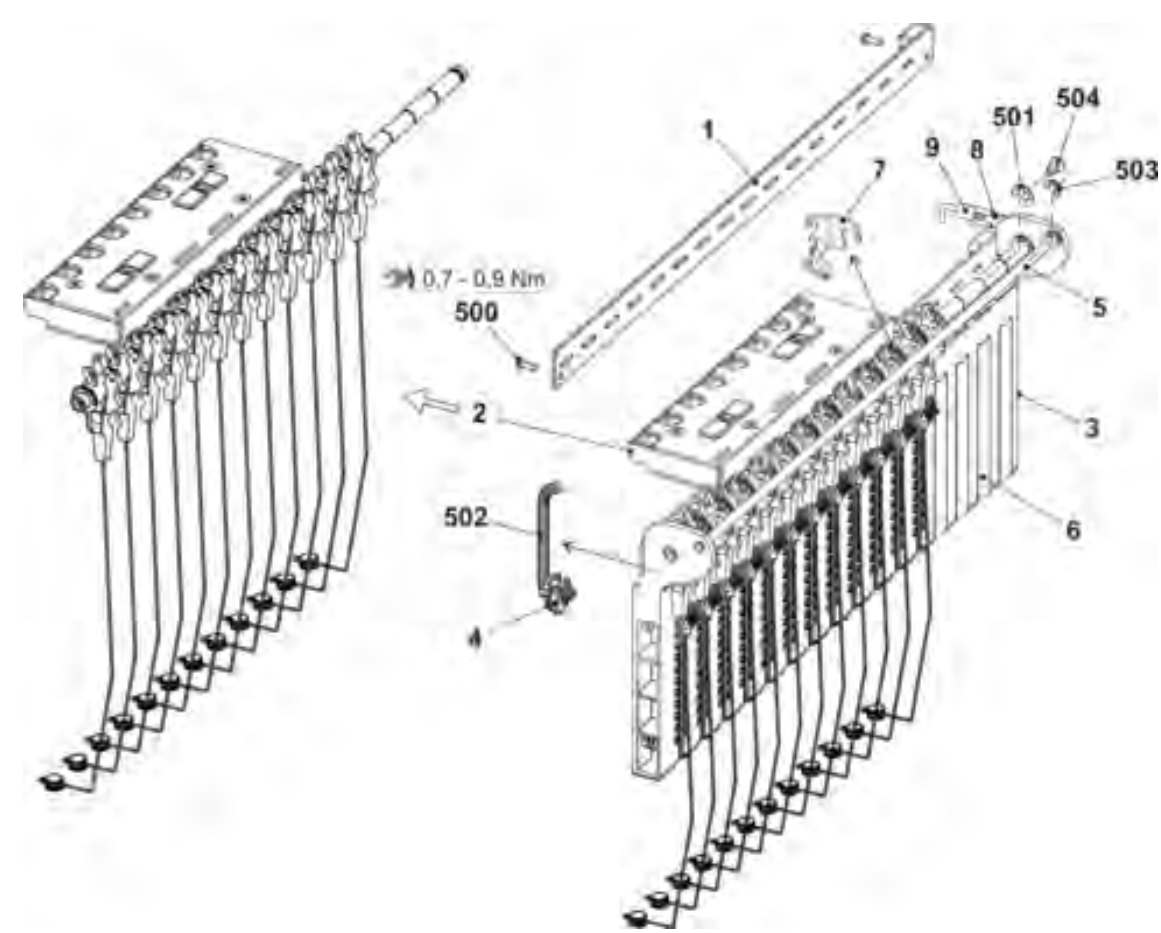
Pos	Designation	Id	Pos	Designation	Id
Σ	Safety door on the right complete E3-5	241 274			
5	Yarn brake complete	244 347	14	Clamping bow	244 409
6	Wave	241 318	15	Ground cable	244 404
7	Yarn tensioner on the right complete E3-5	241 382	17	Stop bar on the right complete	258 562
8	Cover	240 783	501	Ceramic eyelet	240 640
9	Wire bow on the right	241 369	502	Compression spring 0,90x5,40x13,60	241 360
10	Yarn deflector	242 011	504	Washer	022 537
11	Connection cable yarn tensionerokc	240 808	510	Screw KB 60x20	237 682
13	Yarn brake not adjustable	244 356	512	Flat connector 2x45° M6	243 117



8.3 Right yarn guide

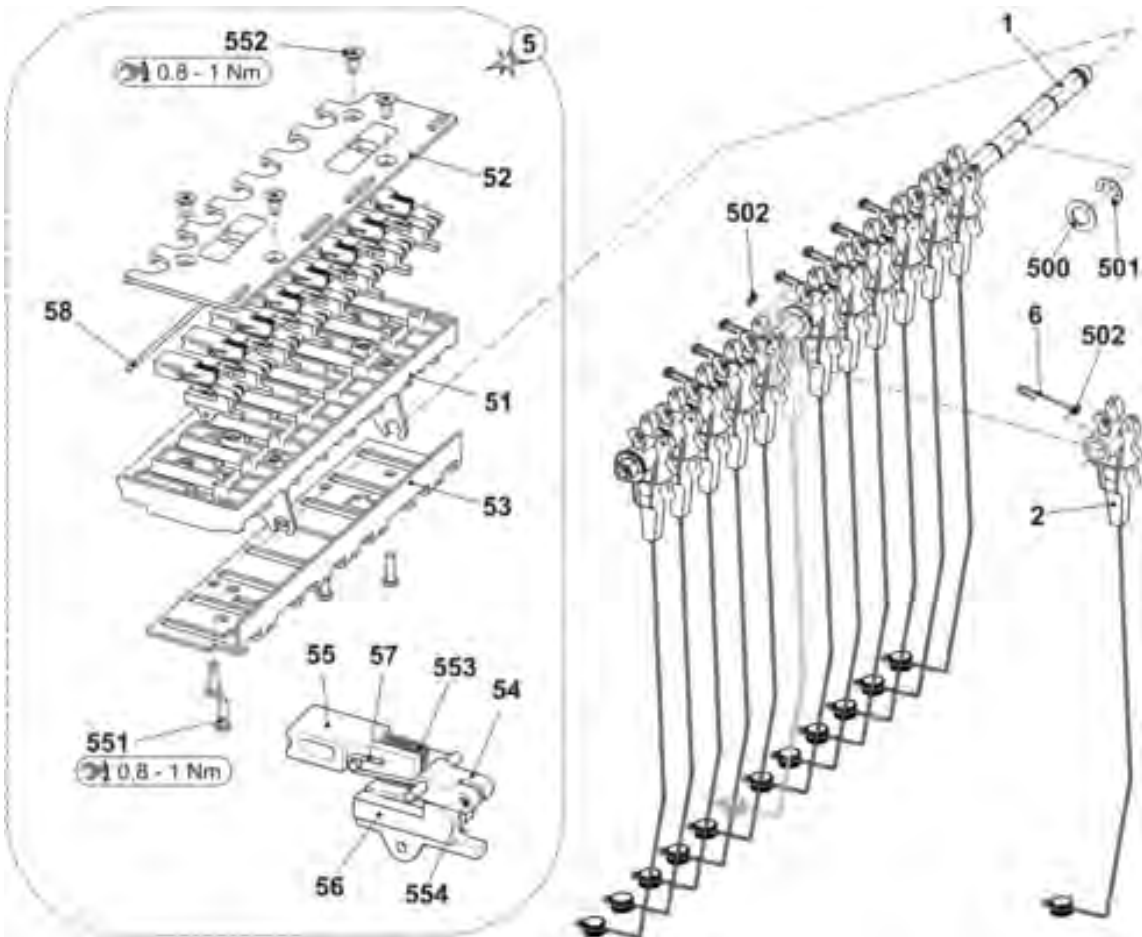
8.3.1 Right yarn tensioner

Pos	Designation	ID		Pos	Designation	ID
Σ	Yarn tensioner on the right complete E3-5	241 382				
1	Card yarn tensioner 16-fold on the right	241 346		8	Grounding plate of tension axle	243 121
2	Tension axle on the right complete	241 379		9	Ground cable yarn tensioner okc	243 105
3	Housing	241 367		500	Screw KB 30x8	236 228
4	Slider	241 694		501	Circlip	021 022
5	Stop point	241 368		502	Tension spring 5,05x0,55x53	023 502
6	Border	242 268		503	Circlip	021 020
7	Spacer	242 048		504	Countersunk screw M4x10	241 914



8.3.1.1 Right tension axle

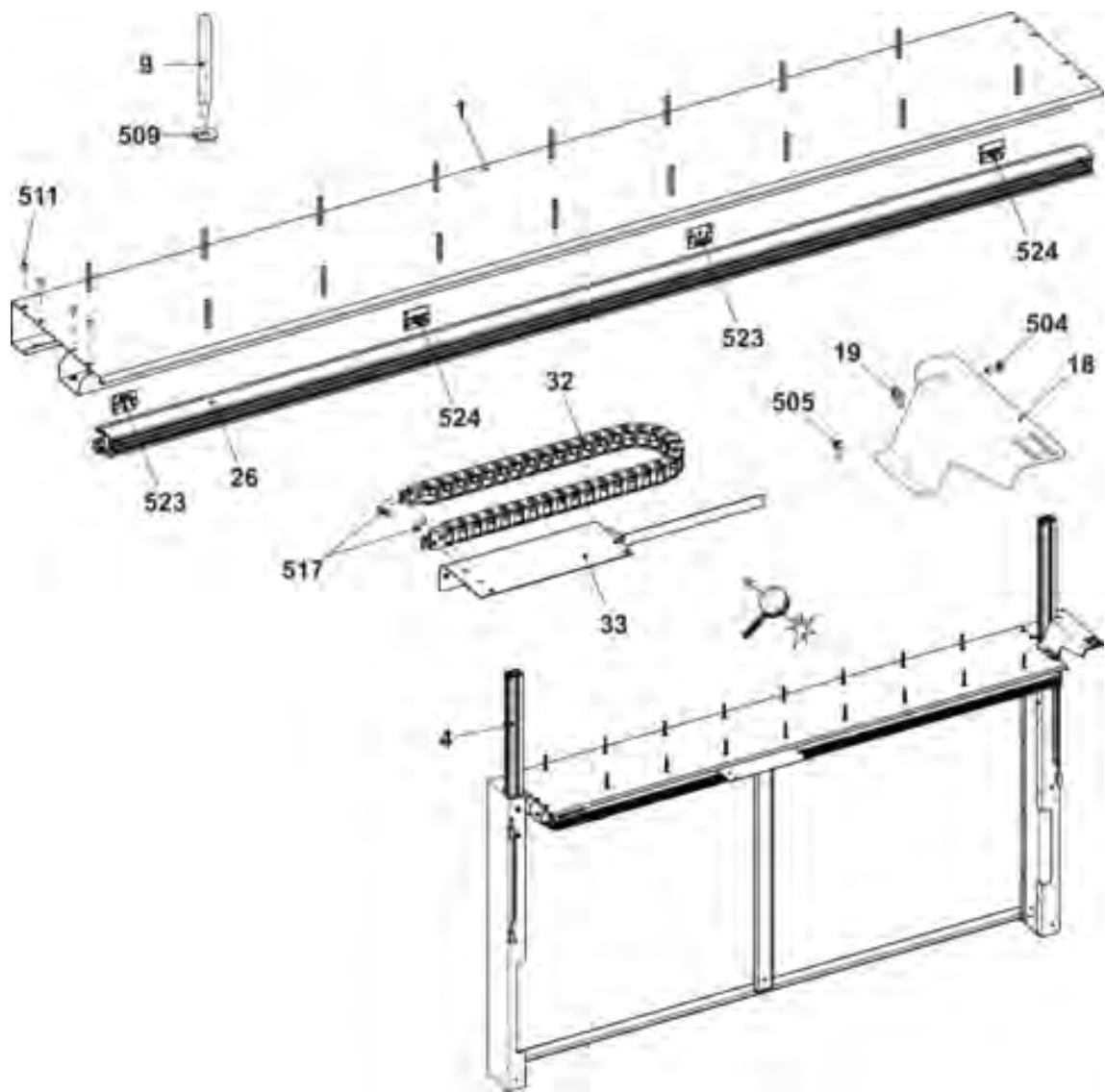
Pos	Designation		ID		Pos	Designation		ID
Σ	Tension axle on the right completeE3-8		241 379		56	SliderAKF		238 691
1	Axle		243 107		57	Wire bow		238 694
2	Tension arm pre-assembledE3-8		259 448		58	Wire		237 940
6	Wire bow		238 694		551	Screw KB 35x12		237 681
5	Thread clamp AKF		238 695		552	Screw KB 40x8		236 227
	51	HousingAKF	238 689		553	Compression spring 0,30x4,50x18,50		241 437
	52	Cover AKF	237 926		554	Grooved pin 2x6		243 172
	53	Sheet metal at the bottom (housing AKF)	240 719		500	Shim ring 8x14x0,5		023 501
	54	Lever AKF	238 692		501	Circlip		021 022
	55	Pressure piece AKF	238 690		502	Grooved pin 2x6		243 172



8.4 Bobbin board

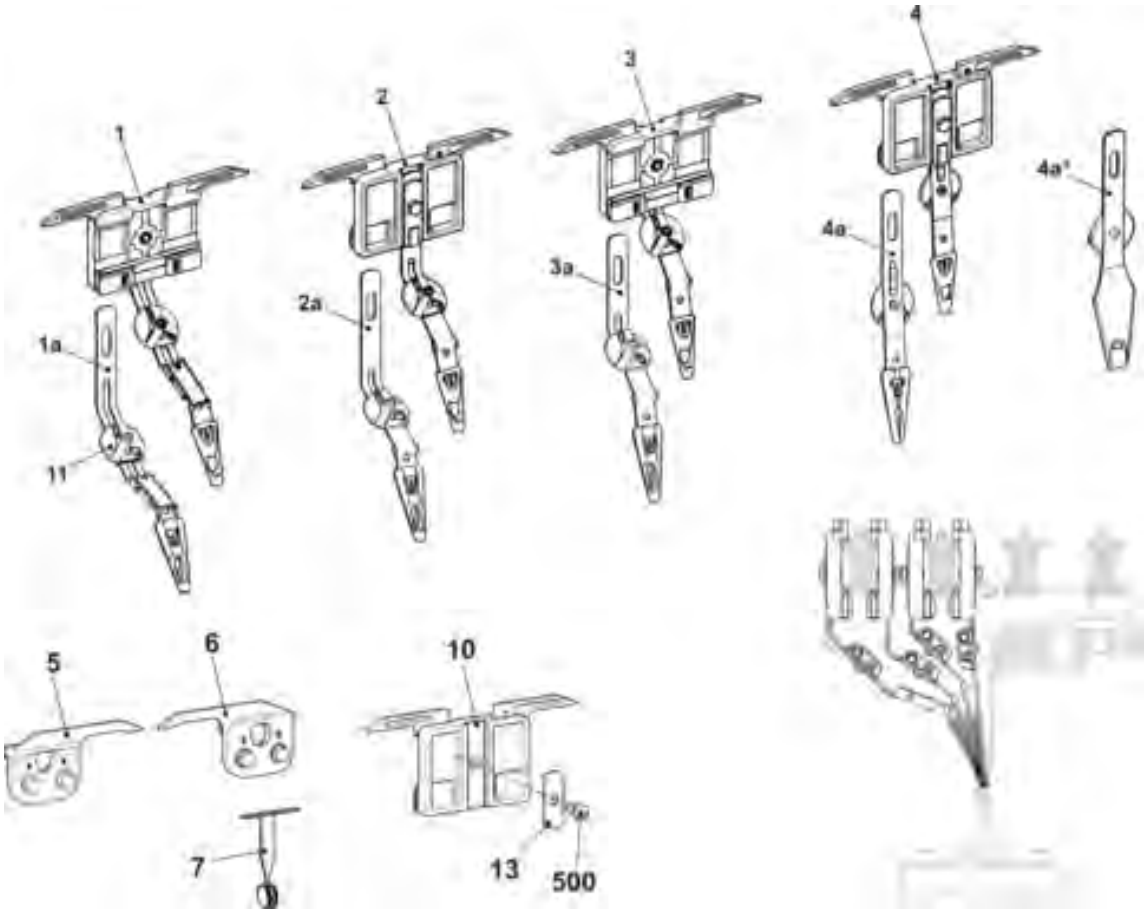
8.4 Bobbin board

Pos	Designation	Id		Pos	Designation	Id
Σ	Table complete 45"	256 933		33	Angle complete	253 887
1	Table	260 588		504	Pan-head screw M8x18	251 331
4	Support element	228 594		505	Pan-head screw M8x16	023 113
9	Positioning pin	204 819		509	Washer	020 901
18	Support of right feed wheel	250 967		511	Pan-head screw M8x10	241 930
19	Slot nut	228 851		517	Cap screw M6x8	023 411
26	Guide rail at the top	256 817		523	Magnet switches safety door	219 983
32	Energy chain	253 888		524	Magnet switches safety door	220 159



8.5 Yarn guide complete

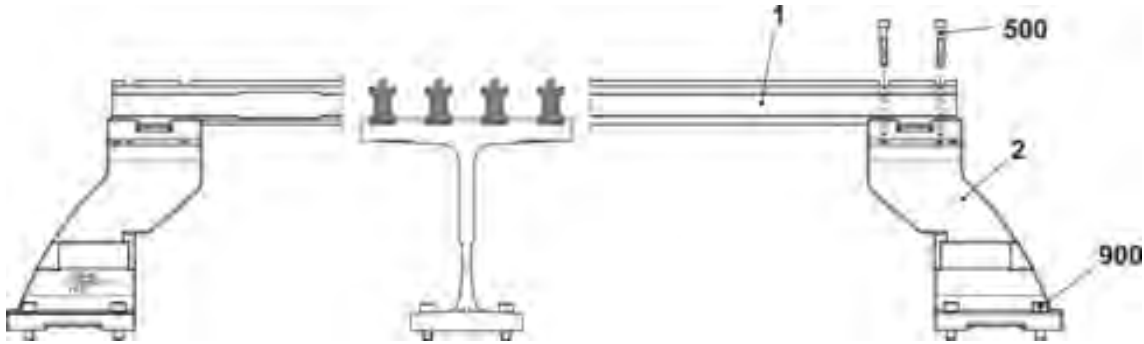
Pos	Designation	Track	ID		Pos	Designation	ID
Σ	Yarn guide complete						
	E5 E7m.5 E2,5.2 E3,5.2 E2,5.2m.4L E3,5.2m.4L		253 830				
	E7 E6.2		253 831				
E5 E7m.5 E2,5.2 E3,5.2 E2,5.2m.4L E3,5.2m.4L				E5 E7m.5 E2,5.2 E3,5.2 E2,5.2m.4L E3,5.2m.4L			
1	FF carriage complete E5	1+8	243 935		1a	FF bow 1+8 complete E5	212 990
2	FF carriage complete E5	2+7	243 934		2a	FF bow 2+7 complete E5	212 992
3	FF carriage complete E5	3+6	243 933		3a	FF bow 3+6 complete E5	212 991
4	FF carriage complete E5	4+5	243 932		4a	FF bow 4+5 complete E5	212 993
E7					E7		
1	FF carriage complete E7-8	1+8	243 939		1a	FF bow 1+8 complete E7-8	212 892
2	FF carriage complete E7-8	2+7	243 938		2a	FF bow 2+7 complete E7-8	212 914
3	FF carriage complete E7-8	3+6	243 937		3a	FF bow 3+6 complete E7-8	212 925
4	FF carriage complete E7-8	4+5	243 936		4a	FF bow 4+5 complete E7-8	212 910
5	Limiter on the left complete		244 099		11	Yarn guide star complete	209 257
6	Limiter on the right complete		244 098		13	Shim	213 035
7	Slider with eyelet		230 709		500	Hexagon screw M5x10	020 351
10	FF carriage complete		243 062		4a*	FF bow 4+5 complete E3-4 (E2,5.2m.4L)	212 910



8.6 Bar unit

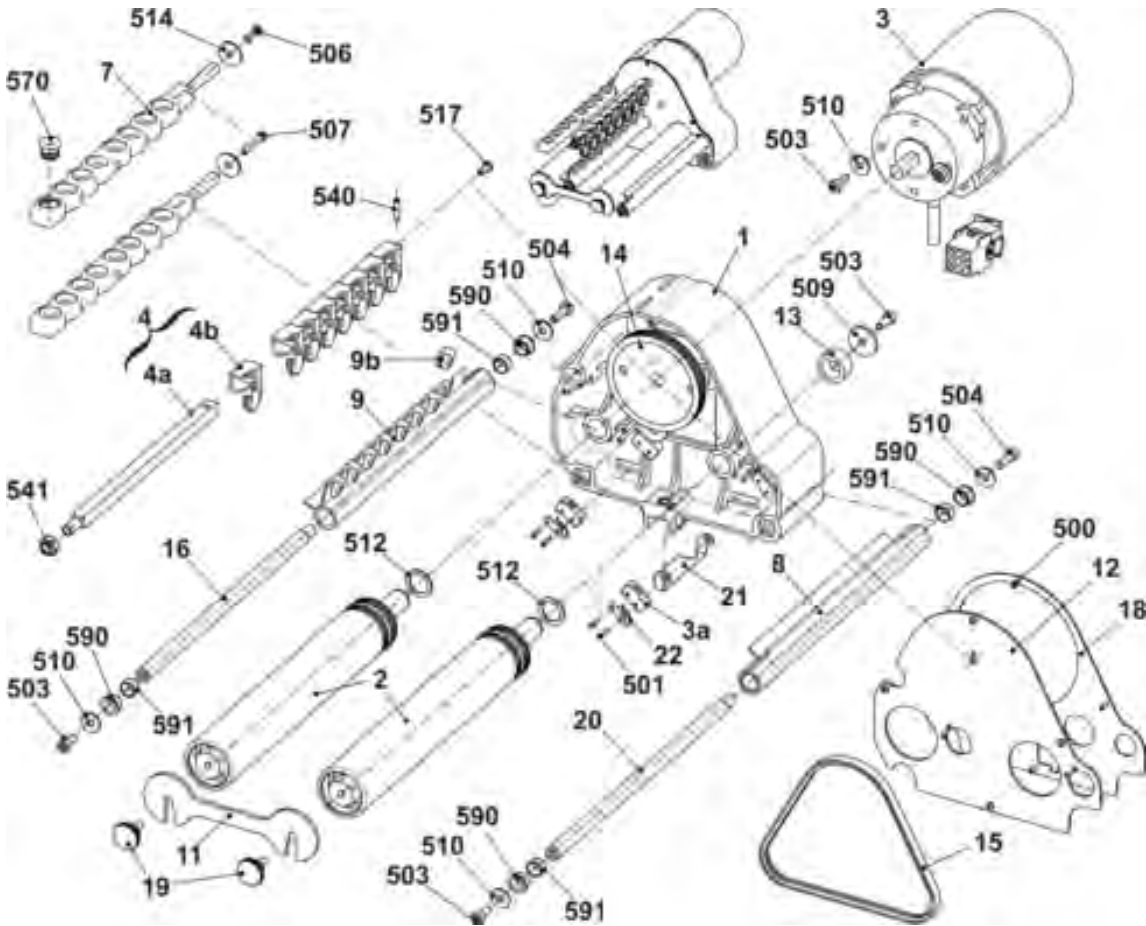
8.6 Bar unit

Pos	Designation	ID		Pos	Designation	ID
Σ	Bar unit					
1	Yarn carrier rail	255 463		500	Cap screwM6x35	020 139
2	FF support	252 010		900	Cap screwM8x25	020 142



8.7 Right friction feed wheel

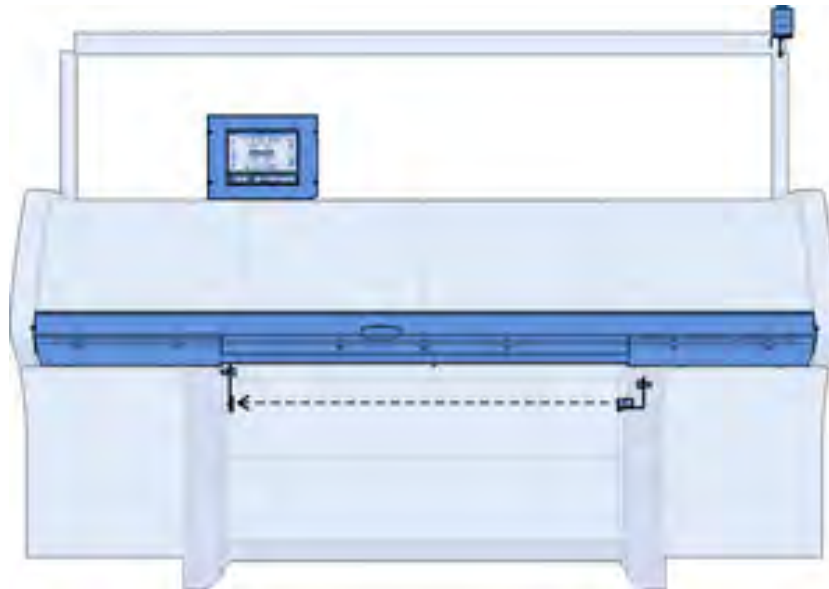
Pos	Designation		Id	Pos	Designation		Id
Σ	Friction feed wheel on the right complete		243 572	14	V-ribbed belt pulley		221 268
1	Housing		240 368	15	Ribbed V-belt V3J 406		206 927
2	Friction roller complete		231 704	16	Rod		221 319
3	Three-phase AC motor complete		219 800	18	Cover		230 758
	3a	Microswitch	008 664	19	Knurled screw		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 KB30x8		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	Washer5,3x22x2,5		023 219
	590	Slide bearing	023 627	510	Washer5		020 901
	591	Guide piece	259 453	512	Shim ring 15x21x1		023 216
11	Bracket		221 316	514	Washer4,3		020 908
12	Cover		251 098	517	Pan-head screw M4x8		023 579
13	Bush		221 391				



8.7 Right friction feed wheel

Notes:

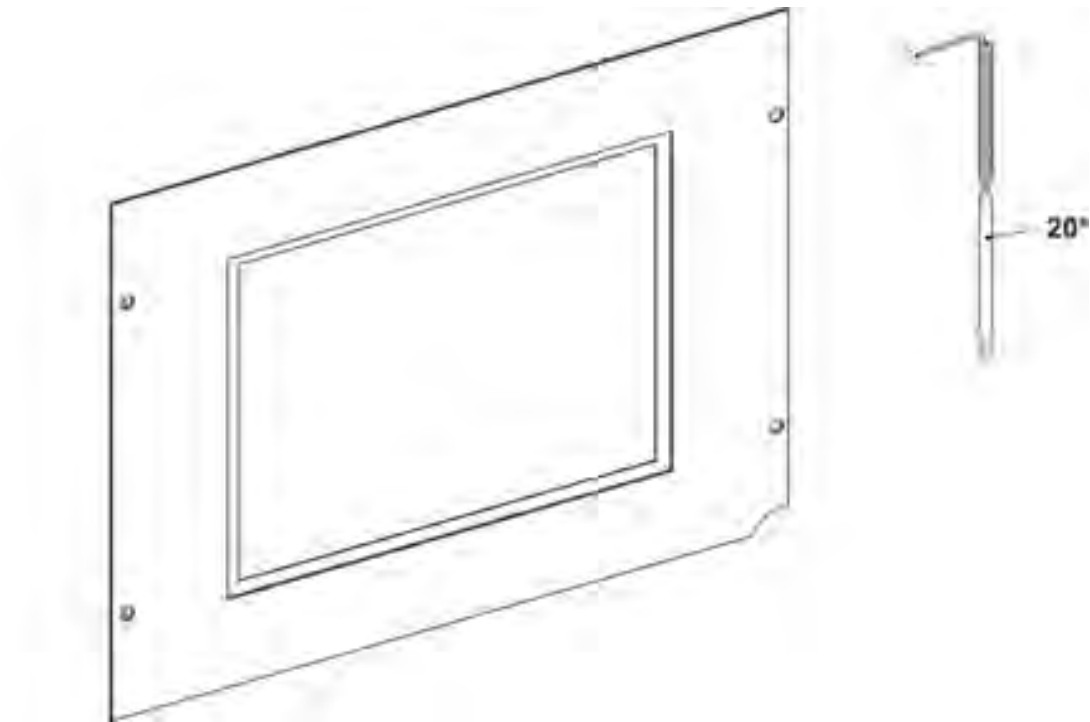
9 Operation and control



9.1 Input unit

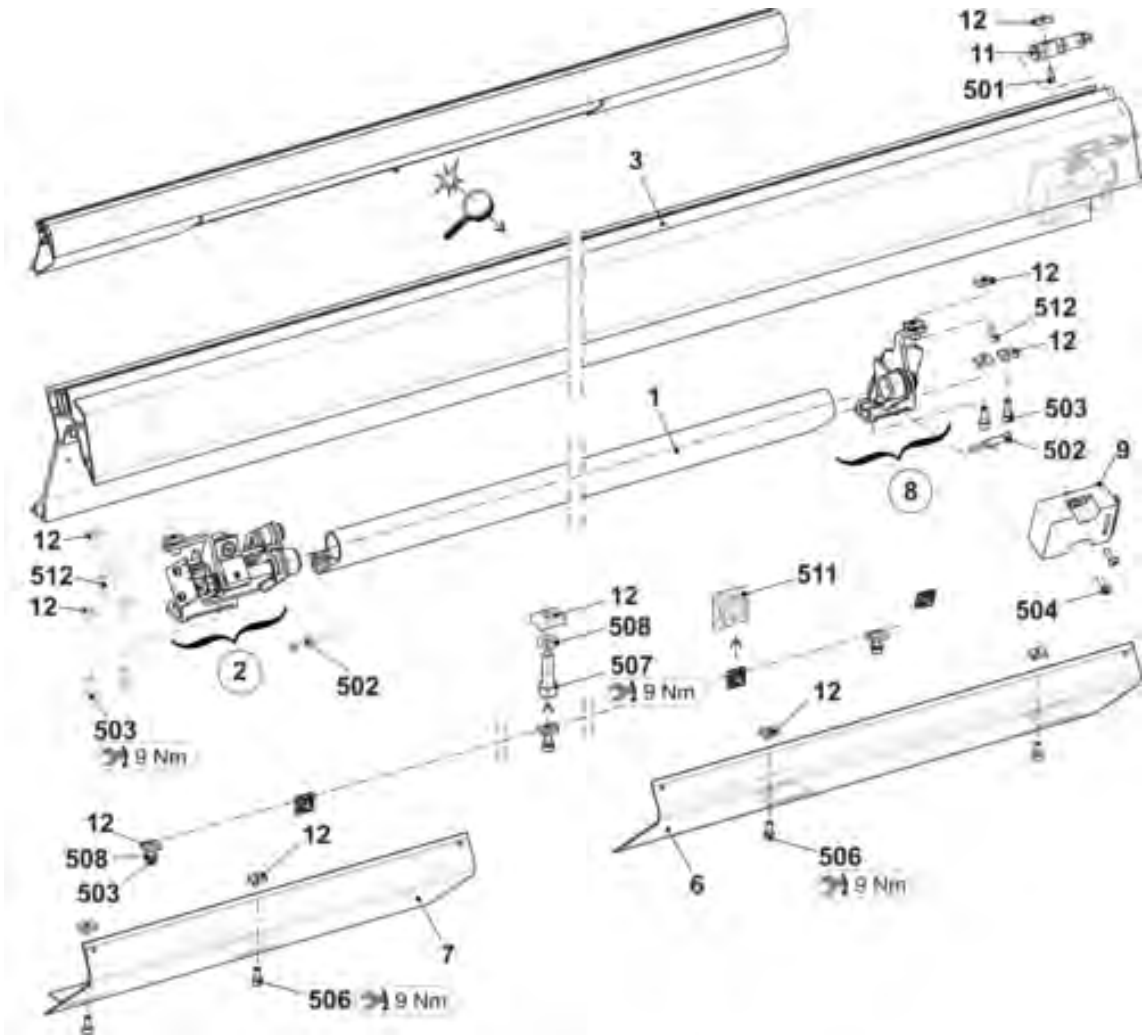
9.1 Input unit

Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Display touch complete	250 298		20*	Pencil touch	242 812



9.2 Starting device

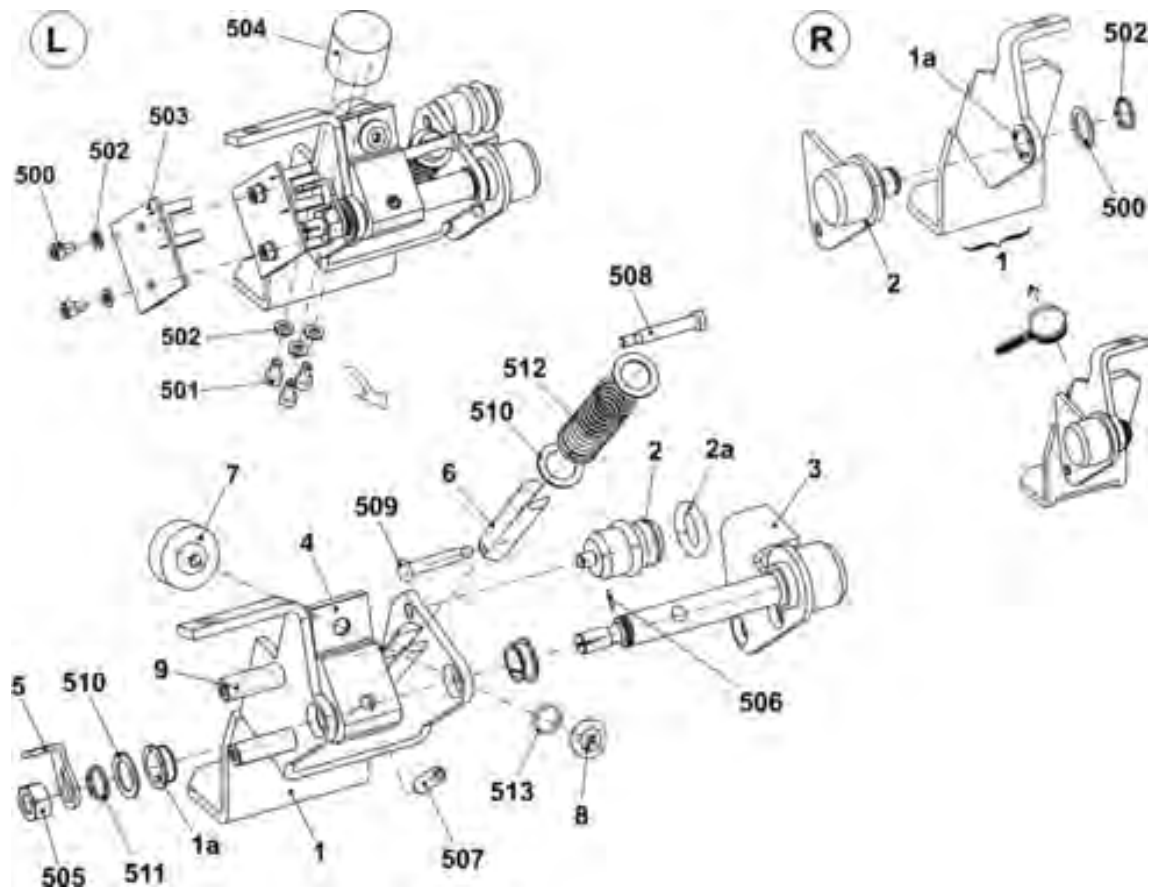
Pos	Designation	Id		Pos	Designation	Id
Σ	Starting device	256 914		501	Cap screwM4x10	023 136
1	Engaging rod	251 686		502	Screw M6x25	023 510
2	Bearing on the left complete	250 071		503	Cap screwM6x16	020 135
3	Guide rail at the bottom pre-assembled	256 915		504	Pan-head screwM5x14	023 588
6	Cover plate on the right	251 691		506	Cap screwM6x12	020 134
7	Cover plate on the left	251 690		507	Cap screwM6x20-12.9	020 136
8	Bearing on the right complete	252 964		508	Washer6	020 872
9	Cable switch safety doors	223 350		511	Adhesive base	243 055
11	Locating bolt	219 107		512	Cap screwM6x10	023 690
12	Slot nut	225 099		513	Pan-head screwM5x10	023 247



9.2 Starting device

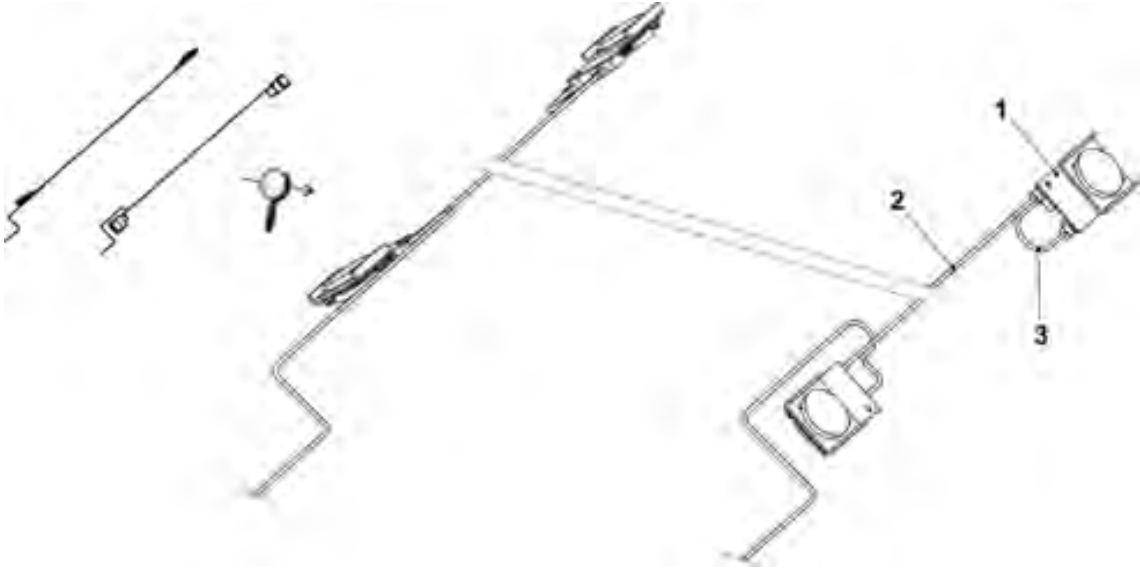
9.2.1 Bearing of the engaging rod

Pos	Designation	ID	Pos	Designation	ID
L	Bearing on the left complete	250 071			
1	Bearing on the left	245 218	505	Hexagon nut M8-6	020 838
1a	Clip bearing MCM 12-04	023 639	506	Dowel pin 1,5x8	236 923
2	Support of 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	Shim ring 12x18x1	023 315
5	Switch flag	245 220	511	Locking ring12x1	020 951
6	Spring mandrel	251 340	512	Compression spring 1,25x15x98,2	023 609
7	Disk	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 screwM4x8	022 501	1a	Clip bearing MCM 12-04	023 639
502	Shim ring 4x8x1	023 369	2	Shaft on the right	242 888
503	Card engaging	259 000	500	Shim ring 12x18x1	023 315
504	Adhesive magnet direct current	026 233	502	Locking ring12x1	020 951



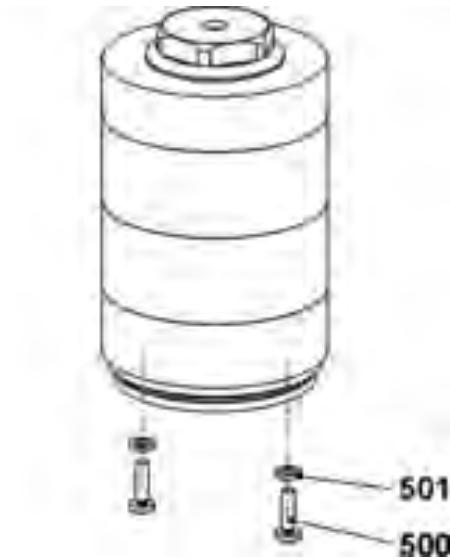
9.3 Shock stop motion

Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Shock stop motion complete	255 435				
1	Shock stop motion (Piezo)	220 011		3	End plug piezo sensor	220 053
2	Connecting cable piezo sensor	220 063				



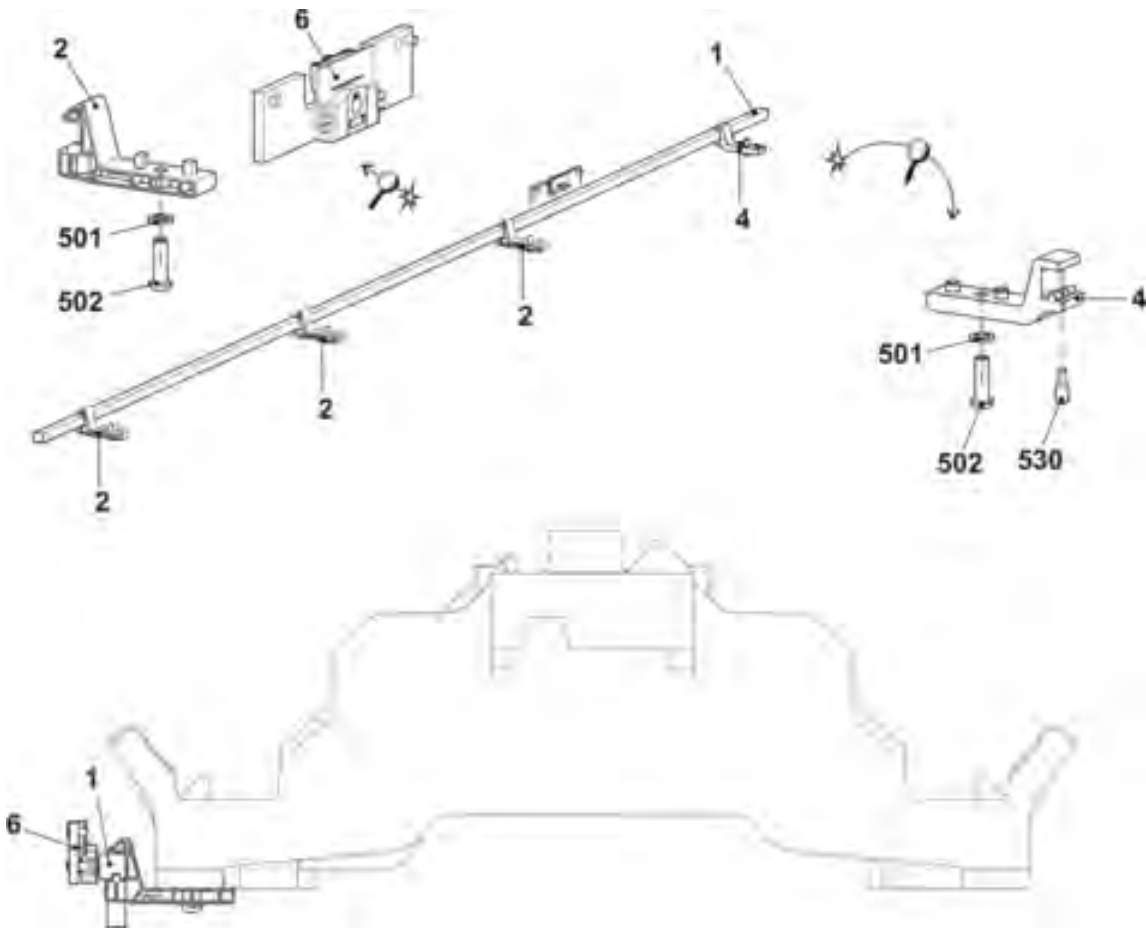
9.4 Signal light

Pos	Designation		Id		Pos	Designation		Id
Σ	Signal light LED		240 395					
	500	Pan-head screw M4x14	023 037					
	501	Serrated lock washer A4,3-FS	022 482					



9.5 Measuring device

Pos	Designation		Id		Pos	Designation		Id
Σ	Measuring device							
1	Measuring bar		258 309		6	Impulse sensor G L M complete		259 613
2	Guide		251 676		501	Washer6		020 881
4	Guide		240 672		502	Pan-head screw M6x20		241 603
	530	Setscrew	230 803		503	Screw 60x20		243 625



9.5 Measuring device

Notes:

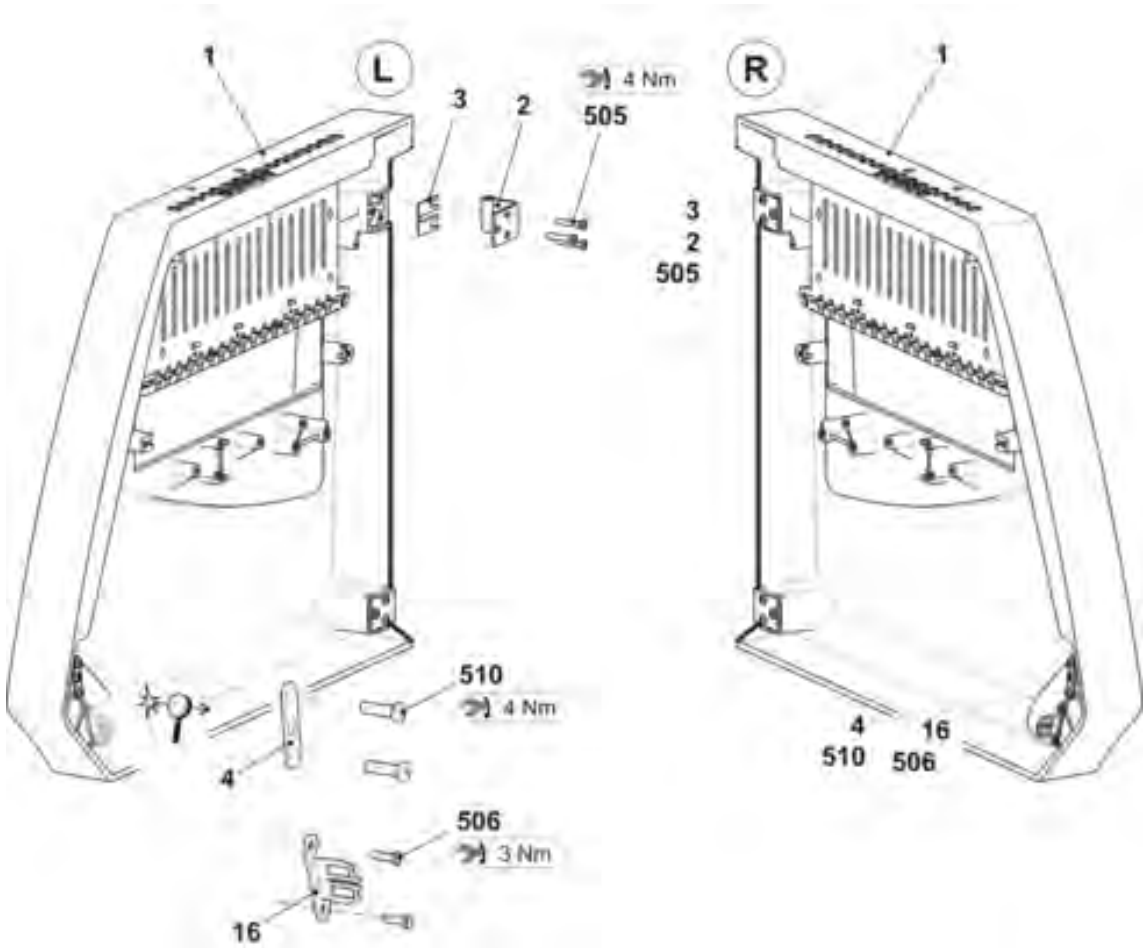
10 Protective units



10.1 Lateral safety doors

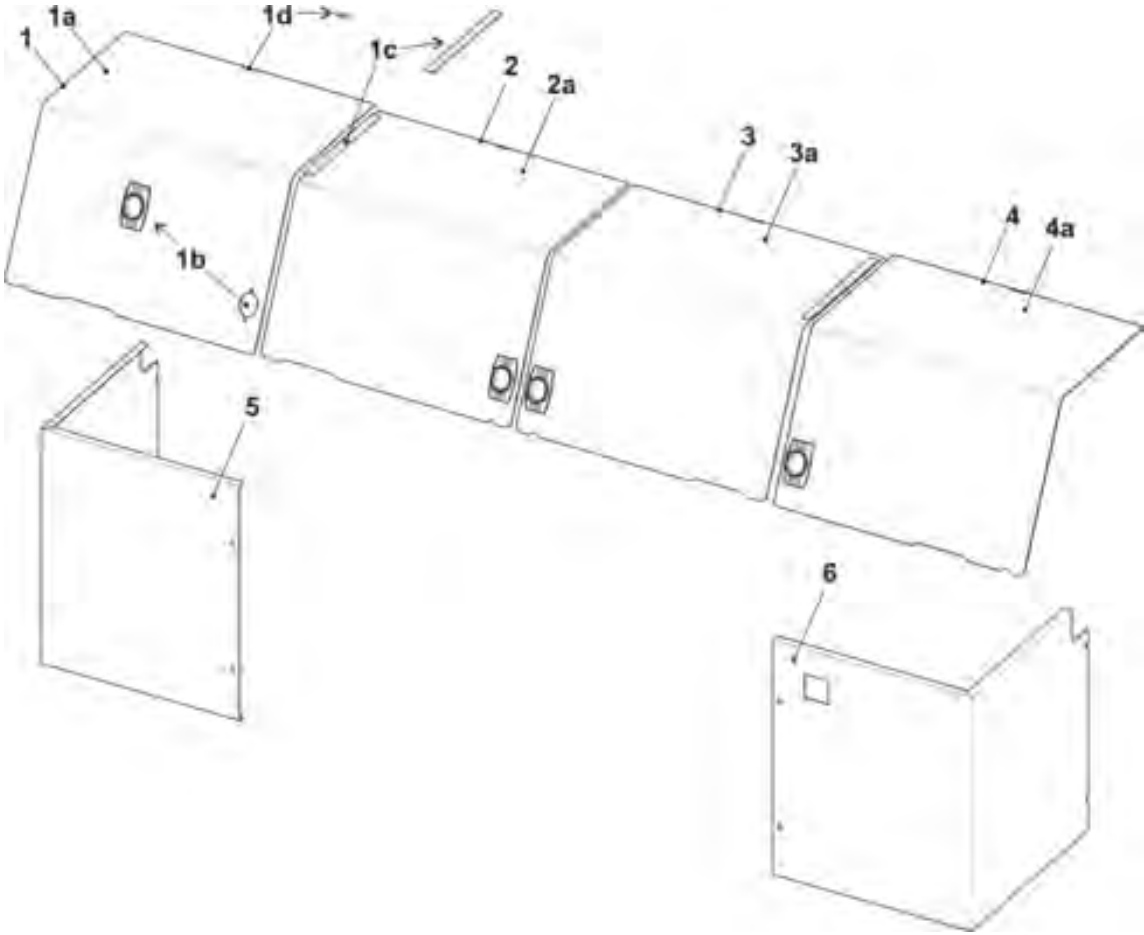
10.1 Lateral safety doors

Pos	Designation	Id		Pos	Designation	Id
Σ	Safety door on the left			Σ	Safety door on the right	
1	Safety door on the left	250 562		1	Safety door on the right	250 563
2	Hinge	241 994		2	Hinge	241 994
3	Plate	224 717		3	Plate	224 717
4	Locking plate	219 748		4	Locking plate	219 748
16	ActuatorAZ 15/16	255 492		16	ActuatorAZ 15/16	255 492
505	Screw KB 60x30	237 683		505	Screw KB 60x30	237 683
506	Screw KB 40x14	241 358		506	Screw KB 40x14	241 358
510	Screw KB 60x20	237 682		510	Screw KB 60x20	237 682



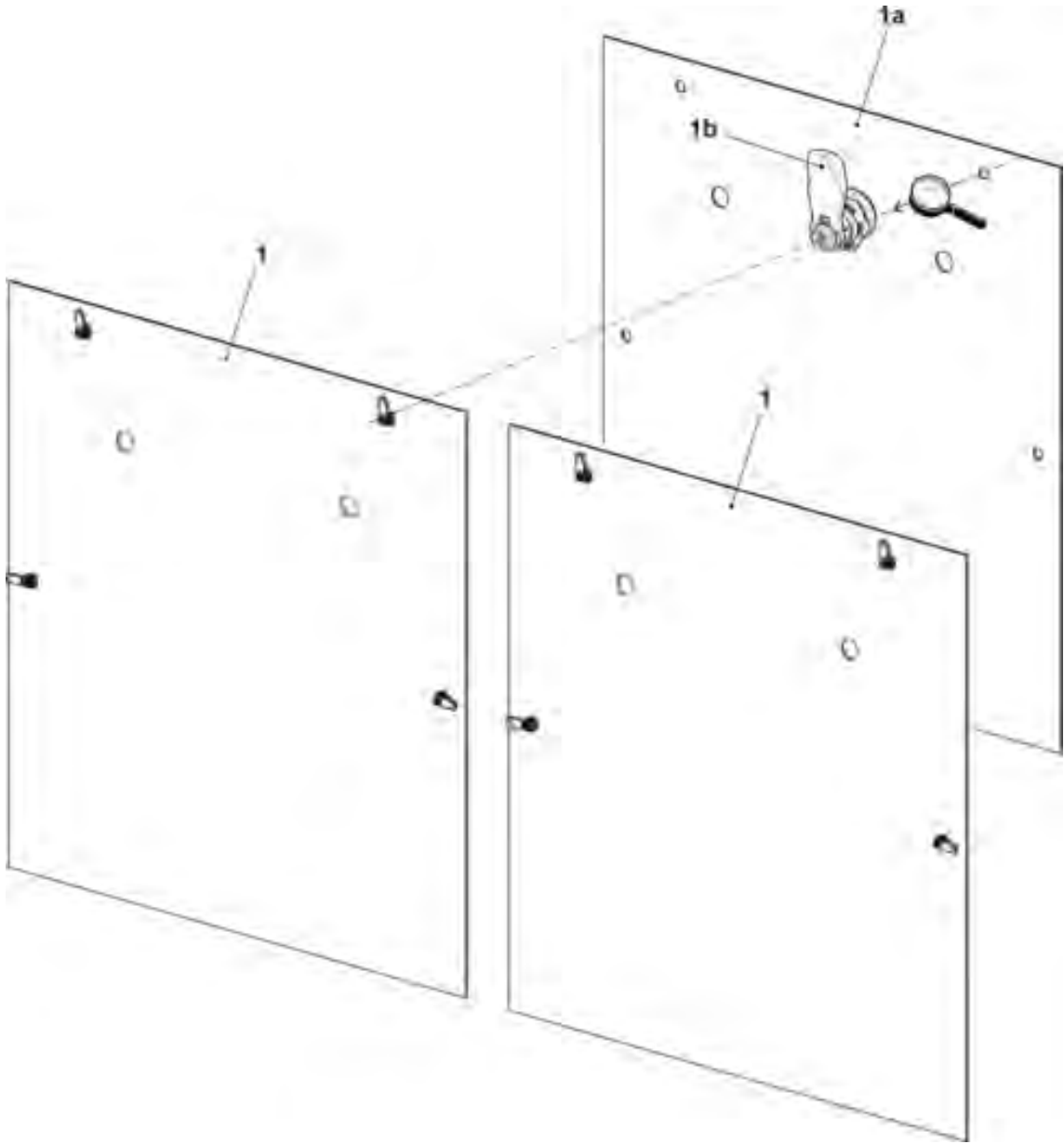
10.2 Panelling

Pos	Designation		Id		Pos	Designation		Id
1	Cover 1 complete		256 923		3	Cover 3 complete		256 925
	1a	Cover 1	256 908			3a	Cover 3	256 910
	1b	Inlet type handle	251 376			3b	Inlet type handle	251 376
	1c	Stripper	219 393			3c	Stripper	219 393
	1d	Magnet	204 666			3d	Magnet	204 666
2	Cover 2 complete		256 924		4	Cover 4 complete		256 926
	2a	Cover 2	256 909			4a	Cover 4	256 911
	2b	Inlet type handle	251 376			4b	Inlet type handle	251 376
	2c	Stripper	219 393			4c	Stripper	219 393
	2d	Magnet	204 666			4d	Magnet	204 666
5	Control unit panelling on the left		252 595		6	Control unit panelling on the right		252 585

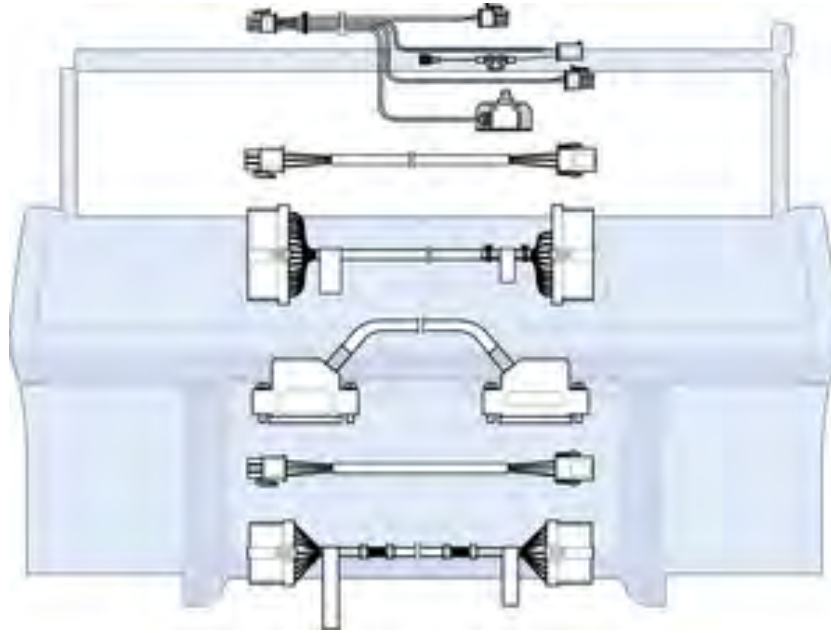


10.3 Rear panel

Pos	Designation	Id		Pos	Designation	Id
1	Rear panel	257 667		1a	Rear panel	257 661
				1b	Safety sash fastener complete	243 052



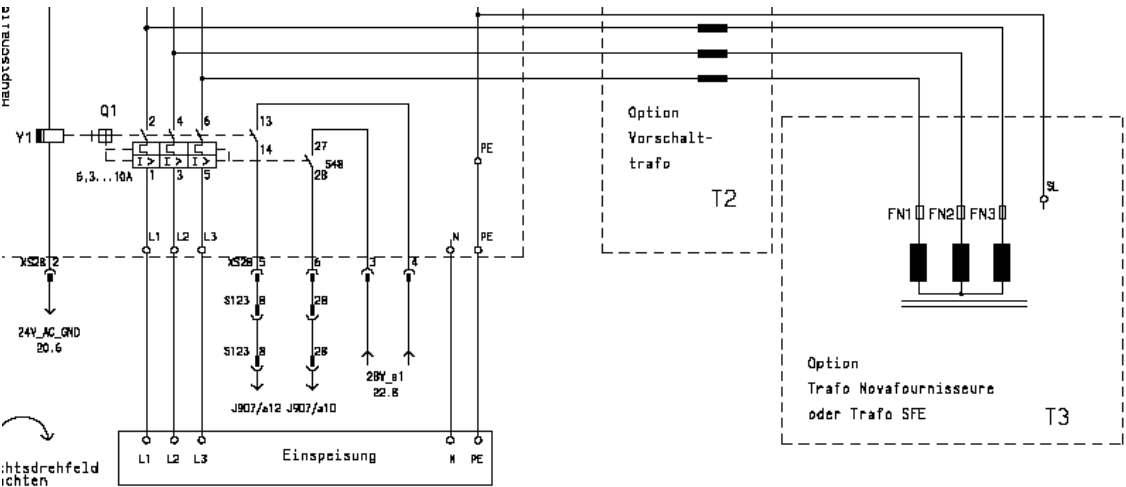
11 Electrical equipment



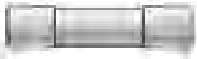
11.1 Circuit diagram (222) as PDF

Designation	ID	Marking
Circuit diagram 222 German	257 280	_DE
Circuit diagram 222 English	257 280	_GB
Circuit diagram 222 Chinese	257 280	_CN

You will find the circuit diagram 222 on the CMS documentation DVD with the ID no. 257 157

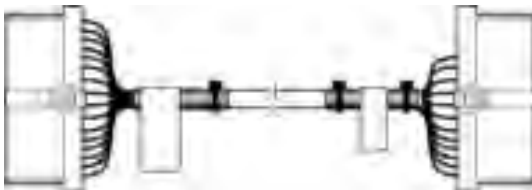


11.2 Fuses

	Designation	Id
	Fuse 1,0A F 5x20	008 748
	Fuse 3,15A T/440V 6,3x32	025 261
	Fuse 10A T/440V 6,3x32Fuse	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 6,3x32Fuse	241 866
	Fuse 12,5A T/440V 6,3x32	232 367

11.3 Trailing cable

11.3 Trailing cable

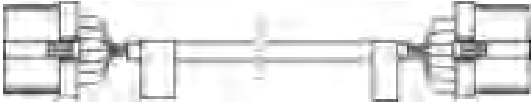
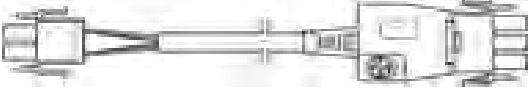
Designation	Id		Designation	Id
Trailing cable set OKC 502 1IMP-2	259 292			
Cable carriage at the rear XR332 420 ECO2	252 007		Cable impulse sensor 2 at the rear XR136 502 OKC3	259 355
Cable carriage at the rear XR333 420 ECO2	252 008			
				
Cable yarn carrier 420 XR161 ECO2	252 059			
				

11.4 Cable set installation

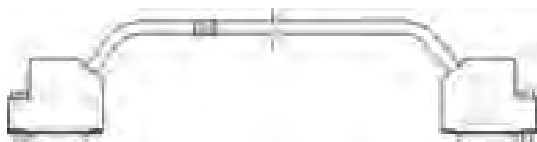
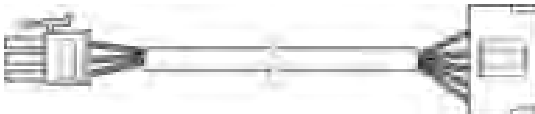
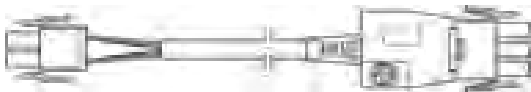
Designation			ID	Designation			ID
Σ	Cable set installation 5XX okc		253 618				
1	Loom of cables base 1 5XX		253 619				
2	Loom of cables base 2okc		240 257				
6	Cable switch main take-down 50" ECO2		252 541				
							
				3	Loom of cables 5XX okc		253 621
				4	Loom of cables comb okc		240 259
				7	Cable supply FKE lamp ECO2		252 587

11.4 Cable set installation

11.4.1 Cable set base 1

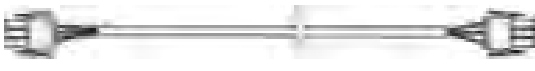
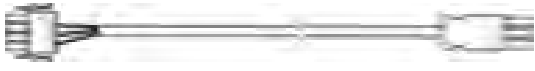
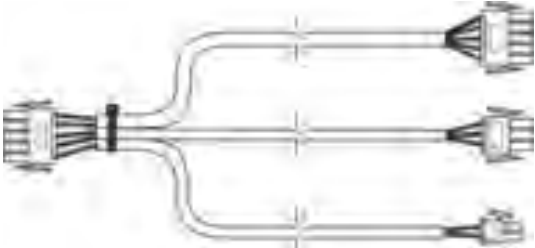
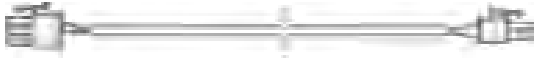
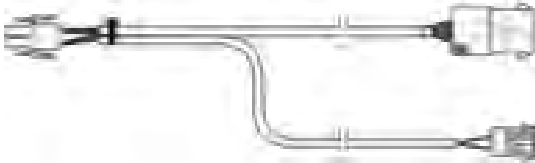
Designation		Id	Designation		Id
Σ	Loom of cables base 1 5XX	253 619			
	Cable engaging ECO2	252 538		Cable protective device on the left 5XX	253 620
					
	Cable feed wheel on the left 50" OKC	240 464			
					

11.4.2 Loom of cables base 2

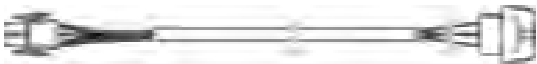
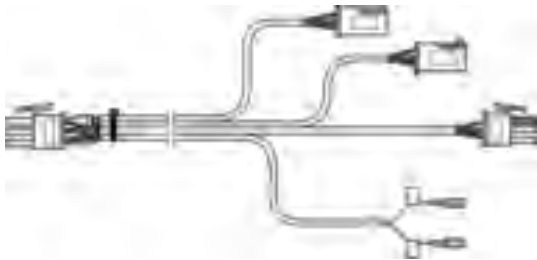
Designation		Id	Designation		Id		
Σ	Loom of cables base 2	240 257					
	Cable motor HAAB OKC	240 291		Cable resolver drive OKC 3XX	240 296		
							
	Cable racking limit switch OKC 3XX	240 292		Cable racking motor OKC 3XX	240 297		
							
	Cable fan drive 3XX OKC	240 293		Cable resolver racking OKC 3XX	240 298		
							
	Cable feed wheel on the right OKC 3XX	240 294		Cable protective device on the right OKC	253 441		
							
	Cable drive motor OKC 3XX	240 295					
							

11.4 Cable set installation

11.4.3 Loom of cables 5XX

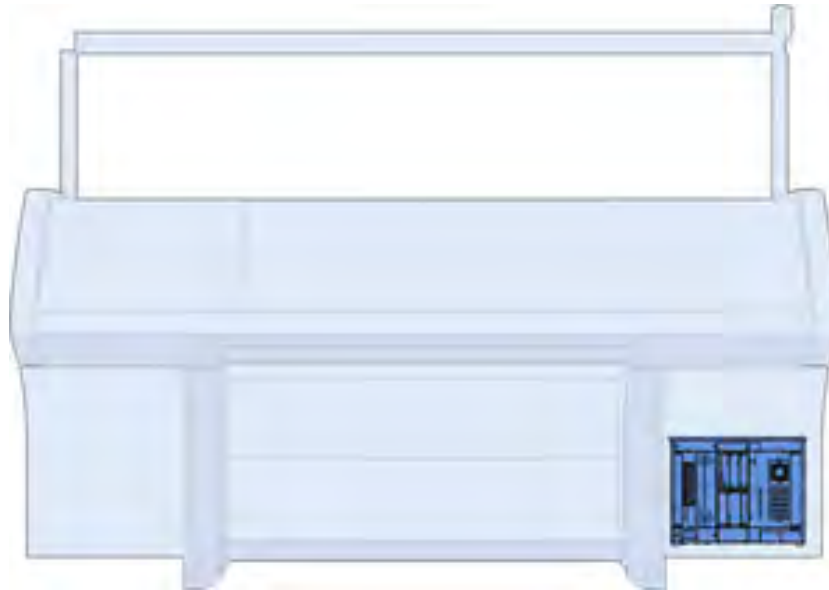
Designation		Id	Designation		Id
Σ	Loom of cables 5XX OKC	253 621			
	Cable motor auxiliary take-down 50" okc	240 467		Cable power supply unit of mains supply OKC	240 505
					
	Cable impulse sensor auxiliary take-down 50" OKC	240 468		Cable power supply lighting	236 572
					
	Cable power supply WAZ/F 50" OKC	240 469		Cable switch auxiliary take-down 3xx OKC	240 472
					
	Cable power supply servo 50" OKC	240 502		Cable power supply FLENT 50" OKC	251 231
					

11.4.4 Loom of cables comb

Designation		Id	Designation		Id
Σ	Loom of cables comb OKC	240 259			
	Cable motor comb hookOKC	240 308		Cable switch combOKC	240 311
					
	Cable switch KAHA OKC	240 309		Cable switch HAAB OKC	240 312
					
	Cable motor combOKC	240 310			
					

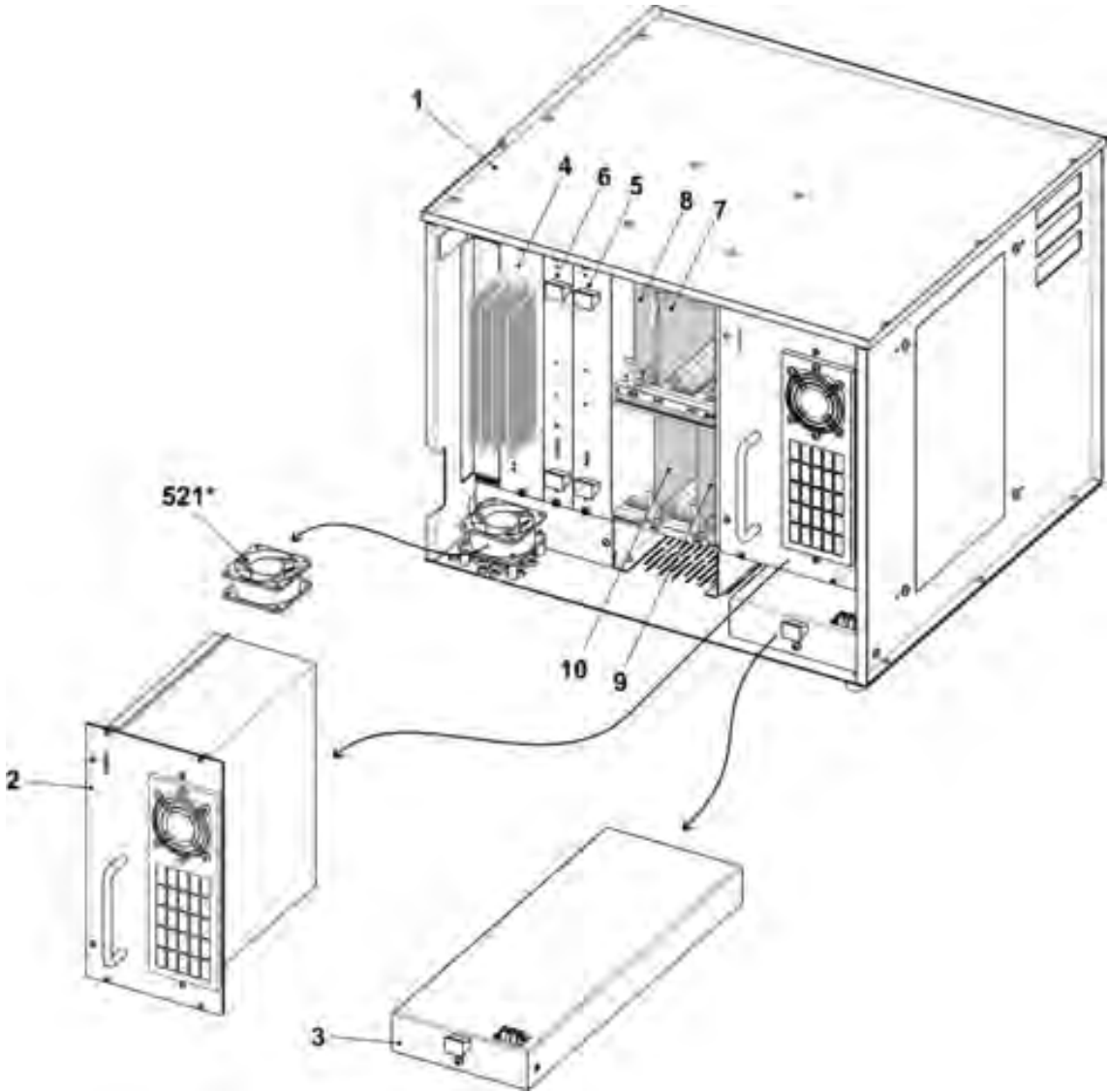
Notes:

12 Control electronics

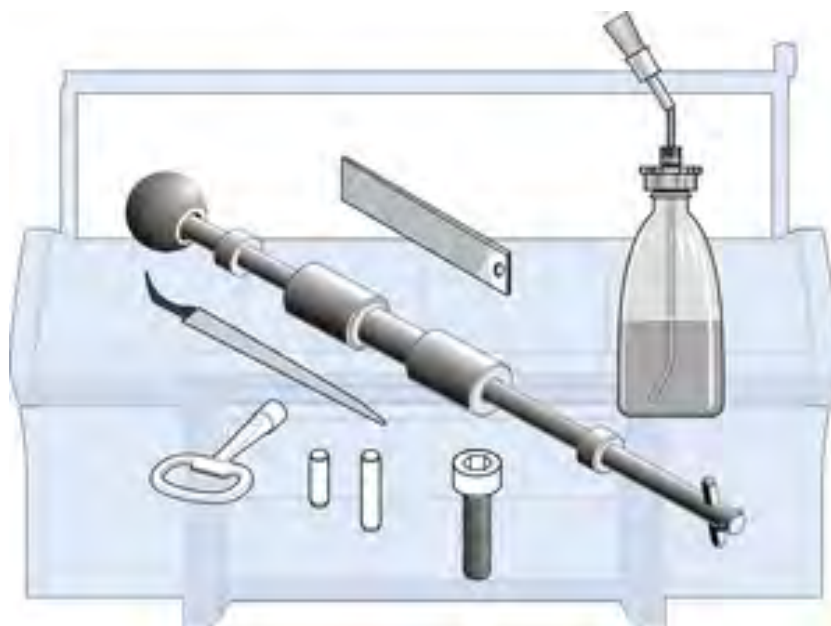


12.1 Control cabinet

Pos	Designation	Id		Pos	Designation	Id
Σ	Control unit on the right complete 520 PP	260 566		6	Card BIO ECO2	301 007
1	Control unit without equipment 5XX PP	260 576		7	Card final stages 4SM 7TE	300 943
2	Power supply unit CG54 1-Kanal	300 923		8	Card N-CPU 432	300 965
3	Battery plug-in unit	301 008		9	Card Power CPU B	301 009
4	Card Servo 6	301 000		10	Card IPC P8X S 01	301 010
5	Card C-WAZ ECO2	301 006		521*	Axial flow fan Servo 5	229 059



13 Deliverable accessories

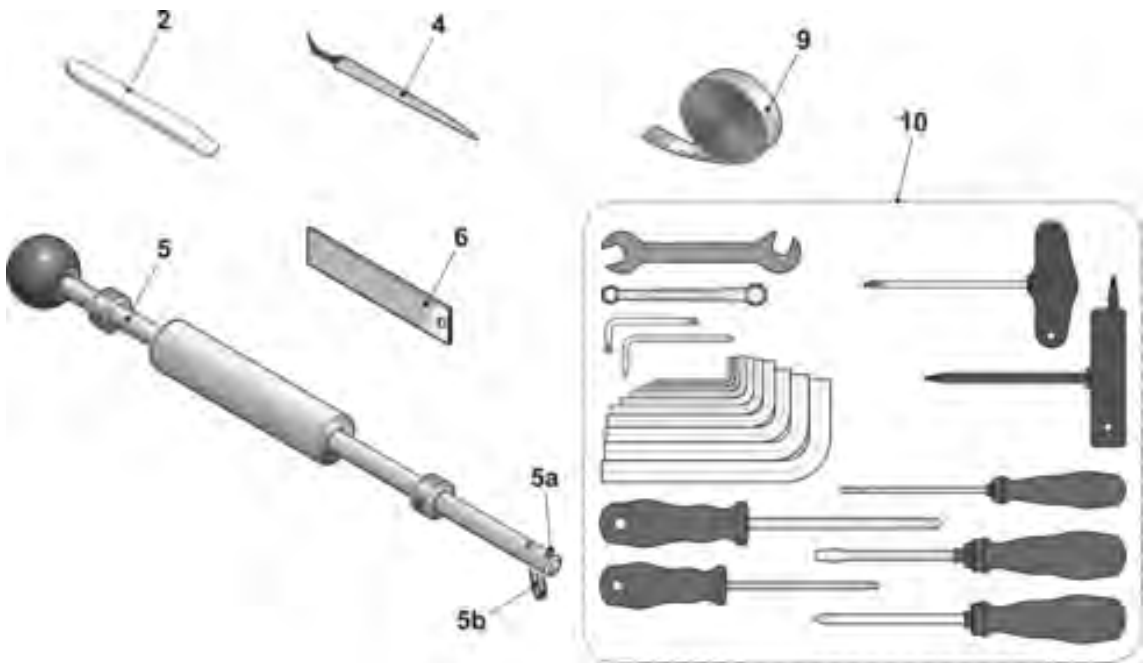


You can order the following tools, lubricants and expendables.
The following list does not correspond to the scope of delivery of the knitting machine.

13.1 Tool

13.1 Tool

Pos	Designation		Id	Pos	Designation		Id
2	Channel chisel E5/7/3.2		062 317	6	Groove file 1,25mm E5/73,5.2		006 170
	Channel chisel E12/14/6.2/7.2/6.2(12m.10)		062 318		Groove file 0,73mm E12/14/6.2/6.2(12m.10)		006 173
4	Working hook		227 249		Groove file 0,65mm E7.2		006 174
5	Extraction hook		232 027	9	Measuring tape L=150cm		228 180
	5a	Small pin	202 843	10	Tool kit		209 527
	5b	Pencil	232 022				



13.2 Lubricating stuff

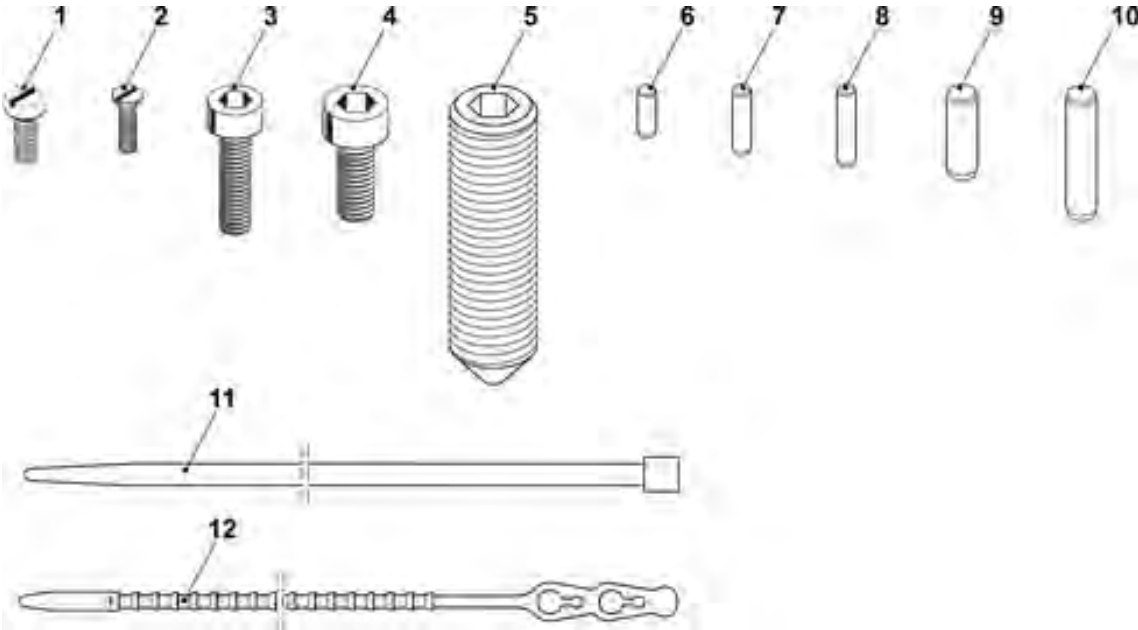
Pos	Designation	Id		Pos	Designation	Id
1	Textile machines oil T46, 1l	230 614		4	Oil combifix no. 8/10 Gr. 10	216 732
3	Grease OKS 475, 150g	005 351		5	White grease paste OKS270	229 372



13.3 Mechanical parts

13.3 Mechanical parts

Pos	Designation	Id		Pos	Designation	Id
1	Cap screw M4x8	020 091		11	Cut cable 203x3,6mm	025 815
2	Countersunk screw M3x6	020 286			Cut cable T50L	026 294
3	Cap screw M5x16	022 726			Cut cable 140x3,6mm	008 379
4	Cap screw M6x14	022 658			Cut cable 302x4,8mm	008 642
5	Setscrew M16x50	023 235			Cut cable 92x2,4mm	008 378
6	Dowel pin 3x7	020 643		12	Reusable tie ABV 232 320mm	026 557
7	Dowel pin 3x10	020 645				
8	Dowel pin 3x12	020 647				
9	Dowel pin 5x12	021 988				
10	Dowel pin 5x18	022 622				



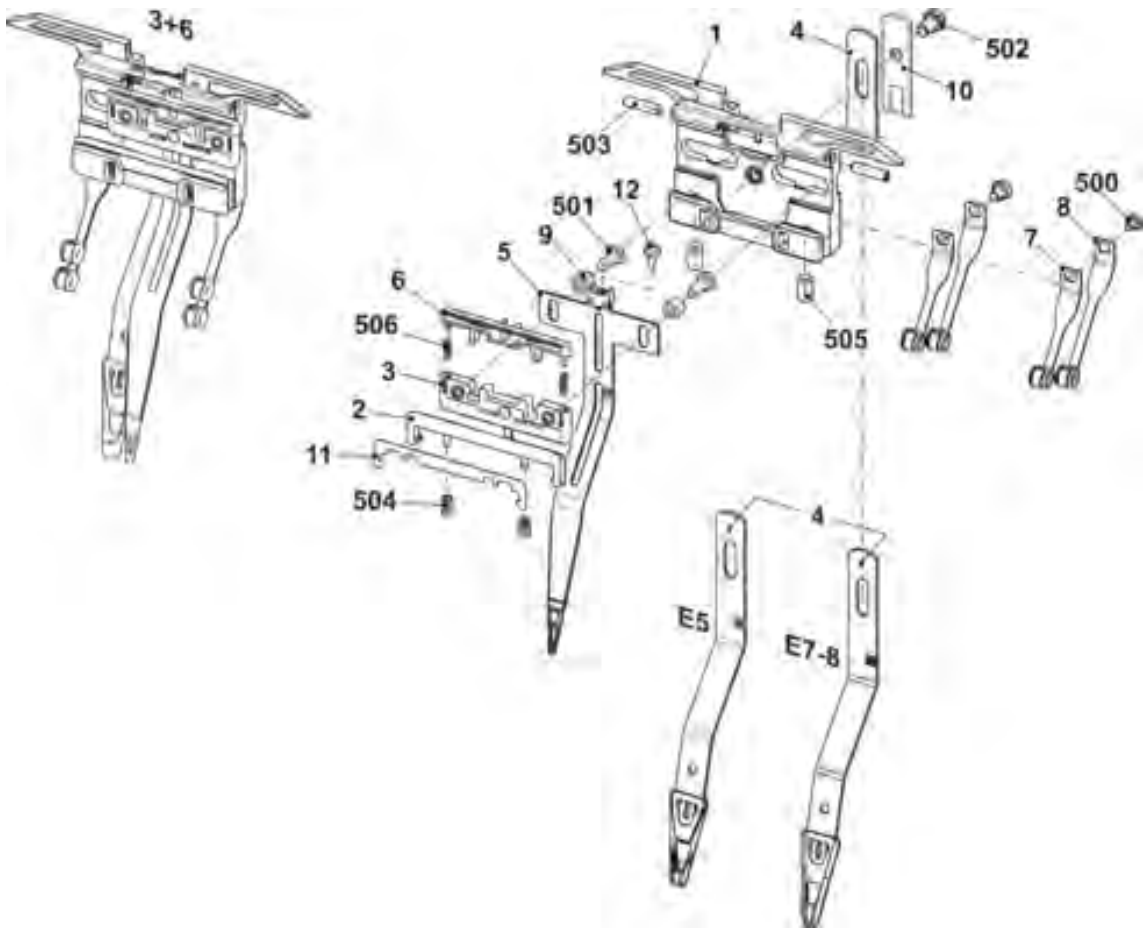
14 Special attachments



14.1 Plating yarn carrier 3+6

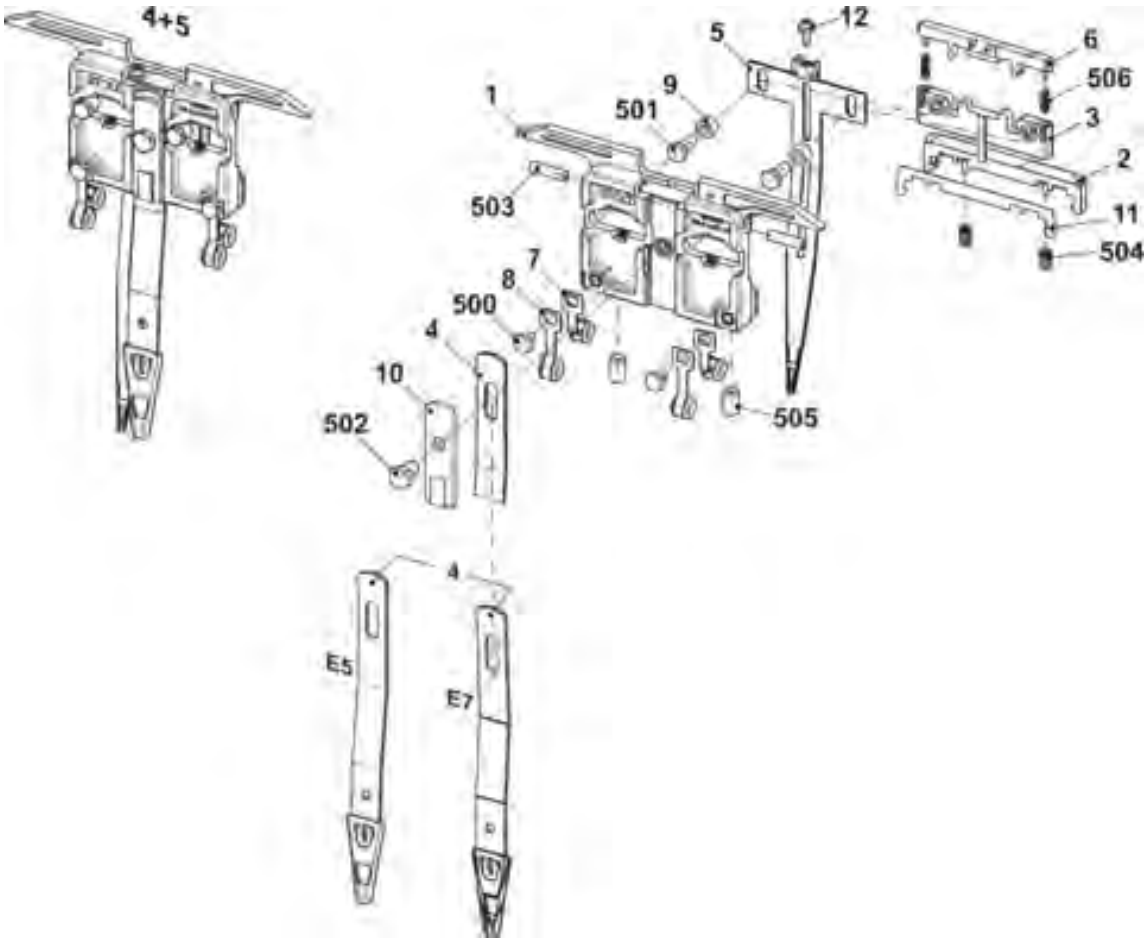
14.1 Plating yarn carrier 3+6

Pos	Designation	Id		Pos	Designation	Id
Σ	Plating yarn carrier carriage 3+6 complete			8	Eyelet holder complete	252 824
	E5 E7m.5 E3,5.2 E3,5.2m.4L E2,5.2 - E2,5.2m.4L	252 782		9	Distance bushing	252 796
	E7	252 784		10	Shim	213 035
1	Plating yarn carrier carriage	252 806		11	Shim	216 143
2	Sliding piece	212 583		12	Adjusting screw	253 436
3	Slider	252 798		500	Hexagon screwM4x5	243 779
4	Plating yarn carrier bow 3+6			501	Hexagon screwM4x10	020 346
	E5 E7m.5 E3,5.2 E3,5.2m.4L E2,5.2 - E2,5.2m.4L	252 820		502	Hexagon screw	252 832
	E7	252 821		503	Setscrew M4x16	254 196
5	Plating yarn carrier bow 3+6 E5-8	252 800		504	Compression spring	021 399
6	Sliding piece	252 797		505	Threaded bolt	213 399
7	Eyelet holder complete	252 825		506	Compression spring	253 058



14.2 Plating yarn carrier 4+5

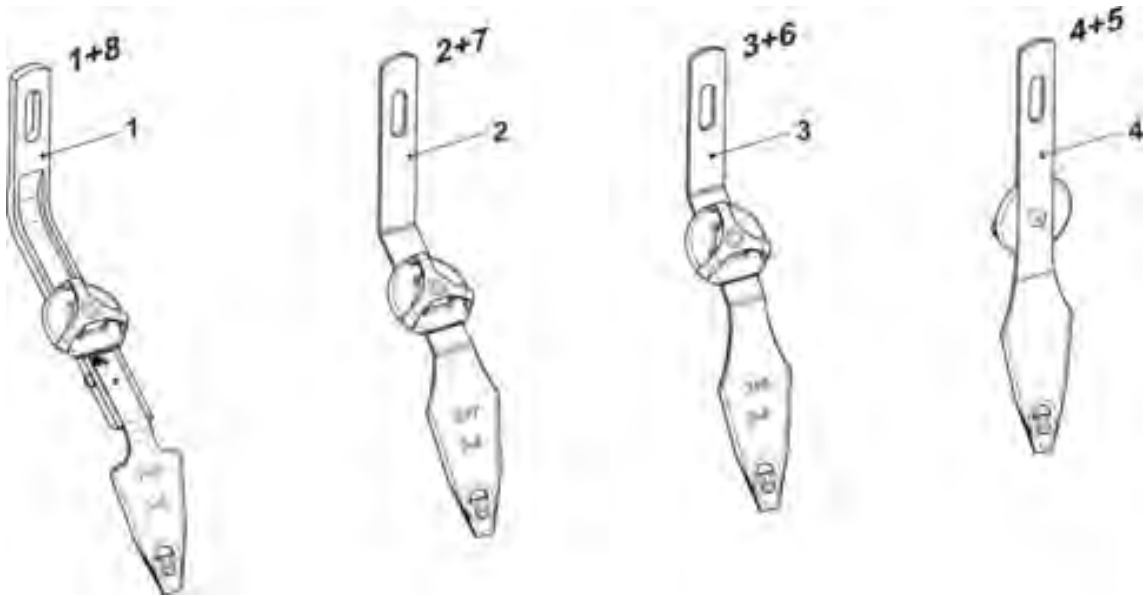
Pos	Designation	Id		Pos	Designation	Id
Σ	Plating yarn carrier carriage 4+5 complete			8	Eyelet holder complete	252 816
	E5 E7m.5 E3,5.2 E3,5.2m.4L E2,5.2 - E2,5.2m.4L	252 781		9	Distance bushing	252 796
	E7	252 783		10	Shim	213 035
1	Plating yarn carrier carriage	252 806		11	Shim	216 143
2	Sliding piece	212 583		12	Adjusting screw	253 436
3	Slider	252 798		500	Hexagon screwM4x5	243 779
4	Plating yarn carrier bow 4+5			501	Hexagon screwM4x10	020 346
	E5 E7m.5 E3,5.2 E3,5.2m.4L E2,5.2 - E2,5.2m.4L	252 790		502	Hexagon screw	252 832
	E7	252 791		503	Setscrew M4x16	254 196
5	Plating yarn carrier bow 4+5 E5-8	252 799		504	Compression spring	021 399
6	Sliding piece	252 797		505	Threaded bolt	213 399
7	Eyelet holder complete	252 815		506	Compression spring	253 058



14.3 FF bow E2,5.2m.4L

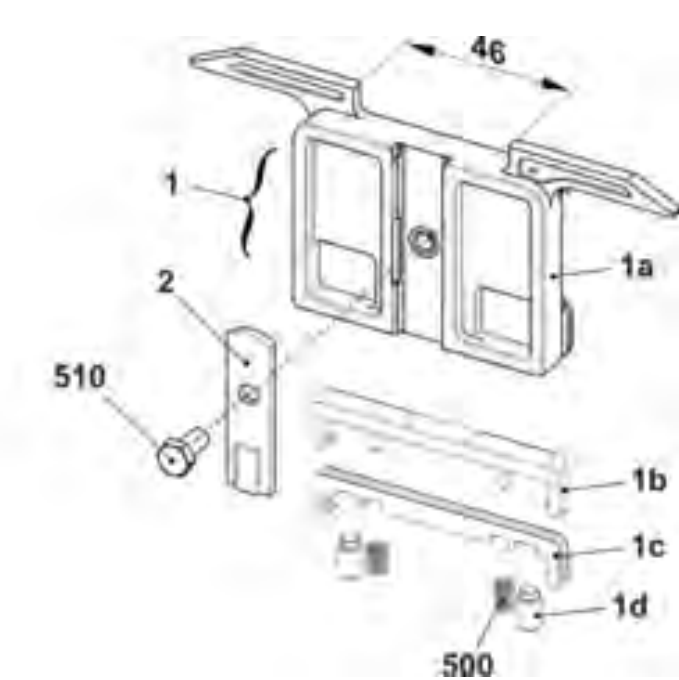
14.3 FF bow E2,5.2m.4L

Pos	Designation	ID		Pos	Designation	ID
1	FF bow 1+8 complete E3-4	261 546		3	FF bow 3+6 complete E3-4	261 136
2	FF bow 2+7 complete E3-4	261 547		4	FF bow 4+5 complete E3-4	261 137



14.4 Carriage of plating yarn carrier EW46

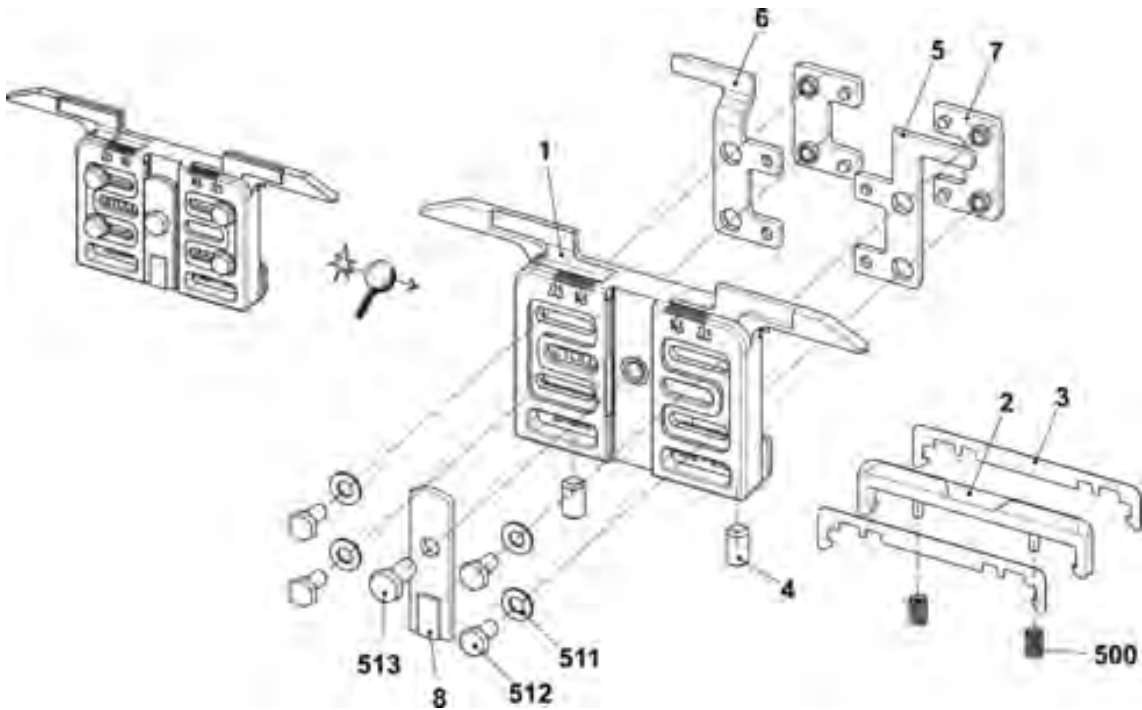
Pos	Designation		Id		Pos	Designation		Id
B	Plating FF carriage complete EW 46		244 998					
1	FF carriage EW 46		244 253			1d	Threaded bolt	213 399
	1a	FF carriage	243 881			500	Compression spring 4,0x0,55x11	021 399
	1b	Sliding piece	212 583		2	Shim		213 035
	1c	Shim	216 143		510	Hexagon screw M5x10		020 351



14.5 Carriage of plating yarn carrier (adjustable)

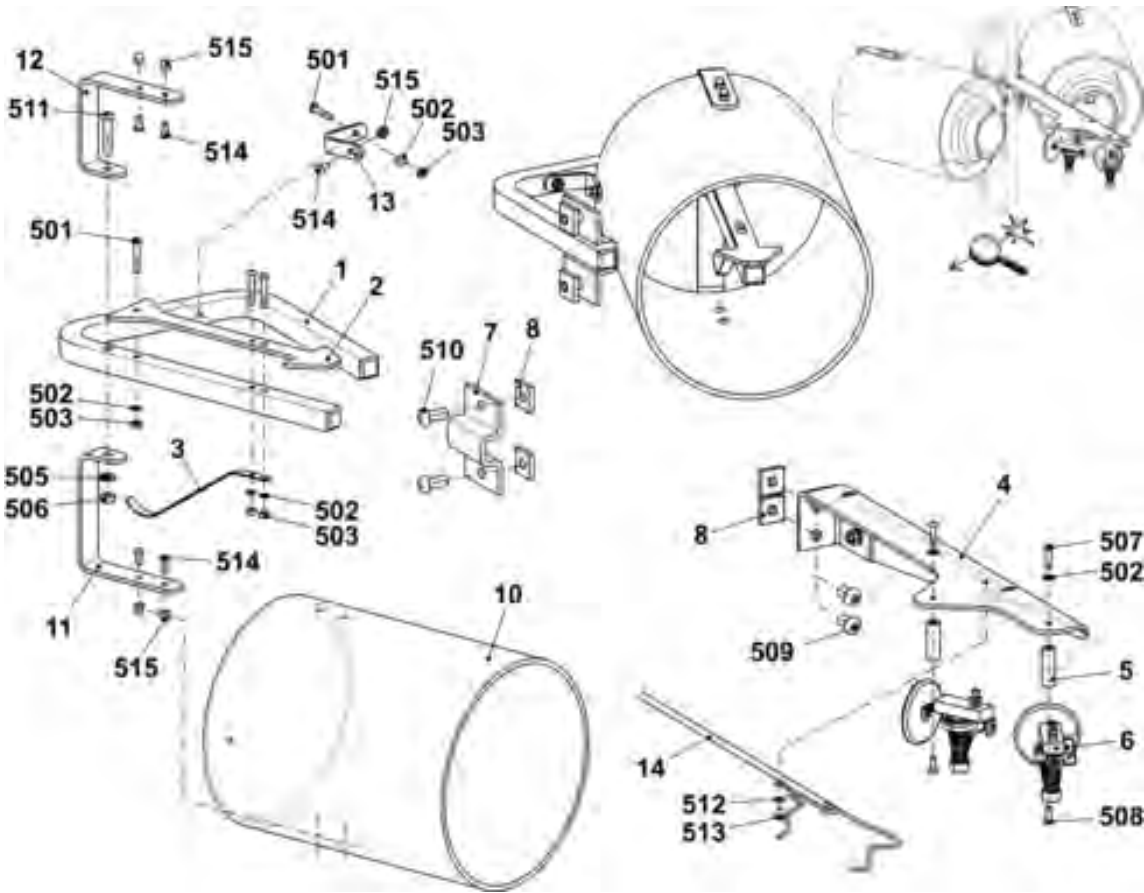
14.5 Carriage of plating yarn carrier (adjustable)

Pos	Designation	Id		Pos	Designation	Id
Σ	Plating yarn carrier carriage complete	251 867				
1	Carriage of yarn carrier	251 864		7	Guide part	253 226
2	Sliding piece	212 583		8	Shim	213 035
3	Shim	216 143		500	Compression spring	021 399
4	Threaded bolt	213 399		511	Washer4	022 481
5	Insert on the right	251 866		512	Hexagon screwM4x8	022 461
6	Insert on the left	251 865		513	Hexagon screwM5x10	020 351



14.6 Bobbin holder on the right

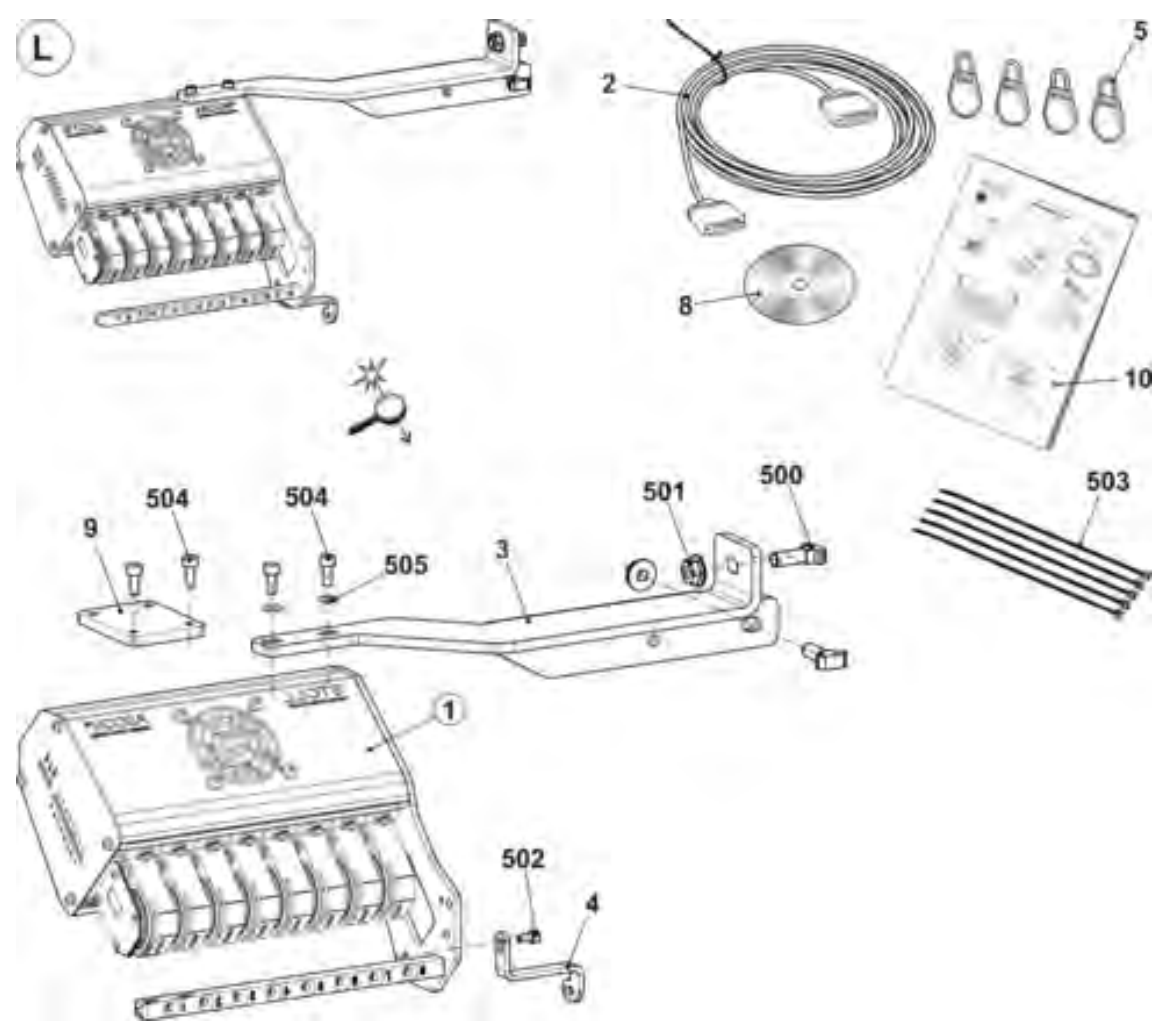
Pos	Designation	ID	Pos	Designation	ID
Σ	Bobbin holder on the right	253 966	501	Pan-head screwM4x25	023 511
1	Support	253 969	502	Washer4	022 481
2	Support	252 769	503	Hexagon nut M4-6	022 536
3	Leaf spring	253 350	505	Washer6	022 431
4	Support right	253 348	506	Hexagon nut M6-6	022 899
5	Spacer	253 349	507	Pan-head screwM4x16	023 412
6	Yarn detector Massardi	226 964	508	Pan-head screw M4x12	023 062
7	Clamp	228 583	509	Pan-head screwM8x16	023 113
8	Slot nut	228 851	510	Pan-head screwM8x18	251 331
10	Cover	253 968	511	Pan-head screwM6x30	023 451
11	Holding angle	253 964	512	Serrated lock washer A4,3	022 482
12	Holding angle	253 963	513	Pan-head screwM4x6	022 946
13	Holding angle	253 967	514	Pan-head screwM4x10	023 450
14	Cable plating	253 468	515	Cap nut M4-6	253 805



14.7 Yarn length measuring device on the left complete

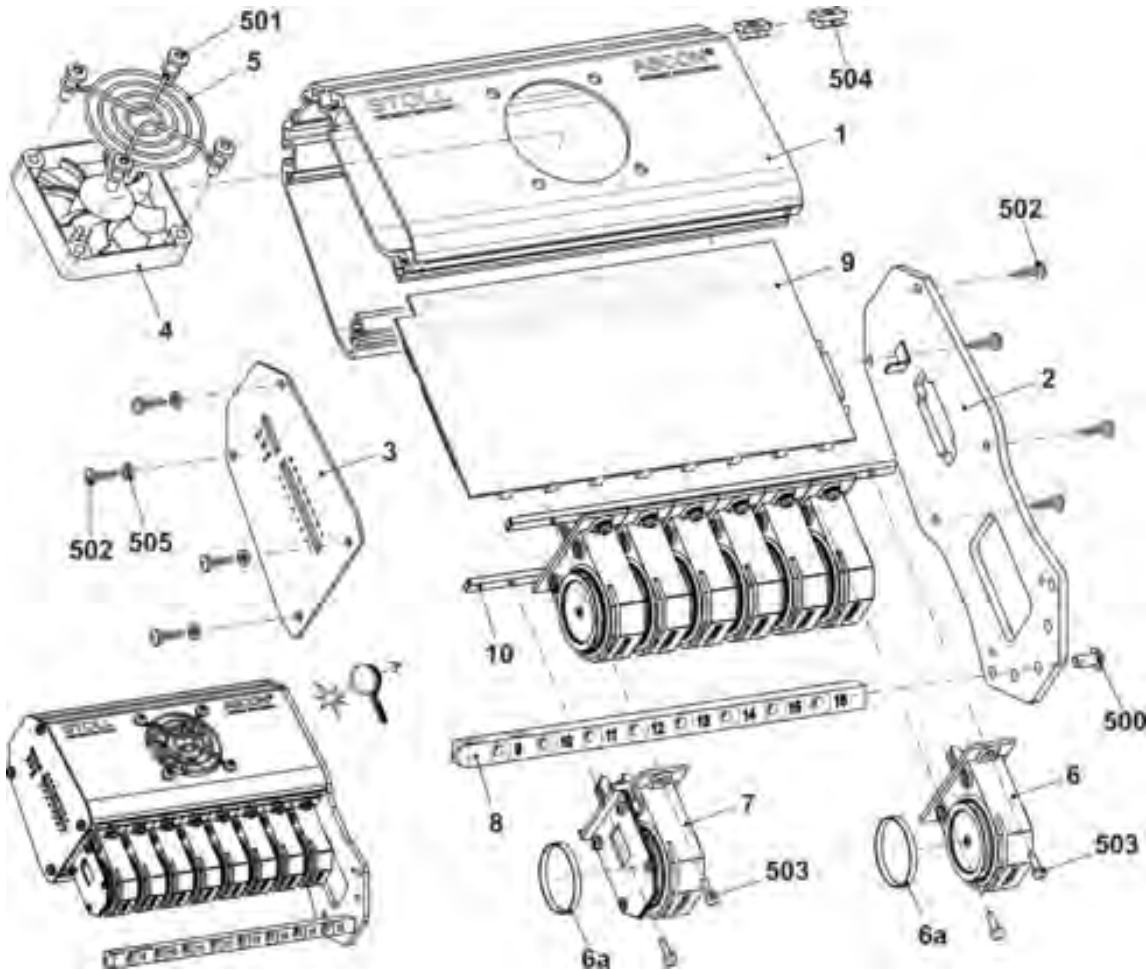
14.7 Yarn length measuring device on the left complete

Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn length measuring device on the left complete	257 600				
1	Yarn length measuring device on the left complete	257 283		10	Operating instructions of ASCON assembly	259 381
2	Cable ASCON	257 239		500	T-head bolt M8x25	022 866
3	Support on the left	257 122		501	Serrated nut M8-10	023 026
4	Connecting lug on the left	257 137		502	Cap screwM4x8	022 501
5	Adjustment weight	212 241		503	Cable tape 302x4,8	008 642
8	DVD with operating instructions	258 391		504	Cap screwM5x12	020 132
9	Holding plate	258 386		505	Washer5	020 871



14.7.1 Yarn length measuring device

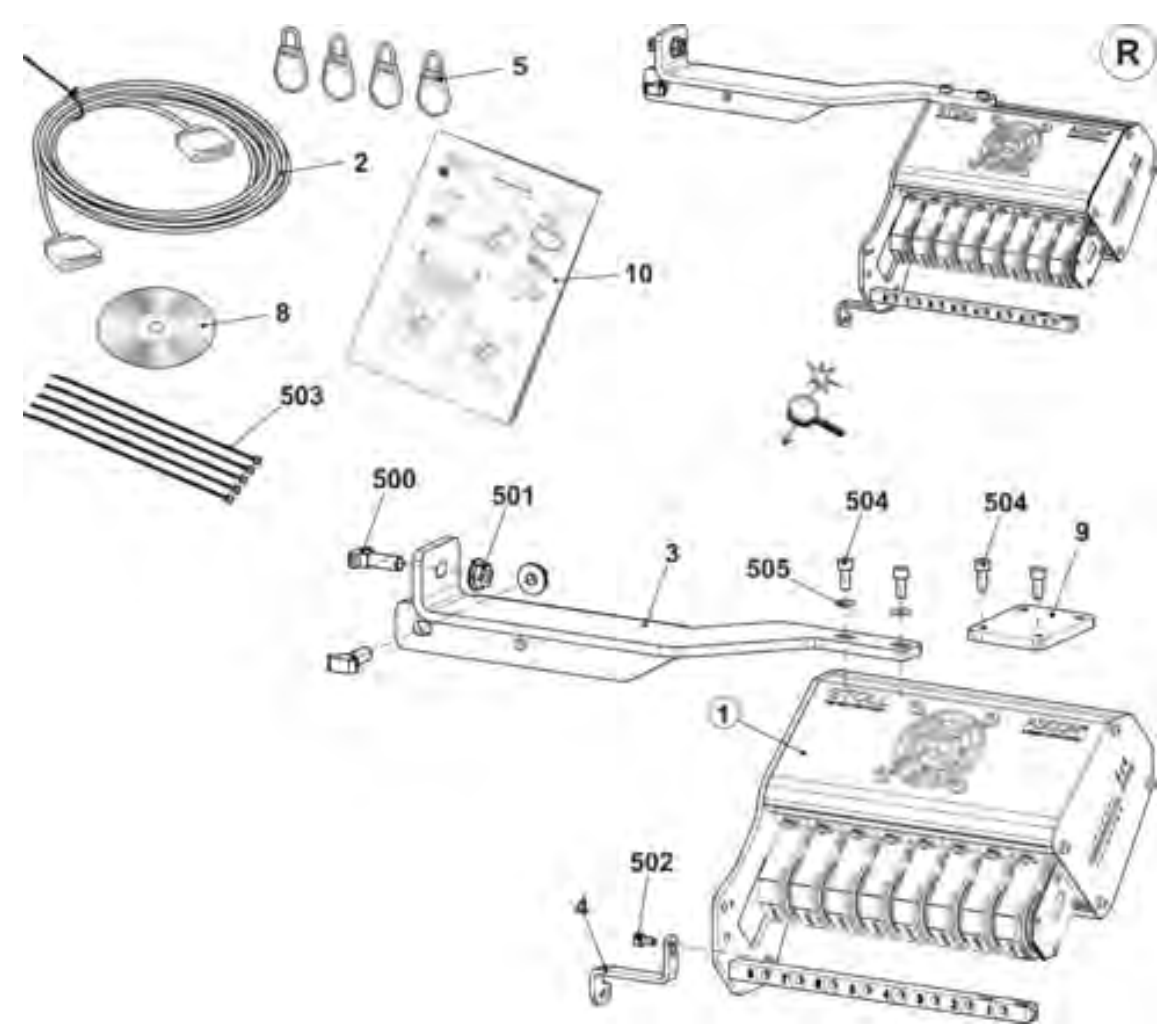
Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn length measuring device on the left complete	257 283		8	Yarn guide rod	257 139
1	Housing	257 281		9	Card Ascon	255 000
2	Support	257 278		10	Threaded strip	257 138
3	Cover	257 273		500	Pan-head screw M5x10	023 247
4	Fan with plug	257 048		501	Screw 50x15	251 728
5	Protective grid fan Servo5	229 142		502	Sheet metal screw ST3,5x13	022 940
6	Sensor	211 354		503	Oval head screw with washer M3x10	023 380
6a	Rubber running ring	258 582		504	Spring nut M5	022 873
7	Sensor complete	212 406		505	Serrated lock washer J3,7	022 554



14.8 Yarn length measuring device on the right complete

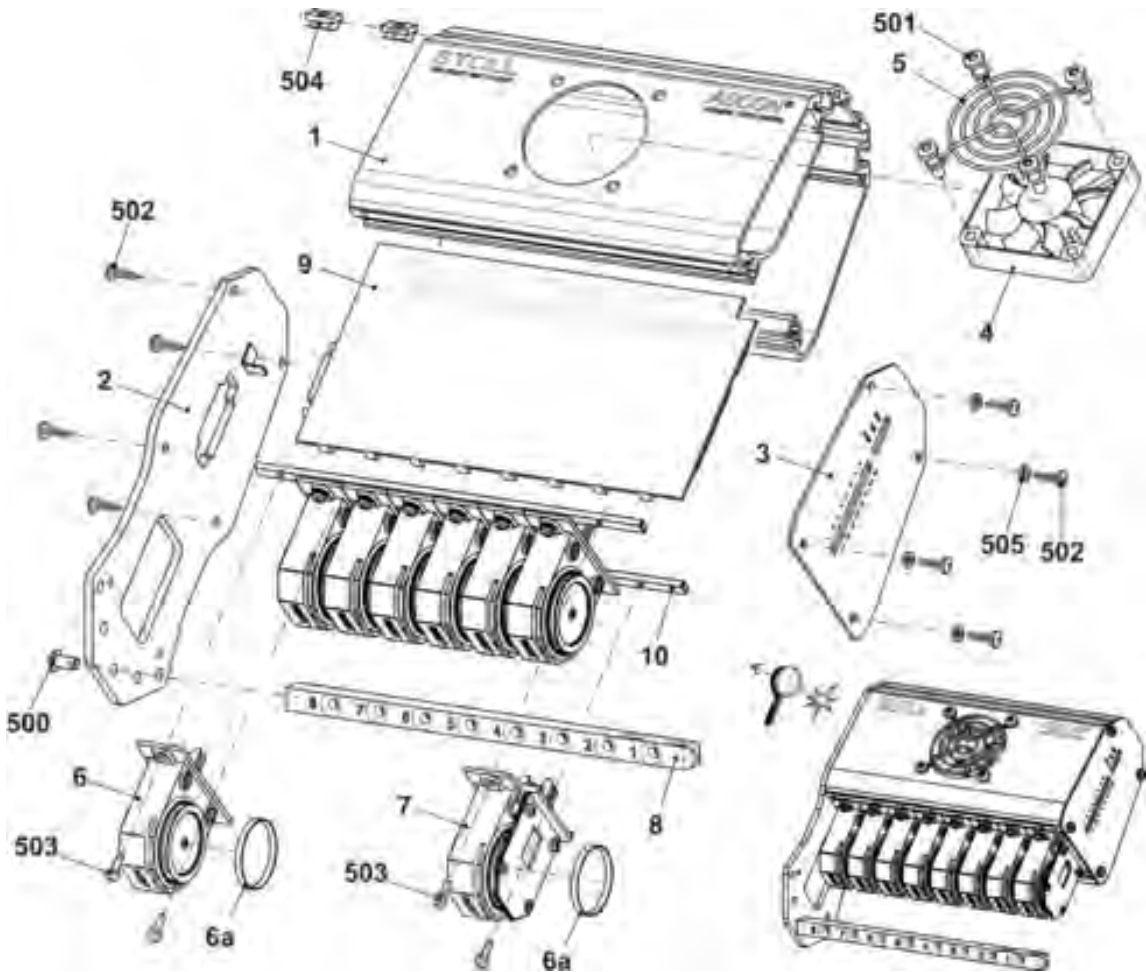
14.8 Yarn length measuring device on the right complete

Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn length measuring device on the right complete	257 599				
1	Yarn length measuring device on the right complete	257 282		6	Operating instructions of ASCON assembly	259 381
2	Cable ASCON	257 239		500	T-head bolt M8x25	022 866
3	Support right	257 121		501	Serrated nut M8-10	023 026
4	Connecting lug on the right	257 136		502	Cap screwM4x8	022 501
5	Adjustment weight	212 241		503	Cable tape 302x4,8	008 642
8	DVD with operating instructions	258 391		504	Cap screwM5x12	020 132
9	Holding plate	258 386		505	Washer5	020 871



14.8.1 Yarn length measuring device on the right

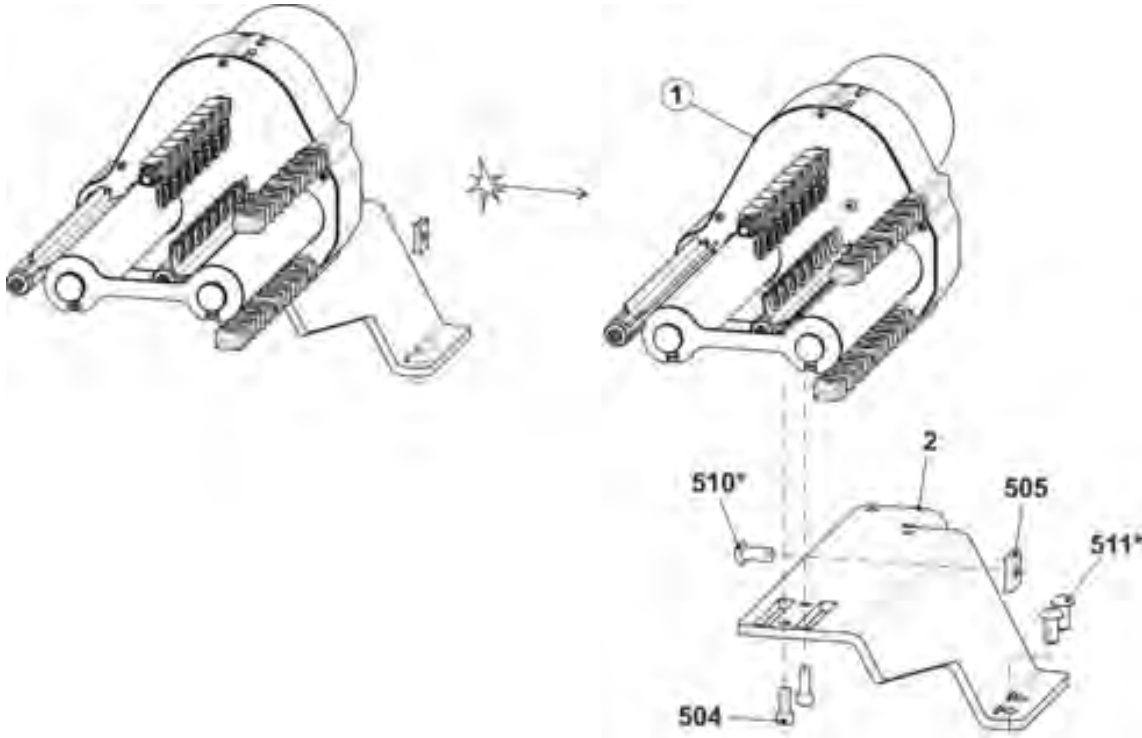
Pos	Designation		Id		Pos	Designation		Id
Σ	Yarn length measuring device on the right complete		257 282		8	Yarn guide rod		257 139
1	Housing		257 281		9	Card Ascon		255 000
2	Support		257 278		10	Threaded strip		257 138
3	Cover		257 273		500	Pan-head screw M5x10		023 247
4	Fan with plug		257 048		501	Screw 50x15		251 728
5	Protective grid fan Servo5		229 142		502	Sheet metal screw ST3,5x13		022 940
6	Sensor		211 354		503	Oval head screw with washer M3x10		023 380
	6a	Rubber running ring	258 582		504	Spring nut M5		022 873
7	Sensor complete		212 406		505	Serrated lock washer J3,7		022 554



14.9 Friction feed wheel on the left

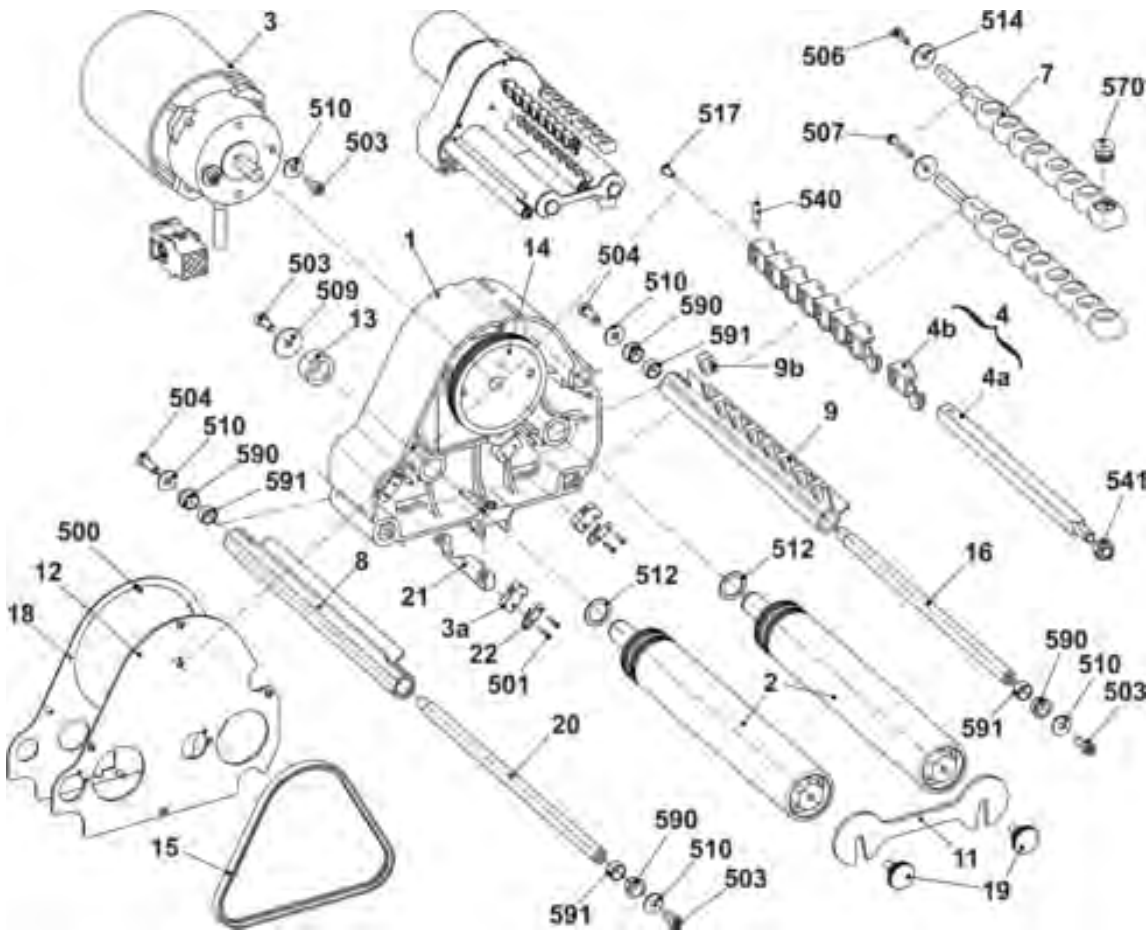
14.9 Friction feed wheel on the left

Pos	Designation	ID		Pos	Designation	ID
ΣL	Friction feed wheel on the left complete	243 573				
1	Friction feed wheel on the left	243 571		505	Slot nut	228 851
2	Support of left feed wheel	250 966		510*	Pan-head screwM8x18	251 331
504	Cap screwM6x16	020 135		511*	Pan-head screwM8x16	023 113



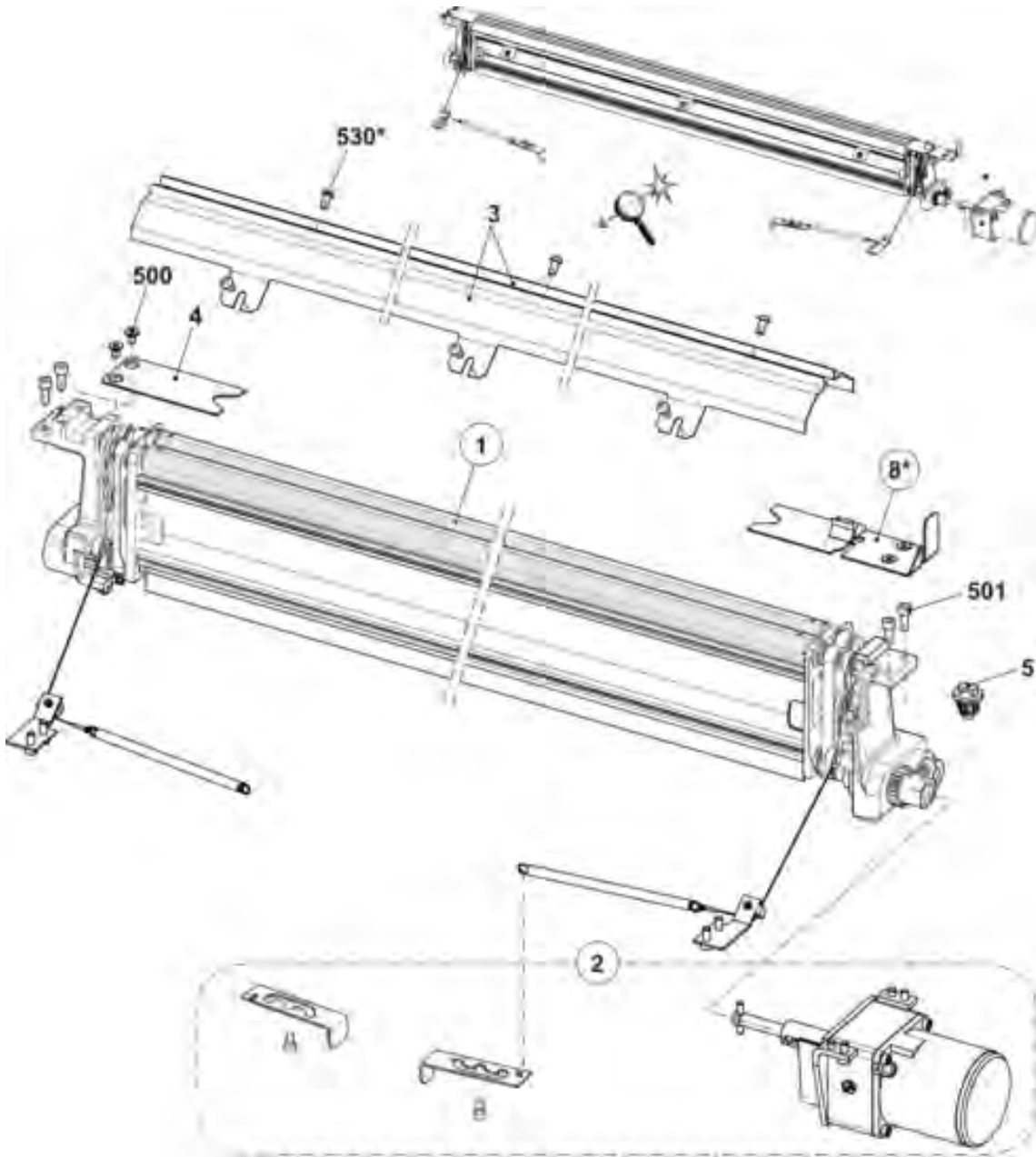
14.9.1 Left friction feed wheel

Pos	Designation		Id	Pos	Designation		Id
Σ	Friction feed wheel on the left complete		243 571	14	V-ribbed belt pulley		221 268
1	Housing		240 368	15	Ribbed V-belt V3J 406		206 927
2	Friction roller complete		231 704	16	Rod		221 319
3	Three-phase AC motor complete		219 800	18	Cover		230 758
	3a	Microswitch	008 664	19	Knurled screw		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 KB30x8		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	Washer5,3x22x2,5		023 219
	590	Slide bearing	023 627	510	Washer5		020 901
	591	Guide piece	259 453	512	Shim ring 15x21x1		023 216
11	Bracket		221 316	514	Washer4,3		020 908
12	Cover		251 098	517	Pan-head screw M4x8		023 579
13	Bush		221 391				



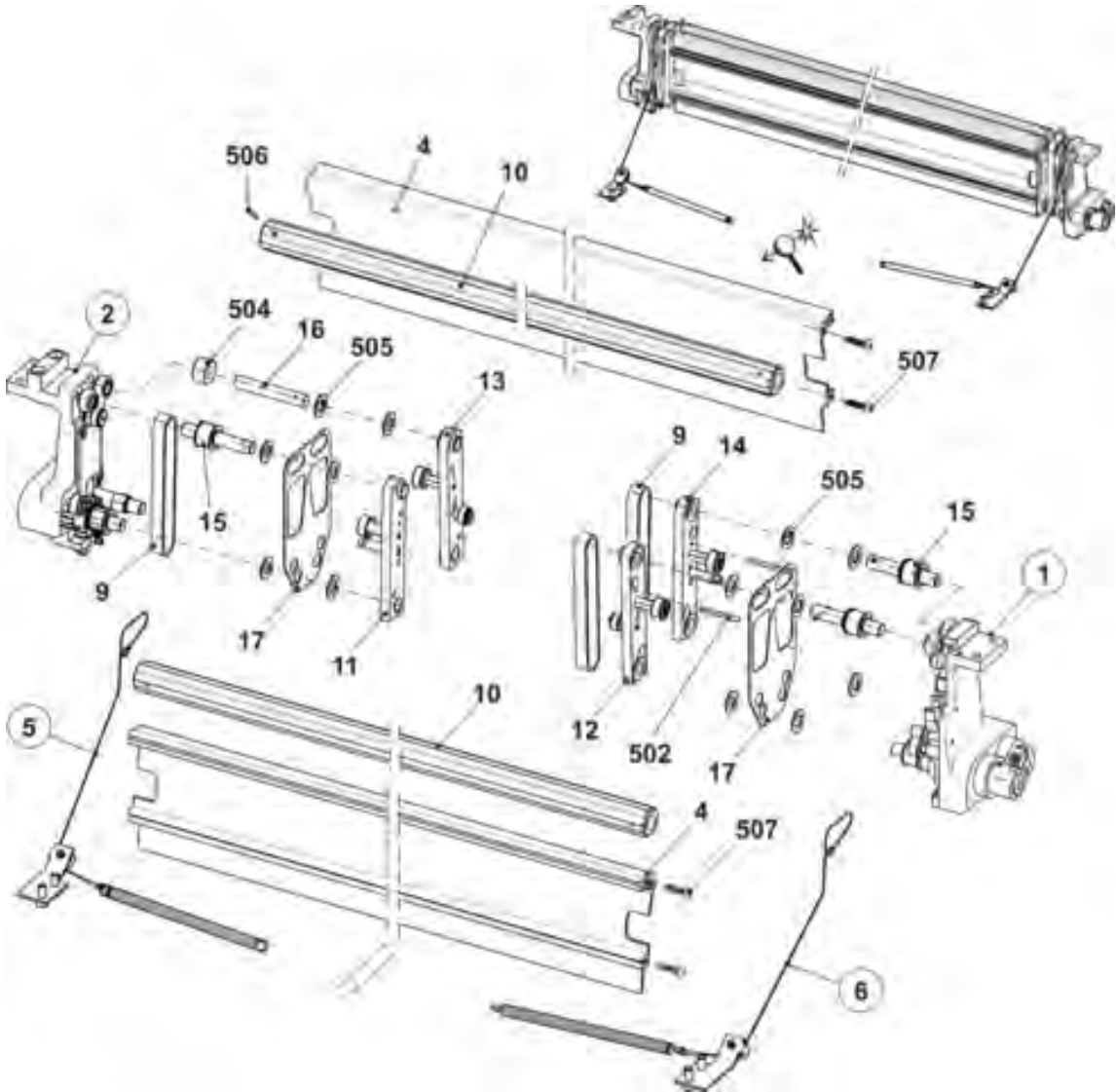
14.10 Additional take-down, Retrofit kit

Pos	Designation	Id		Pos	Designation	Id
Σ	Additional take-down complete, Retrofit kit	257 032		5	Assembling element	209 543
1	Auxiliary take-down pre-assembled	257 008		8*	Yarn brake on the right	240 021
2	Auxiliary take-down in the middle	254 062		500	Countersunk screw M6x10	023 016
3	Guide plate	256 880		501	Cap screw M6x16	020 135
4	Cover on the left	257 470		530*	Pan-head screw M6x12	235 935



14.10.1 Auxiliary take-down pre-assembled

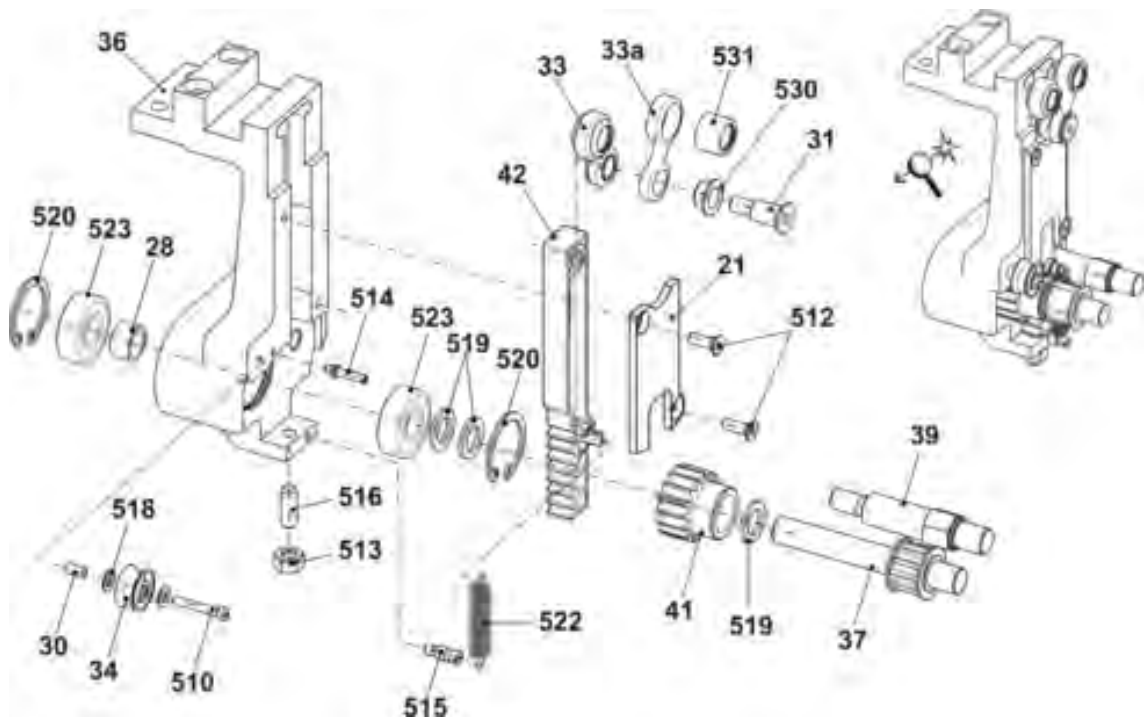
Pos	Designation	Id		Pos	Designation	Id
Σ	Auxiliary take-down pre-assembled	257 008				
1	Bearing on the right complete	239 996		14	Lever at the rear on the right	227 260
2	Bearing on the left complete	239 999		15	Toothed belt pulley complete	226 708
4	Guide plate	256 878		16	Bolts	227 914
5	Metal angle on the left complete	225 013		17	Protective plate	225 754
6	Metal angle on the right complete	225 014		500	Countersunk screw M6x10	023 016
9	Toothed belt10T5/260	208 832		502	Shoulder screw M3x27x32	023 634
10	Take-down roller	256 879		504	Set collar	020 934
11	Lever at the front on the left	227 263		505	Stop disk	023 646
12	Lever at the front on the right	227 262		506	Spring dowel sleeve 3x20	020 776
13	Lever at the rear on the left	227 261		507	Sheet metal screw St4,8x22	023 259



14.10 Additional take-down, Retrofit kit

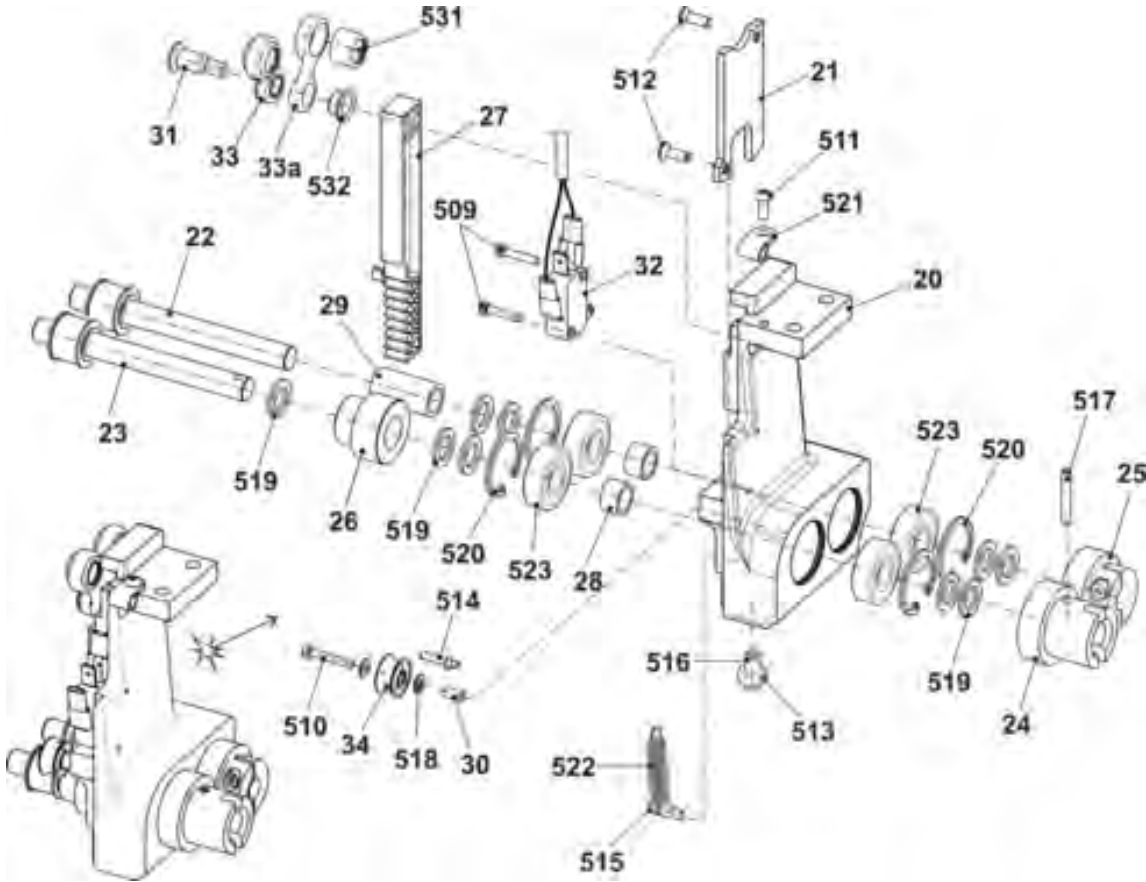
14.10.1.1 Left bearing of the auxiliary take-down

Pos	Designation		Id		Pos	Designation	Id
Σ	Bearing on the left				41	Gear wheel on the left complete	218 523
21	Cover		257 466		42	Gear rack on the left	253 488
28	Threaded spacer		229 683		510	Cap screw M3x20	022 448
30	Sleeve		239 997		512	Countersunk head screw M4x12	023 062
31	Collar bolt		210 551		513	Hexagon nutM6-6	020 836
33	Connecting rod complete		226 710		514	Threaded bolt with shoulder	243 226
	33a	Connecting rod	255 696		515	Shoulder screw M4x9x14	020 602
	530	Slide bearing GFM-081014-06	023 358		516	SetscrewM6x16-45	023 092
	531	Needle bearingHK1010	023 664		518	Shim ring 4x8x0,5	023 384
34	Roller deflector		218 805		519	Shim ring 10x16x1,5	023 261
36	Bearing block on the left		258 914		520	Locking ring26x1,2	023 359
37	Drive shaft complete		227 887		522	Tension spring 7,5x0,7x28	023 595
39	Bolts		226 705		523	Grooved ball bearing 6000-2Z	022 599



14.10.1.2 Right bearing of the auxiliary take-down

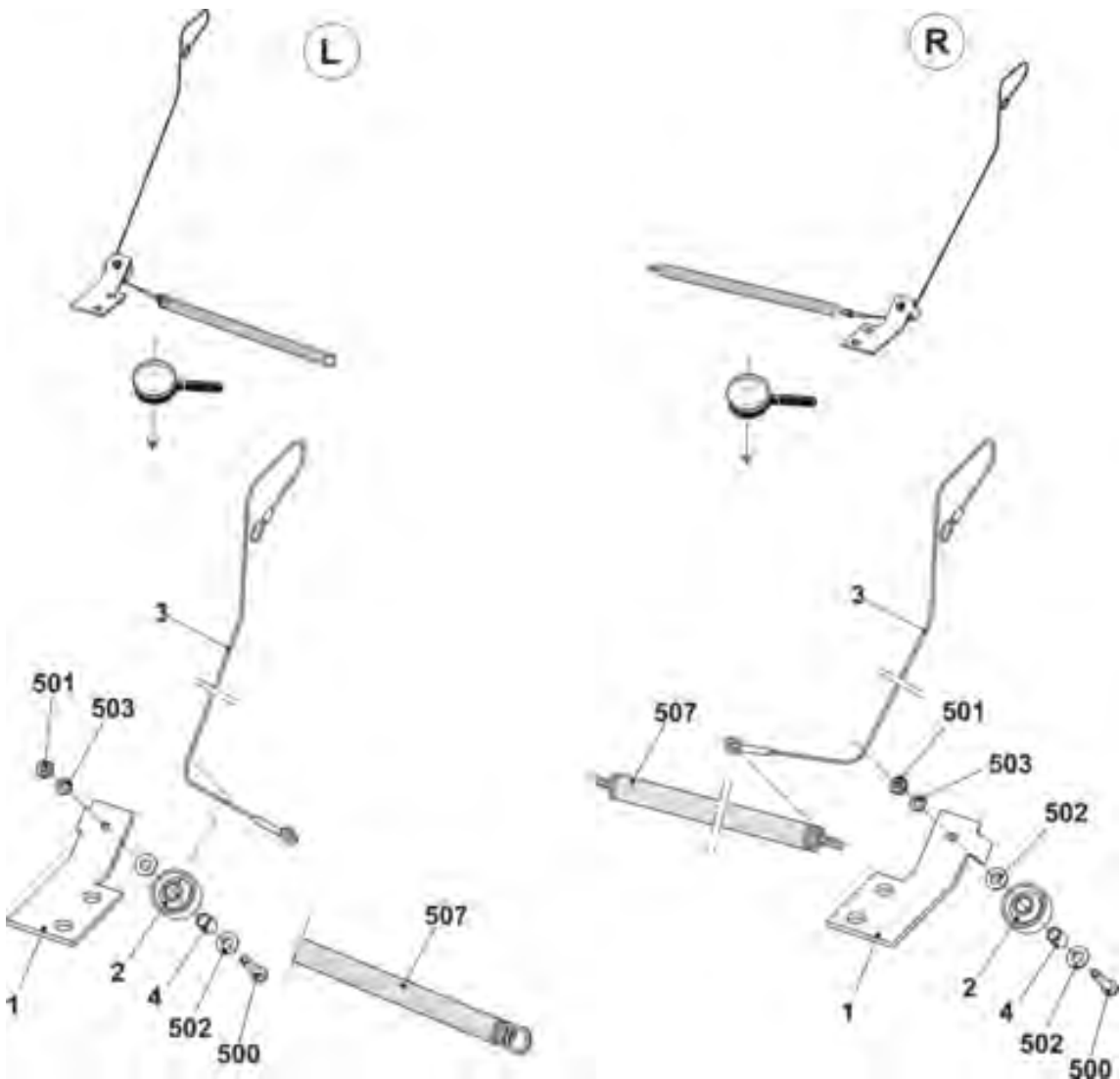
Pos	Designation	Id	Pos	Designation	Id
Σ	Bearing on the right complete		532	Slide bearing GFM-081014-06	023 358
20	Bearing block on the right	258 913	34	Roller deflector	218 805
21	Cover	257 466	500	Cap screw M3x16	022 560
22	Drive shaft complete	227 857	510	Cap screw M3x20	022 448
23	Drive shaft complete	227 853	511	Pan-head screw M4x10	023 450
24	Gear wheel M=1,5, Z=20	213 880	512	Countersunk head screw M4x12	023 062
25	Gear wheel M=1,5 , Z=20	210 504	513	Hexagon nutM6-6	020 836
26	Gear wheel on the right complete	218 524	514	Threaded bolt with shoulder	243 226
27	Gear rack on the right	253 487	515	Shoulder screw M4x9x14	020 602
28	Threaded spacer	229 683	516	SetscrewM6x16-45	023 092
29	Sleeve	227 257	517	Spiral pin 4x24	023 544
30	Sleeve	239 997	518	Shim ring 4x8x0,5	023 384
31	Collar bolt	210 551	519	Shim ring 10x16x1,5	023 261
32	Cable with switch auxiliary take-downokc	243 142	520	Locking ring26x1,2	023 359
33	Connecting rod complete	226 710	521	Fastening clip 255/5,2	008 335
	33a Connecting rod	255 696	522	Tension spring 7,5x0,7x28	023 595
	531 Needle bearingHK1010	023 664	523	Grooved ball bearing 6000-2Z	022 599



14.10 Additional take-down, Retrofit kit

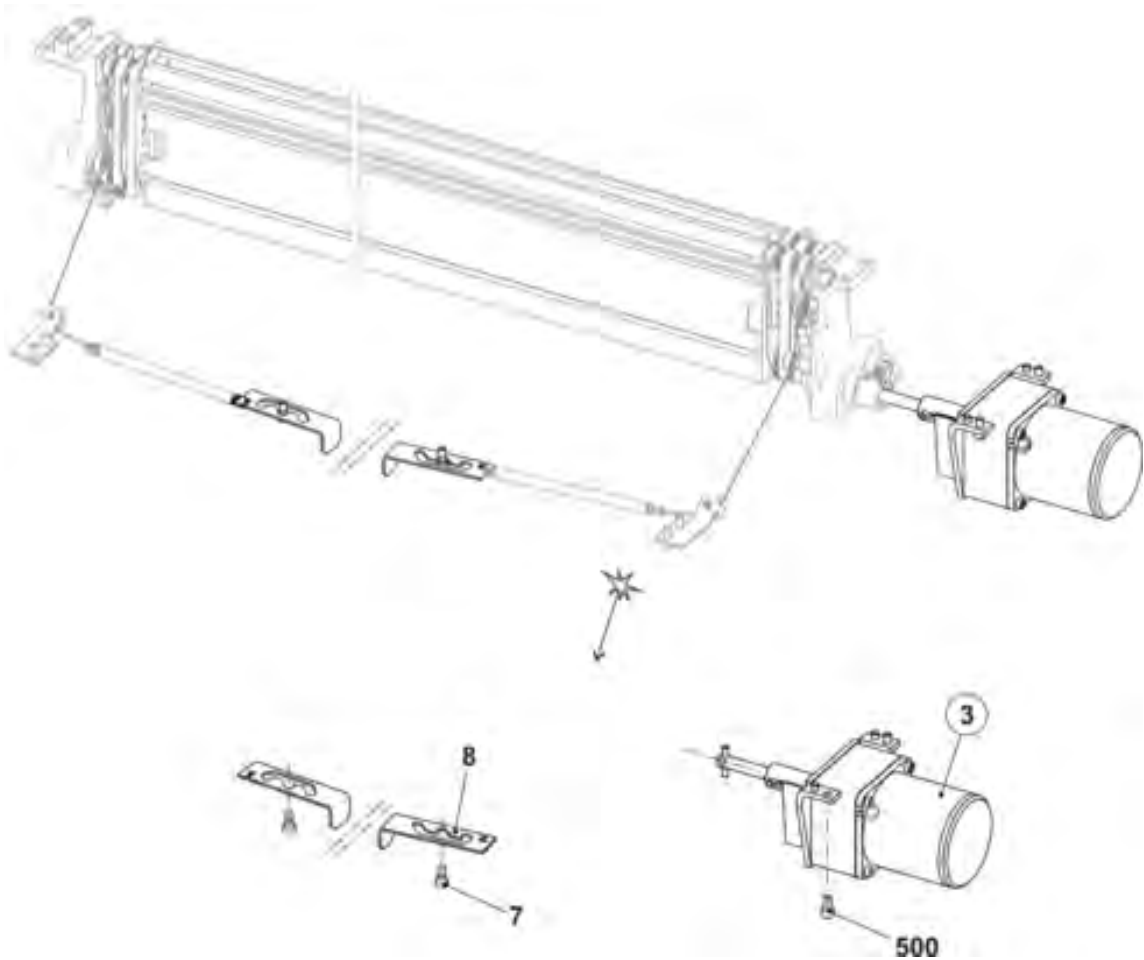
14.10.1.3 Metal angle on the left and right complete

Pos	Designation	Id		Pos	Designation	Id
Σ L	Metal angle on the left complete	225 013		Σ R	Metal angle on the right complete	225 014
1	Metal angle on the left	224 920		1	Metal angle on the right	224 931
2	Roller deflector	218 805		2	Roller deflector	218 805
3	Fine rope	224 977		3	Fine rope	224 977
4	Sleeve	227 867		4	Sleeve	227 867
500	Cap screwM3x16	022 560		500	Cap screwM3x16	022 560
501	Hexagon nut M3-6	022 564		501	Hexagon nut M3-6	022 564
502	Shim ring 4x8x0,5	023 384		502	Shim ring 4x8x0,5	023 384
503	Spring washer A3	021 005		503	Spring washer A3	021 005
507	Tension spring 8x0,9x75	021 287		507	Tension spring 8x0,9x75	021 287



14.10.2 Auxiliary take-down in the middle

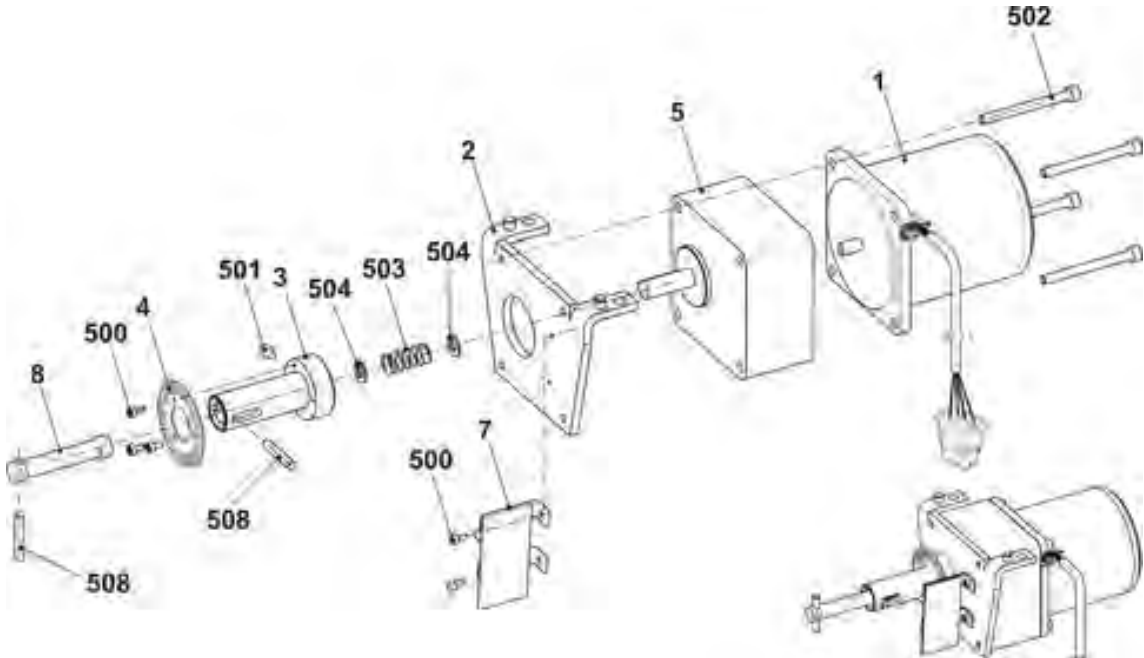
Pos	Designation	Id		Pos	Designation	Id
Σ	Auxiliary take-down in the middle	254 062				
3	Take-down motor complete auxiliary take-down	214 449		8	Detent plate	222 040
7	Shoulder screw	207 101		500	Cap screwM6x12	020 134



14.10 Additional take-down, Retrofit kit

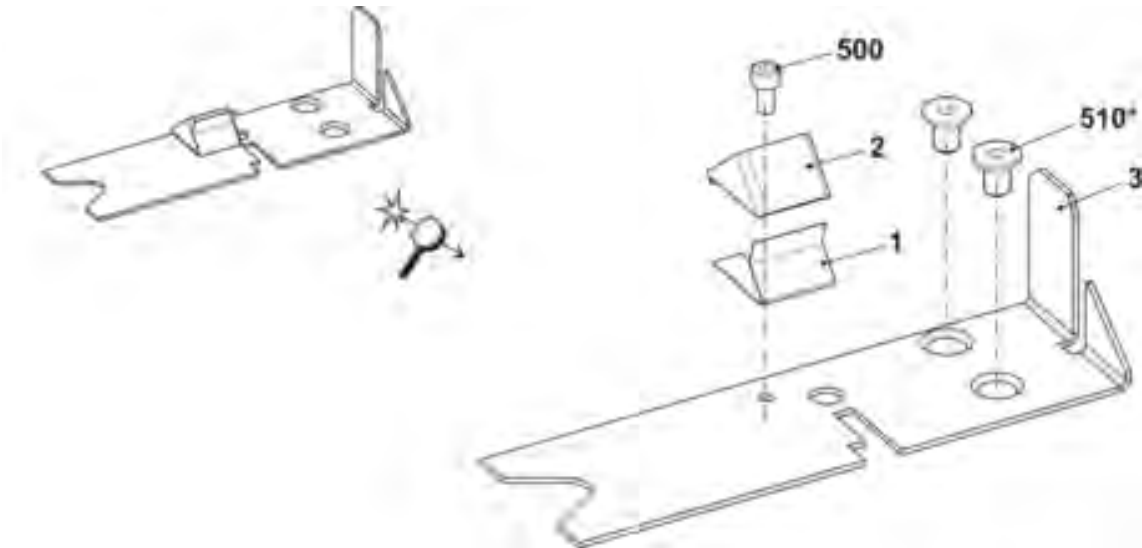
14.10.2.1 Motor

Pos	Designation	Id		Pos	Designation	Id
Σ	Motor auxiliary take-down complete	214 449		8	Shaft	219 025
1	Motor auxiliary take-down	213 871		500	Cap screwM3x6	022 589
2	Motor bracket	218 040		501	Setscrew M6x10	023 543
3	Drive sleeve	219 024		502	Cap screwM5x55	023 321
4	Impulse disc	218 449		503	Compression spring 0,63x10,97x40	023 500
5	Gear unit 4GN36K	220 353		504	Shim ring 6x12x1	023 444
7	Light barrier Auxiliary take-down	217 462		508	Dowel pin 5x28	241 686



14.10.3 Yarn brake on the right

Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn brake on the right	240 021		3	Cover on the right	240 022
1	Leaf spring	232 164		500	Cap screwM4x8	022 501
2	Clamping piece	232 165		510*	Countersunk screw M6x10	023 046



14.11 Sanding Paper Brake

Pos	Designation		ID		Pos	Designation		ID
Σ	Conversion kit sanding paper brake		257 674					
1	Shaft complete		257 509		2	Wave		241 318
	1a	Wave	241 318		3	Support sanding paper brake		257 586
	1b	Adjusting part	257 508		4	Support sanding paper brake on the left		257 626
	510	Compression spring0,32x2,51x14,20	237444		500	Screw KB 60x20		237 682
	511	SetscrewM4x6	022 955		501	SetscrewM4x5		023 088

