

Spare-parts catalog

CMS 502 (Type 626)

Component type 001

E5 | E7 | E12 | E14 | E16 | E18 | E7m.5 | E6.2(12m.10) | E7.2(14/12) | E3,5.2 | E6.2 | E7.2 | E8.2

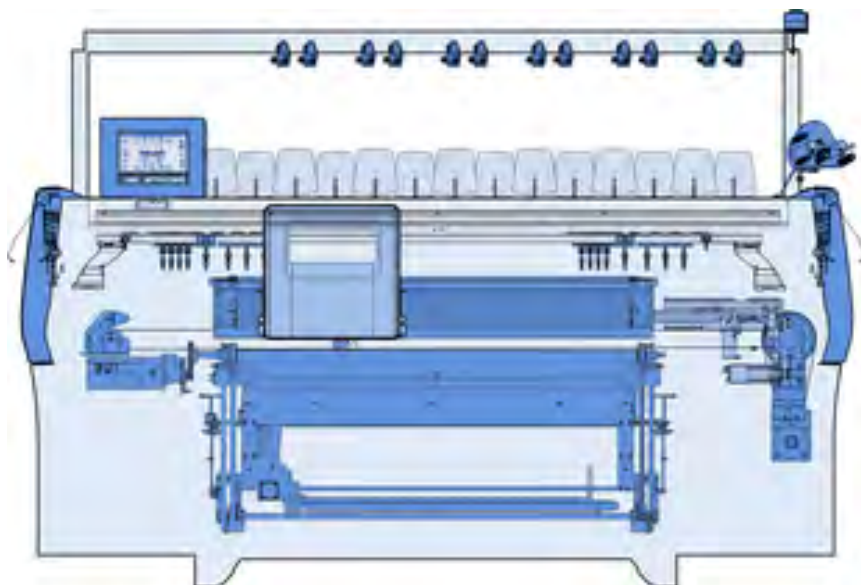


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1 Introduction

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.

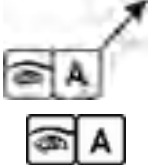
When ordering spare parts we imperatively ask for the following indications as otherwise a delivery of spare parts is not possible:

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

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 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.

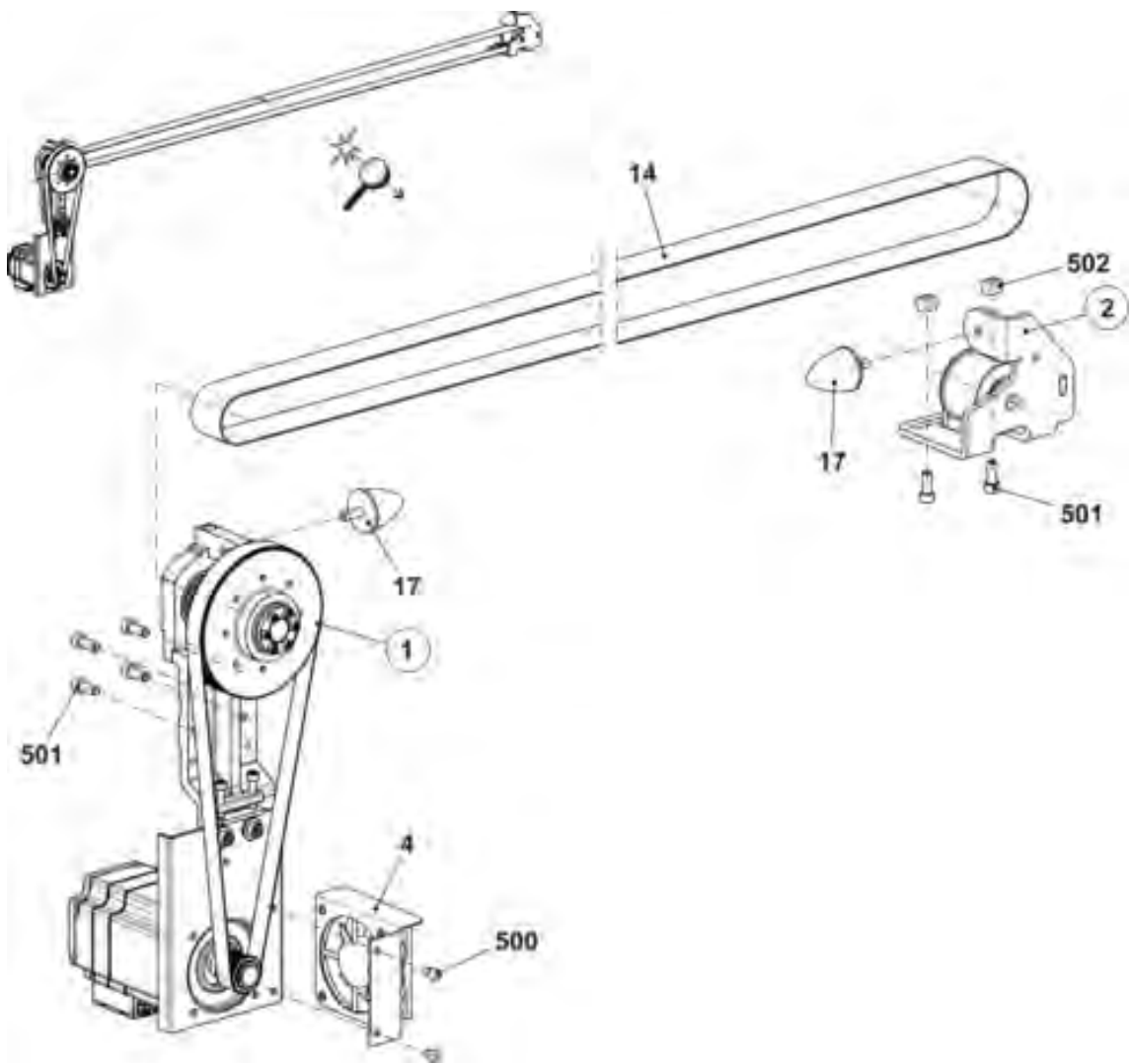
Notes:

2 Carriage drive



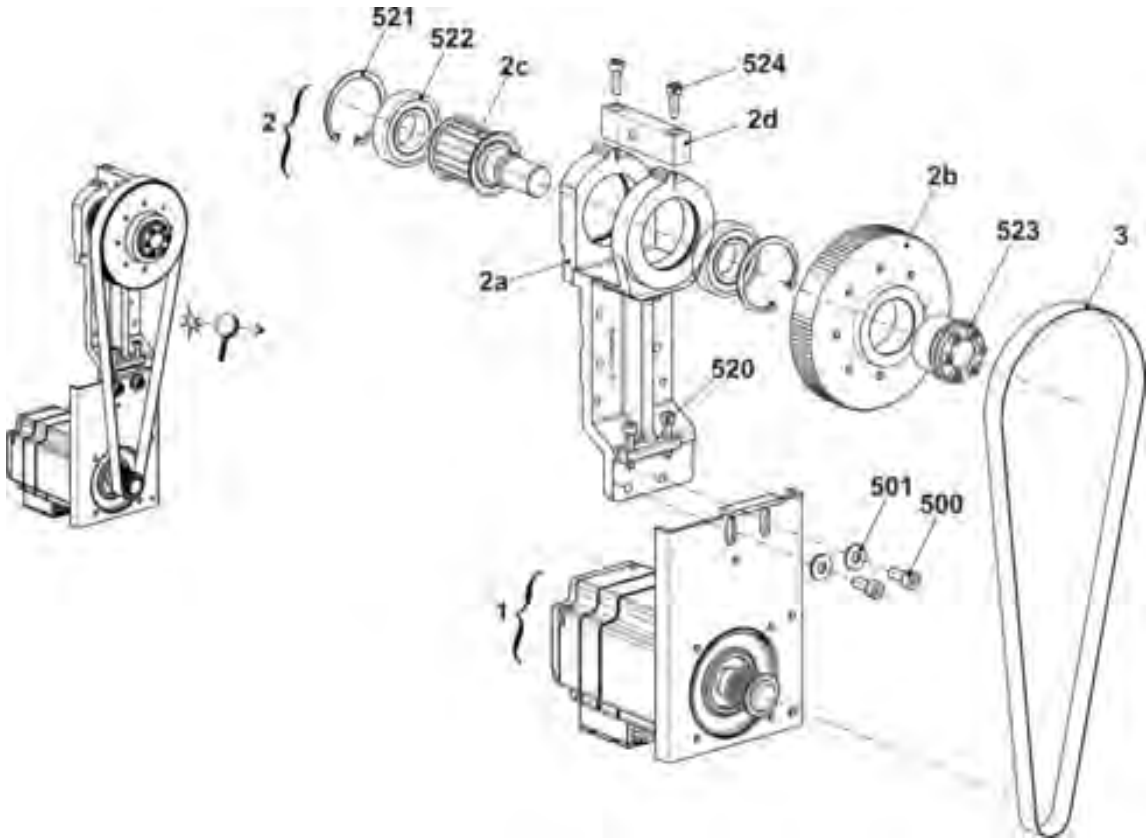
2.1 Drive

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

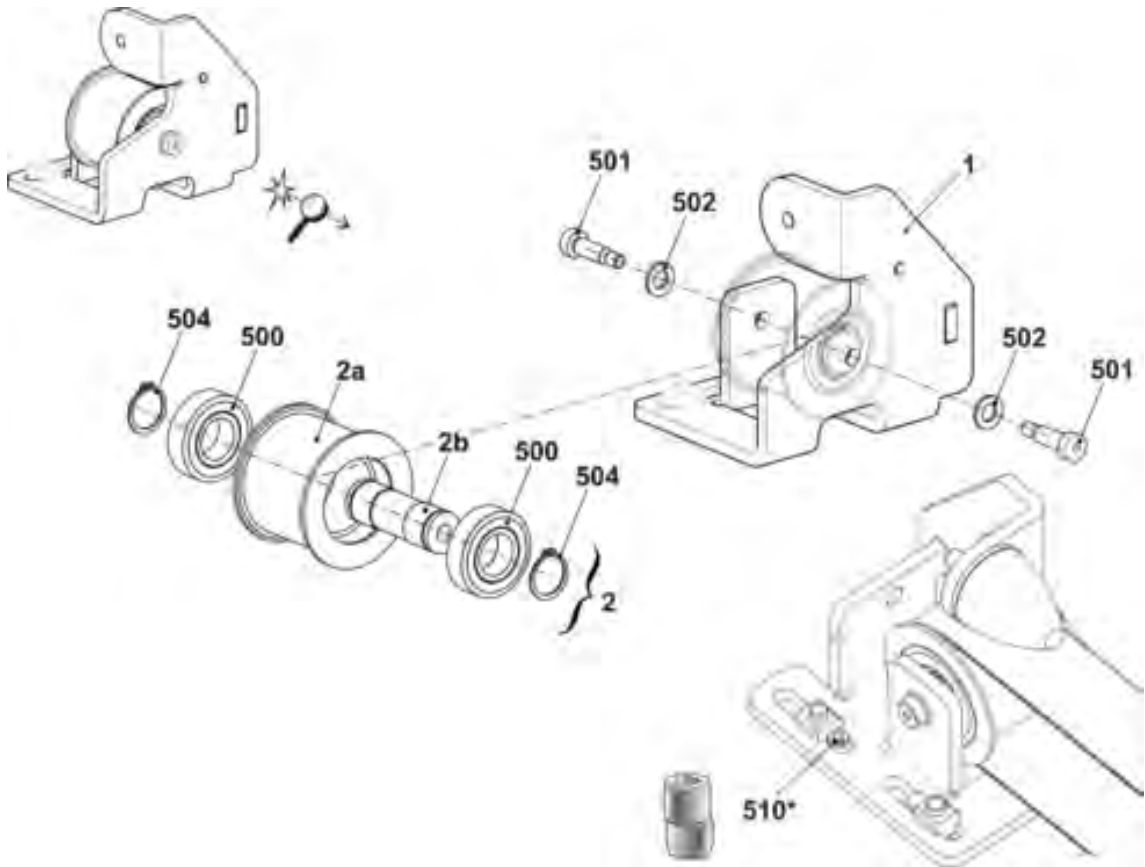
Pos	Designation	Id		Pos	Designation	Id
Σ	Drive unit complete	251 608				
1	Drive unit	258 189		521	Locking ring68x2.5	022 914
2	Drive bearing	251 609		522	Grooved ball bearing6207-2RS	022 915
	2a	Drive bearing		523	Tension set 30X55	023 208
	2b	Toothed belt pulley		524	Cap screw M8X25 12.9	020 142
	2c	Pinion57 AT10 18		3	Toothed belt	252 594
	2d	Support of buffer		500	Cap screw M10X25	020 157
	520	Cap screw M8X35		501	Disk10,5X25X2,5	022 178



2.1 Drive

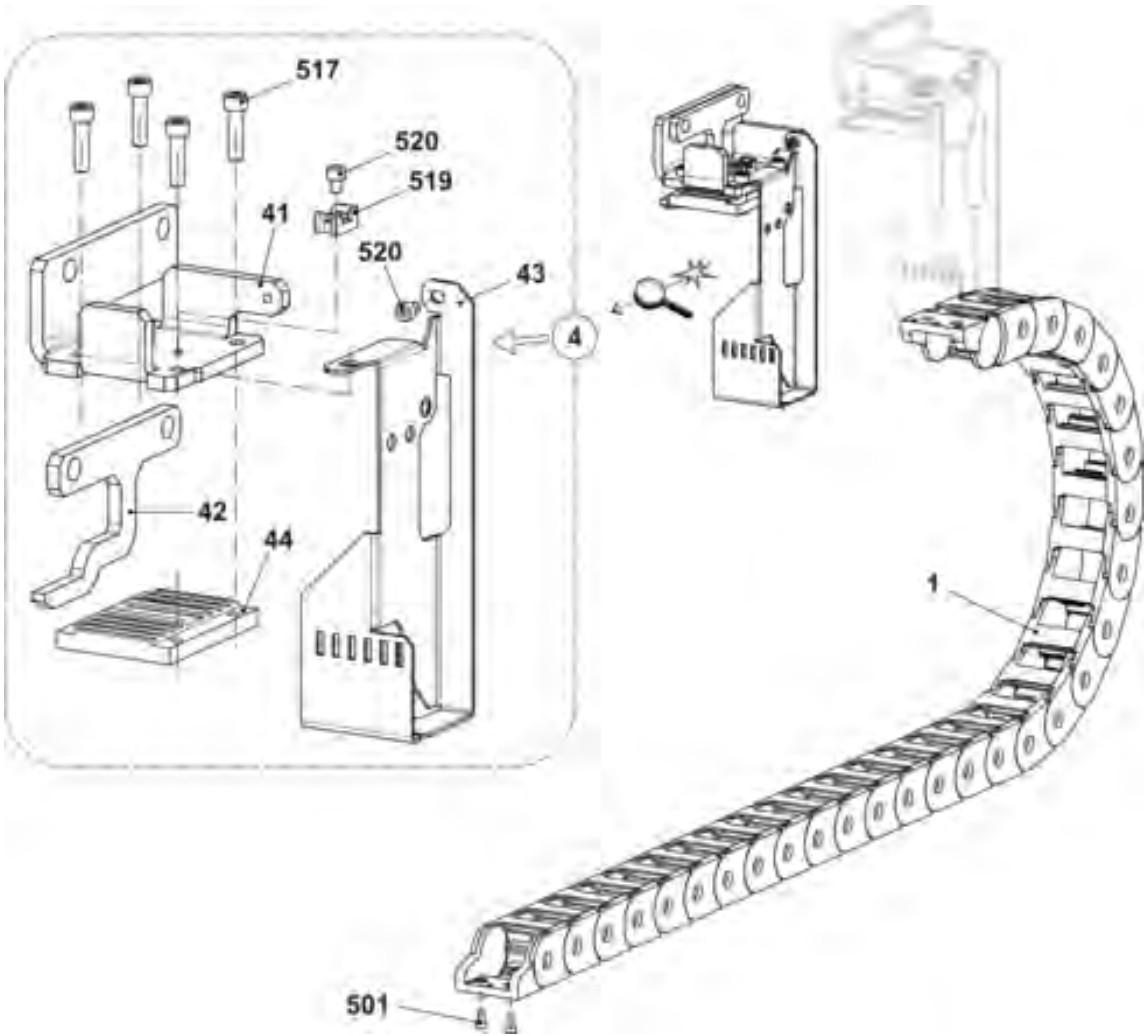
2.1.2 Tension bearing

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		259 282			517	Cap screwM8x30	020 143
	41	Carriage driver	259 285			519	Fixing element	026 489
	42	Switch flag carriage driver	259 283			520	Cap screwM6x8	023 411



2.2 Energy chain and plunger

Notes:

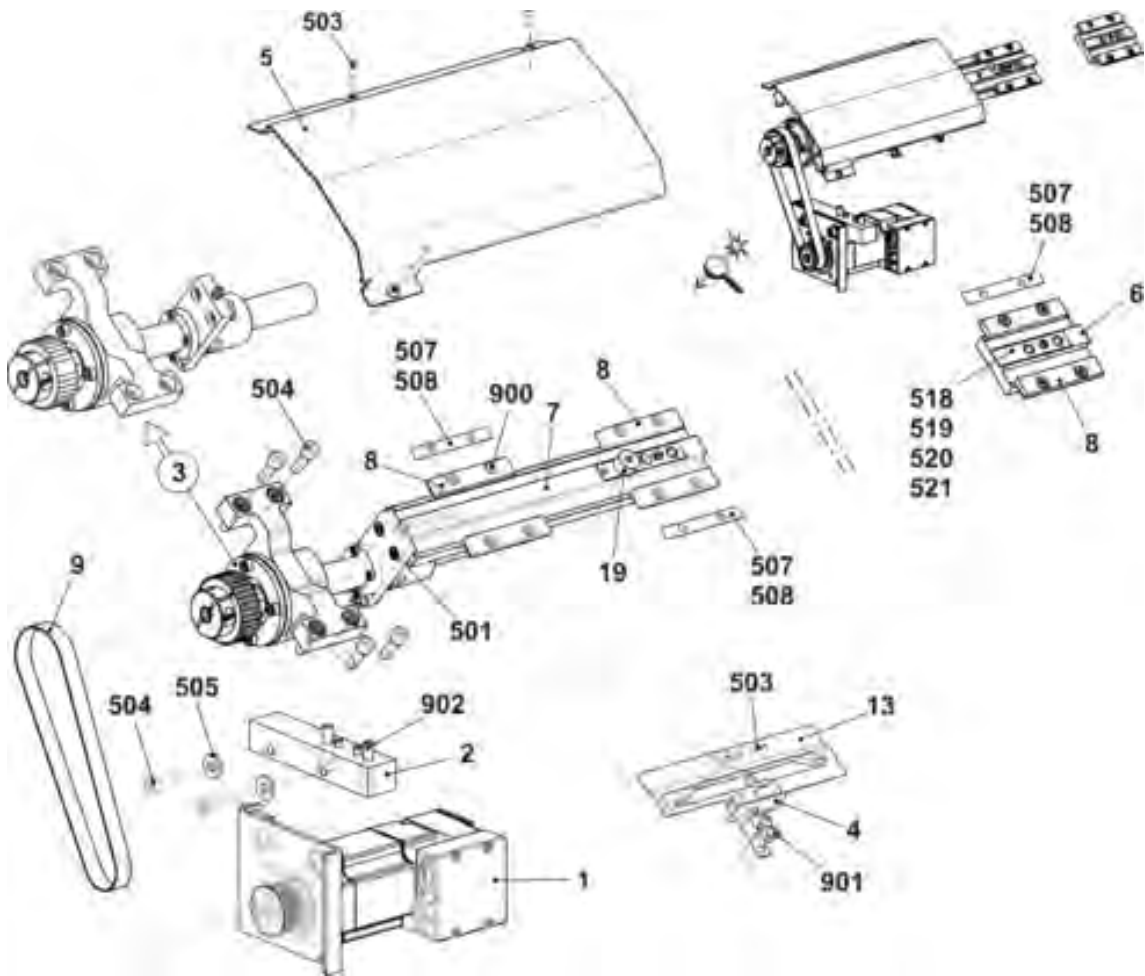
3 Racking



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



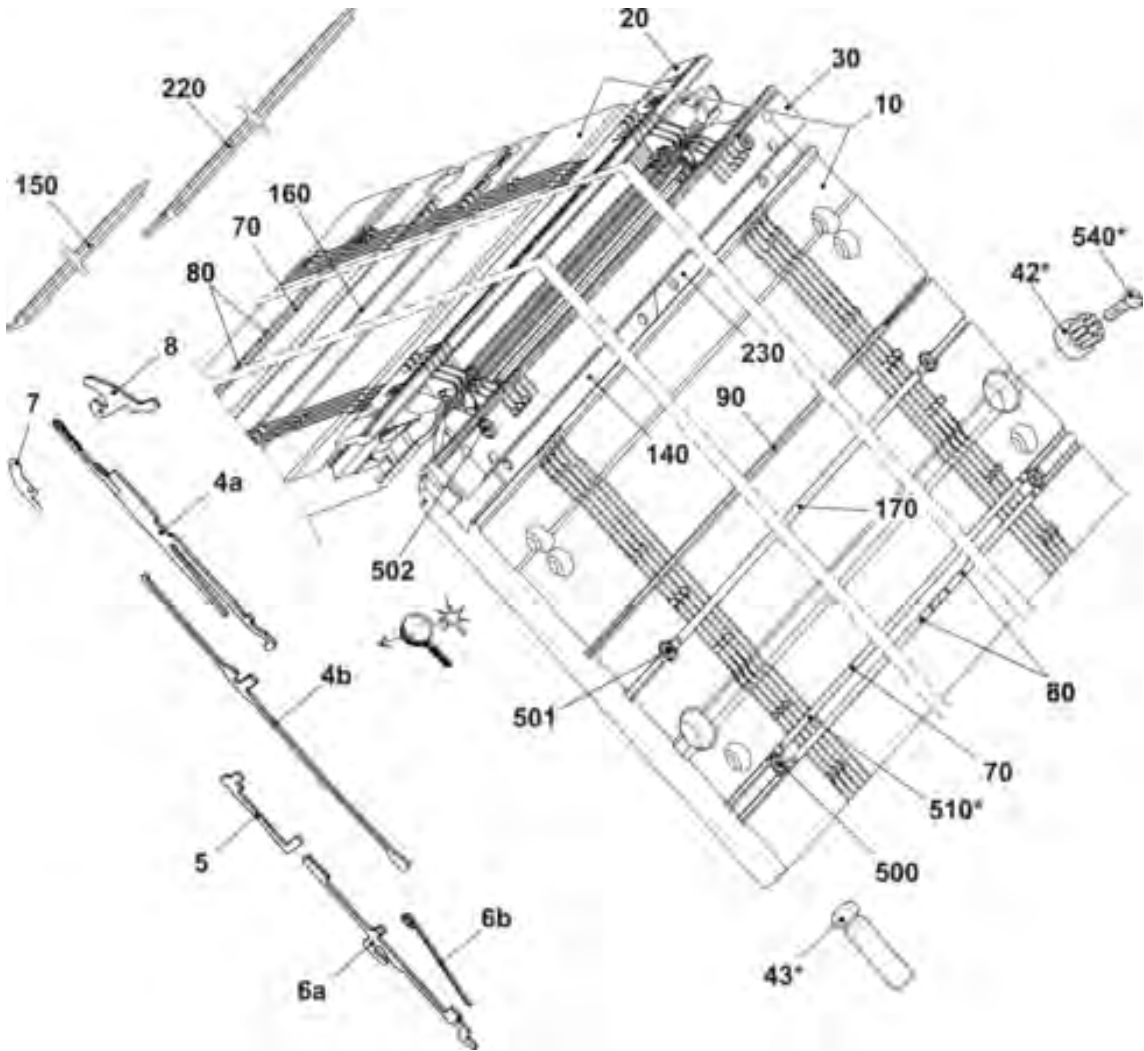
4 Needle beds



4.1 Needle bed E5

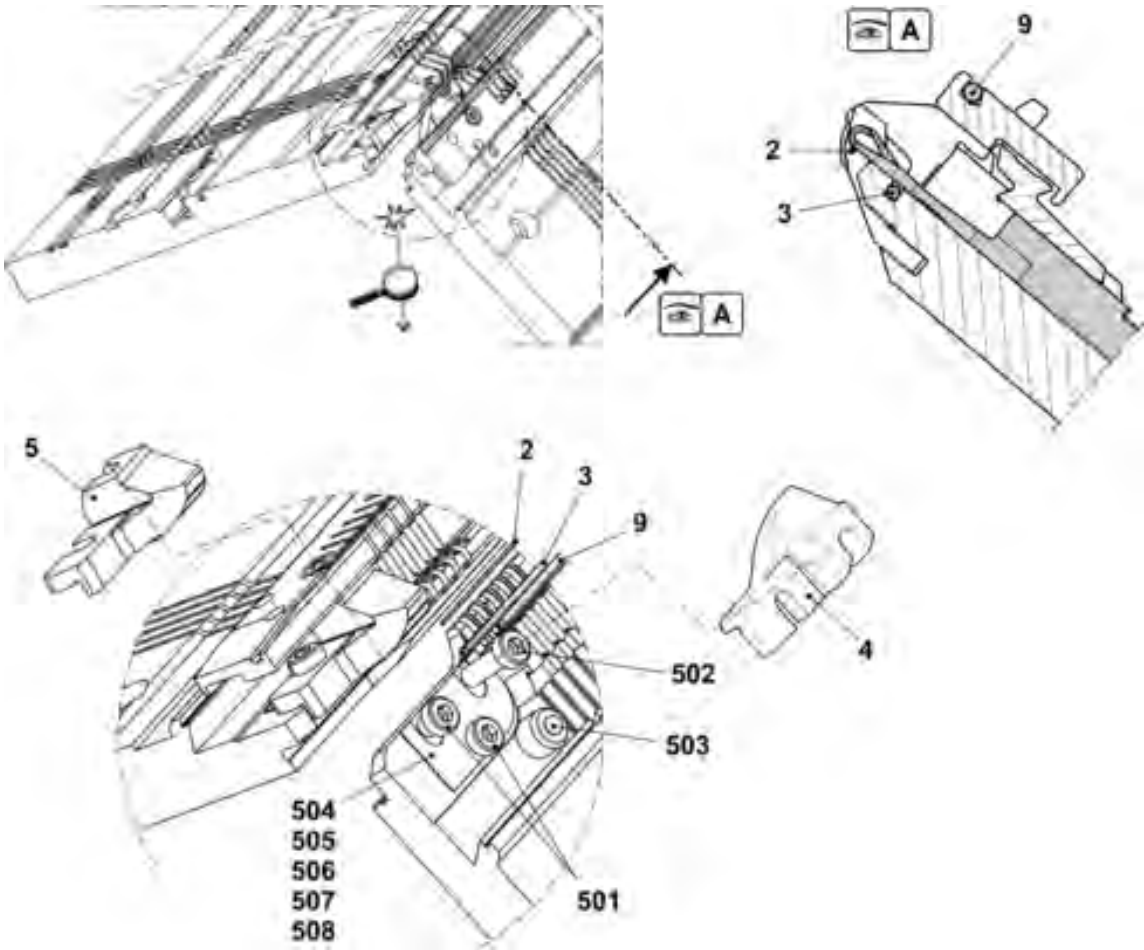
4.1 Needle bed E5

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E5	252 665				
4a	Needle E5 - E6 with round hook	205 396		90	Locating wire D=2,8	207 270
4b	Coupling part E4 - E8	200 682		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 screwM5x10	022 918
20	Holding-down jack bed at the rear E5	250 537		502	Cap screwM5x22	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 screwM5x12	020 032



4.1.1 Continuation needle bed E5

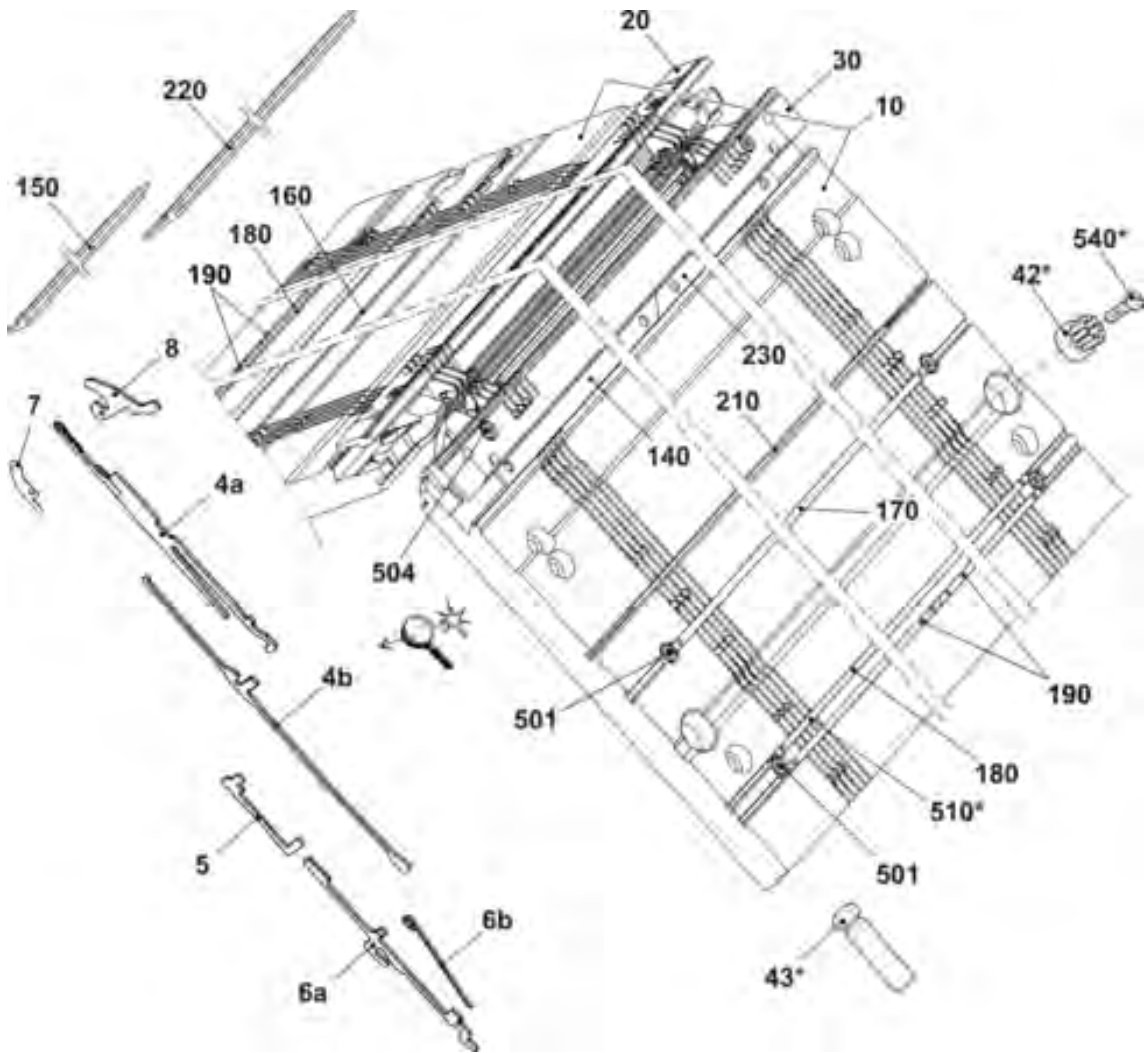
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E5	252 665		502	Cap screwM5x22	023 193
2	Spring steel wire ø 1,0	207 482		503	Springy thrust piece	023 177
3	Spring steel wire ø 2,0	207 269		504	Shim 0,02x18,5x34	023 194
4	Limiter on the left E4-8	205 343		505	Shim 0,03x18,5x34	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

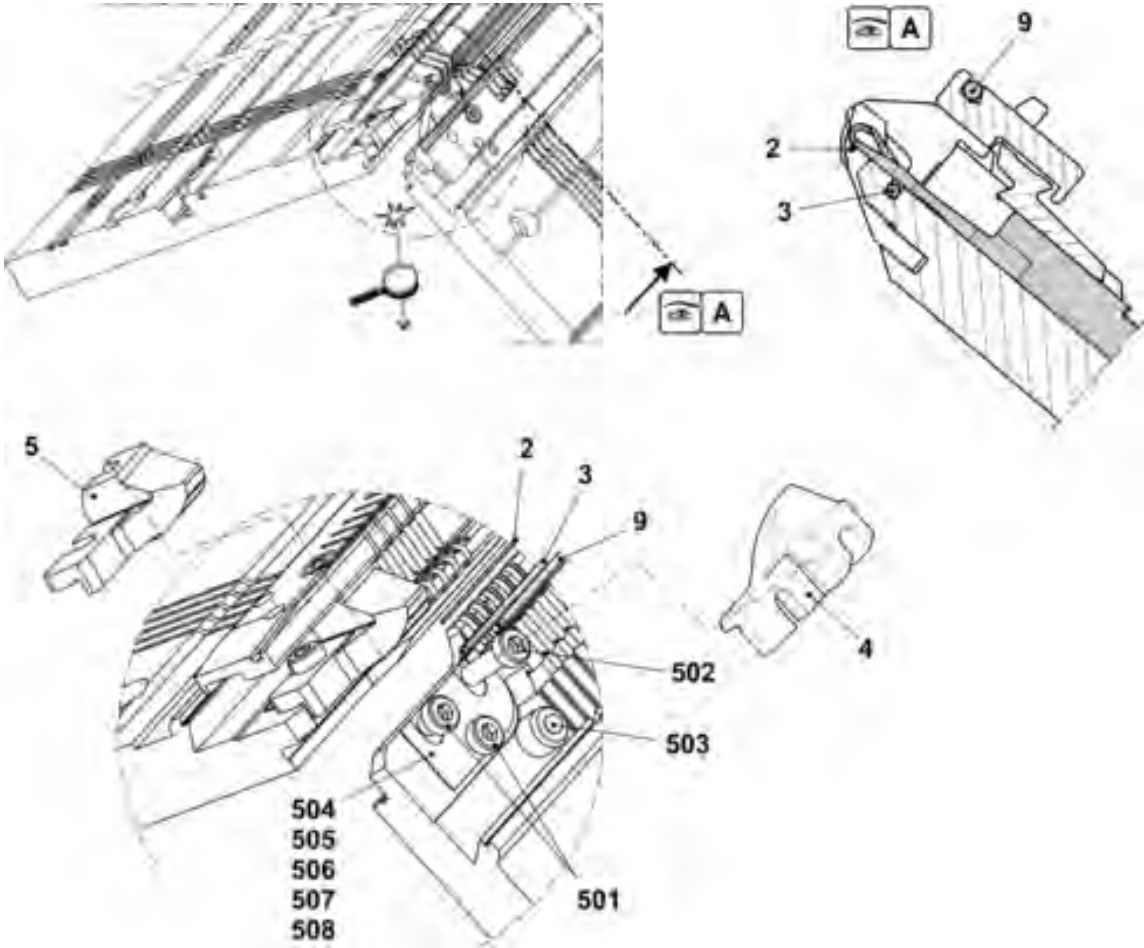
4.2 Needle bed E7

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7	252 667				
4a	Needle E7 with round hook	205 397		160	Cover rail at the rear	250 572
4b	Coupling part E4-8	200 682		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 screwM5x10	022 918
20	Holding-down jack bed at the rear E7	250 539		504	Cap screwM5x22	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 screwM5x12	020 032



4.2.1 Continuation needle bed E7

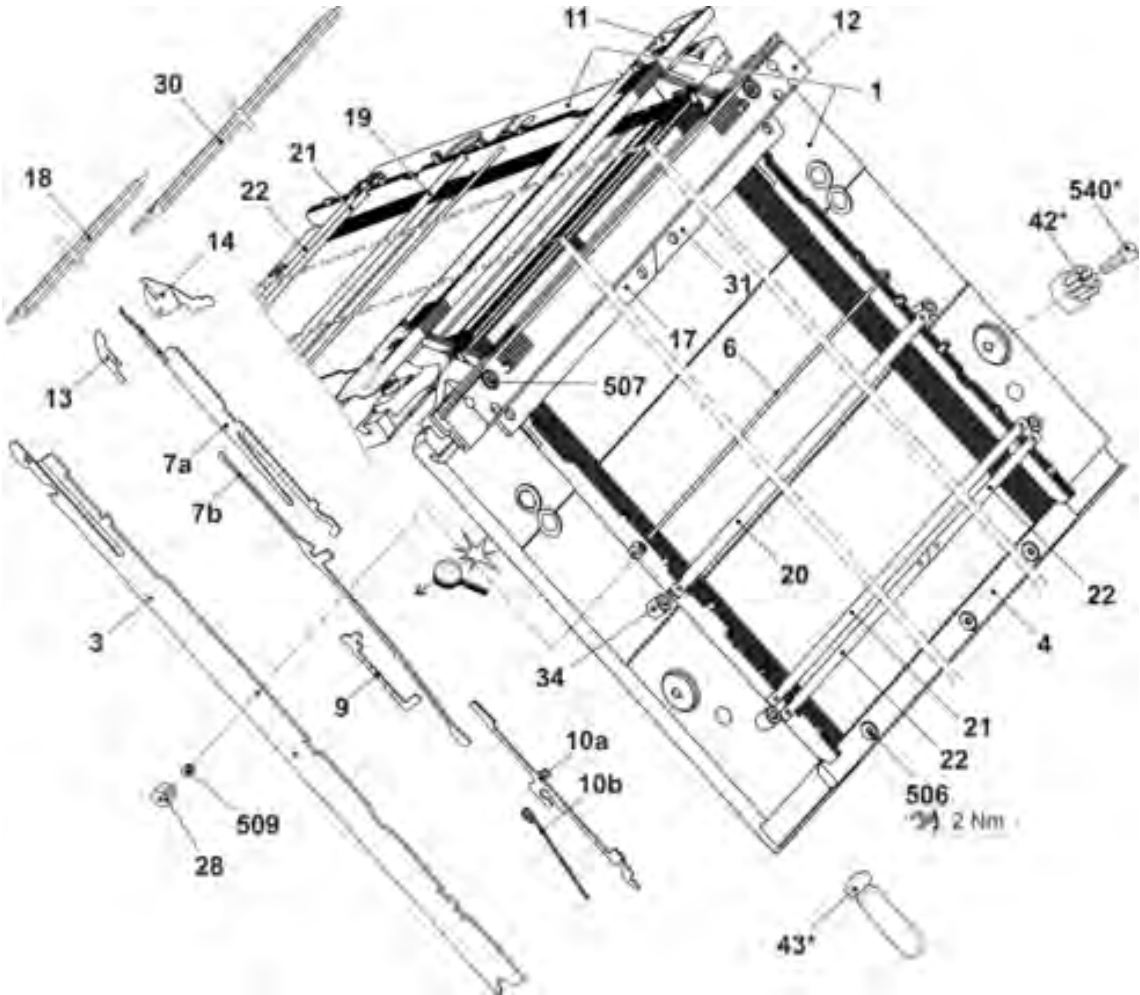
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7	252 667		502	Cap screwM5x22	023 193
2	Spring steel wire ø 0,8	207 483		503	Springy thrust piece	023 177
3	Spring steel wire ø 2,0	207 269		504	Shim 0,02x18,5x34	023 194
4	Limiter on the left E4-8	205 343		505	Shim 0,03x18,5x34	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



4.3 Needle bed E12

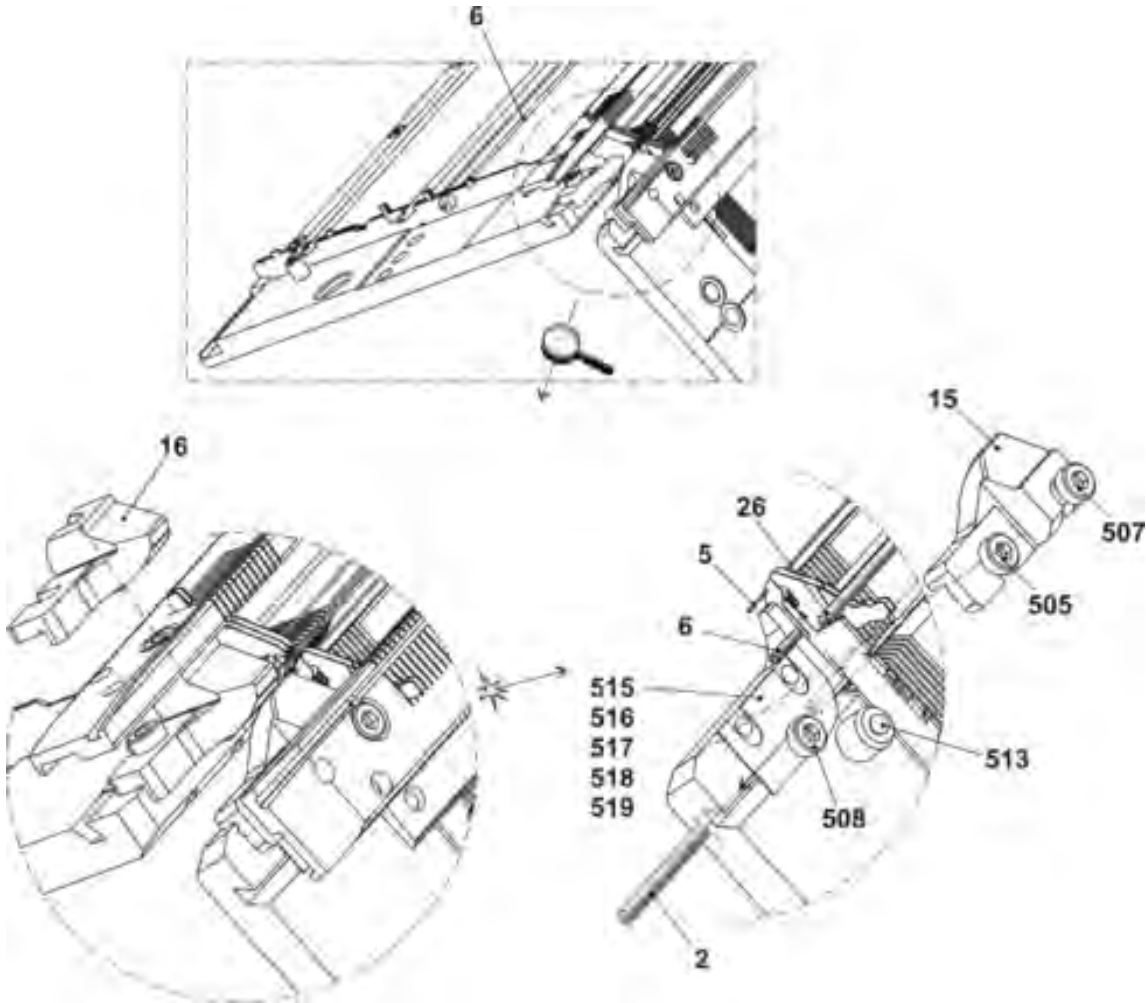
4.3 Needle bed E12

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E12	252 668		18	Needle bar rear on the right	237 836
1	Needle bed at the front + rearE12	252 064		19	Cover rail at the rear	250 572
3	Main trick wall E12	252 628		20	Cover rail at the front E12	250 593
4	Pressure slide E12-14	252 040		21	Cover rail	250 575
6	Spring steel wire ø2,0	207 269		22	Cover rail	250 576
7a	Needle E12	204 009		28	Bush	206 090
7b	Coupling part E10 - E12	200 683		30	Needle bar on the left at the rear	253 908
9	Intermediate slider with brake E10-12	237 324		31	Needle bar on the right at the rear	253 910
10a	Selection jack E10-12	200 688		34	Stop screw	214 039
10b	Selector spring E10-12	200 691		506	Cap screwM5x8	023 379
11	Holding-down jack bed at the rear E12	250 545		507	Cap screwM5x22	023 193
12	Holding-down jack bed at the front E12	250 544		509	Setscrew M3,5x3-1	020 512
13	Knock-over bit E12	205 013		42*	Disk brush	202 600
14	Holding-down jack trick wall E12	227 821		43*	Adjusting bolt	251 772
17	Needle bar on the left at the front	237 835		540*	Cap screwM5x12	020 032



4.3.1 Continuation needle bed E12

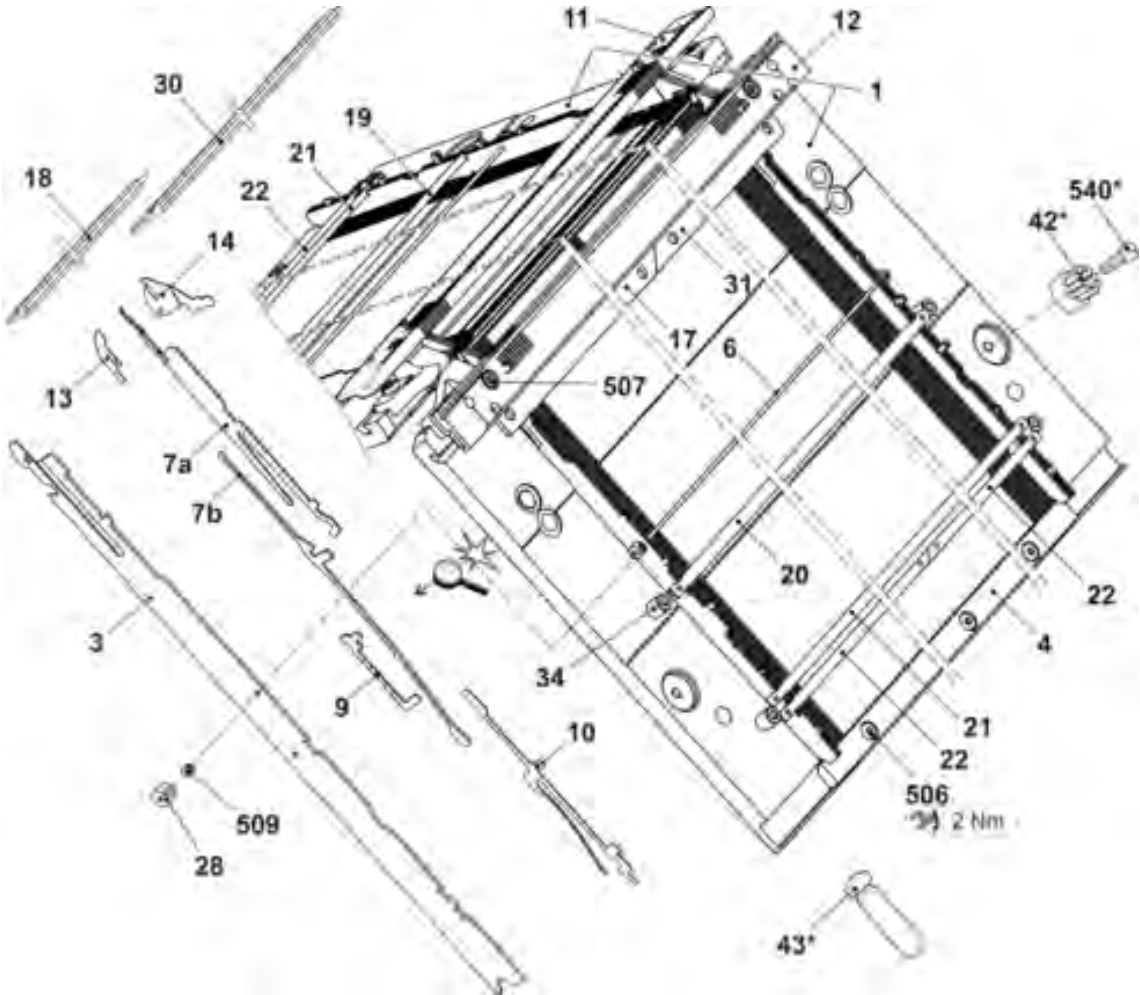
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E12	252 668		507	Cap screwM5x22	023 193
2	Locating wire ø3,4	208 389		508	Cap screwM5x12-8.8	022 943
5	Spring steel wire ø0,6	208 388		513	Springy thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0,02x18,5x345	023 194
15	Limiter on the left E10 - E14	205 764		516	Shim 0,03x18,5x34	023 195
16	Limiter on the right E10 - E14	205 765		517	Shim 0,05x18,5x34	023 196
26	Locating wire ø2,8	207 270		518	Shim 0,1x18,5x34	023 197
505	Cap screwM5x8-8.8	023 154		519	Shim 0,2X18,5X34	023 253



4.4 Needle bed E14

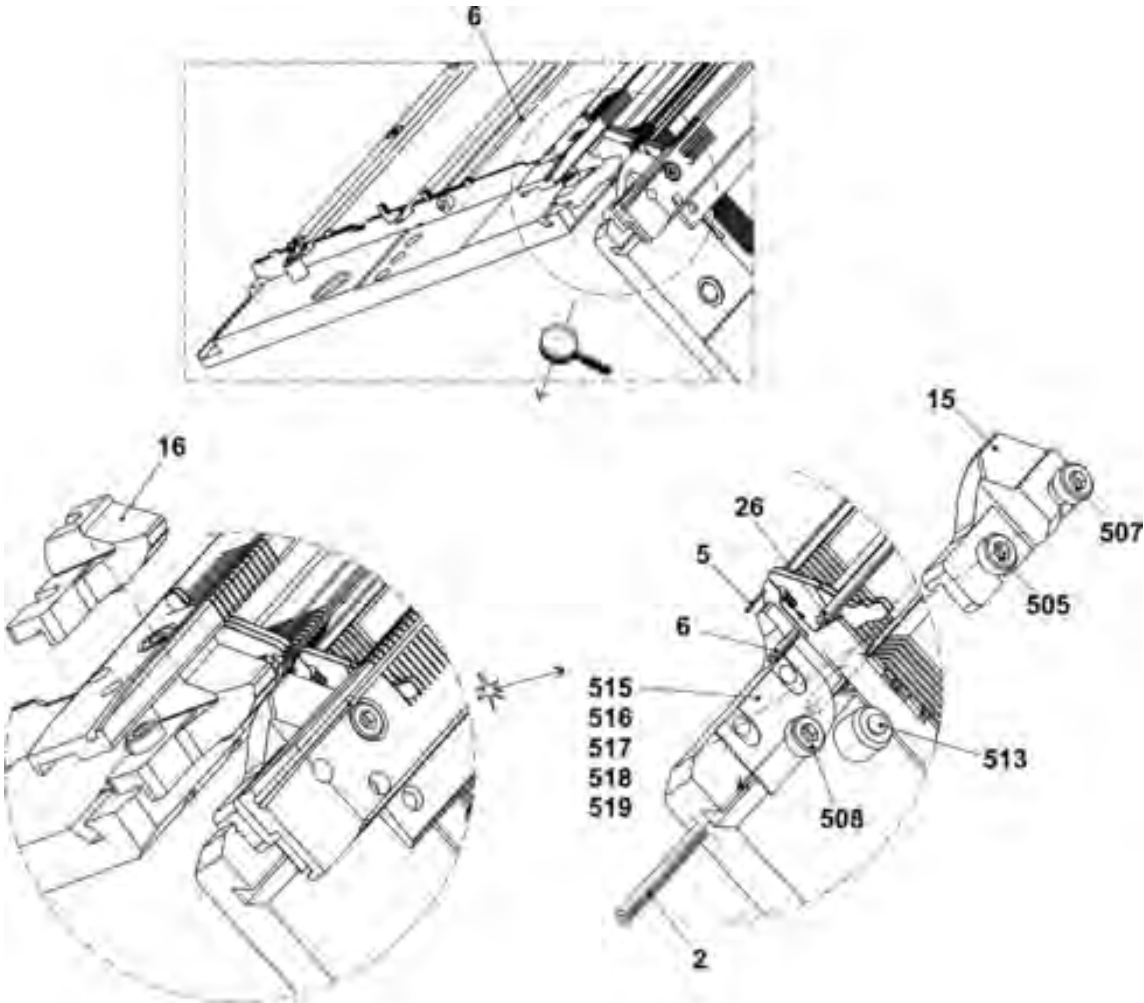
4.4 Needle bed E14

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E14	252 669				
1	Needle bed at the front + rearE14	251 587		19	Cover rail at the rear	250 572
3	Main trick wall E14	252 629		20	Cover rail at the front E14	250 571
4	Pressure slide E12 - E14	252 040		21	Cover rail	250 575
6	Spring steel wire ø2,0	207 269		22	Cover rail	250 576
7a	Needle E14	209 614		28	Bush	206 090
7b	Coupling part E14	253 383		30	Needle bar on the left at the rear	253 908
9	Intermediate slider with brake E14	237 373		31	Needle bar on the right at the rear	253 910
10	Selection jack with spring E14	224 725		34	Stop screw	214 039
11	Holding-down jack bed at the rear E14	250 547		506	Cap screwM4-M5x8	023 379
12	Holding-down jack bed at the front E14	250 546		507	Cap screwM5x22	023 193
13	Knock-over bit E14	209 649		509	Setscrew M3,5x3-1	020 512
14	Holding-down jack trick wall E14	235 262		42*	Disk brush	202 600
17	Needle bar on the left at the front	237 835		43*	Adjusting bolt	251 772
18	Needle bar rear on the right	237 836		540*	Cap screwM5x12	020 032



4.4.1 Continuation needle bed E14

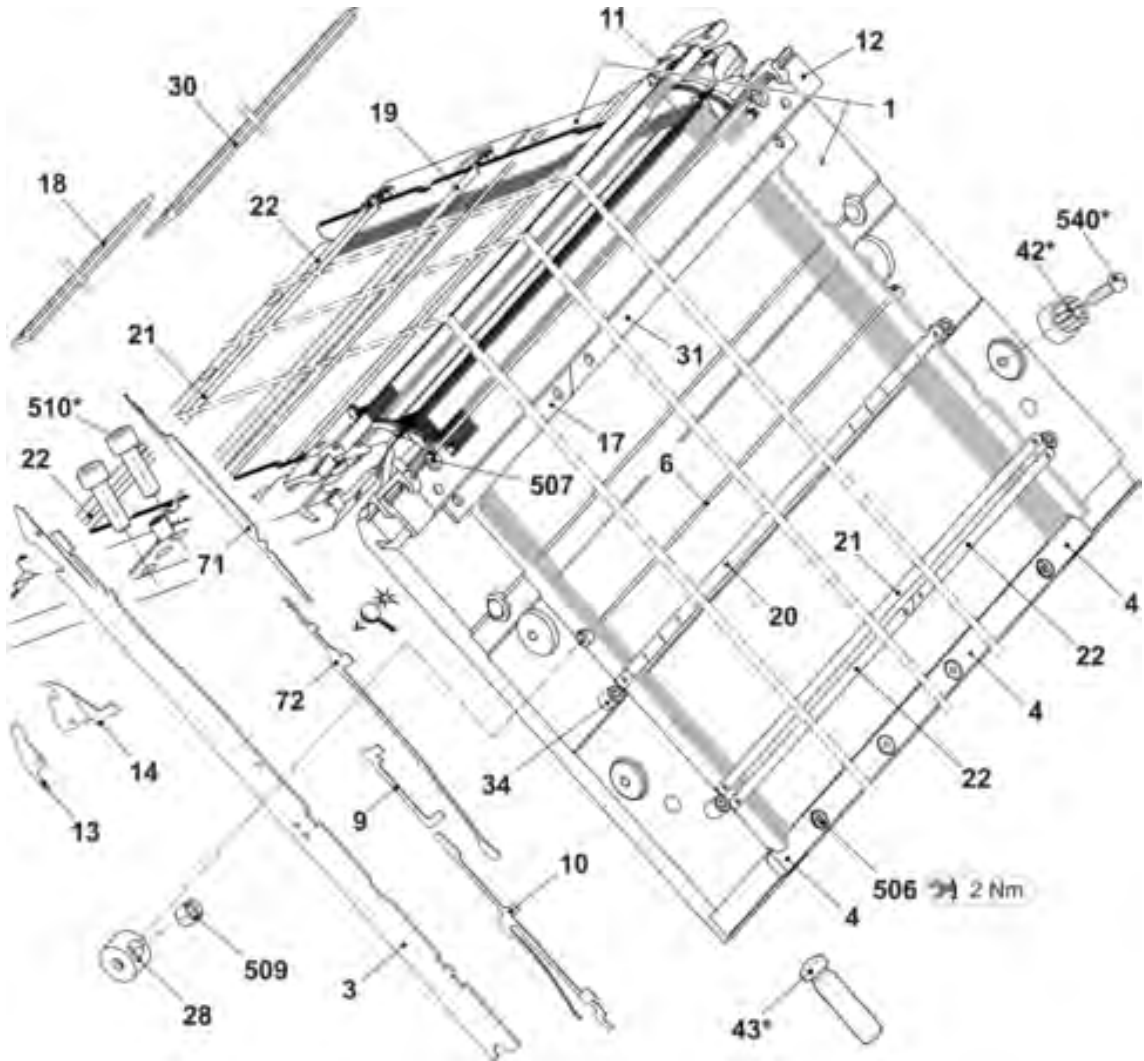
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E14	252 669		507	Cap screwM5x22	023 193
2	Locating wire ø3,4	208 389		508	Cap screwM5x12-8.8	022 943
5	Spring steel wire ø0,6	208 388		513	Springy thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0,02x18,5x345	023 194
15	Limiter on the left E10 - E14	205 764		516	Shim 0,03x18,5x34	023 195
16	Limiter on the right E10 - E14	205 765		517	Shim 0,05x18,5x34	023 196
26	Locating wire ø2,8	207 270		518	Shim 0,1x18,5x34	023 197
505	Cap screwM5x8-8.8	023 154		519	Shim 0,2X18,5X34	023 253



4.5 Needle bed E16

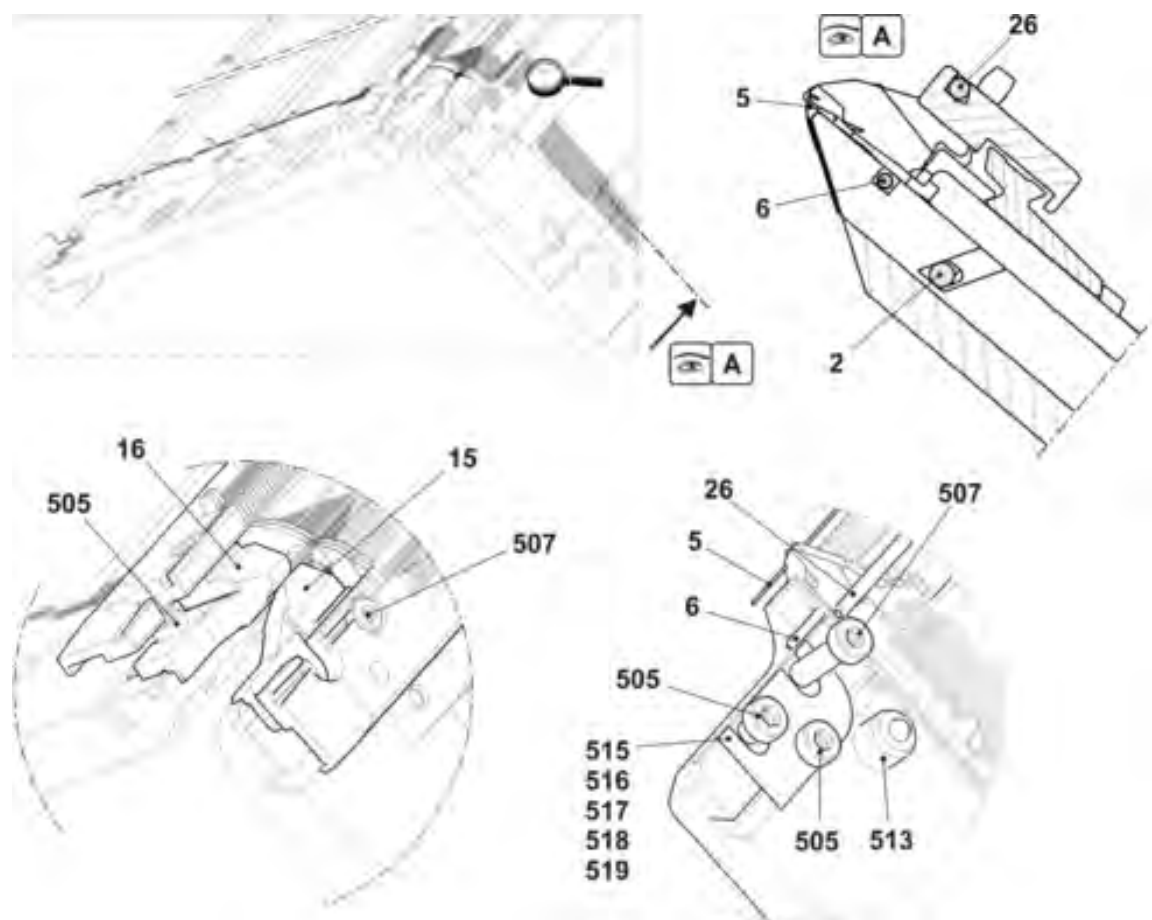
4.5 Needle bed E16

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front + rearE16	256 820		19	Cover rail at the rear	250 572
1	Needle bed at the front + rearE16	256 746		20	Cover rail at the front E16	250 587
3	Main trick wall E16	245 319		21	Cover rail	250 575
4	Pressure slide E12-14	252 040		22	Cover rail	250 576
6	Spring steel wire ø2,0	207 269		28	Bush	206 090
71	Needle E16	232 243		30	Needle bar on the left at the rear	253 908
72	Coupling part E16-18	253 384		31	Needle bar on the right at the rear	253 910
9	Intermediate slider with brake E16-18	237 326		34	Stop screw	214 039
10	Selection jack E16-20	222 265		503	Cap screwM6x14	022 658
11	Holding-down jack bed at the rear E16	250 549		506	Cap screwM4-M5x8	023 379
12	Holding-down jack bed at the front E16	250 548		507	Cap screwM5x22	023 193
13	Knock-over bit E8.2	258 400		509	Setscrew M3,5x3-1	020 512
14	Holding-down jack E16	222 504		42*	Disk brush ø12	202 600
17	Needle bar on the left at the front	237 835		43*	Adjusting bolt	251 772
18	Needle bar rear on the right	237 836		540*	Cap screwM5x12	020 032



4.5.1 Continuation needle bed E16

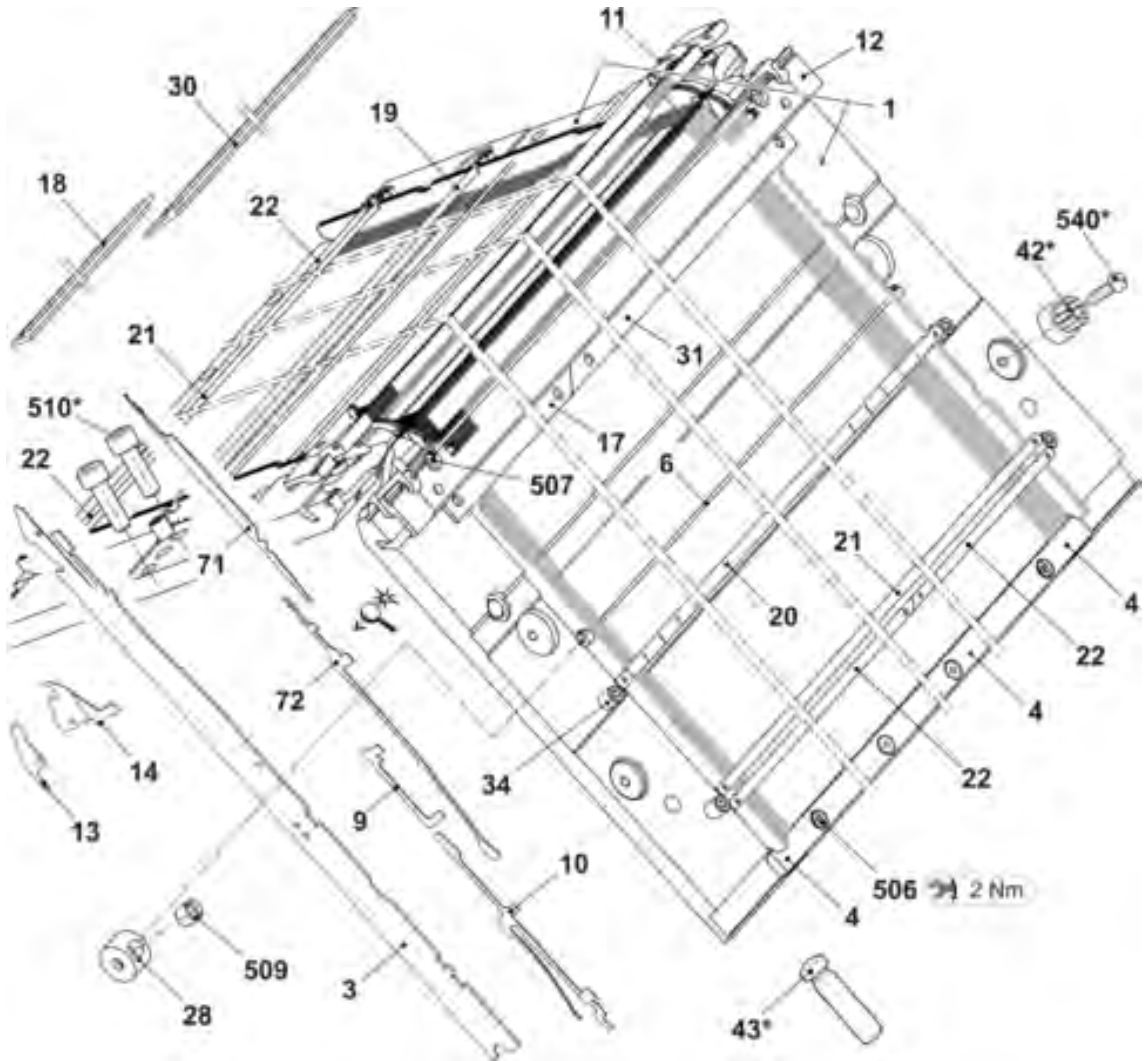
Pos	Designation	Id		Pos	Designation	Id
2	Locating wire $\varnothing 3,4$	208 389		507	Cap screw M5x22	023 193
5	Spring steel wire $\varnothing 0,5$	250 690		513	Springy thrust piece	023 177
6	Spring steel wire $\varnothing 2,0$	207 269		515	Shim 0,02x18,5x34	023 194
15	Limiter on the left E16-20	220 821		516	Shim 0,03x18,5x34	023 195
16	Limiter on the right E16-20	220 822		517	Shim 0,05x18,5x34	023 196
26	Locating wire $\varnothing 2,8$	256 860		518	Shim 0,1x18,5x34	023 197
505	Cap screw M5x8	023 154		519	Shim 0,2x18,5x34	023 253



4.6 Needle bed E18

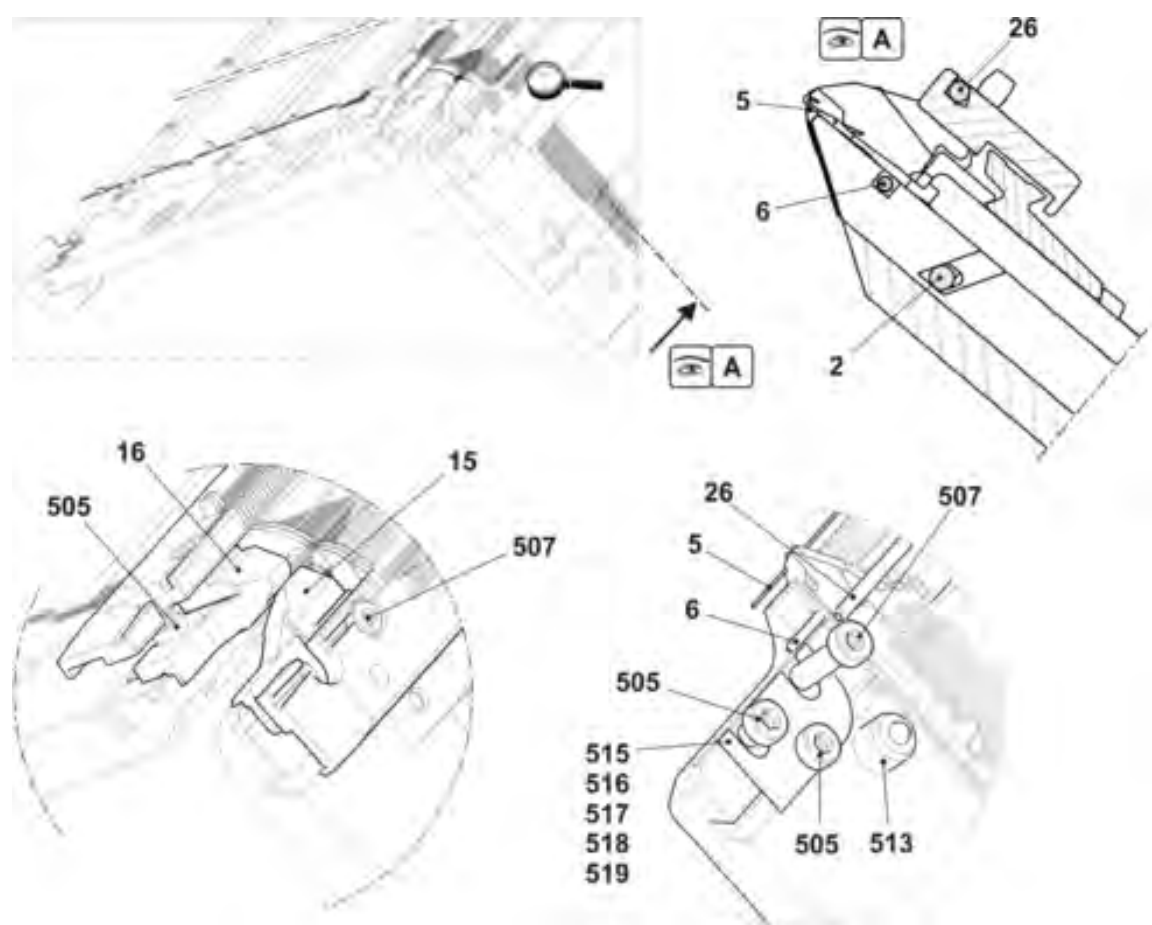
4.6 Needle bed E18

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front + rearE18	256 876		19	Cover rail at the rear	250 572
1	Needle bed at the front + rearE18	256 747		20	Cover rail at the front E18	256 864
3	Main trick wall E18	251 051		21	Cover rail	250 575
4	Pressure slide E12-14	252 040		22	Cover rail	250 576
6	Spring steel wire ø2,0	207 269		28	Bush	206 090
71	Needle E18	239 527		30	Needle bar on the left at the rear	253 908
72	Coupling part E10-12	253 384		31	Needle bar on the right at the rear	253 910
9	Intermediate slider with brake E16-18	237 326		34	Stop screw	214 039
10	Selection jack E16-20	222 265		503	Cap screwM6x14	022 658
11	Holding-down jack bed at the rear E18	250 551		506	Cap screwM4-M5x8	023 379
12	Holding-down jack bed at the front E18	250 550		507	Cap screwM5x22	023 193
13	Knock-over bit 0,8 mm	258 595		509	Setscrew M3,5x3-1	020 512
14	Holding-down jack E18	220 770		42*	Disk brush ø12	202 600
17	Needle bar on the left at the front	237 835		43*	Adjusting bolt	251 772
18	Needle bar rear on the right	237 836		540*	Cap screwM5x12	020 032



4.6.1 Continuation needle bed E18

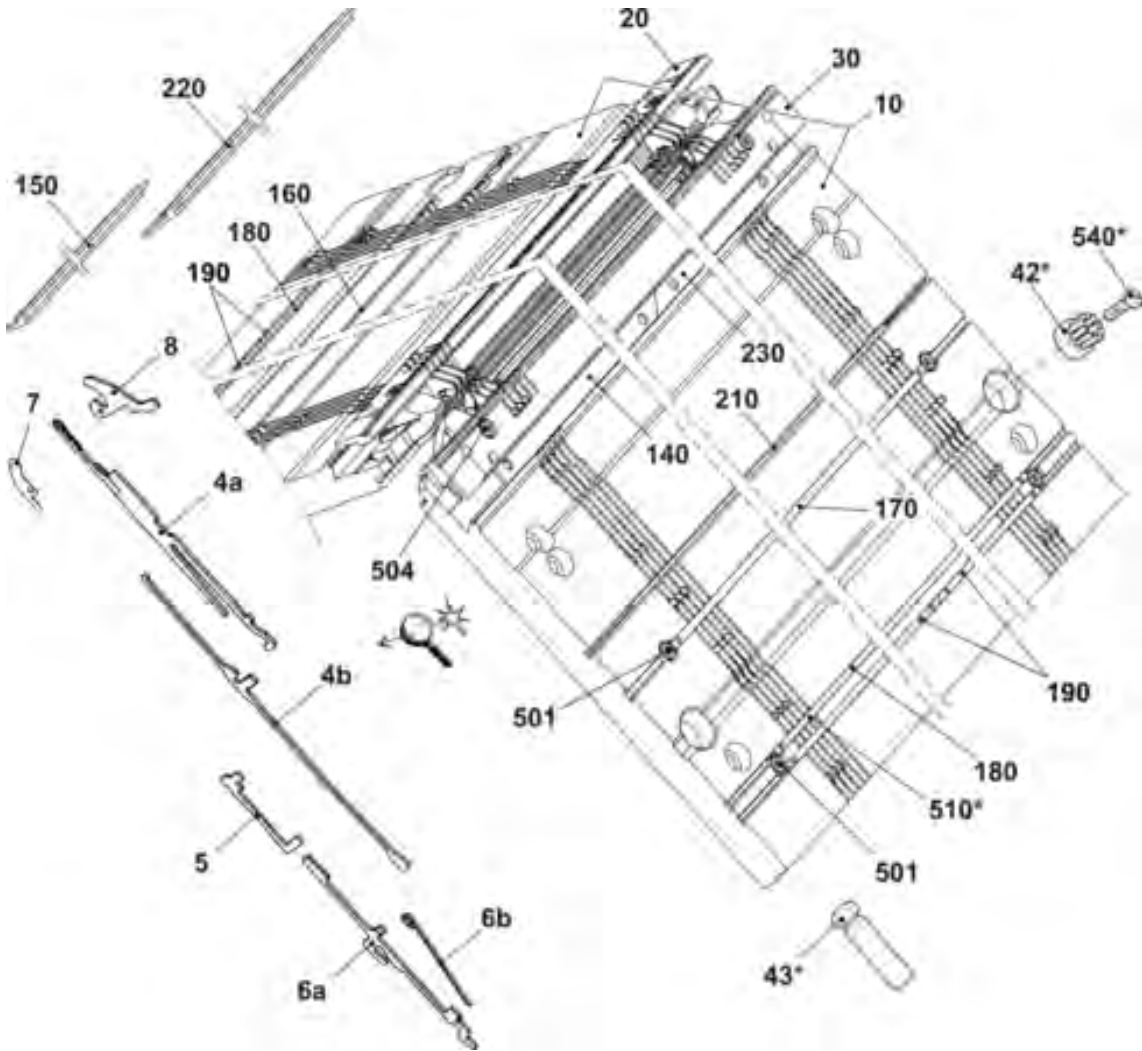
Pos	Designation	Id		Pos	Designation	Id
2	Locating wire $\varnothing 3,4$	208 389		513	Springy thrust piece	023 177
5	Spring steel wire $\varnothing 0,5$	250 690		515	Shim 0,02x18,5x345	023 194
15	Limiter on the left E16-20	220 821		516	Shim 0,03x18,5x34	023 195
16	Limiter on the right E16-20	220 822		517	Shim 0,05x18,5x34	023 196
26	Locating wire $\varnothing 2,8$	256 860		518	Shim 0,1x18,5x34	023 197
507	Cap screw M5x22	023 193		519	Shim 0,2x18,5x34	023 253
508	Cap screw M5x12-8.8	022 943				



4.7 Needle bed E2,5.2

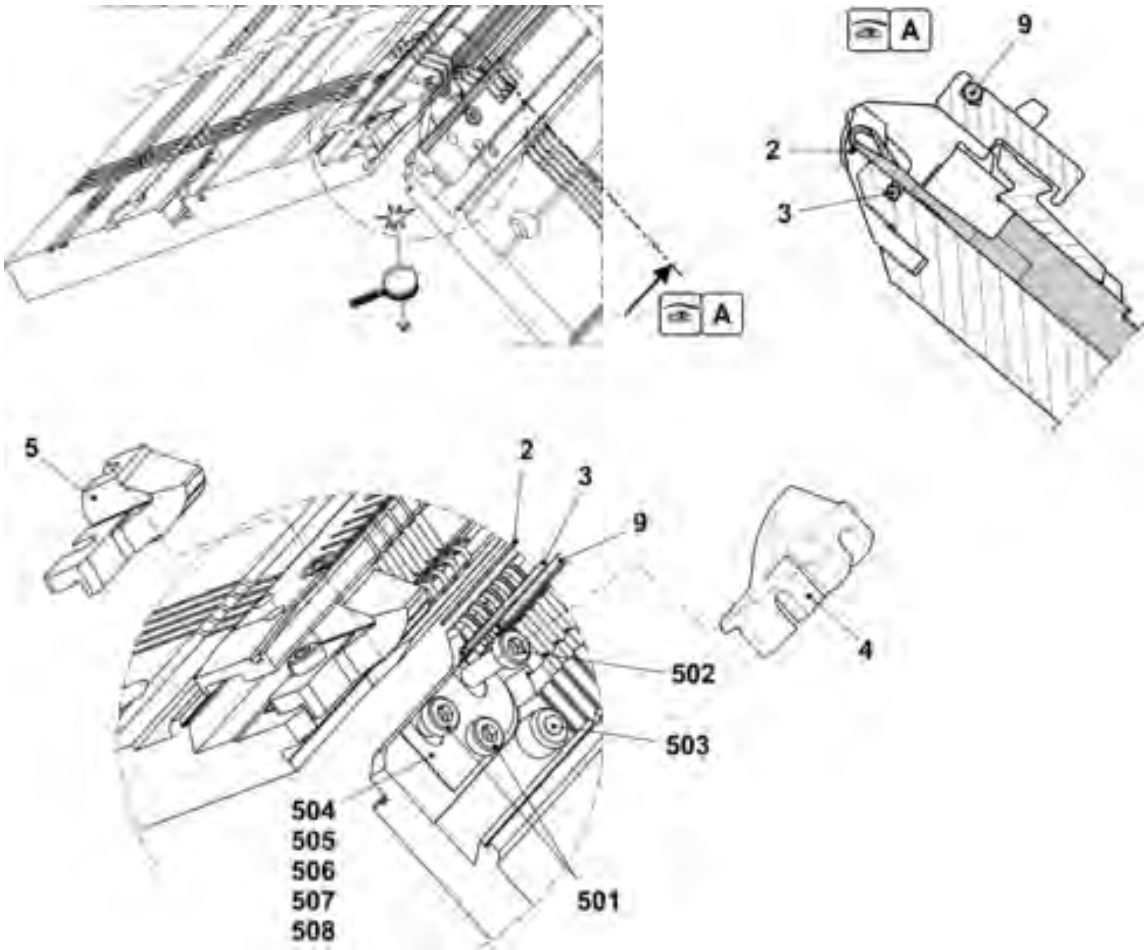
4.7 Needle bed E2,5.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E3,5.2	252 671				
4a	Needle E2,5.2-3,5.2	232 581		160	Cover rail at the rear	250 572
4b	Coupling part E4-8	200 682		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 screwM5x10	022 918
20	Holding-down jack bed at the rear E3,5.2	250 916		504	Cap screwM5x22	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 screwM5x12	020 032



4.7.1 Continuation needle bed E3,5.2

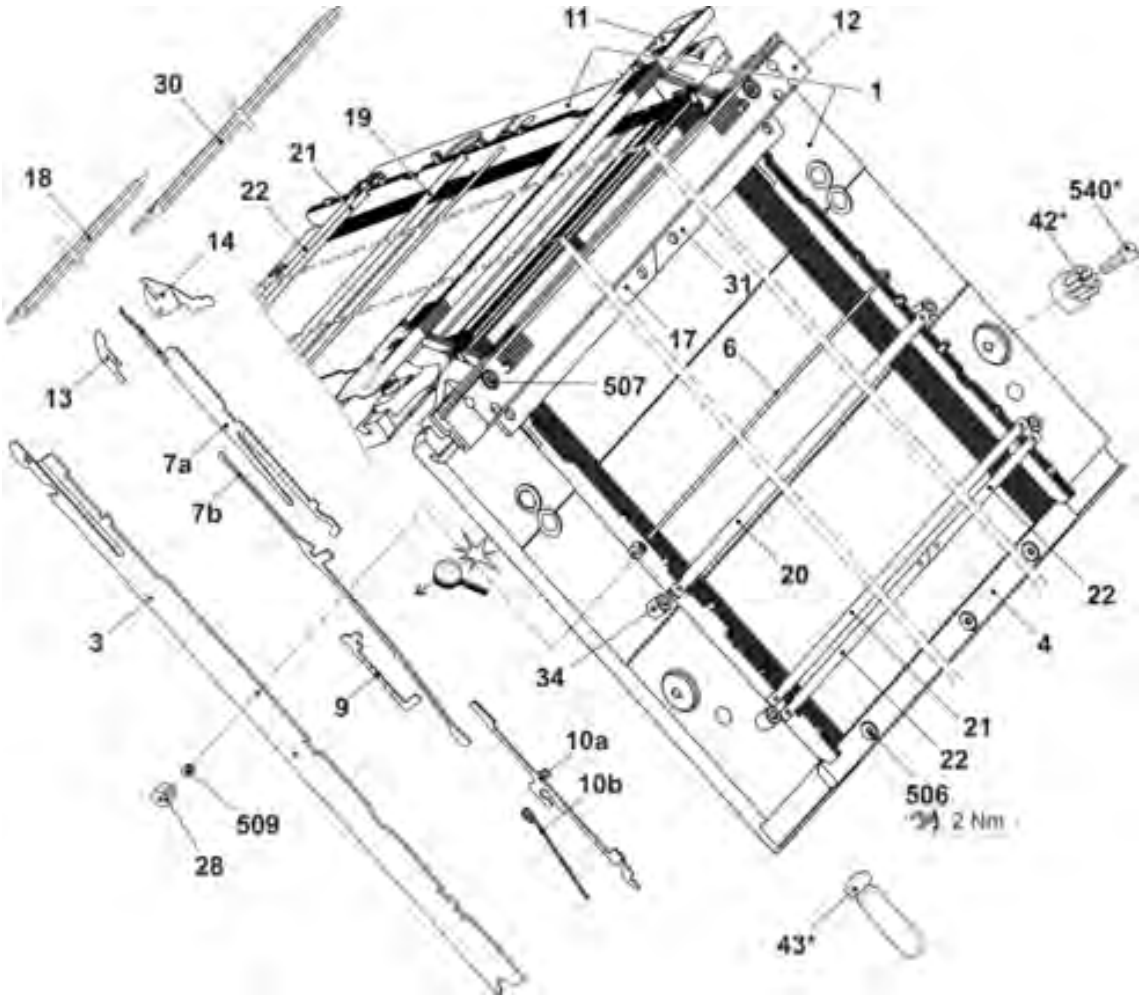
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E3,5.2	252 671		502	Cap screwM5x22	023 193
2	Spring steel wire ø 0,8	207 483		503	Springy thrust piece	023 177
3	Spring steel wire ø 2,0	207 269		504	Shim 0,02x18,5x34	023 194
4	Limiter on the left E4-8	205 343		505	Shim 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



4.8 Needle bed E6.2

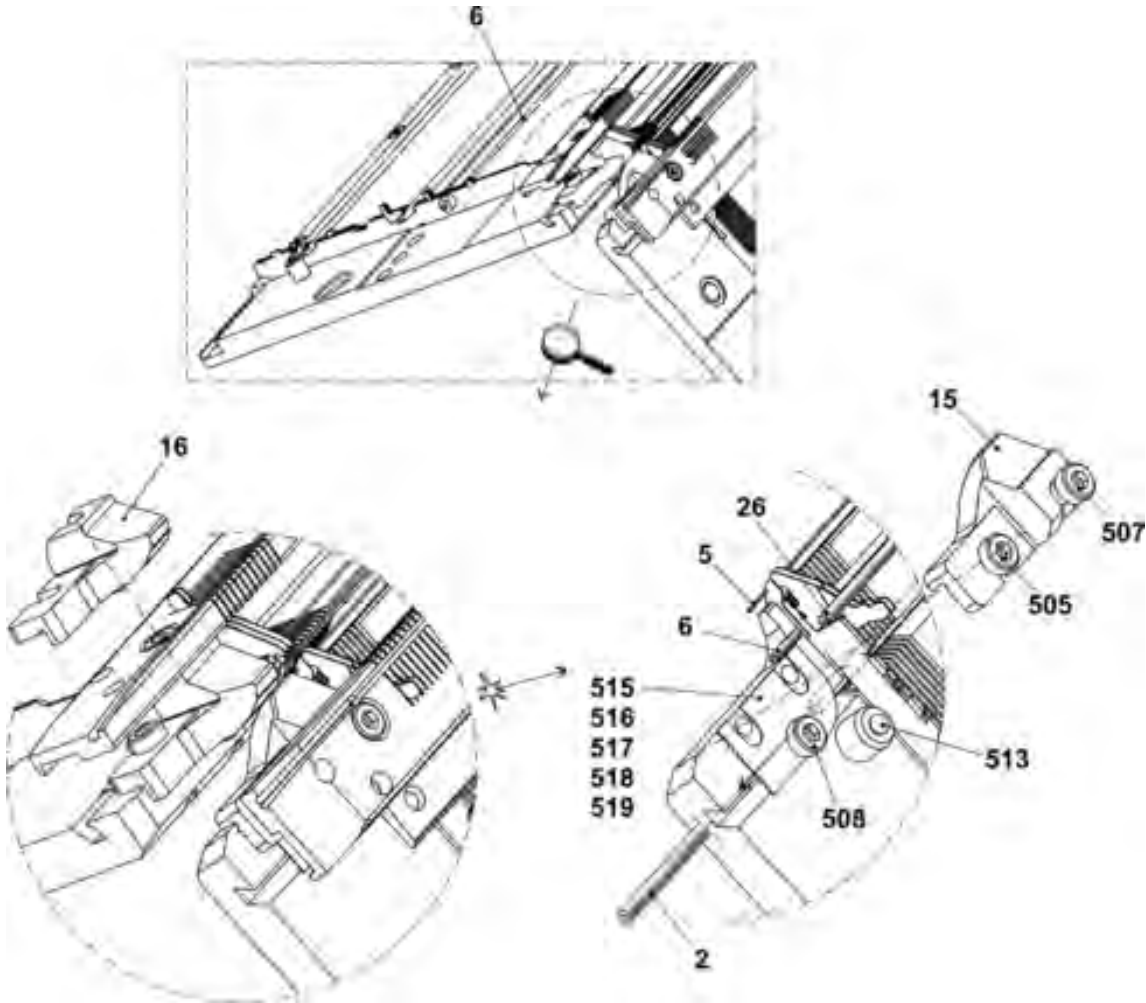
4.8 Needle bed E6.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E6.2	253 941		18	Needle bar rear on the right	237 836
1	Needle bed at the front + rearE12	252 064		19	Cover rail at the rear	250 572
3	Main trick wall E12	252 628		20	Cover rail at the front E12	250 593
4	Pressure slide E12-14	252 040		21	Cover rail	250 575
6	Spring steel wire ø2,0	207 269		22	Cover rail	250 576
7a	Needle E6.2	207 349		28	Bush	206 090
7b	Coupling part E10 - E12	200 683		30	Needle bar on the left at the rear	253 908
9	Intermediate slider with brake E10-12	237 324		31	Needle bar on the right at the rear	253 910
10a	Selection jack E10-12	200 688		34	Stop screw	214 039
10b	Selector spring E10-12	200 691		506	Cap screwM5x8	023 379
11	Holding-down jack bed at the rear E6.2	250 918		507	Cap screwM5x22	023 193
12	Holding-down jack bed at the front E6.2	250 917		509	Setscrew M3,5x3-1	020 512
13	Knock-over bit E12	205 013		42*	Disk brush	202 600
14	Holding-down jack trick wall E12	227 821		43*	Adjusting bolt	251 772
17	Needle bar on the left at the front	237 835		540*	Cap screwM5x12	020 032



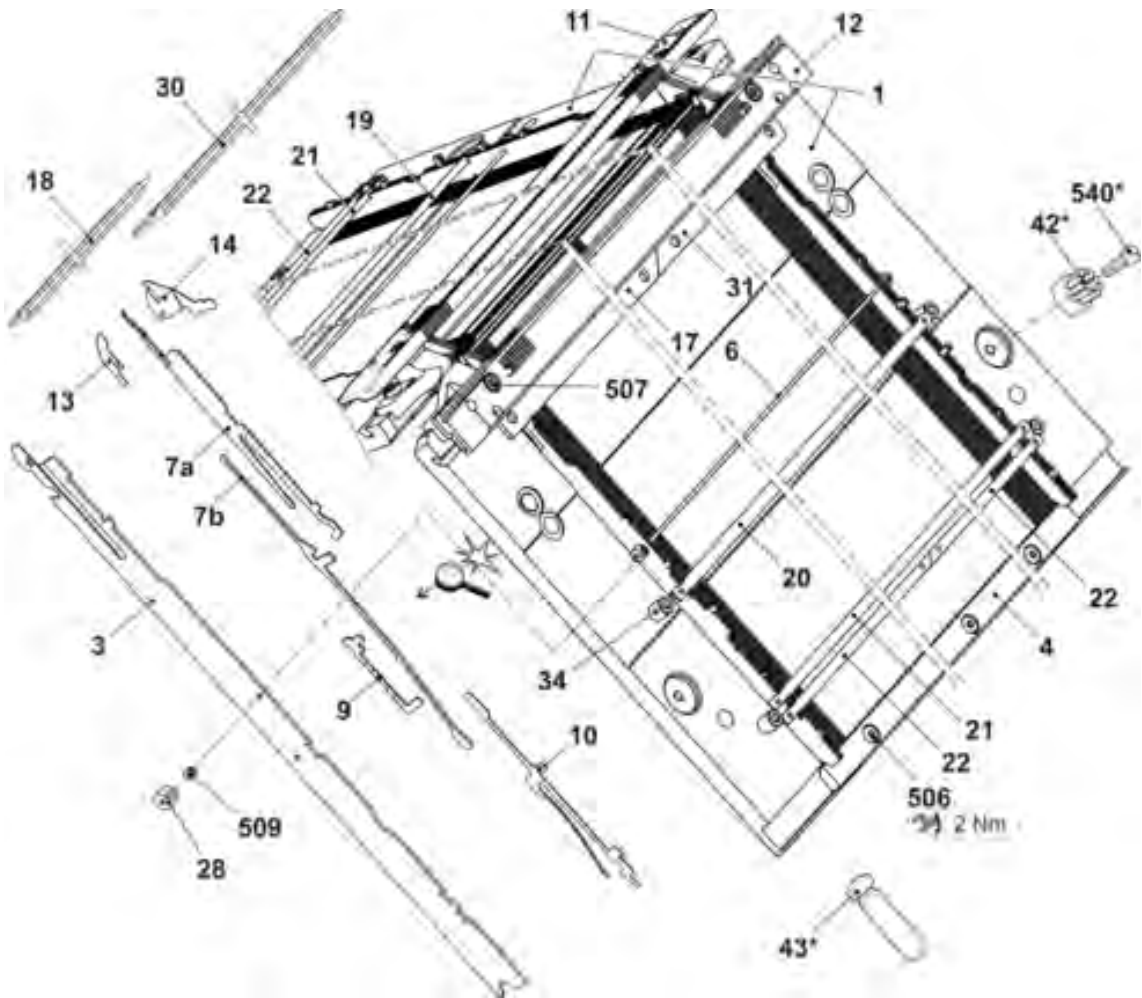
4.8.1 Continuation needle bed E6.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E6.2	253 941		507	Cap screwM5x22	023 193
2	Locating wire ø3,4	208 389		508	Cap screwM5x12-8.8	022 943
5	Spring steel wire ø0,6	208 388		513	Springy thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0,02x18,5x345	023 194
15	Limiter on the left E10 - E14	205 764		516	Shim 0,03x18,5x34	023 195
16	Limiter on the right E10 - E14	205 765		517	Shim 0,05x18,5x34	023 196
26	Locating wire ø2,8	207 270		518	Shim 0,1x18,5x34	023 197
505	Cap screwM5x8-8.8	023 154		519	Shim 0,2X18,5X34	023 253



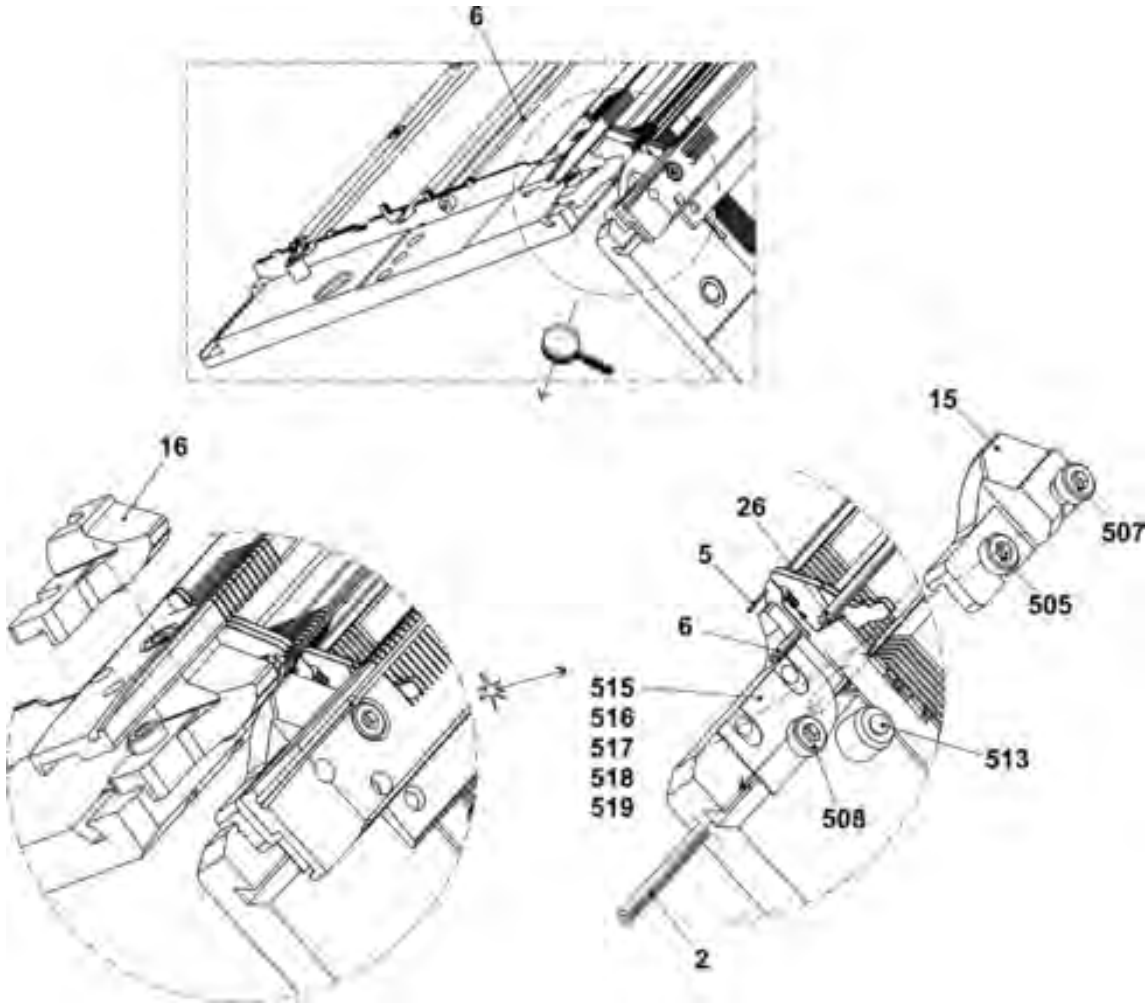
4.9 Needle bed E7.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7.2	256 060				
1	Needle bed at the front + rearE14	251 587		19	Cover rail at the rear	250 572
3	Main trick wall E14	252 629		20	Cover rail at the front E14	250 571
4	Pressure slide E12 - E14	252 040		21	Cover rail	250 575
6	Spring steel wire ø2,0	207 269		22	Cover rail	250 576
7a	Needle E7.2	225 230		28	Bush	206 090
7b	Coupling part E14	253 383		30	Needle bar on the left at the rear	253 908
9	Intermediate slider with brake E14	237 373		31	Needle bar on the right at the rear	253 910
10	Selection jack with spring E14	224 725		34	Stop screw	214 039
11	Holding-down jack bed at the rear E7.2	250 920		506	Cap screwM4-M5x8	023 379
12	Holding-down jack bed at the front E7.2	250 919		507	Cap screwM5x22	023 193
13	Knock-over bit E14	256 912		509	Setscrew M3,5x3-1	020 512
14	Holding-down jack trick wall E7.2	258 396		42*	Disk brush	202 600
17	Needle bar on the left at the front	237 835		43*	Adjusting bolt	251 772
18	Needle bar rear on the right	237 836		540*	Cap screwM5x12	020 032



4.9.1 Continuation needle bed E7.2

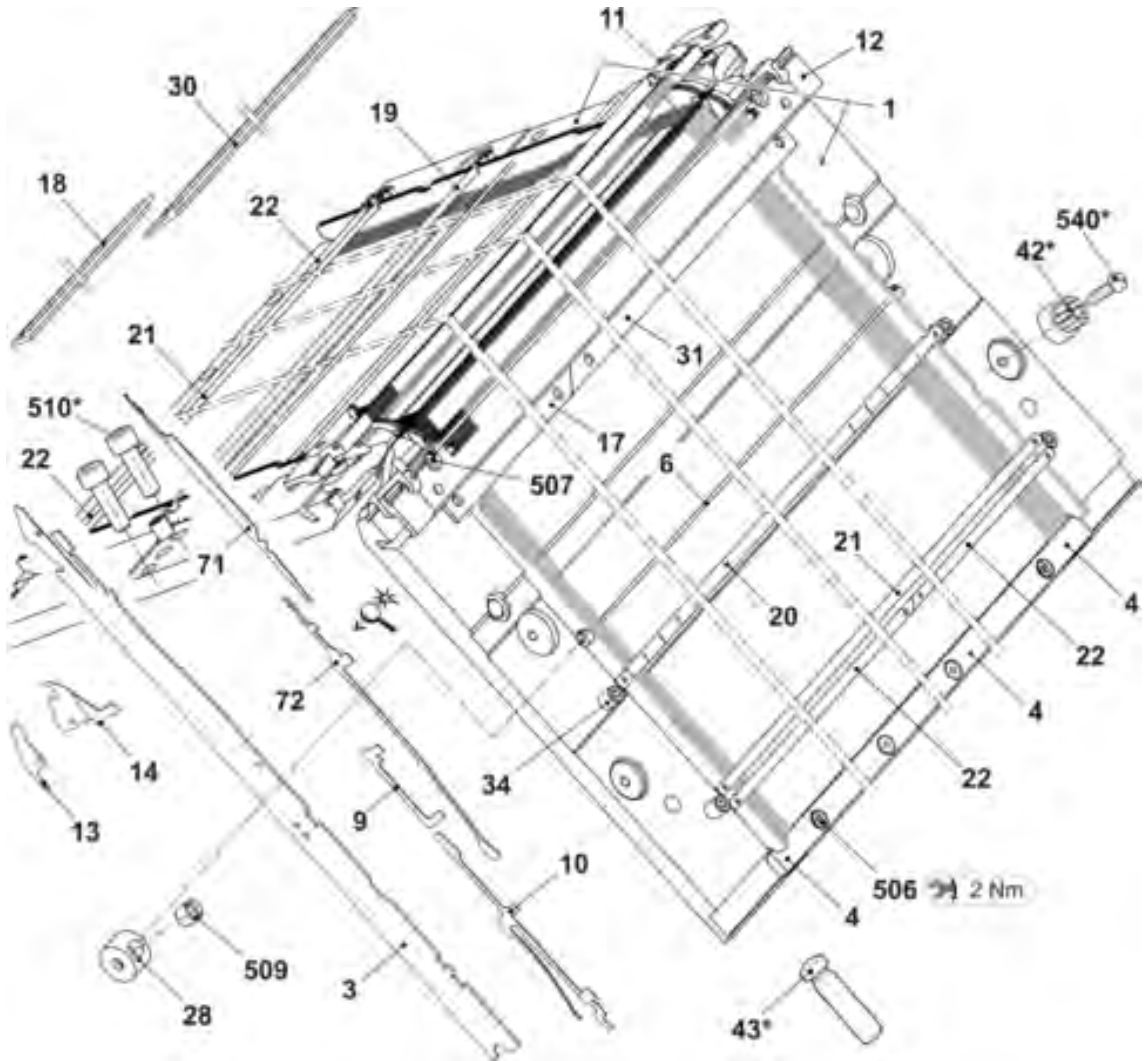
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7.2	256 060		507	Cap screwM5x22	023 193
2	Locating wire ø3,4	208 389		508	Cap screwM5x12-8.8	022 943
5	Spring steel wire ø0,6	208 388		513	Springy thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0,02x18,5x345	023 194
15	Limiter on the left E10 – E14	205 764		516	Shim 0,03x18,5x34	023 195
16	Limiter on the right E10 – E14	205 765		517	Shim 0,05x18,5x34	023 196
26	Locating wire ø2,8	207 270		518	Shim 0,1x18,5x34	023 197
505	Cap screwM5x8-8.8	023 154		519	Shim 0,2X18,5X34	023 253



4.10 Needle bed E8.2

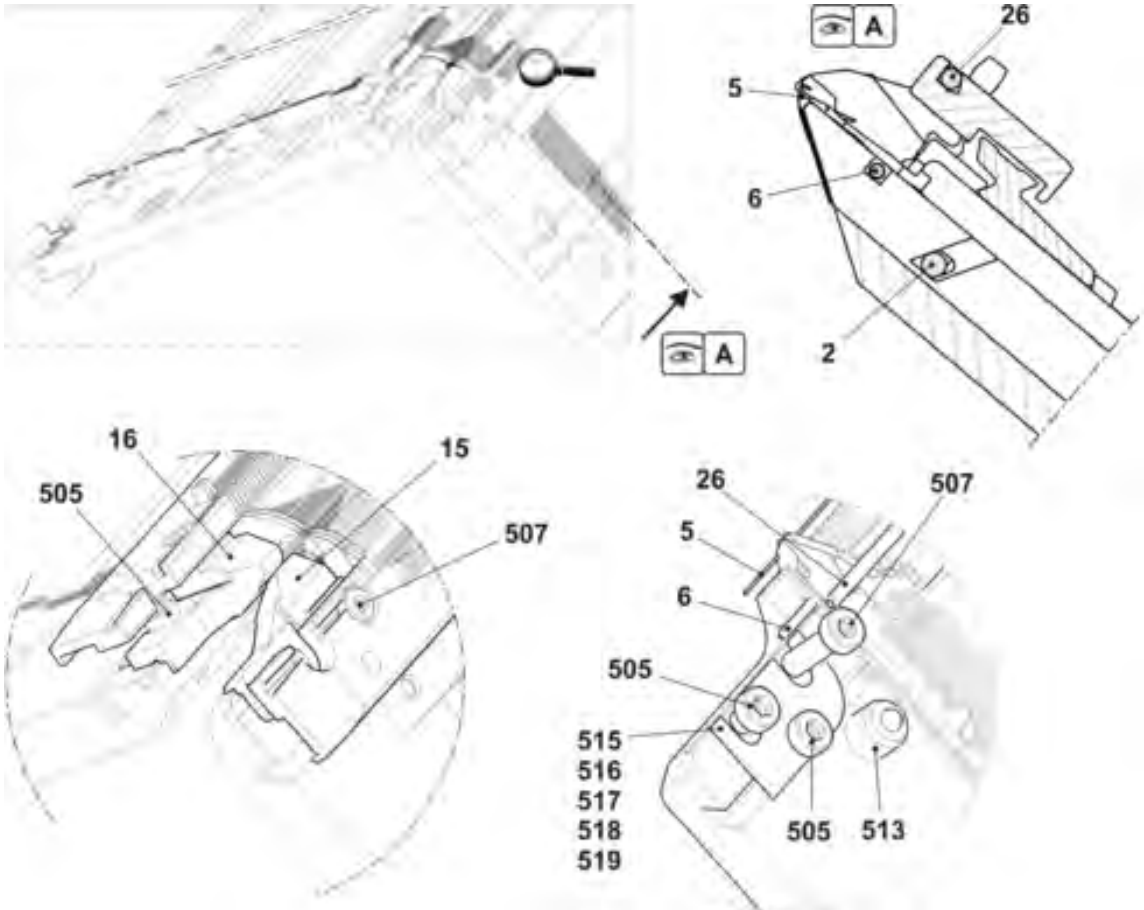
4.10 Needle bed E8.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front + rearE8.2	256 877		19	Cover rail at the rear	250 572
1	Needle bed at the front + rearE16	256 746		20	Cover rail at the front E16	250 587
3	Main trick wall E16	245 319		21	Cover rail	250 575
4	Pressure slide E12-14	252 040		22	Cover rail	250 576
6	Spring steel wire ø2,0	207 269		28	Bush	206 090
71	Needle E18/14	240 026		30	Needle bar on the left at the rear	253 908
72	Coupling part E16-18	253 384		31	Needle bar on the right at the rear	253 910
9	Intermediate slider with brake E16-18	237 326		34	Stop screw	214 039
10	Selection jack E16-20	222 265		503	Cap screwM6x14	022 658
11	Holding-down jack bed at the rear E16	250 549		506	Cap screwM4-M5x8	023 379
12	Holding-down jack bed at the front E16	250 548		507	Cap screwM5x22	023 193
13	Knock-over bit E8.2	258 400		509	Setscrew M3,5x3-1	020 512
14	Holding-down jack E16	222 504		42*	Disk brush ø12	202 600
17	Needle bar on the left at the front	237 835		43*	Adjusting bolt	251 772
18	Needle bar rear on the right	237 836		540*	Cap screwM5x12	020 032



4.10.1 Continuation needle bed E8.2

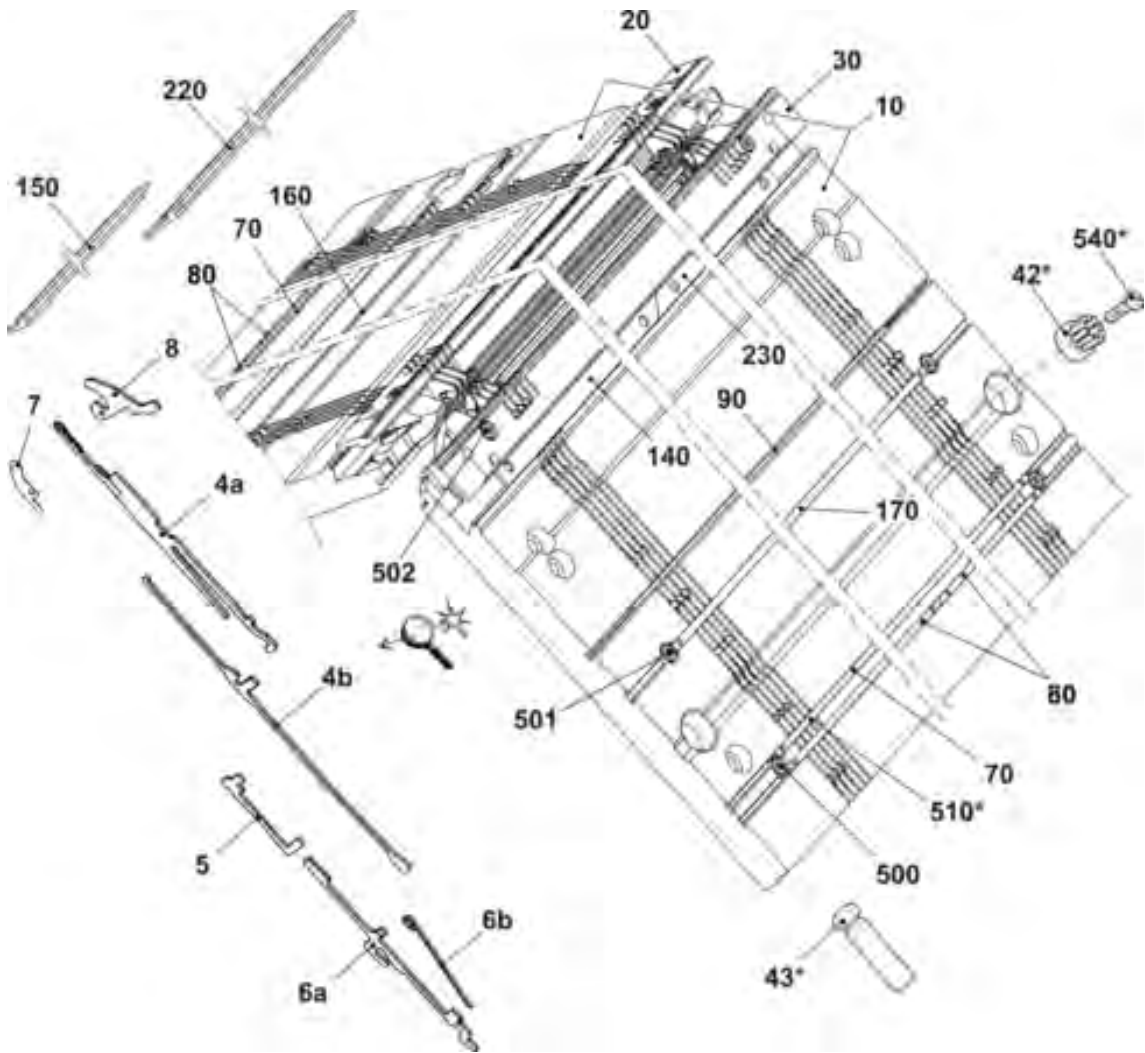
Pos	Designation	Id		Pos	Designation	Id
2	Locating wire $\varnothing 3,4$	208 389		507	Cap screw M5x22	023 193
5	Spring steel wire $\varnothing 0,5$	250 690		513	Springy thrust piece	023 177
6	Spring steel wire $\varnothing 2,0$	207 269		515	Shim 0,02x18,5x34	023 194
15	Limiter on the left E16-20	220 821		516	Shim 0,03x18,5x34	023 195
16	Limiter on the right E16-20	220 822		517	Shim 0,05x18,5x34	023 196
26	Locating wire $\varnothing 2,8$	256 860		518	Shim 0,1x18,5x34	023 197
505	Cap screw M5x8	023 154		519	Shim 0,2x18,5x34	023 253



4.11 Needle bed E7m.5

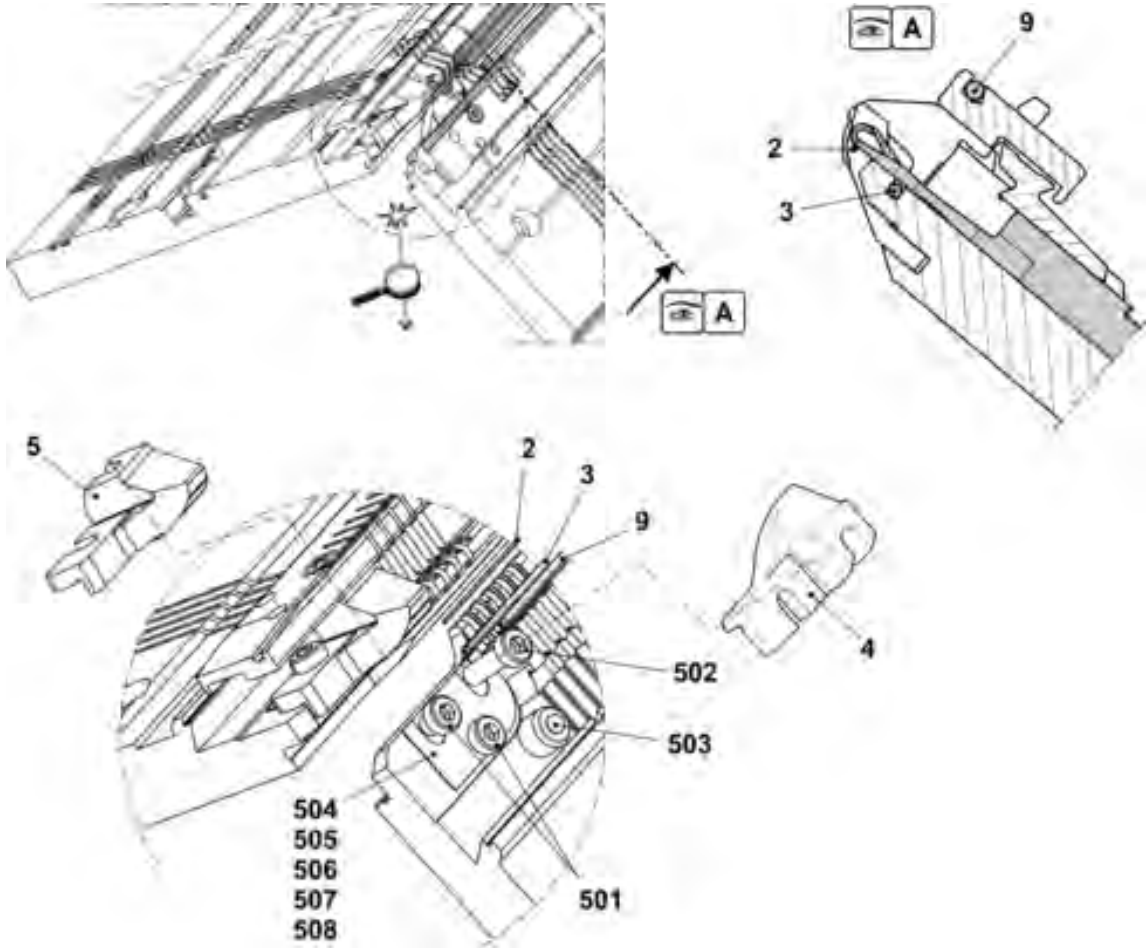
4.11 Needle bed E7m.5

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7m.5	253 949				
4a	Needle E5 - E6 with round hook	205 396		90	Locating wire D=2,8	207 270
4b	Coupling part E4 - E8	200 682		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 E7	255 539
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		500	Cap screwM5x10	022 918
20	Holding-down jack bed at the rear E7	250 539		502	Cap screwM5x22	023 193
30	Holding-down jack bed at the front E7	250 538		42*	Disk brush	202 600
70	Cover rail	250 575		43*	Adjusting bolt	251 772
80	Cover rail	250 576		540*	Cap screwM5x12	020 032



4.11.1 Continuation needle bed E7m.5

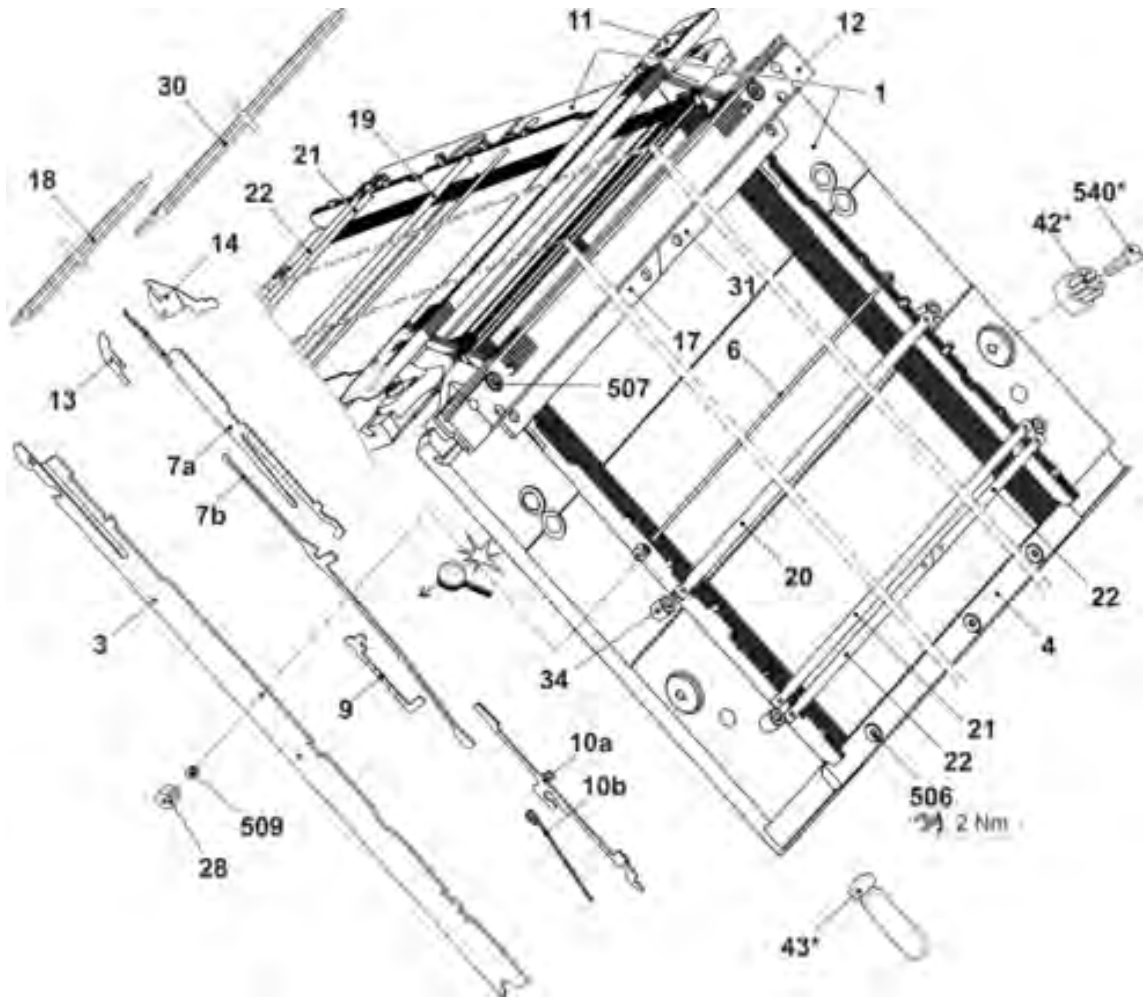
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7m.5	253 949		502	Cap screwM5x22	023 193
2	Spring steel wire ø 0,8	207 483		503	Springy thrust piece	023 177
3	Spring steel wire ø 2,0	207 269		504	Shim 0,02x18,5x34	023 194
4	Limiter on the left E4-8	205 343		505	Shim 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



4.12 Needle bed E12m.10

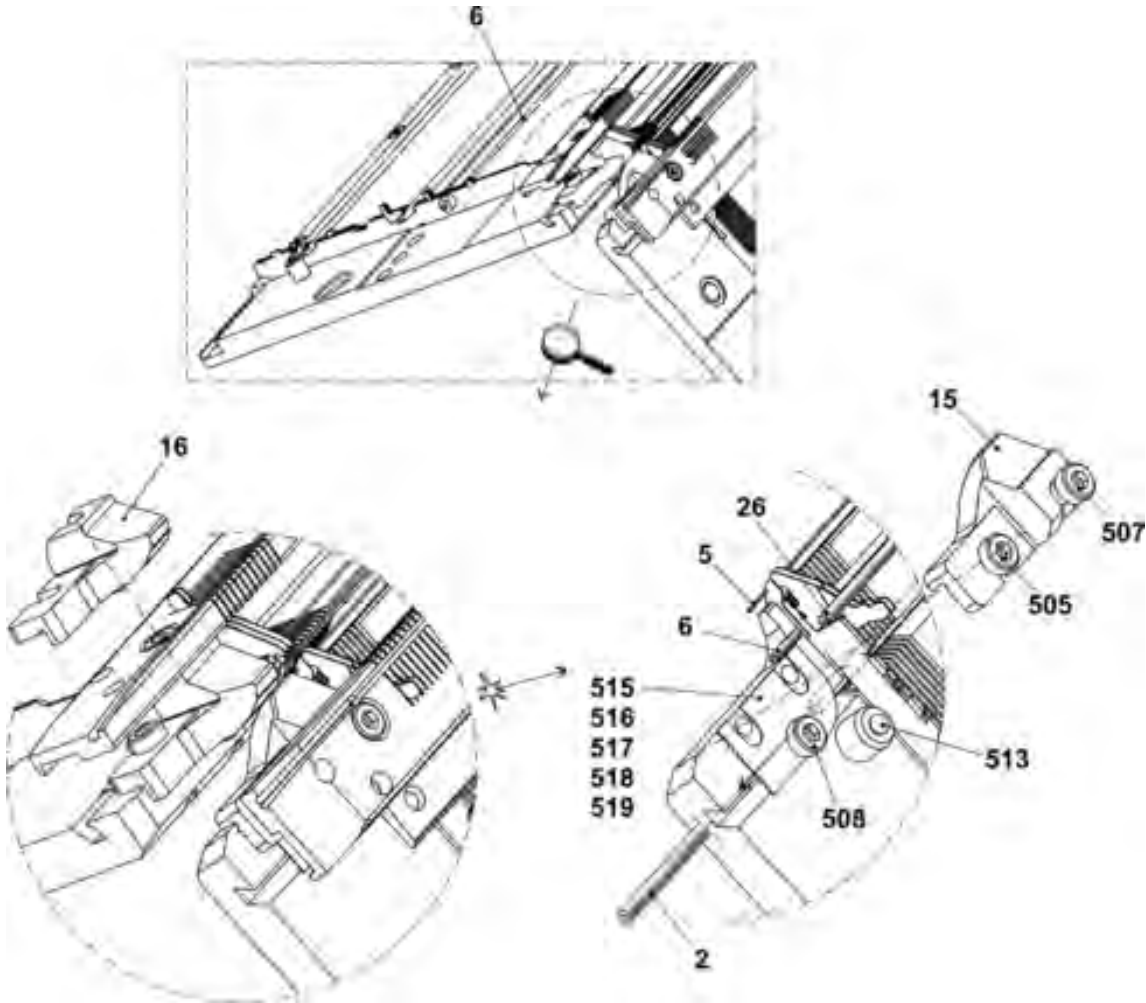
4.12 Needle bed E12m.10

Pos	Designation	Id	Pos	Designation	Id
Σ	Needle bed complete at the front and rear E12m.10	253 942			
1	Needle bed at the front + rearE12	252 064	19	Cover rail at the rear	250 572
3	Main trick wall E12	252 628	20	Cover rail at the front E12	250 593
4	Pressure slide E12-14	252 040	21	Cover rail	250 575
6	Spring steel wire ø2,0	207 269	22	Cover rail	250 576
7a	Needle E10 with round hook	205 398	28	Bush	206 090
7b	Coupling part E10 - E12	200 683	30	Needle bar on the left at the rear	253 908
9	Intermediate slider with brake E10-12	237 324	31	Needle bar on the right at the rear	253 910
10a	Selection jack E10-12	200 688	34	Stop screw	214 039
10b	Selector spring E10-12	200 691	506	Cap screwM5x8	023 379
11	Holding-down jack bed at the rear E12	250 545	507	Cap screwM5x22	023 193
12	Holding-down jack bed at the front E12	250 544	509	Setscrew M3,5x3-1	020 512
13	Knock-over bit E12	205 013	42*	Disk brush	202 600
14	Holding-down jack trick wall E12	227 821	43*	Adjusting bolt	251 772
17	Needle bar on the left at the front	237 835	510*	Cap screwM8x25	020 142
18	Needle bar rear on the right	237 836	540*	Cap screwM5x12	020 032



4.12.1 Continuation needle bed E12m.10

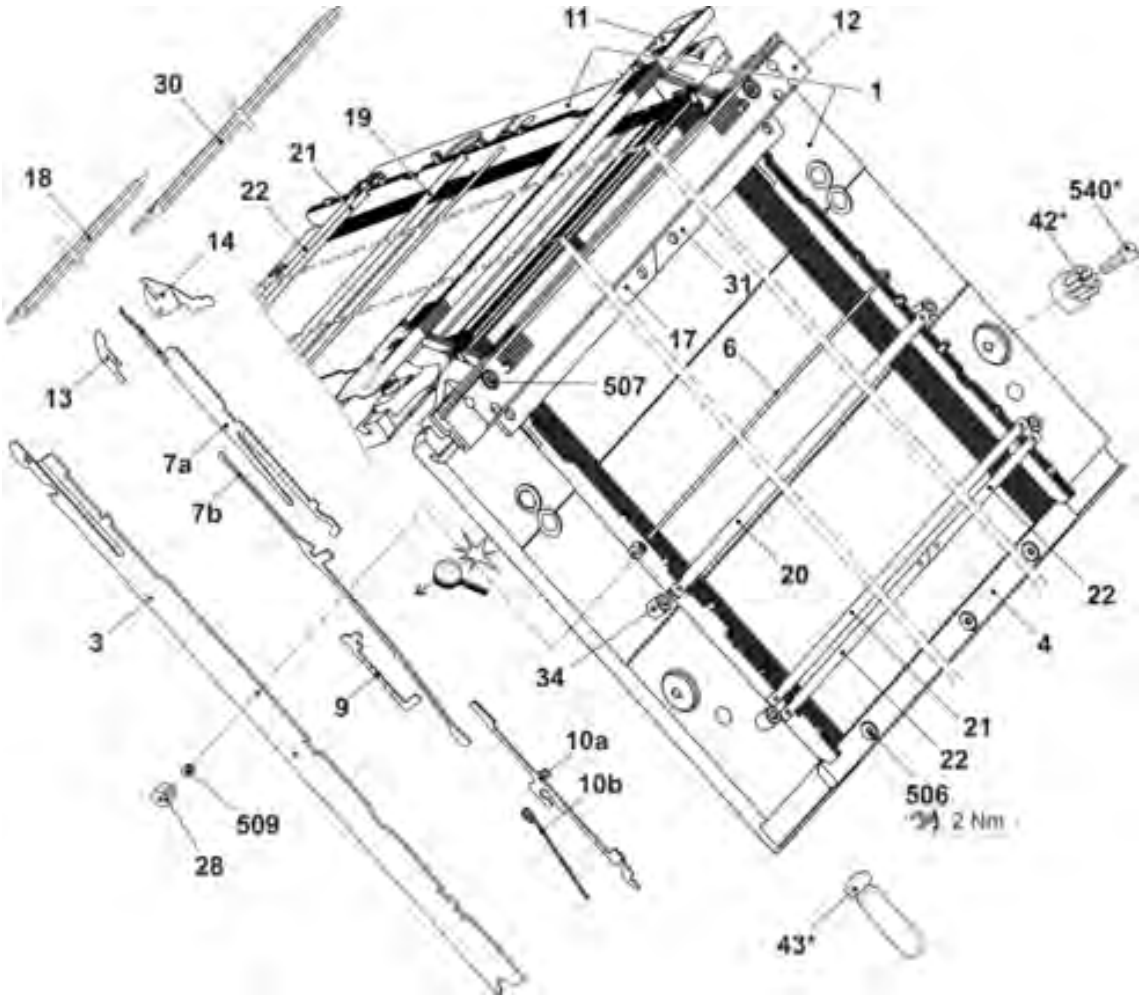
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E12m.10	253 942		507	Cap screwM5x22	023 193
2	Locating wire ø3,4	208 389		508	Cap screwM5x12-8.8	022 943
5	Spring steel wire ø0,6	208 388		513	Springy thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0,02x18,5x345	023 194
15	Limiter on the left E10 - E14	205 764		516	Shim 0,03x18,5x34	023 195
16	Limiter on the right E10 - E14	205 765		517	Shim 0,05x18,5x34	023 196
26	Locating wire ø2,8	207 270		518	Shim 0,1x18,5x34	023 197
505	Cap screwM5x8-8.8	023 154		519	Shim 0,2X18,5X34	023 253



4.13 Needle bed E14/12

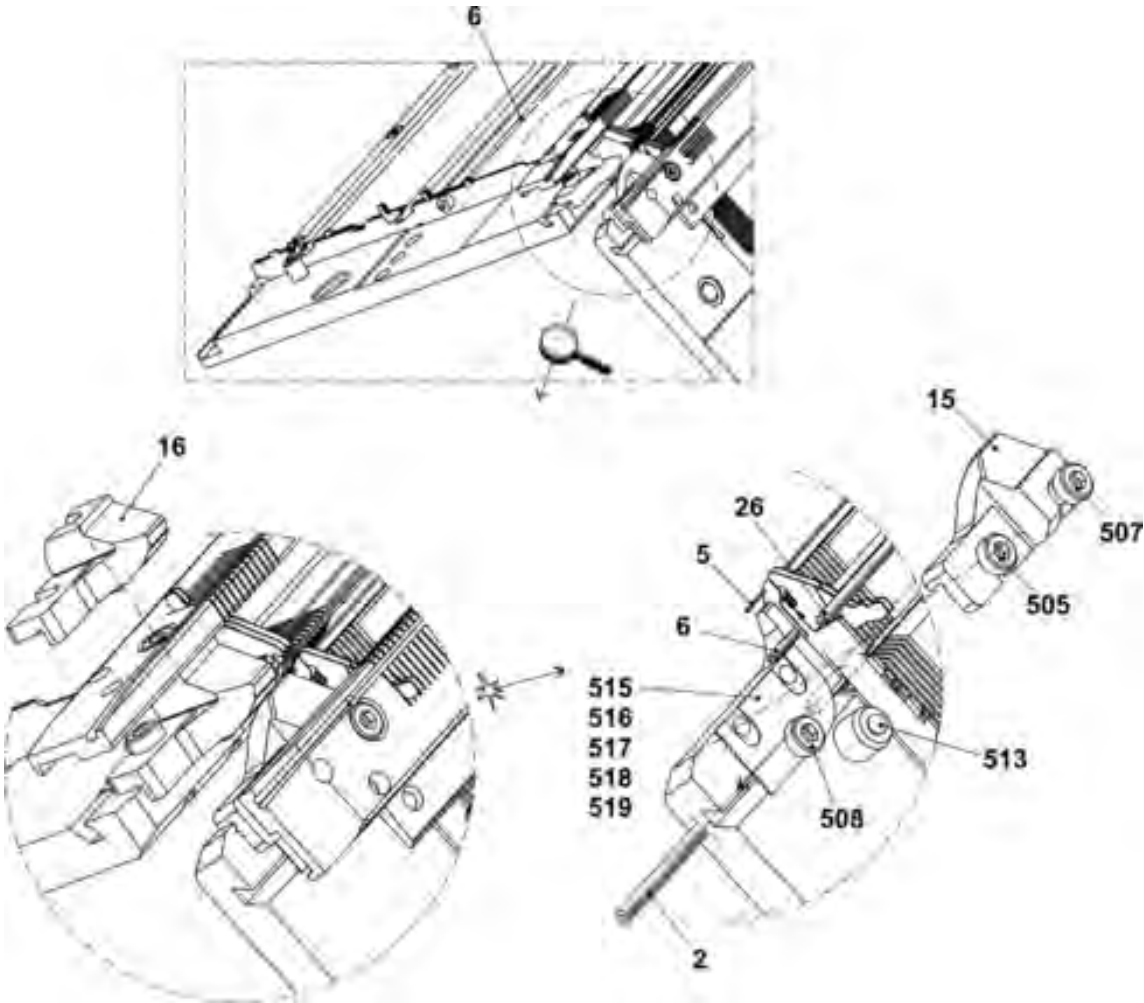
4.13 Needle bed E14/12

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E14/12	253 943				
1	Needle bed at the front + rearE14	251 587		19	Cover rail at the rear	250 572
3	Main trick wall E14	252 629		20	Cover rail at the front E14	250 571
4	Pressure slide E12 – E14	252 040		21	Cover rail	250 575
6	Spring steel wire ø2,0	207 269		22	Cover rail	250 576
7a	Needle E14/12	227 756		28	Bush	206 090
7b	Coupling part E14	253 383		30	Needle bar on the left at the rear	253 908
9	Intermediate slider with brake E14	237 373		31	Needle bar on the right at the rear	253 910
10	Selection jack E14 with selector spring	224 725		34	Stop screw	214 039
11	Holding-down jack bed at the rear E7.2	250 920		506	Cap screwM4-M5x8	023 379
12	Holding-down jack bed at the front E7.2	250 919		507	Cap screwM5x22	023 193
13	Knock-over bit E14	209 649		509	Setscrew M3,5x3-1	020 512
14	Holding-down jack trick wall E14	235 262		42*	Disk brush	202 600
17	Needle bar on the left at the front	237 835		43*	Adjusting bolt	251 772
18	Needle bar rear on the right	237 836		540*	Cap screwM5x12	020 032



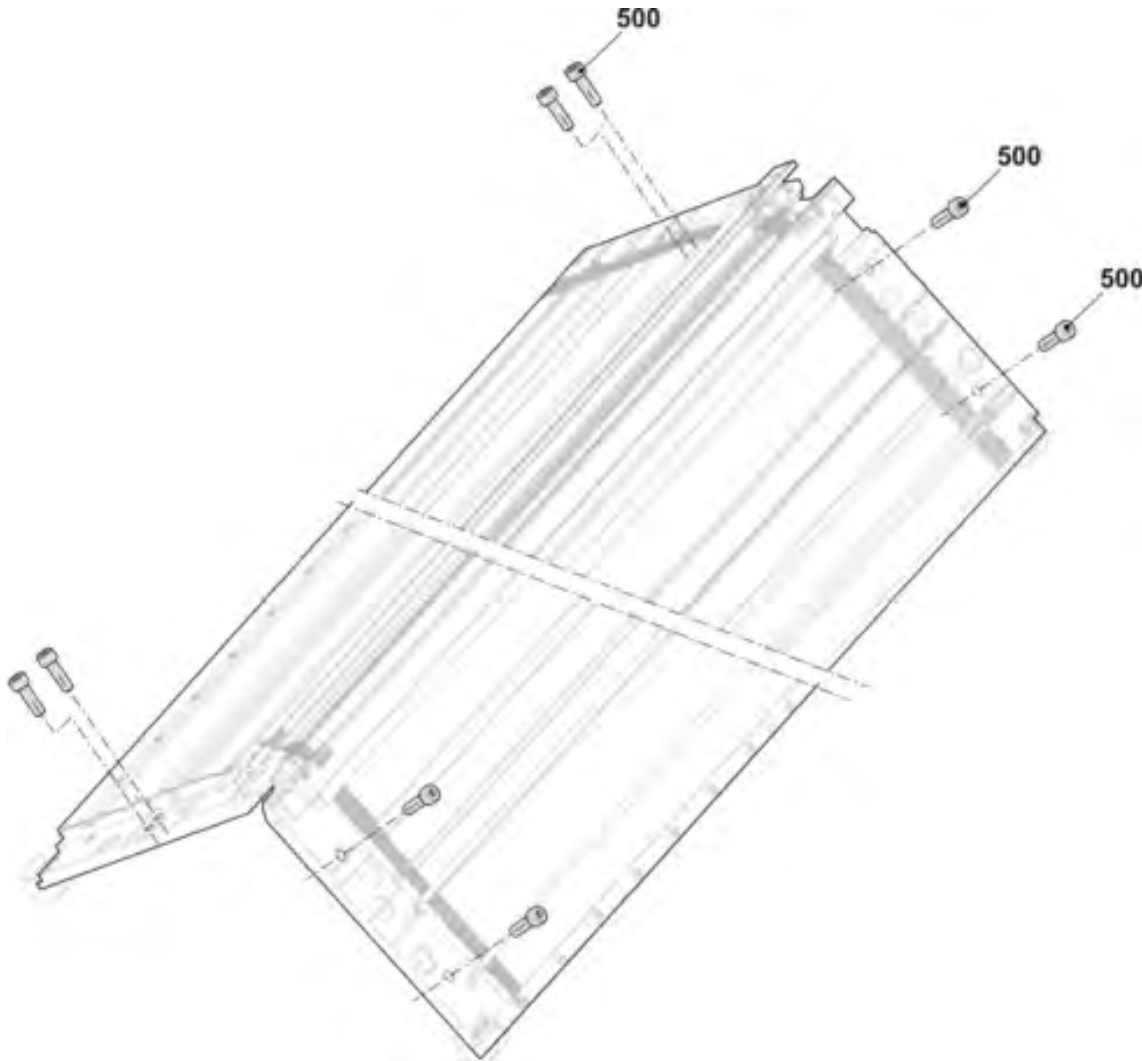
4.13.1 Continuation needle bed E14/12

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E14/12	253 943		507	Cap screwM5x22	023 193
2	Locating wire ø3,4	208 389		508	Cap screwM5x12-8.8	022 943
5	Spring steel wire ø0,6	208 388		513	Springy thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0,02x18,5x345	023 194
15	Limiter on the left E10 - E14	205 764		516	Shim 0,03x18,5x34	023 195
16	Limiter on the right E10 - E14	205 765		517	Shim 0,05x18,5x34	023 196
26	Locating wire ø2,8	207 270		518	Shim 0,1x18,5x34	023 197
505	Cap screwM5x8-8.8	023 154		519	Shim 0,2X18,5X34	023 253



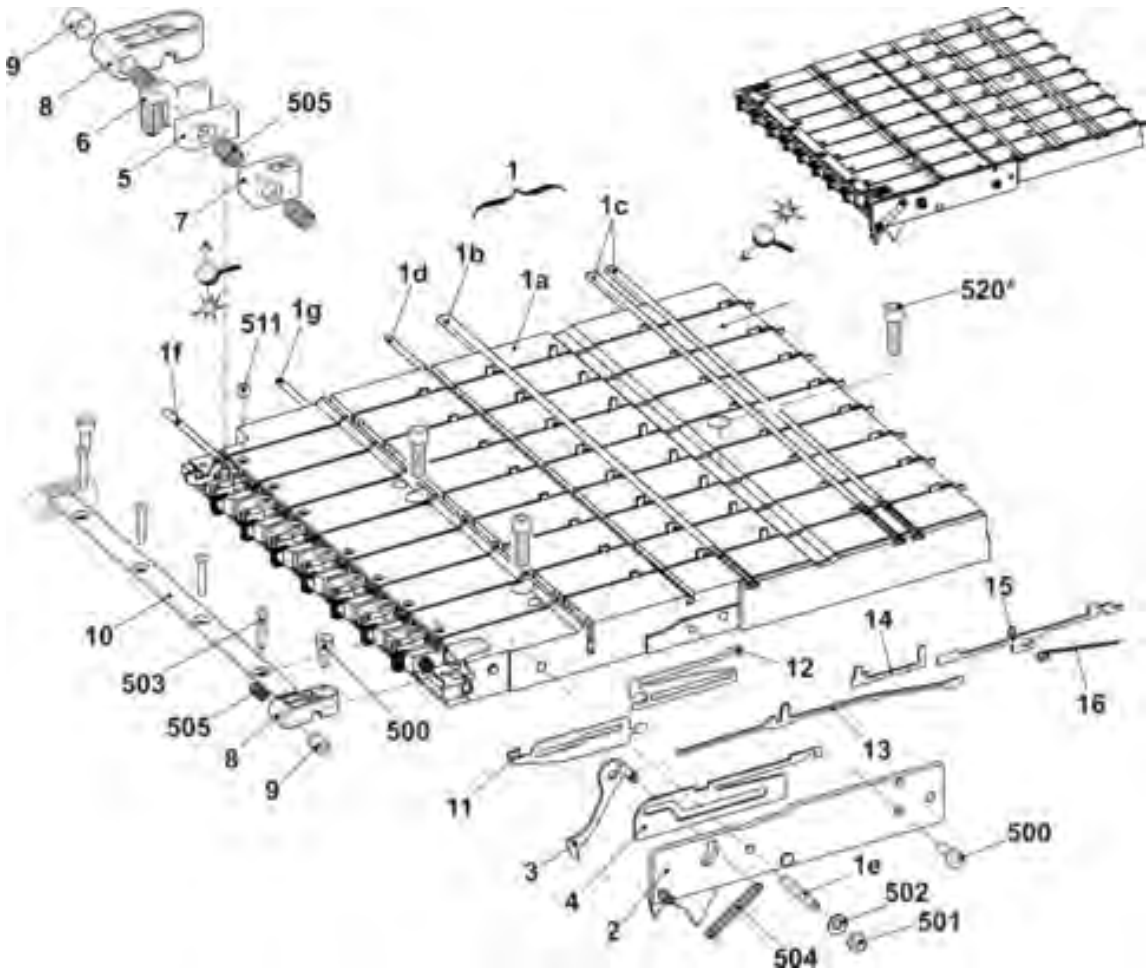
4.14 Needle beds, connection screws

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



4.15 Right clamping/cutting bed
E5 | E7 | E12 | E14 | E7m.5 | E12m.10 | E14/12 | E3,5.2-
| E6.2 | E7.2 | E8.2

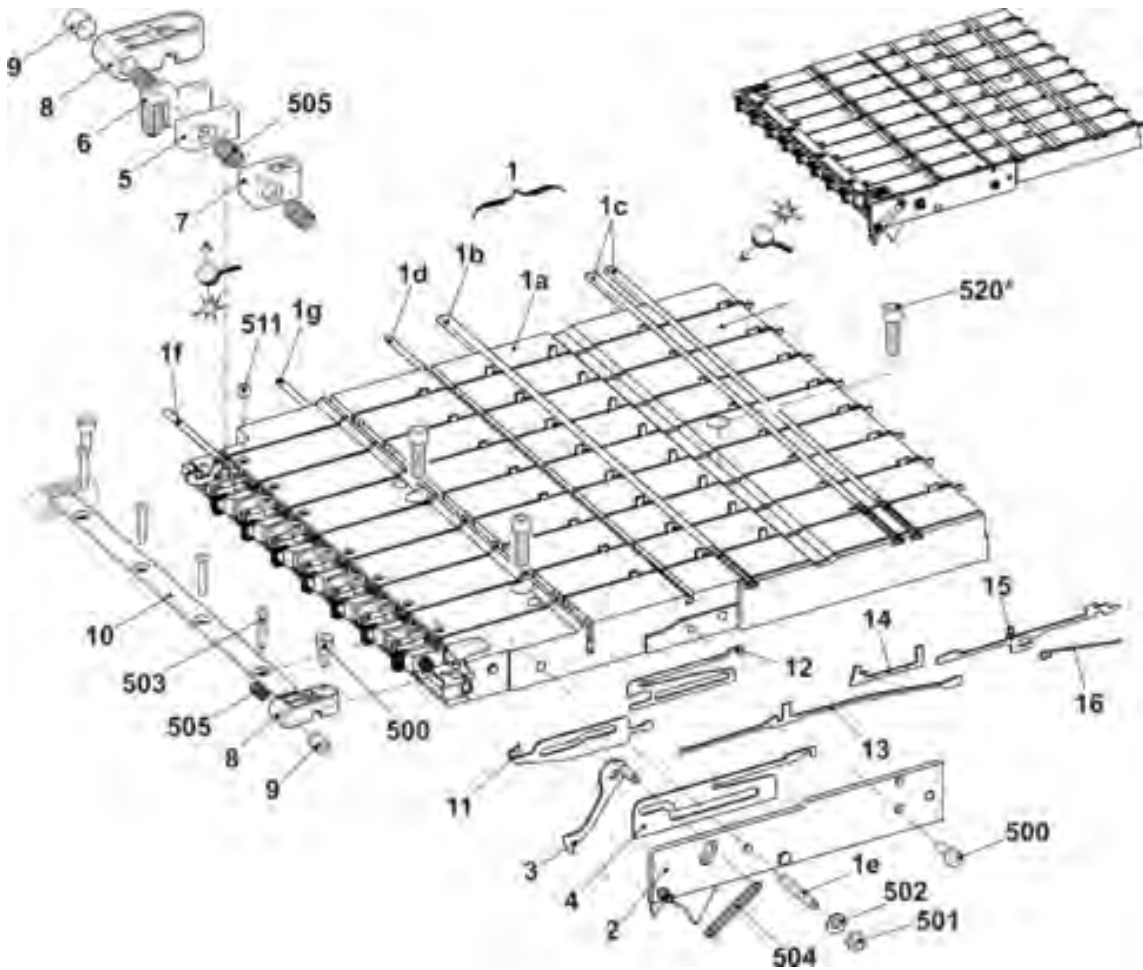
Pos	Designation	ID	Pos	Designation	ID
Σ	Clamping and cutting bed on the right E5-14	257 197	8	Spring holder	255 724
1	Guide plate EPT on the right E5-14	257 193	9	Threaded bolt	255 723
1a	Guide plate on the rightE5-14	257 189	10	Holding strip	253 176
1b	Cover rail	253 173	11	Tuck needle on the right E5-14	255 692
1c	Cover rail	253 174	12	Intermediate cam E10-14	244 591
1d	Locating wire	253 172	13	Coupling part E4-8	200 682
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 screwM4x10	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	SliderE5-14	253 084	503	Pan-head screw M3x18	242 728
5	Blade	243 948	504	Tension spring 5x0,5x17,4	023 377
6	Clamp on the right complete	244 602	505	Compression spring 07x4,3x12,1	023 521
7	Intermediate piece	255 719	520*	Cap screwM6x20	244 824



4.16 Right clamping and cutting bed E16|E18|E8.2

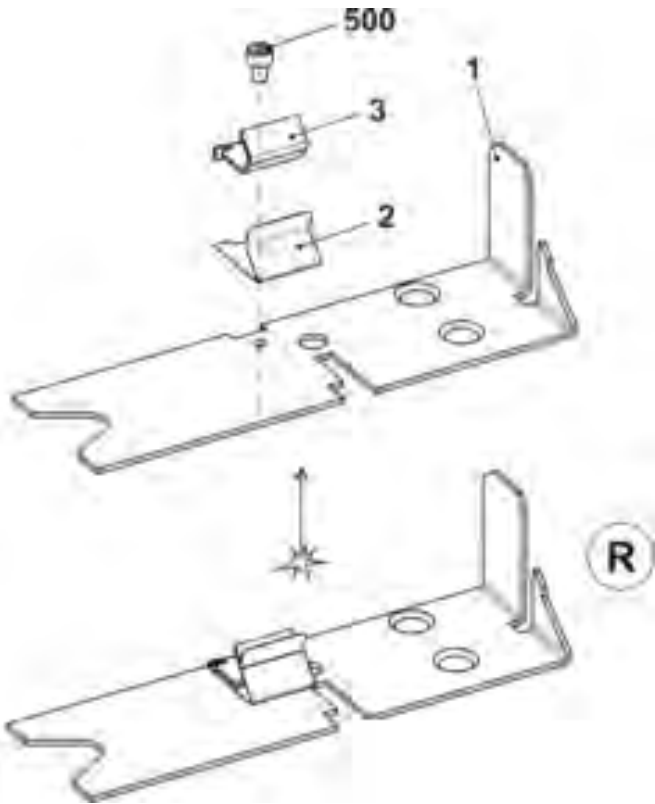
4.16 Right clamping and cutting bed E16|E18|E8.2

Pos	Designation		ID	Pos	Designation		ID
Σ	Clamping and cutting bed on the right E16-18		257 199	8	Spring holder		255 724
1	Guide plate EPT on the right E16-18		257 195	9	Threaded bolt		255 723
	1a	Guide plate on the rightE16-18	257 191	10	Holding strip		253 176
	1b	Cover rail	253 173	11	Tuck needle on the right E16-18		255 693
	1c	Cover rail	253 174	12	Intermediate cam		244 741
	1d	Locating wire	253 172	13	Coupling part E10-12		200 683
	1e	Guide pin	211 351	14	Intermediate slider with brake E10-12		237 324
	1f	Locating wire	253 171	15	Selection jack E10-12		200 688
	1g	Locating wire	215 927	16	Selector spring E10-12		200 691
	511	Setscrew M5x5	236 061	500	Cap screwM4x10		023 136
2	Cover on the right complete E16-20		242 836	501	Hexagon nut M4		023 046
3	Catch hook on the right E16-18		242 833	502	Washer4		020 870
4	SliderE16-20		242 828	503	Pan-head screw M3x18		242 728
5	Blade		243 948	504	Tension spring 5x0,5x17,4		023 377
6	Clamp on the right complete		244 602	505	Compression spring 07x4,3x12,1		023 521
7	Intermediate piece		255 719	520*	Cap screwM6x20		244 824



4.17 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



4.17 Yarn brake at clamping and cutting bed

Notes:

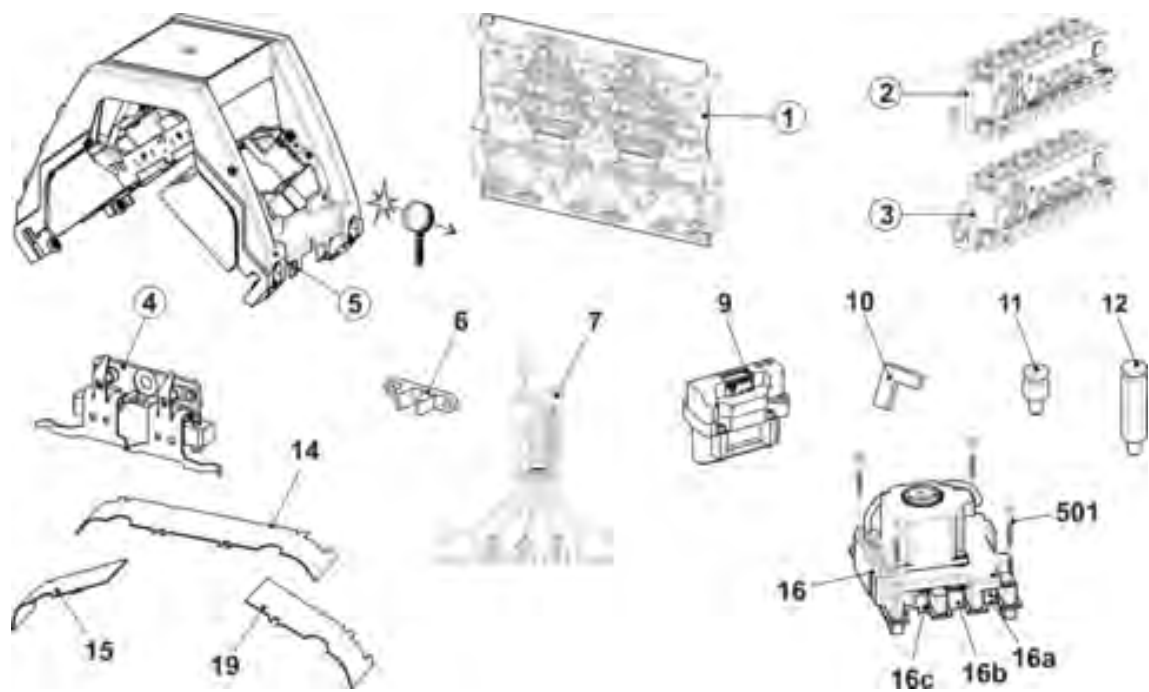
5 Carriage



5.1 Overview of carriage

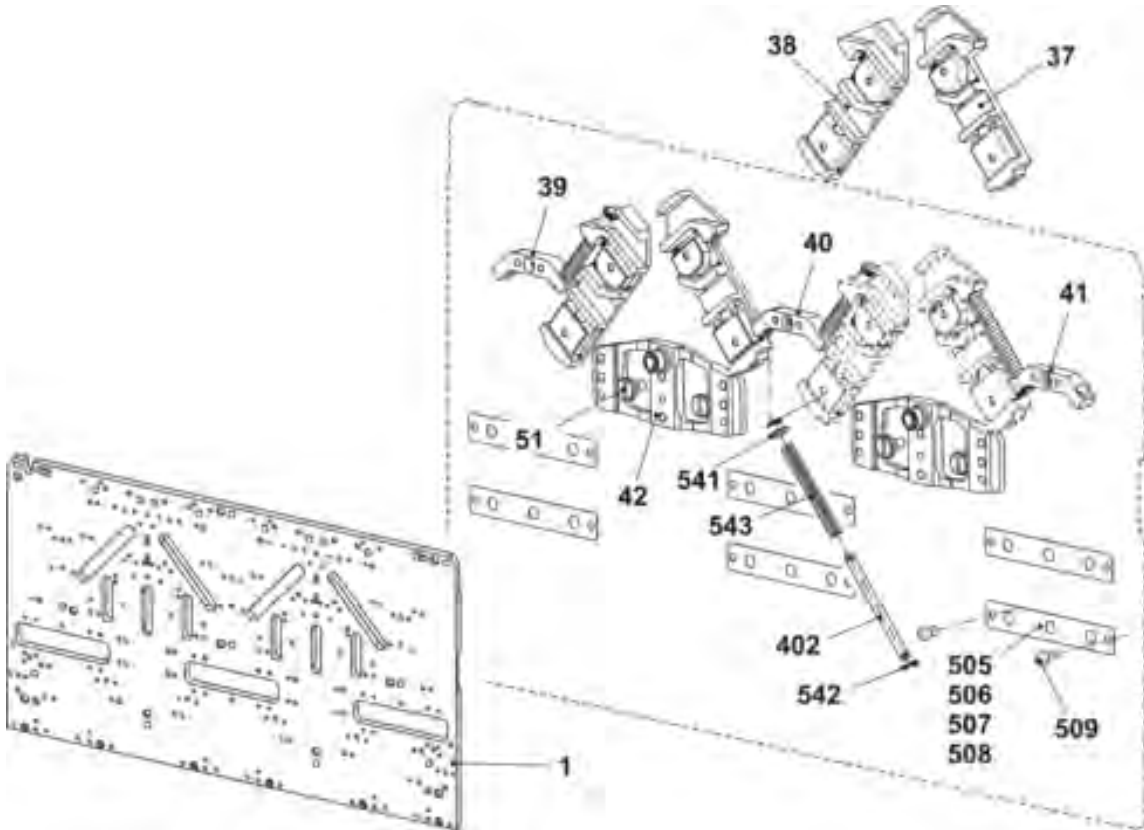
5.1 Overview of carriage

Pos	Designation	Id	Pos	Designation	Id
	Carriage complete		1	Cam box complete	
	E3,5.2 E5 E7m.5	256 079		E3,5.2 E5 E7m.5	250 983
	E7	256 080		E7	250 673
	E12	256 081		Cam box set complete E12	251 016
	E14 E14/12	256 082		E14 E14/12	250 313
	E16 E18	256 974		E16 E18	256 972
	E6.2	256 084		E6.2	250 990
	E7.2	256 058		E7.2	256 057
	E8.2	256 975		E8.2	256 973
	E12m.10	256 083		Cam box set complete E12m.10	250 985
2	FF driving outside complete	241 080	12	Bolts	212 204
3	FF driving in the middle complete	241 081	14	Cover plate at the top	250 594
4	Holding-down jack control	213 266	15	Cover plate at the bottom	250 595
5	Carriage assembly 2 cam boxes complete 502	256 497	16	Motor unit complete	253 531
6	Plunger	210 559	16a	Gear rack at the top	209 781
7	Distributor at the back and the front	252 009	16b	Gear rack in the middle	209 782
9	Selection system completeE2-8	216 218	16c	Gear rack at the bottom	209 783
10	Wiper felt	241 411	19	Cover plate at the bottom	251 127
11	Bolts	212 392	501	Cap screwM4x30	023 290



5.2 Cam box E5 | E3,5.2 | E7m.

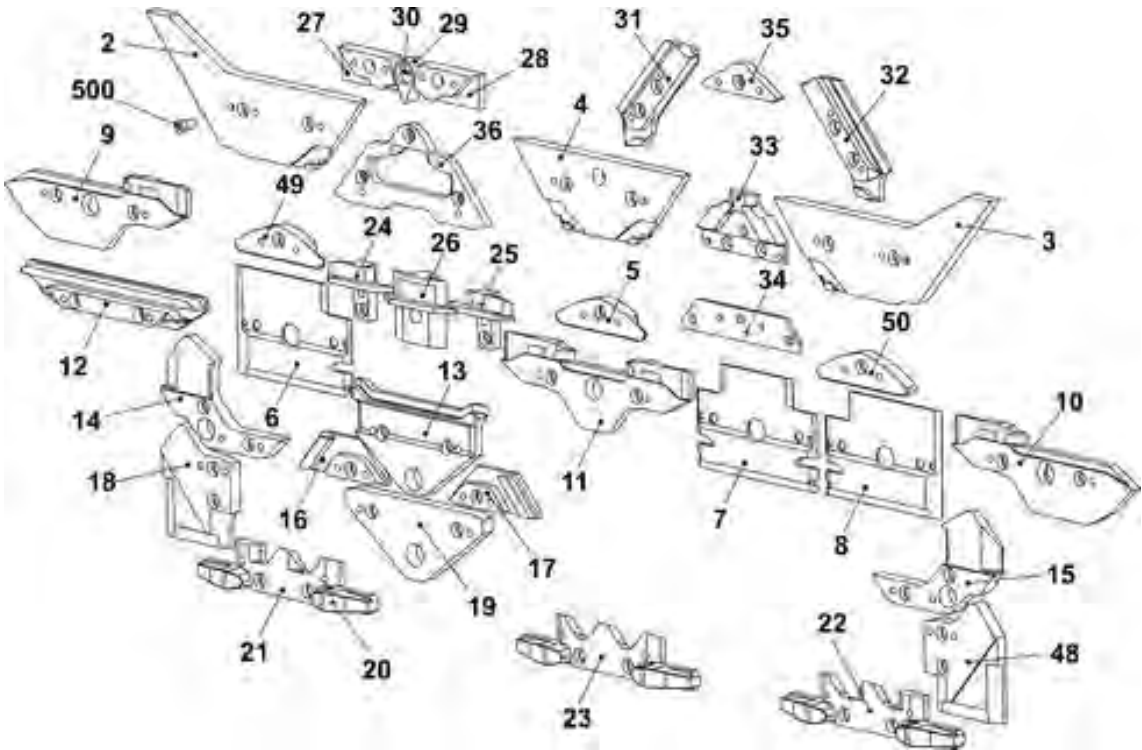
Pos	Designation		Id		Pos	Designation		Id	
Σ	Cam box completeE5		250 983		42	Switching piece		240 281	
1	Cam plate		250 177		51	Shoulder screw		239 626	
37	Loop sinking cam on the right completeE5-10		211 163		505	Shim0,03x12x75		022 828	
38	Loop sinking cam on the left completeE5-10		211 164		506	Shim0,05x12x75		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						



5.2 Cam box E5 | E3,5.2 | E7m.

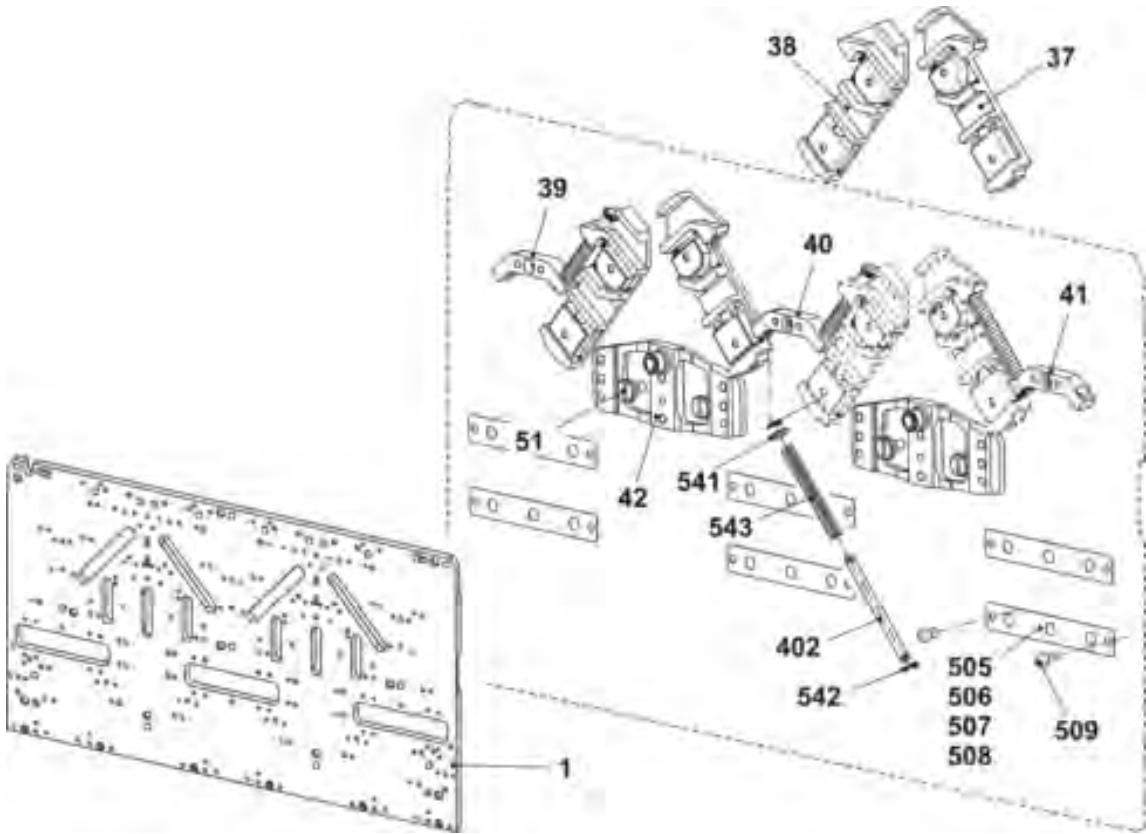
5.2.1 Continuation cam box E5 | E3,5.2 | E7m.5

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



5.3 Cam box E7

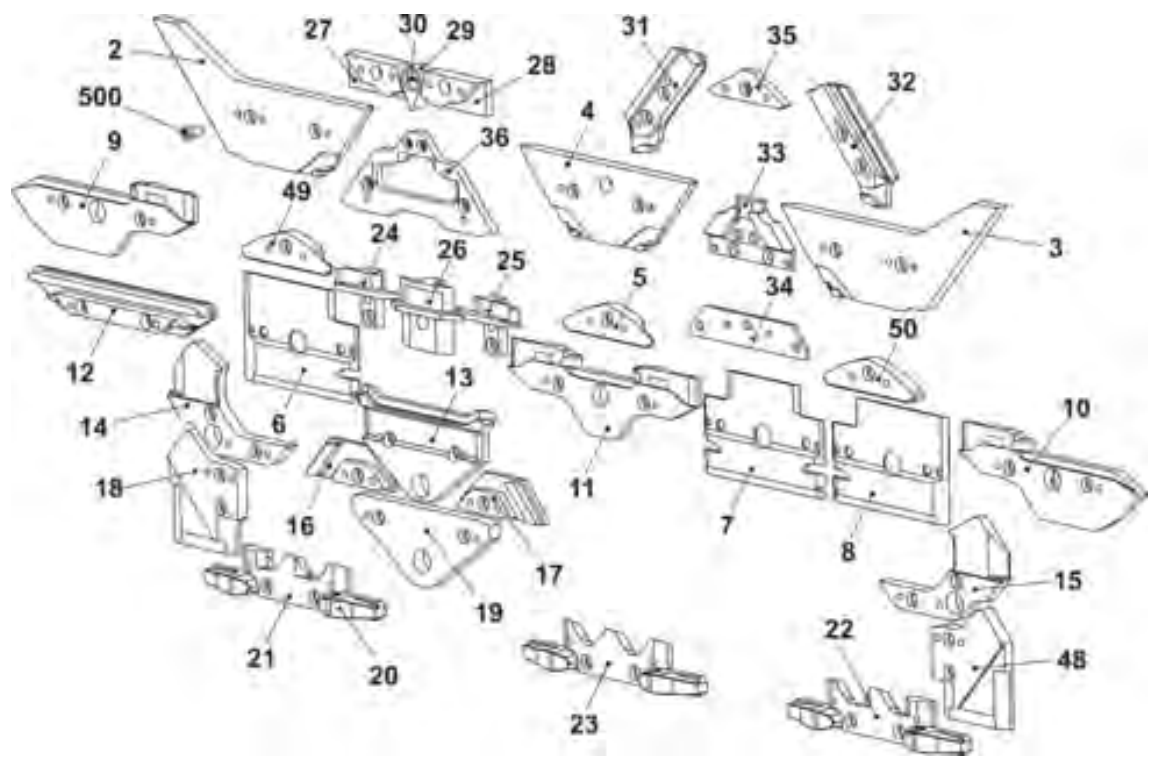
Pos	Designation		Id		Pos	Designation		Id	
Σ	Cam box completeE7		250 673		42	Switching piece		240 281	
1	Cam plate		250 177		51	Shoulder screw		239 626	
37	Loop sinking cam on the right completeE5 – E10		211 163		505	Shim0,03x12x75		022 828	
38	Loop sinking cam on the left completeE5 - E10		211 164		506	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						



5.3 Cam box E7

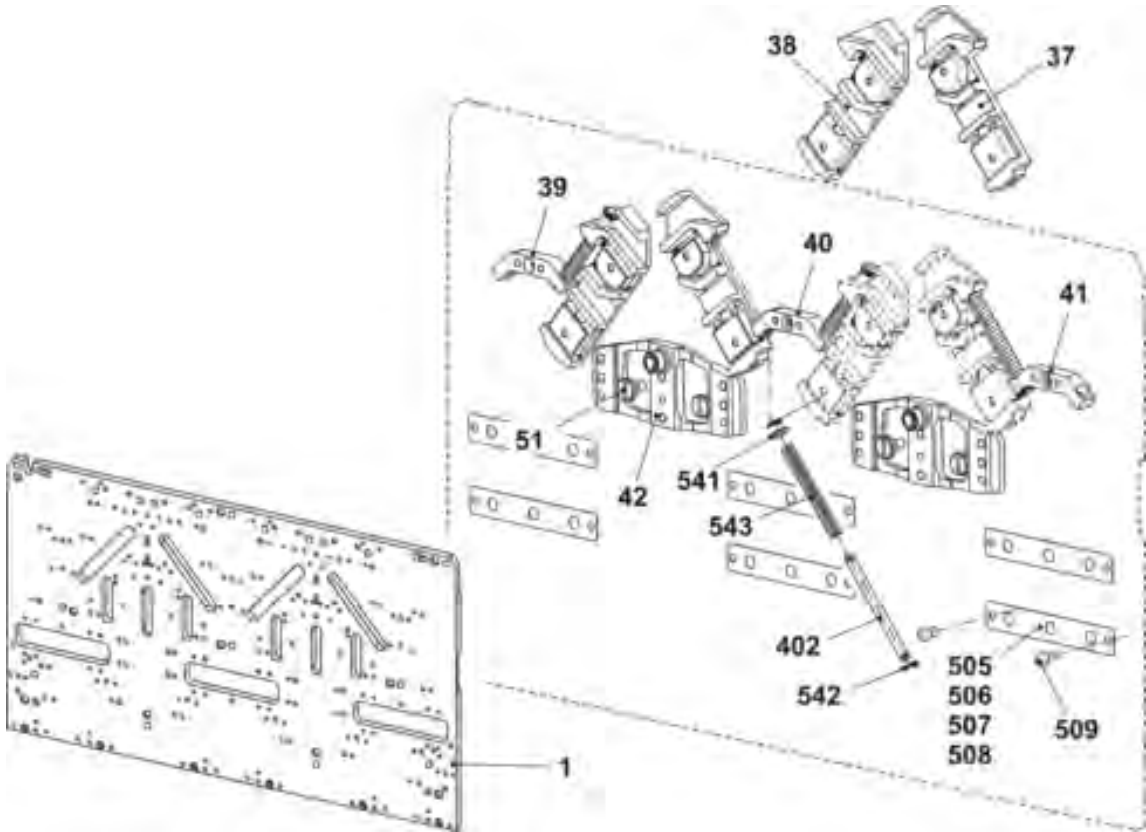
5.3.1 Continuation cam box E7

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



5.4 Cam box E12

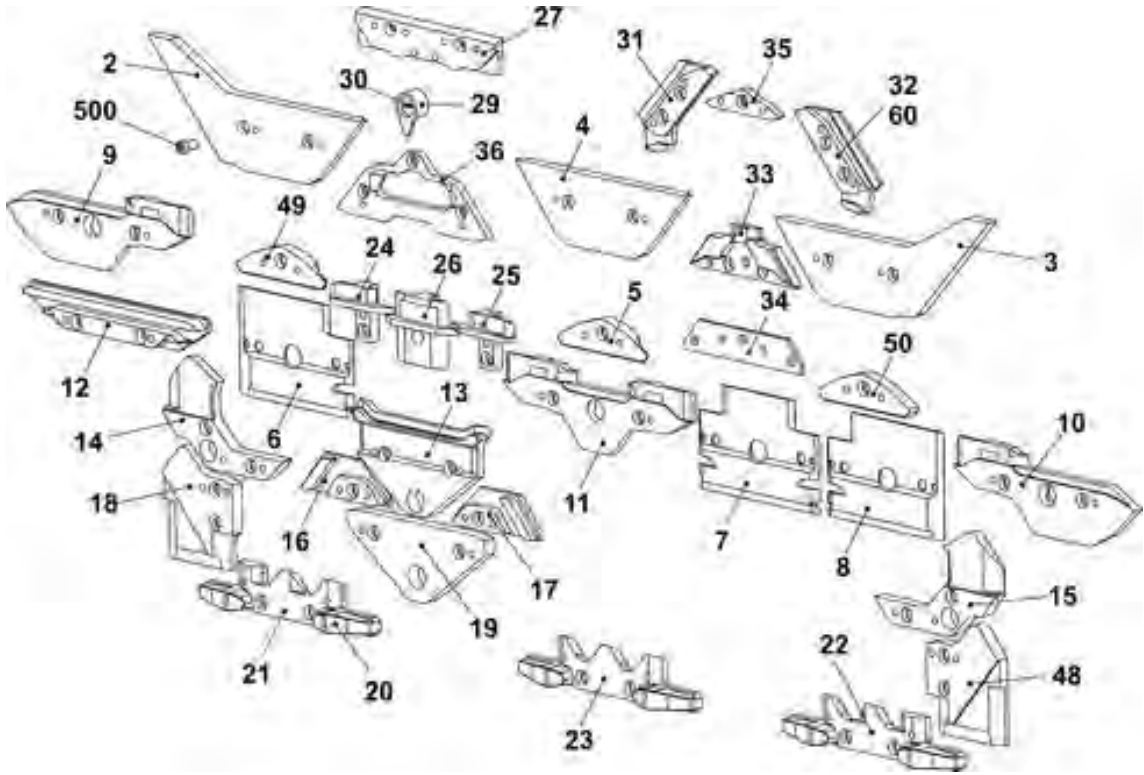
Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box set complete E12	251 016	42	Switching piece	240 281
1	Cam plate	250 177	51	Shoulder screw	239 626
37	Loop sinking cam on the right completeE12-14	214 088	505	Shim0,03x12x75	022 828
38	Loop sinking cam on the left completeE12-14	214 089	506	Shim0,05x12x75	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 Cam box E12

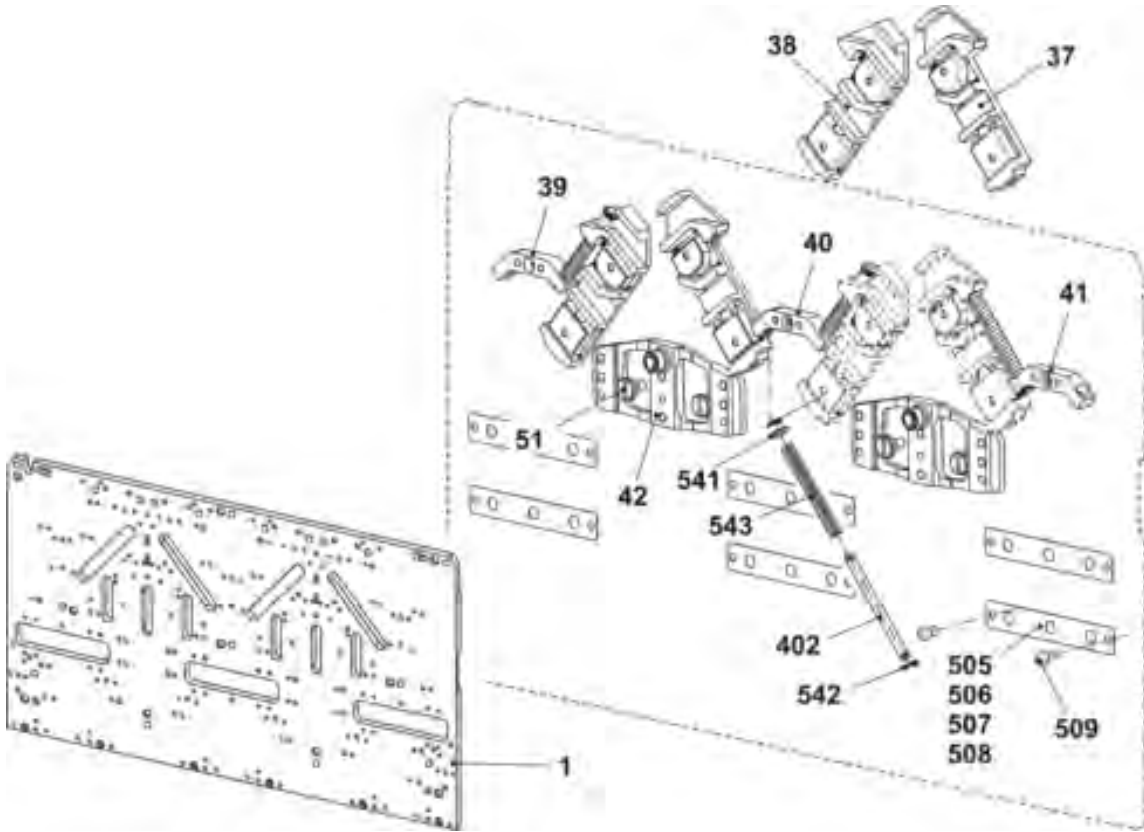
5.4.1 Continuation cam box E12

Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box set complete E12	251 016	22	Selection cam on the right	212 947
2	Entry cam on the left	243 595	23	Selection cam	212 946
3	Entry cam on the right	243 597	24	Pressure part receiving on the left	239 848
4	Entry cam in the middle	243 596	25	Pressure part receiving on the right	239 849
5	Entry cam at the bottom -1,5 E10-14	216 328	26	Tuck pressure part	239 621
6	Plate on the left	230 988	27	Limiting cam E12-14	210 612
7	Plate in the middle	231 035	29	Pointer E10-14	210 349
8	Plate on the right	231 036	30	Screw	210 335
9	Cam on the left	231 039	31	Stitch cam on the left E10 -E14 + E7.2	236 318
10	Cam part at the right	231 041	32	Stitch cam on the right E10 -E14 + E7.2	236 319
11	Cam part at the center	231 040	33	Tuck limiting cam E12	236 403
12	Cam part	227 923	34	Raising cam plate E4-12	204 372
13	Cam part	210 254	35	Receiving cam E10-12	210 595
14	Cam on the left E5-14	212 265	36	Raising cam without split-stitchE10-12	237 993
15	Cam at the right E5-14	212 266		Raising cam with split-stitch E10 – E12 (Accessory)	213 300
16	Cam on the left	236 192	48	Cam at the right E5-14	212 275
17	Cam part at the right	236 193	49	Entry cam on the left -1,5 E10-14	216 329
18	Cam on the left E5-14	212 274	50	Entry cam on the right -1,5 E10-14	216 330
19	Cam part	210 252	60	Stitch cam at the rear on the right E10-12	236 320
20	Offering cam	210 185	500	Cap screwM4x8	020 091
21	Selection cam on the left	212 944			



5.5 Cam box E14 | E14/12

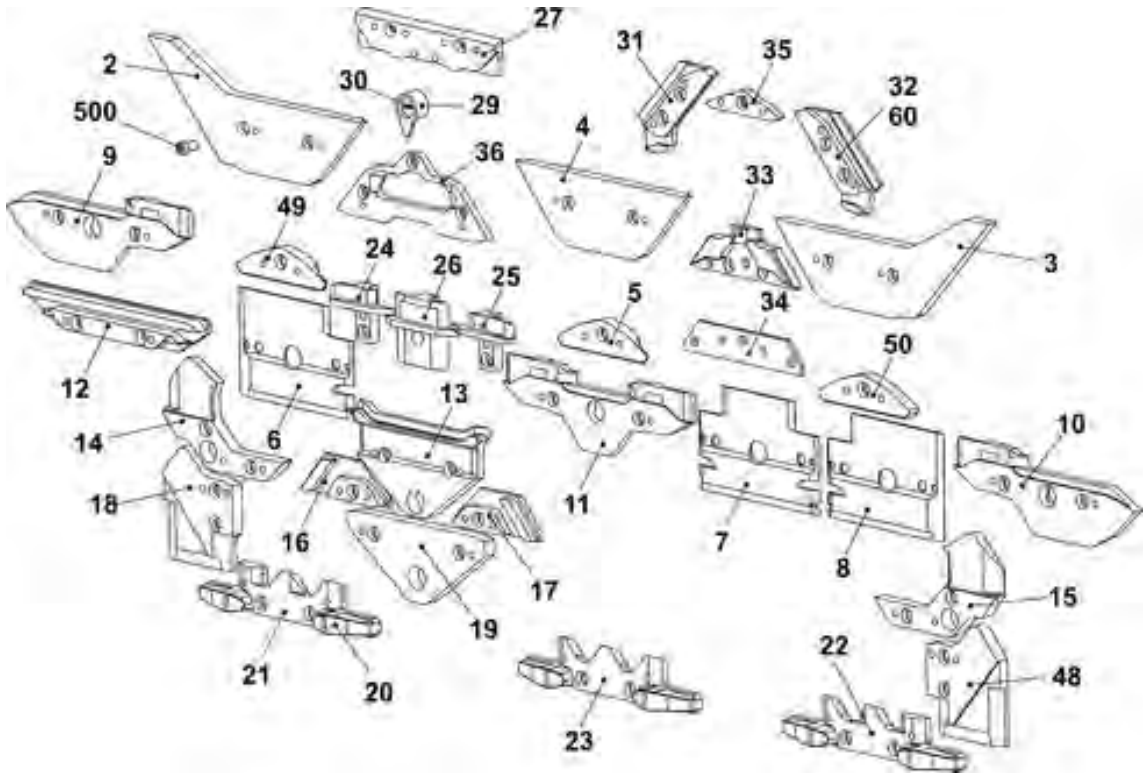
Pos	Designation	Id		Pos	Designation	Id
Σ	Cam box completeE14	250 313				
1	Cam plate	250 177		42	Switching piece	240 281
37	Loop sinking cam on the right completeE12-14	214 088		51	Shoulder screw	239 626
38	Loop sinking cam on the left completeE12-14	214 089		505	Shim0,03x12x75	022 828
39	Rod guide element on the left	211 165		506	Shim0,05x12x75	022 829
40	Rod guide element in the middle	211 166		507	Shim0,1x12x75	022 830
41	Rod guide element on the right	211 168		508	Shim0,2x12x75	022 831
402	Spring rod	209 791		509	Pan-head screw M3x4	023 142
541	Disk4,3x7x0,5	022 153				
542	Circlip 3,2	021 019				
543	Compression spring	250 515				



5.5 Cam box E14 | E14/12

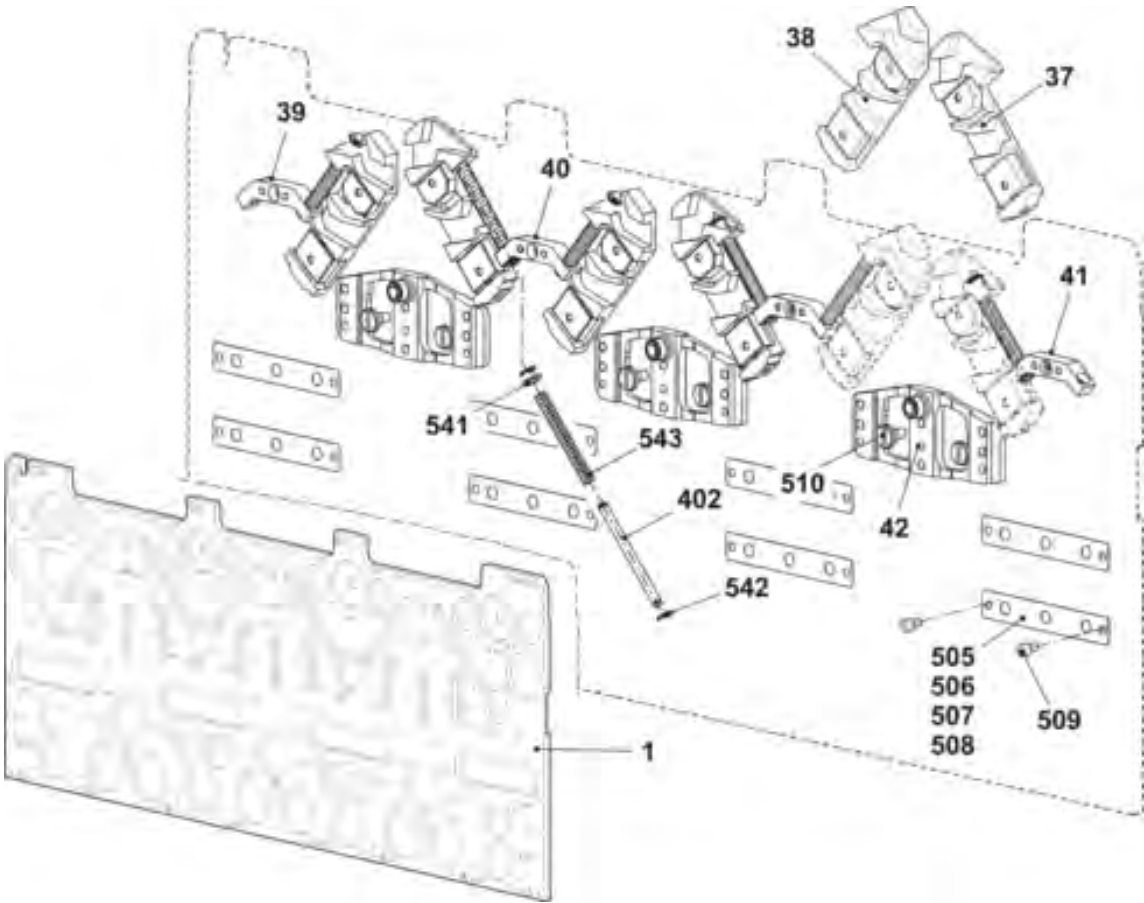
5.5.1 Fortsetzung Schloss E14 | E14/12

Pos	Designation	Id		Pos	Designation	Id
Σ	Cam box completeE14	250 313				
2	Entry cam on the left	243 595		22	Selection cam on the right	212 947
3	Entry cam on the right	243 597		23	Selection cam	212 946
4	Entry cam in the middle	243 596		24	Pressure part receiving on the left	239 848
5	Entry cam at the bottom -1,5 E10-14	216 328		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 E12-14	210 612
8	Plate on the right	231 036		29	Pointer E10-14	210 349
9	Cam on the left	231 039		30	Screw	210 335
10	Cam at the right	231 041		31	Stitch cam on the left E10-14 + E7.2	236 318
11	Cam part at the center	231 040		32	Stitch cam on the right E10-14 + E7.2	236 319
12	Cam	227 923		33	Tuck limiting cam E14	236 428
13	Cam	210 254		34	Raising cam plate E4-12	204 372
14	Cam on the left E5-14	212 265		35	Receiving cam E14	236 944
15	Cam at the right E5-14	212 266		36	Raising cam without split-stitchE14	236 767
16	Cam on the left	236 192			Raising cam with split-stitchE14 (Accessory)	214 212
17	Cam 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 on the left -1,5 E10-14	216 329
19	Cam	210 252		50	Entry cam on the right -1,5 E10-14	216 330
20	Offering cam	210 185		500	Cap screw M4x8	020 091
21	Selection cam on the left	212 944				



5.6 Cam box E16 | E18

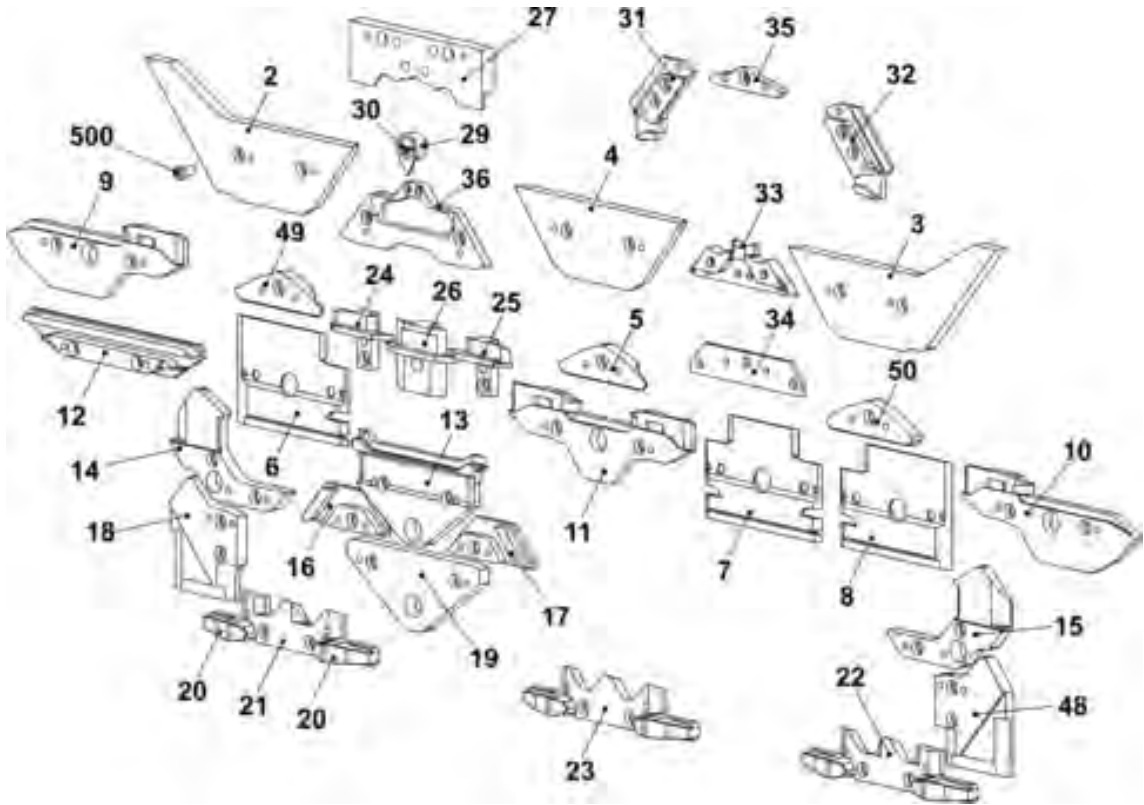
Pos	Designation		ID		Pos	Designation		ID	
Σ	Cam box completeE16 – E18		256 972		42	Switching piece		240 281	
1	Cam plate		250 177		505	Shim0,03x12x75		022 828	
37	Loop sinking cam on the right completeE16-20		221 123		506	Shim0,05x12x75		022 829	
38	Loop sinking cam on the left completeE16-20		221 124		507	Shim0,1x12x75		022 830	
39	Rod guide element on the left		211 165		508	Shim0,2x12x75		022 831	
40	Rod guide element in the middle		211 166		509	Pan-head screw M3x4		023 142	
41	Rod guide element on the right		211 168		510	Shoulder screw		239 626	
	402	Spring rod	209 791						
	541	Disk4,3x7x0,5	022 153						
	542	Circlip 3,2	021 019						
	543	Compression spring	250 515						



5.6 Cam box E16 | E18

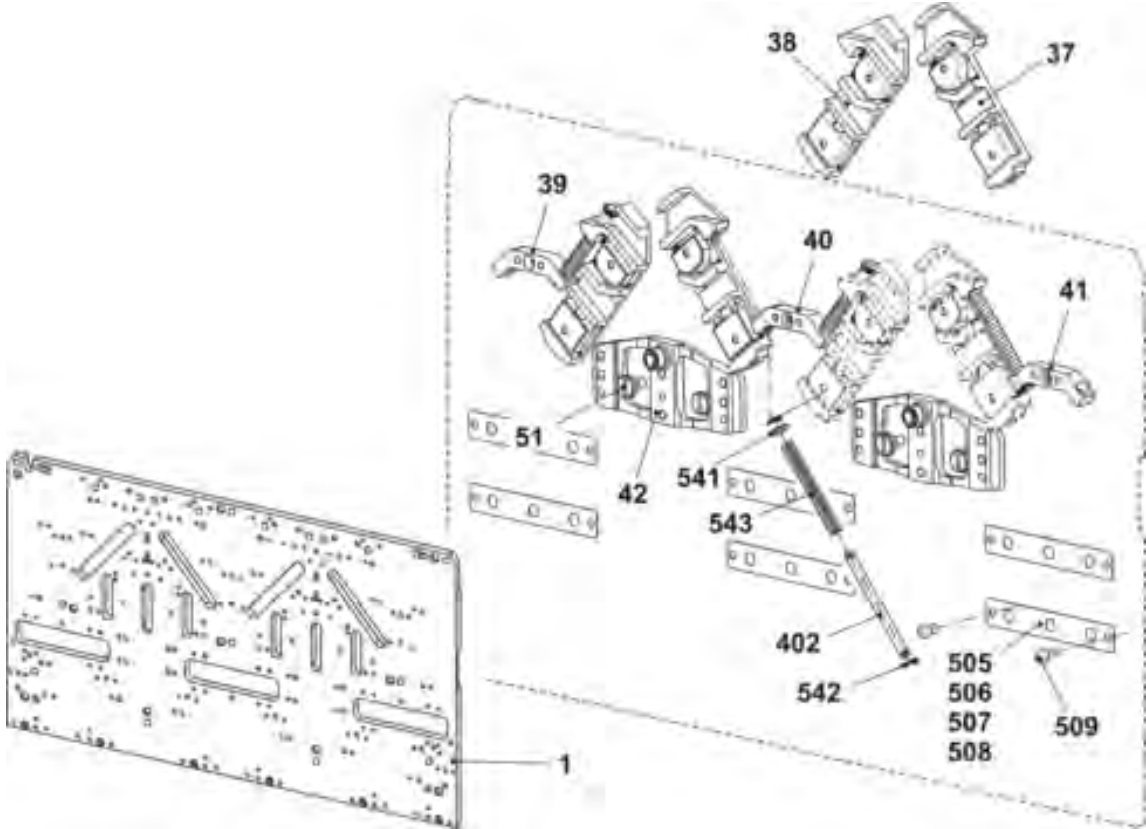
5.6.1 Continuation cam box E16 | E18

Pos	Designation	ID	Pos	Designation	ID
Σ	Cam box complete E16-18	256 972	22	Selection cam on the right	212 947
2	Entry cam on the left	243 595	23	Selection cam	212 946
3	Entry cam on the right	243 597	24	Pressure part receiving on the left	239 848
4	Entry cam in the middle	243 596	25	Pressure part receiving on the right	239 849
5	Entry cam at the bottom E16-20	220 842	26	Tuck pressure part	239 621
6	Plate on the left	230 988	27	Limiting cam E16-20	220 865
7	Plate in the middle	231 035	29	Pointer E16-20	224 383
8	Plate on the right	231 036	30	Screw	210 335
9	Cam on the left	231 039	31	Stitch cam on the left E16-20	220 870
10	Cam part at the right	231 041	32	Stitch cam on the right E16-20	220 871
11	Cam part at the center	231 040	33	Tuck limiting cam E16-18	239 936
12	Cam part	227 923	34	Raising cam plate E4-12	204 372
13	Cam part	210 254	35	Receiving cam E16-20	220 863
14	Cam on the left E5-14	212 265	36	Raising cam without split-stitch E16-18	239 457
15	Cam at the right E5-14	212 266		Raising cam with split-stitch E16-18 (Accessory)	239 742
16	Cam on the left	236 192	48	Cam at the right E5-14	212 275
17	Cam part at the right	236 193	49	Entry cam on the left E16-20	220 841
18	Cam on the left E5-14	212 274	50	Entry cam on the right E16 -20	220 843
19	Cam part	210 252	500	Cap screwM4x8	020 091
20	Offering cam	210 185			
21	Selection cam on the left	212 944			



5.7 Cam box E6.2

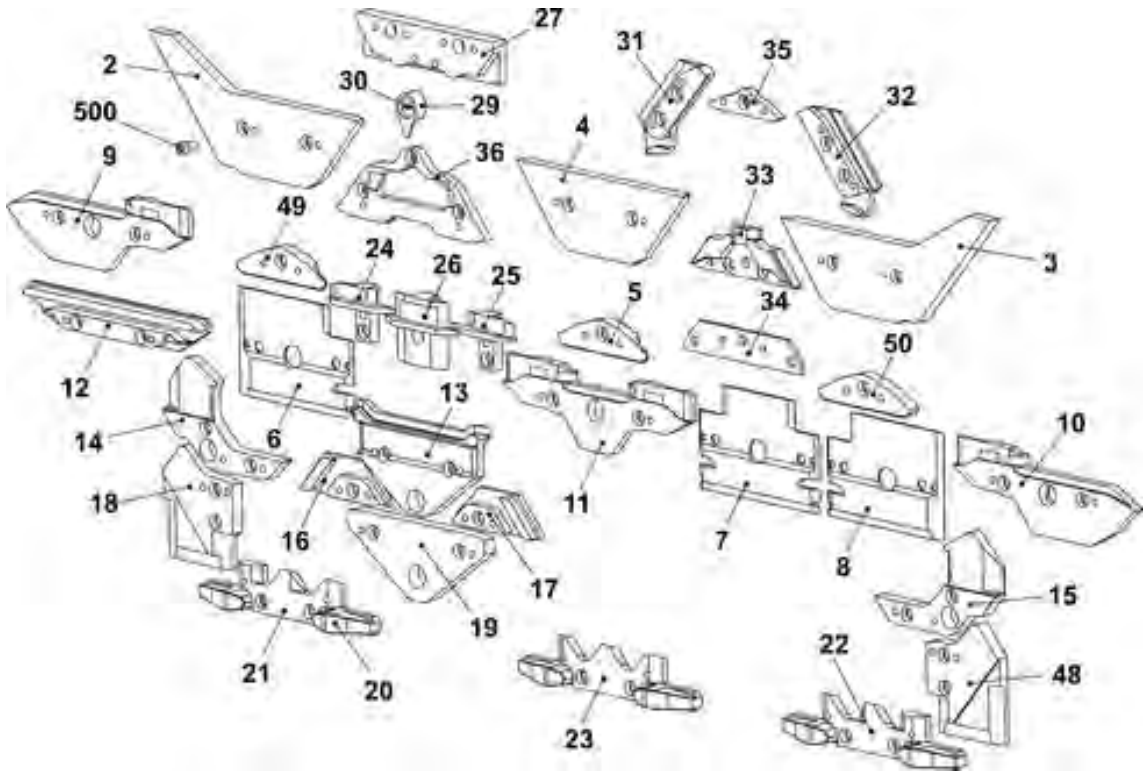
Pos	Designation		Id		Pos	Designation	Id
Σ	Cam box completeE6.2		250 990		42	Switching piece	240 281
1	Cam plate		250 177		51	Shoulder screw	239 626
37	Loop sinking cam on the right completeE12-14		214 088		505	Shim0,03x12x75	022 828
38	Loop sinking cam on the left completeE12-14		214 089		506	Shim0,05x12x75	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	Compression spring	250 515				



5.7 Cam box E6.2

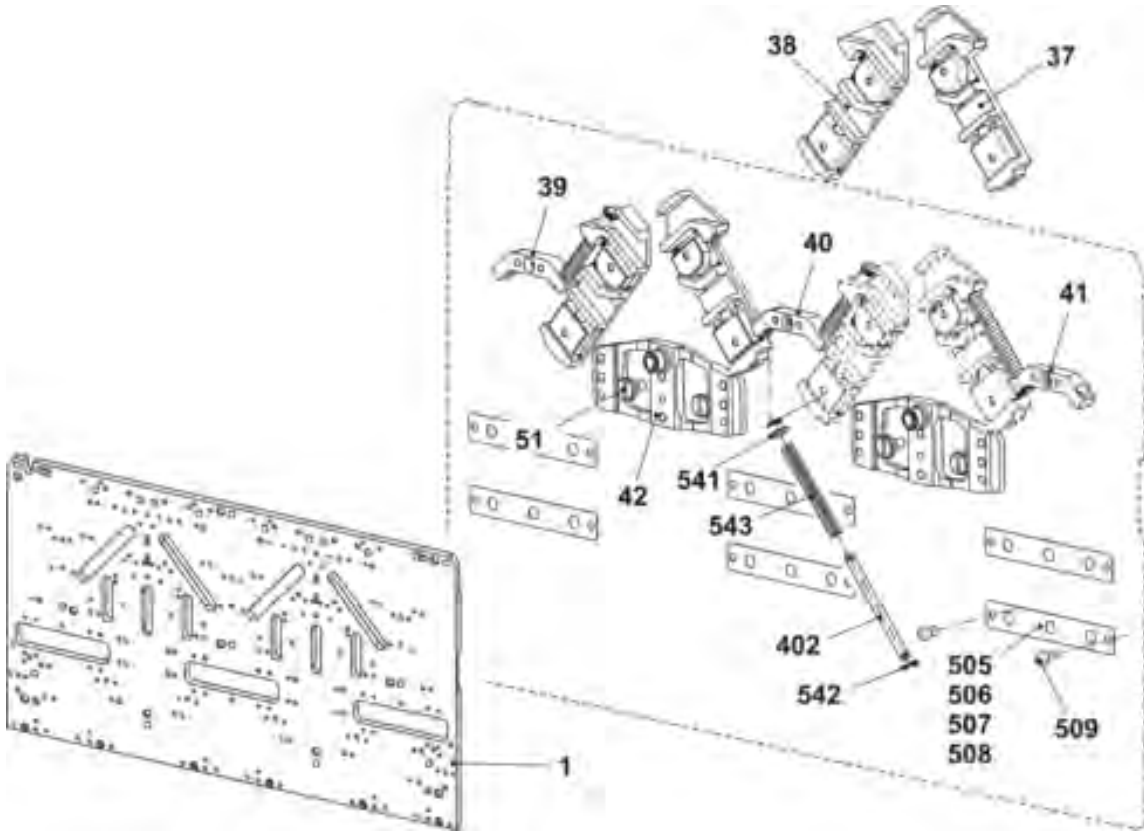
5.7.1 Continuation cam box E6.2

Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box complete E6.2	250 990	21	Selection cam on the left	212 944
2	Entry cam on the left	243 595	22	Selection cam on the right	212 947
3	Entry cam on the right	243 597	23	Selection cam	212 946
4	Entry cam at the top	243 596	24	Pressure part receiving on the left	239 848
5	Entry cam at the bottom -1,5 E10 - E14	216 328	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 E6.2	218 306
8	Plate on the right	231 036	29	Pointer E10 – E14	210 349
9	Cam on the left	231 039	30	Screw	210 335
10	Cam part at the right	231 041	31	Stitch cam on the left E6.2	236 392
11	Cam part at the center	231 040	32	Stitch cam on the right E6.2	236 393
12	Cam part	227 923	33	Tuck limiting cam E6.2	236 429
13	Cam part	210 254	34	Raising cam plate E4-12	204 372
14	Cam on the left E5 – E14	212 265	35	Receiving cam E6.2	236 943
15	Cam at the right E5 - E14	212 266	36	Raising cam without split-stitchE6.2	236 766
16	Cam on the left	236 192		Raising cam with split-stitch E6.2 (Accessories)	237 948
17	Cam part at the right	236 193	48	Cam at the right E5-14	212 275
18	Cam on the left E5 - E14	212 274	49	Entry cam on the left -1,5 E10 – E14	216 329
19	Cam part	210 252	50	Entry cam on the right -1,5 E10 – E14	216 330
20	Offering cam	210 185	500	Cap screwM4x8	020 091



5.8 Cam box E7.2

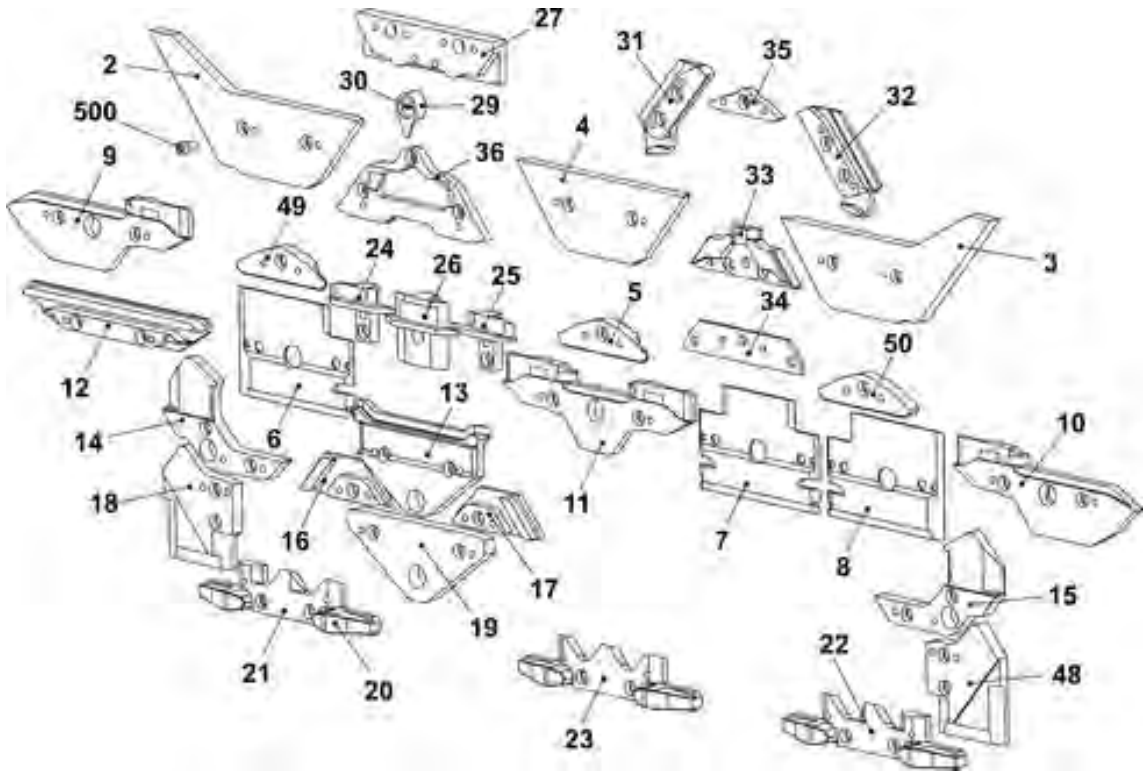
Pos	Designation		Id		Pos	Designation		Id	
Σ	Cam box completeE7.2		256 057		42	Switching piece		240 281	
1	Cam plate		250 177		51	Shoulder screw		239 626	
37	Loop sinking cam on the right completeE12-14		214 088		505	Shim0,03x12x75		022 828	
38	Loop sinking cam on the left completeE12-14		214 089		506	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	Compression spring	250 515						



5.8 Cam box E7.2

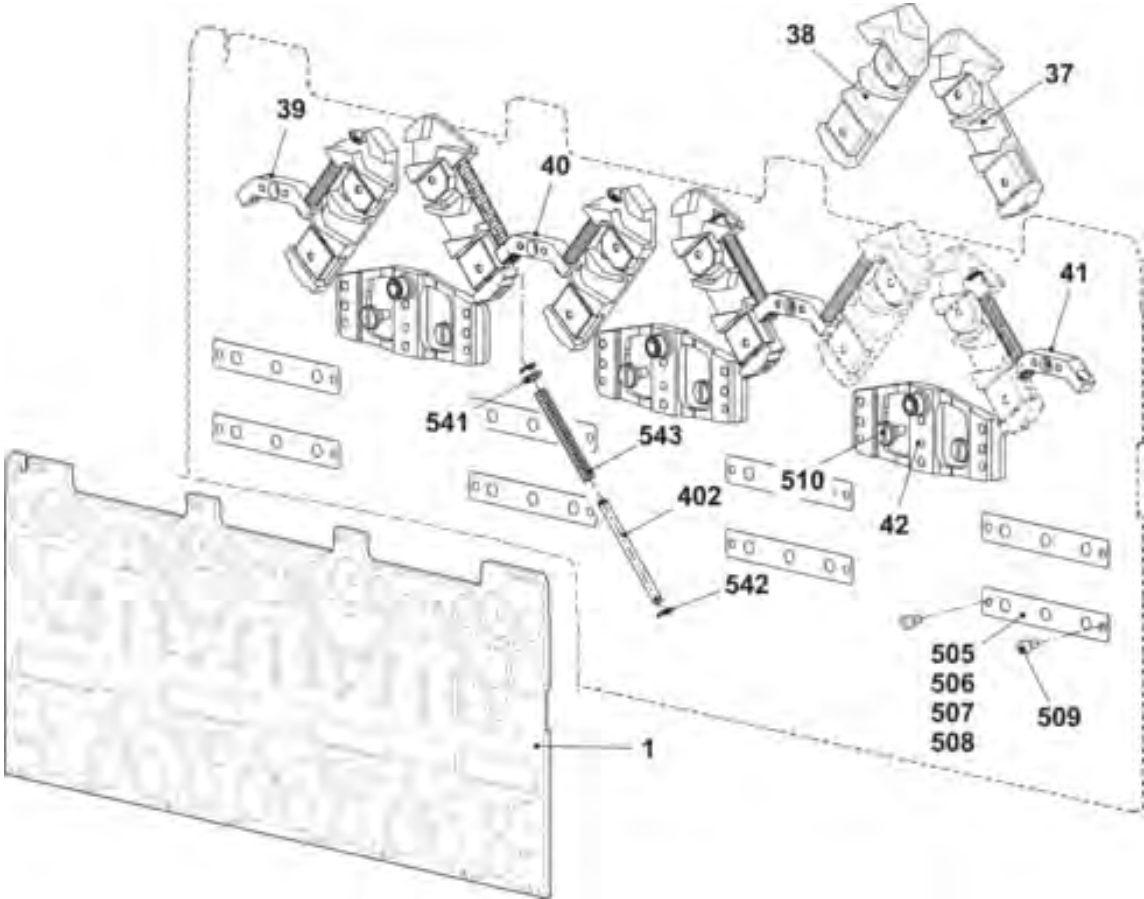
5.8.1 Continuation cam box E6.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Cam box complete E7.2	256 057		21	Selection cam on the left	212 944
2	Entry cam on the left	243 595		22	Selection cam on the right	212 947
3	Entry cam on the right	243 597		23	Selection cam	212 946
4	Entry cam at the top	243 596		24	Pressure part receiving on the left	239 848
5	Entry cam at the bottom -1,5 E10-14	216 328		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 E10	210 611
8	Plate on the right	231 036		29	Pointer E10-14	210 349
9	Cam on the left	231 039		30	Screw	210 335
10	Cam part at the right	231 041		31	Stitch cam on the left E10-14 + E7.2	236 318
11	Cam part at the center	231 040		32	Stitch cam on the right E10-14 + E7.2	236 319
12	Cam part	227 923		33	Tuck limiting cam E10 + E7.2	236 345
13	Cam part	210 254		34	Raising cam plate E4-12	204 372
14	Cam on the left E5-14	212 265		35	Receiving cam E10-12	210 595
15	Cam at the right E5-14	212 266		36	Raising cam without split-stitchE7.2	237 993
16	Cam on the left	236 192			Raising cam with split-stitch E7.2 (Accessories)	213 300
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 on the left -1,5 E10-14	216 329
19	Cam part	210 252		50	Entry cam on the right -1,5 E10-14	216 330
20	Offering cam	210 185		500	Cap screwM4x8	020 091



5.9 Cam box E8.2

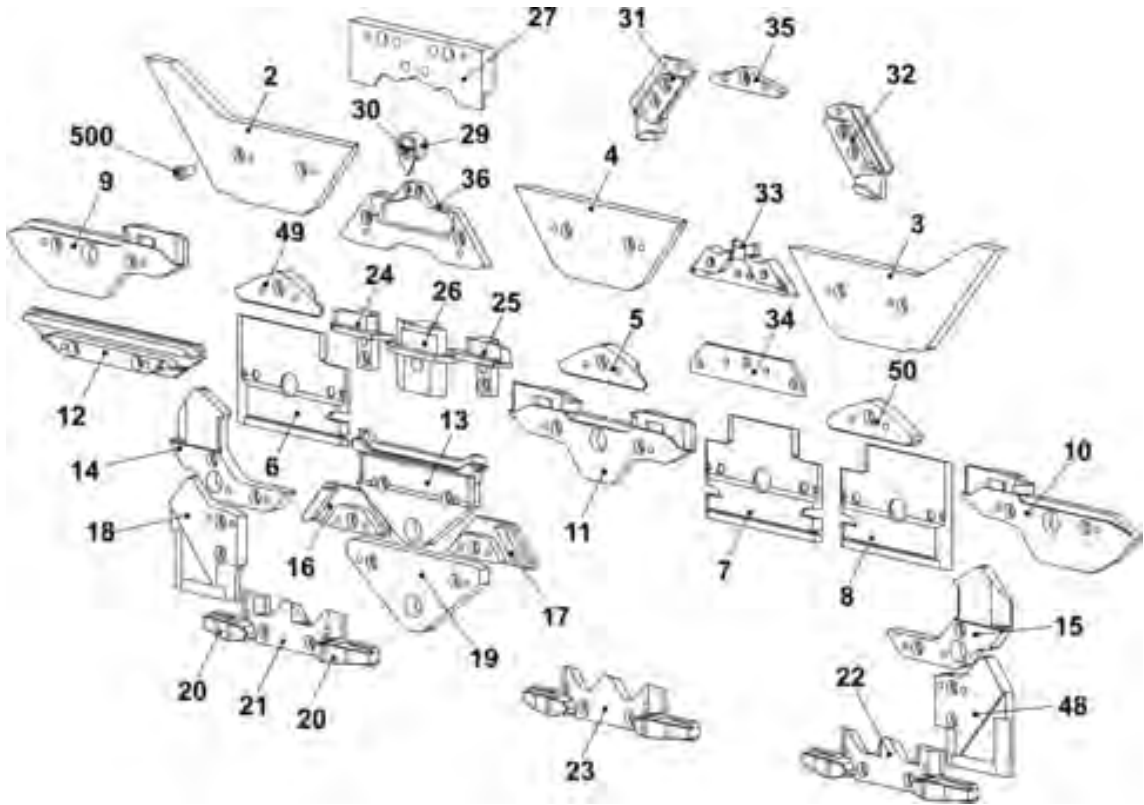
Pos	Designation		ID		Pos	Designation	ID
Σ	Cam box complete E8.2		256 973		42	Switching piece	240 281
1	Cam plate		250 177		505	Shim0,03x12x75	022 828
37	Loop sinking cam on the right completeE16-20		221 123		506	Shim0,05x12x75	022 829
38	Loop sinking cam on the left completeE16-20		221 124		507	Shim0,1x12x75	022 830
39	Rod guide element on the left		211 165		508	Shim0,2x12x75	022 831
40	Rod guide element in the middle		211 166		509	Pan-head screw M3x4	023 142
41	Rod guide element on the right		211 168		510	Shoulder screw	239 626
	402	Spring rod	209 791				
	541	Disk4,3x7x0,5	022 153				
	542	Circlip 3,2	021 019				
	543	Compression spring	250 515				



5.9 Cam box E8.2

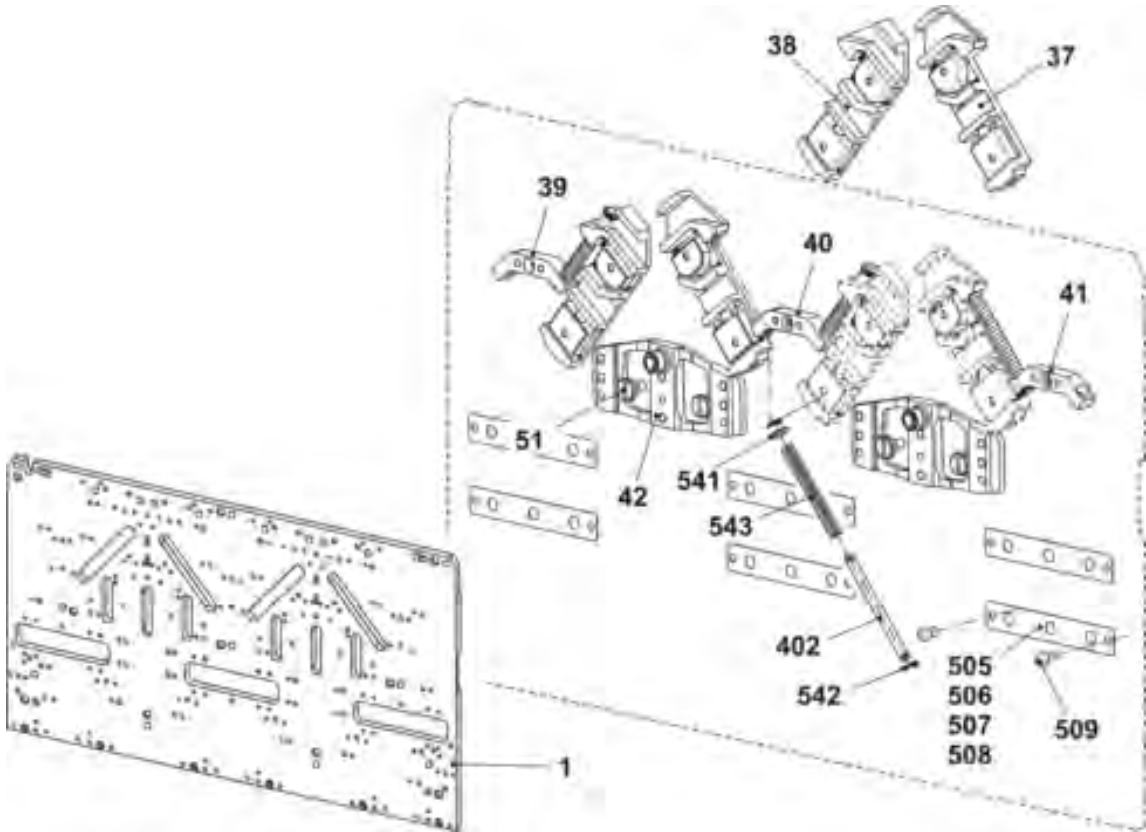
5.9.1 Continuation cam box E8.2

Pos	Designation	ID		Pos	Designation	ID
Σ	Cam box complete E8.2	256 973		22	Selection cam on the right	212 947
2	Entry cam on the left	243 595		23	Selection cam	212 946
3	Entry cam on the right	243 597		24	Pressure part receiving on the left	239 848
4	Entry cam in the middle	243 596		25	Pressure part receiving on the right	239 849
5	Entry cam at the bottom E16-20	220 842		26	Tuck pressure part	239 621
6	Plate on the left	230 988		27	Limiting cam E9.2	228 978
7	Plate in the middle	231 035		29	Pointer E16-20	224 383
8	Plate on the right	231 036		30	Screw	210 335
9	Cam on the left	231 039		31	Stitch cam on the left E16-20	220 870
10	Cam part at the right	231 041		32	Stitch cam on the right E16-20	220 871
11	Cam part at the center	231 040		33	Tuck limiting cam E9.2	239 458
12	Cam part	227 923		34	Raising cam plate E4-12	204 372
13	Cam part	210 254		35	Receiving cam E9.2	228 977
14	Cam on the left E5-14	212 265		36	Raising cam without split-stitch E16-18	239 457
15	Cam at the right E5-14	212 266			Raising cam with split-stitch E16-18 (Accessory)	239 742
16	Cam on the left	236 192		48	Cam at the right E5-14	212 275
17	Cam part at the right	236 193		49	Entry cam on the left E16-20	220 841
18	Cam on the left E5-14	212 274		50	Entry cam on the right E16 -20	220 843
19	Cam part	210 252		500	Cap screwM4x8	020 091
20	Offering cam	210 185				
21	Selection cam on the left	212 944				



5.10 Cam box E12m.10

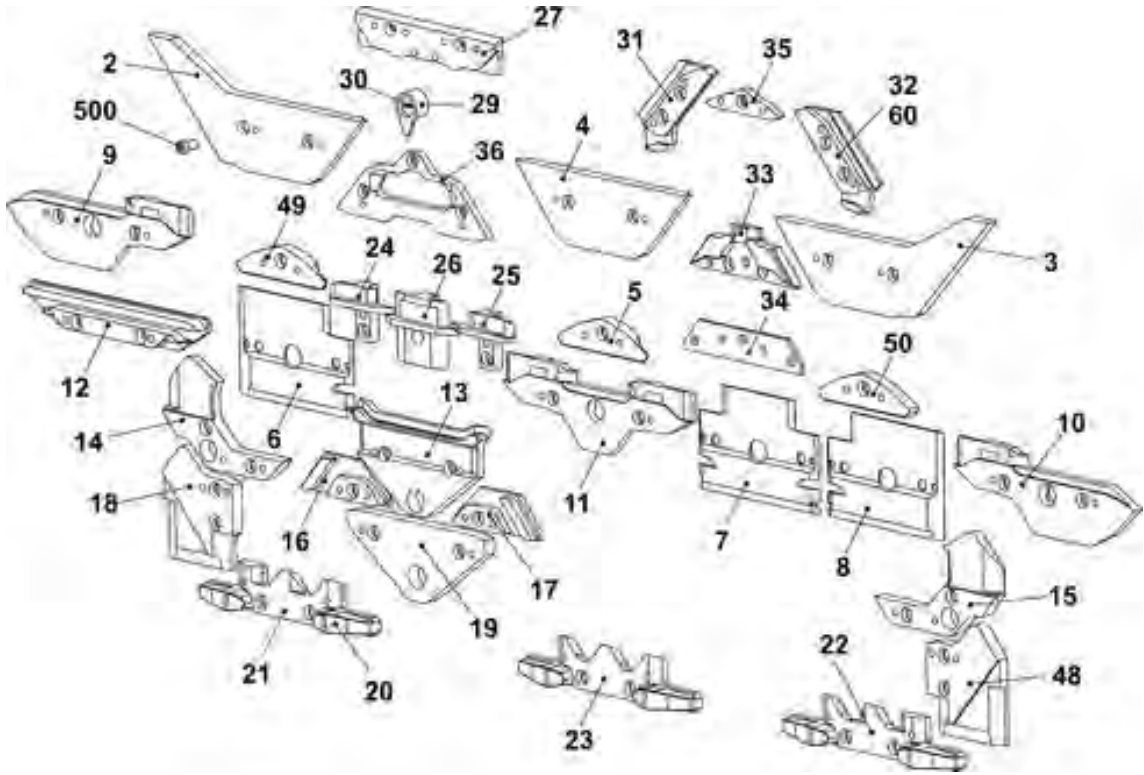
Pos	Designation		Id		Pos	Designation		Id	
Σ	Cam box set complete E12m.10		250 985		42	Switching piece		240 281	
1	Cam plate		250 177		51	Shoulder screw		239 626	
37	Loop sinking cam on the right completeE12-14		214 088		505	Shim0,03x12x75		022 828	
38	Loop sinking cam on the left completeE12-14		214 089		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						



5.10 Cam box E12m.10

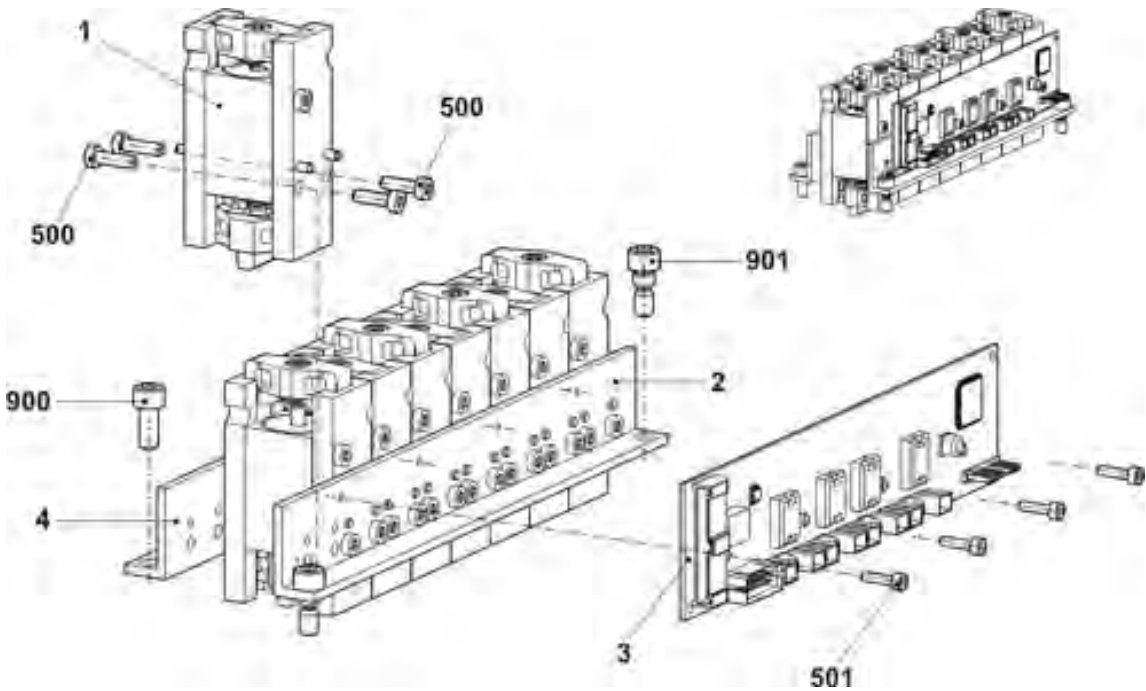
5.10.1 Continuation cam box E12m.10

Pos	Designation	Id		Pos	Designation	Id
Σ	Cam box set complete E12m.10	250 985		22	Selection cam on the right	212 947
2	Entry cam on the left	243 595		23	Selection cam	212 946
3	Entry cam on the right	243 597		24	Pressure part receiving on the left	239 848
4	Entry cam at the top	243 596		25	Pressure part receiving on the right	239 849
5	Entry cam at the bottom -1,5 E10-14	216 328		26	Tuck pressure part	239 621
6	Plate on the left	230 988		27	Limiting cam E10	210 611
7	Plate in the middle	231 035		29	Pointer E10-4	210 349
8	Plate on the right	231 036		30	Screw	210 335
9	Cam on the left	231 039		31	Stitch cam on the left E10-14 + E7.2	236 318
10	Cam at the right	231 041		32	Stitch cam on the right E10-14 + E7.2	236 319
11	Cam part at the center	231 040		33	Tuck limiting cam E12	236 345
12	Cam	227 923		34	Raising cam plate E4-12	204 372
13	Cam	210 254		35	Receiving cam E10-12	210 595
14	Cam on the left E5-14	212 265		36	Raising cam without split-stitchE10-12	237 993
15	Cam at the right E5-14	212 266			Raising cam with split-stitch E10 – E12(Accessory)	213 300
16	Cam on the left	236 192		48	Cam at the right E5-14	212 275
17	Cam at the right	236 193		49	Entry cam on the left -1,5 E10 -14	216 329
18	Cam on the left E5-14	212 274		50	Entry cam on the right -1,5 E10-14	216 330
19	Cam	210 252		500	Cap screw M4x8	020 091
20	Offering cam	210 185		60	Stitch cam at the rear on the right E10 -12	236 320
21	Selection cam on the left	212 944				



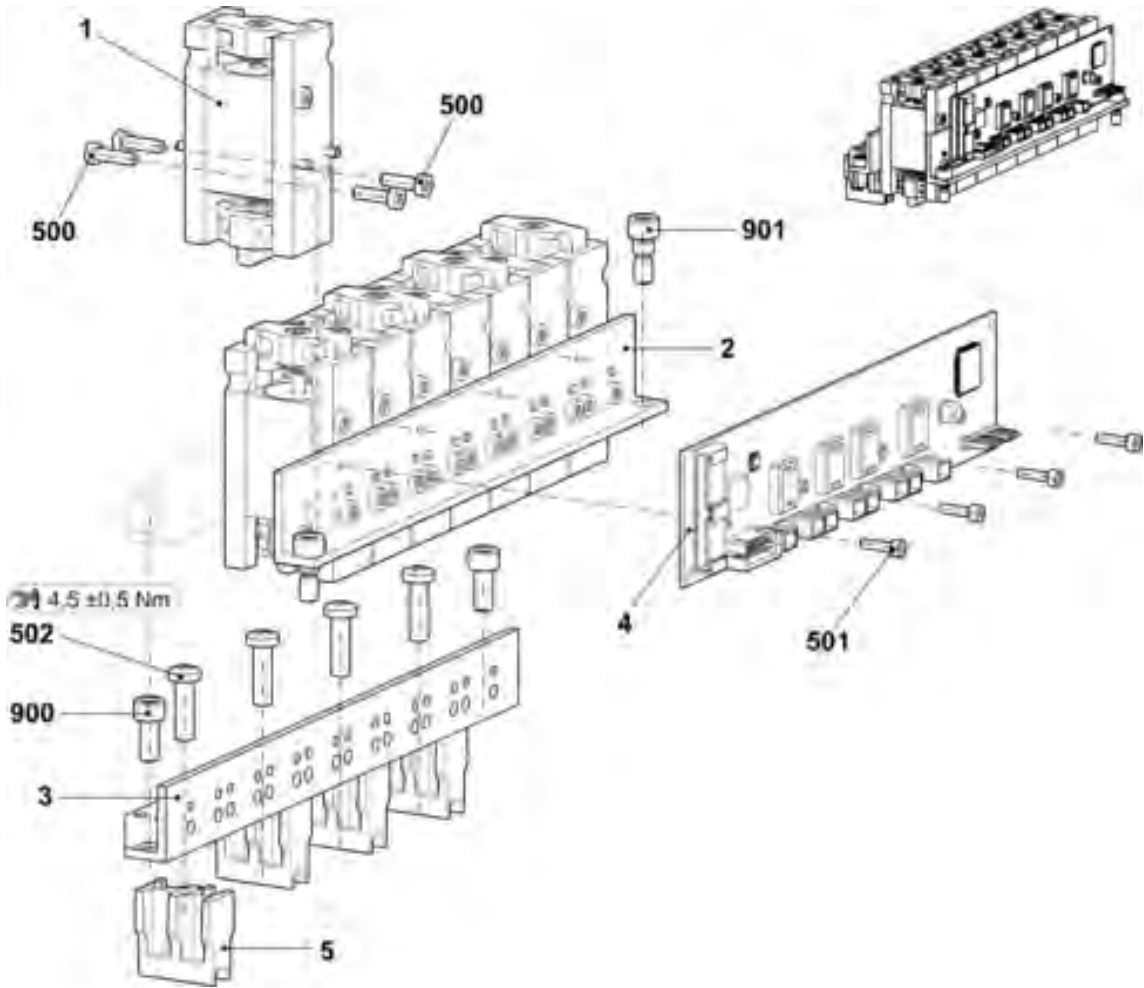
5.11 Yarn carrier driving without guide part

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



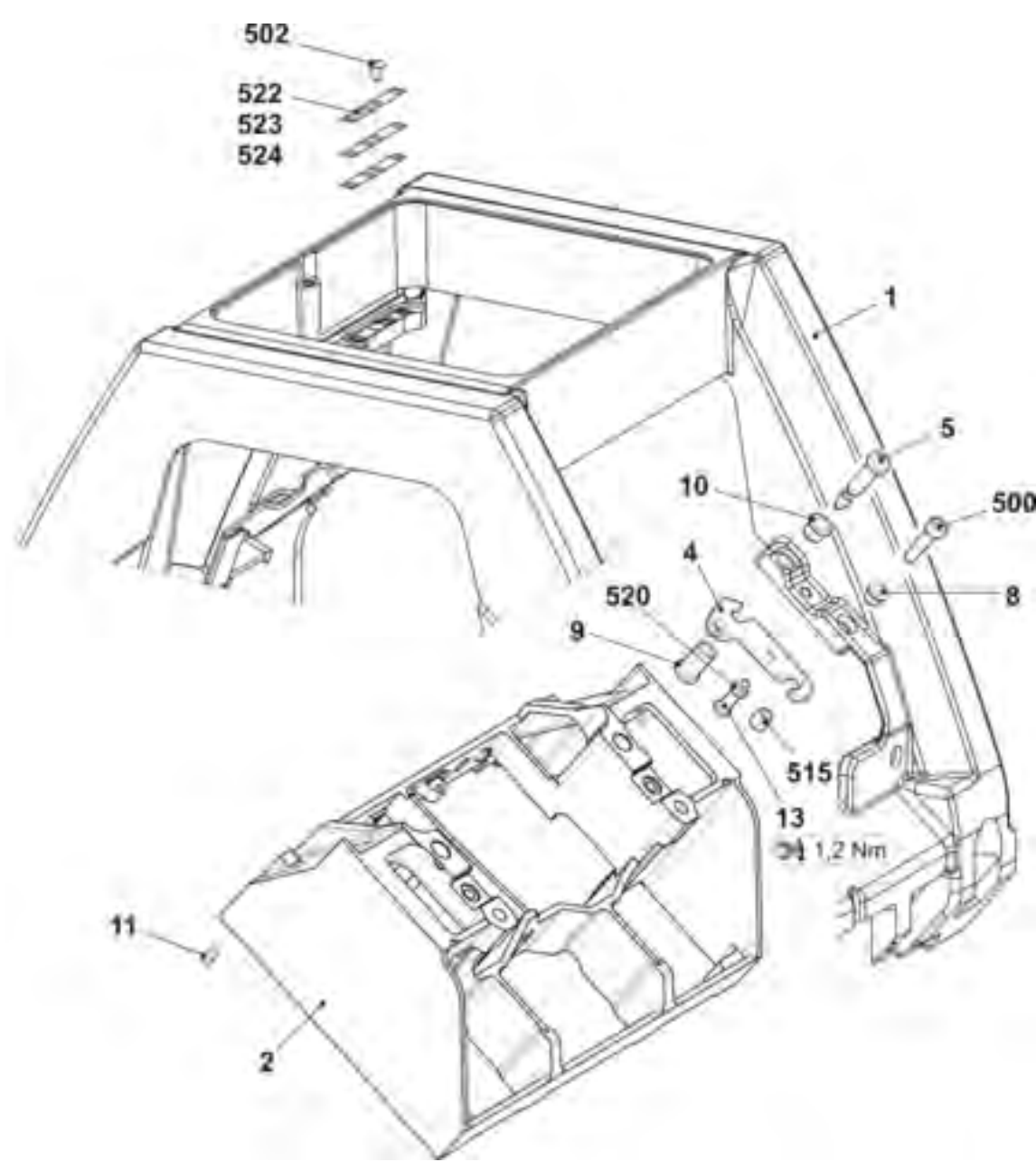
5.12 Yarn carrier driving with guide part

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



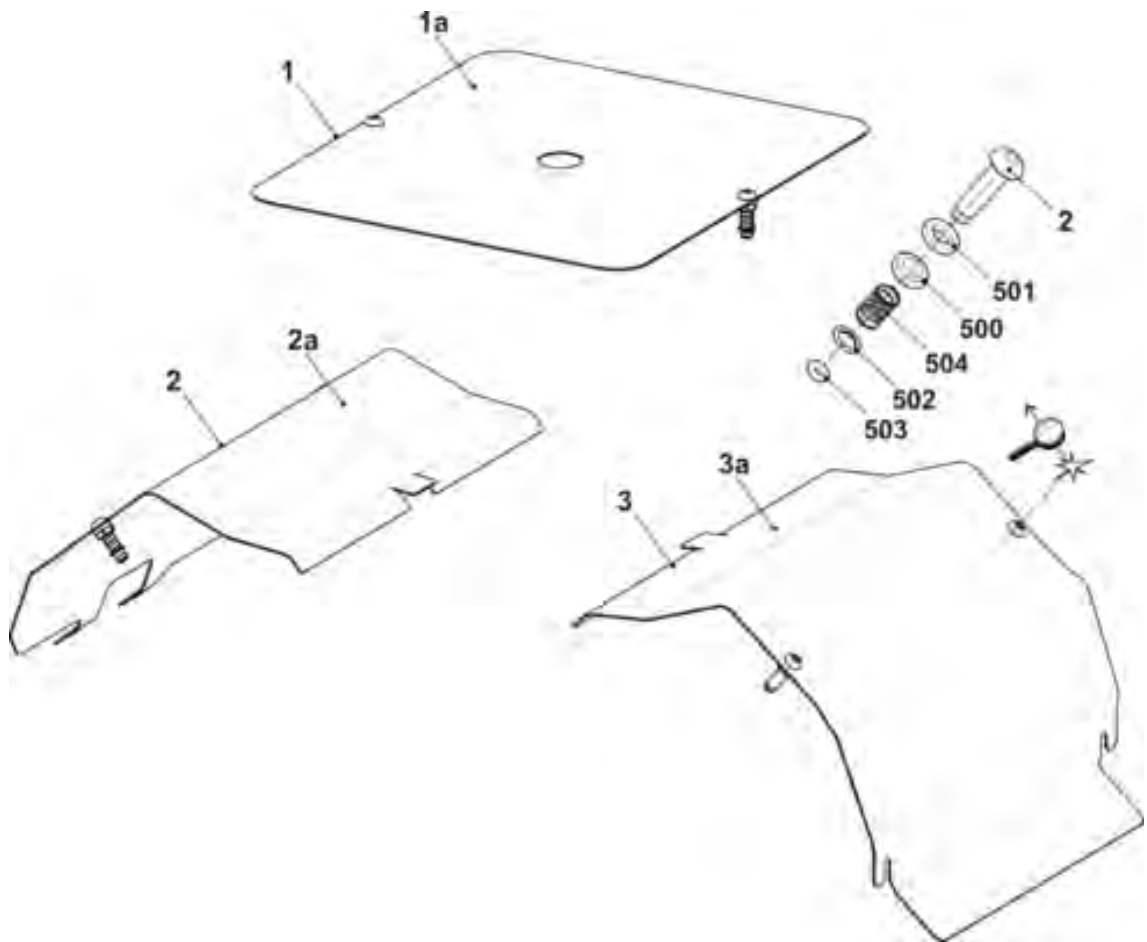
5.13 Carriage assembly

Pos	Designation	Id		Pos	Designation	Id
Σ	Carriage assembly 2 cam boxes complete502	256 497		11	Eccentric	222 983
1	Carriage frame, 2 cam boxes	256 507		13	Locating bolt linking spot	244 179
2	Carriage part, 2 cam boxes	253 402		500	Cap screwM8x30	020 143
4	Shim	225 312		502	Pan-head screwM6x10	023 183
5	Shoulder screw	211 750		520	Circlip6	021 022
8	Bush	207 546		522	Shim 0,2x10x70	023 699
9	Bush	209 275		523	Shim 0,1x10x70	023 698
10	Bush	209 274		524	Shim 0,05x10x70	023 697



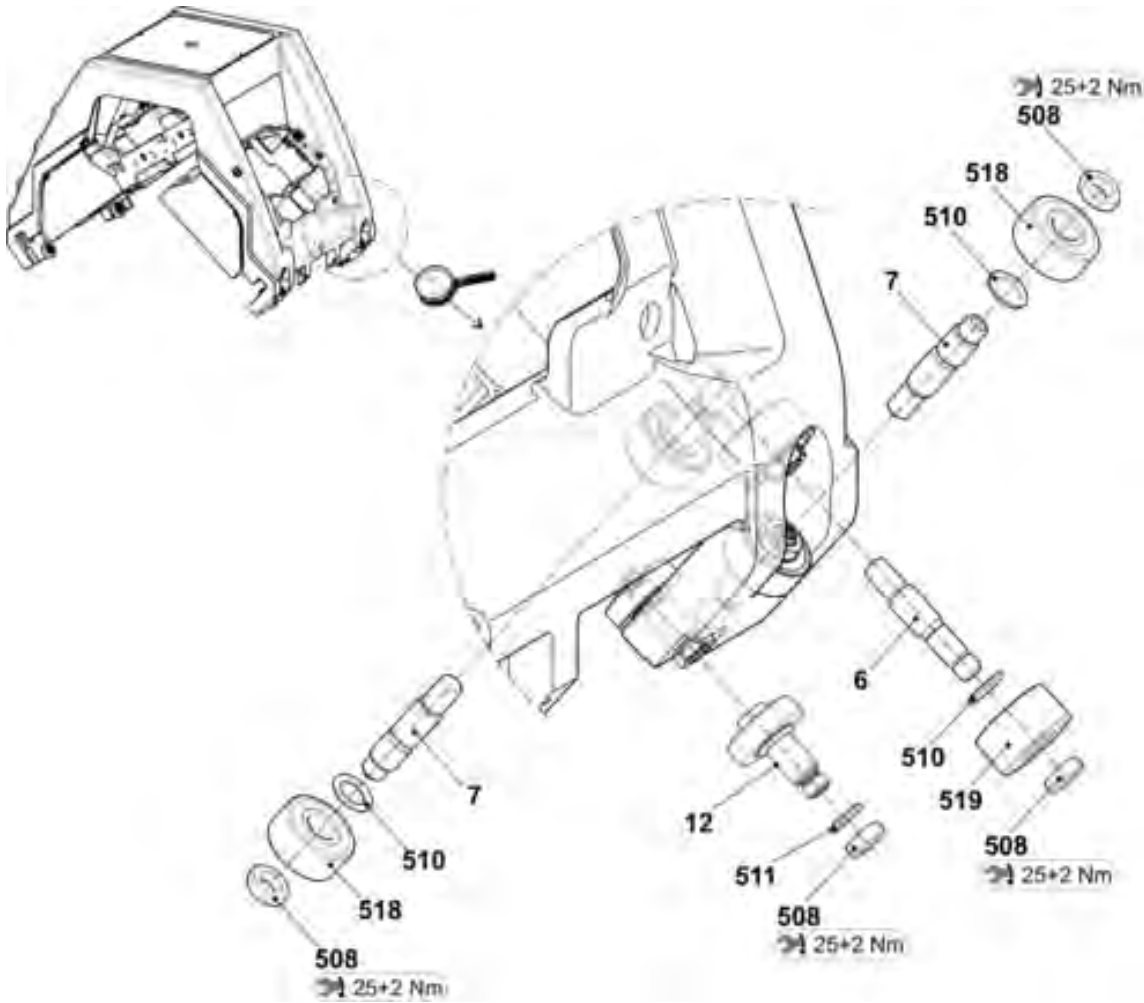
5.14 Carriage cover

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	Washer 6.1x9x0,5	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



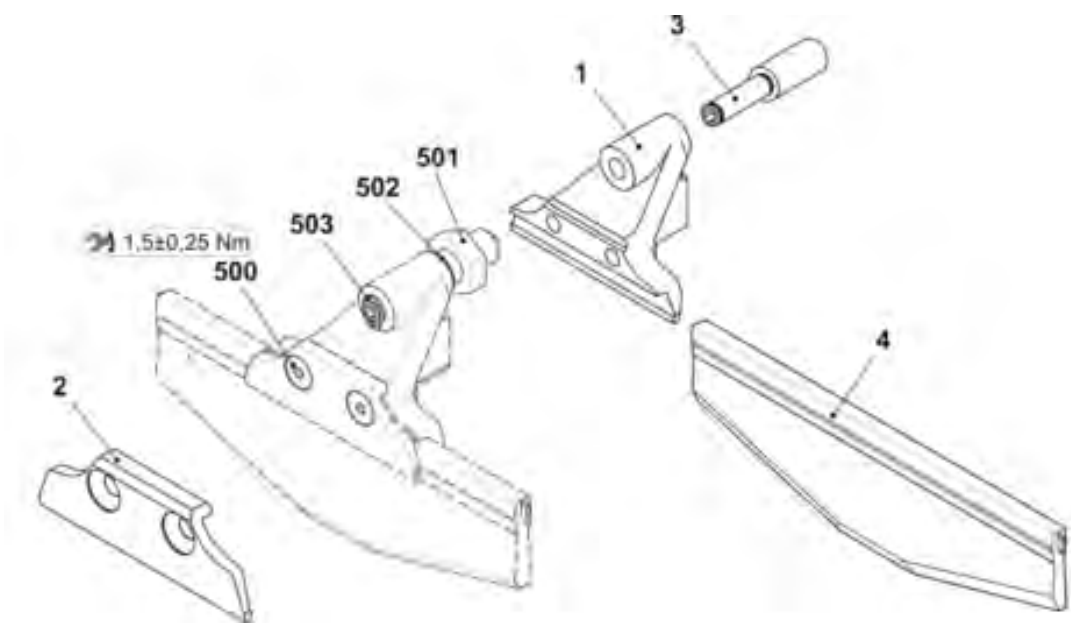
5.15 Carriage guide

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



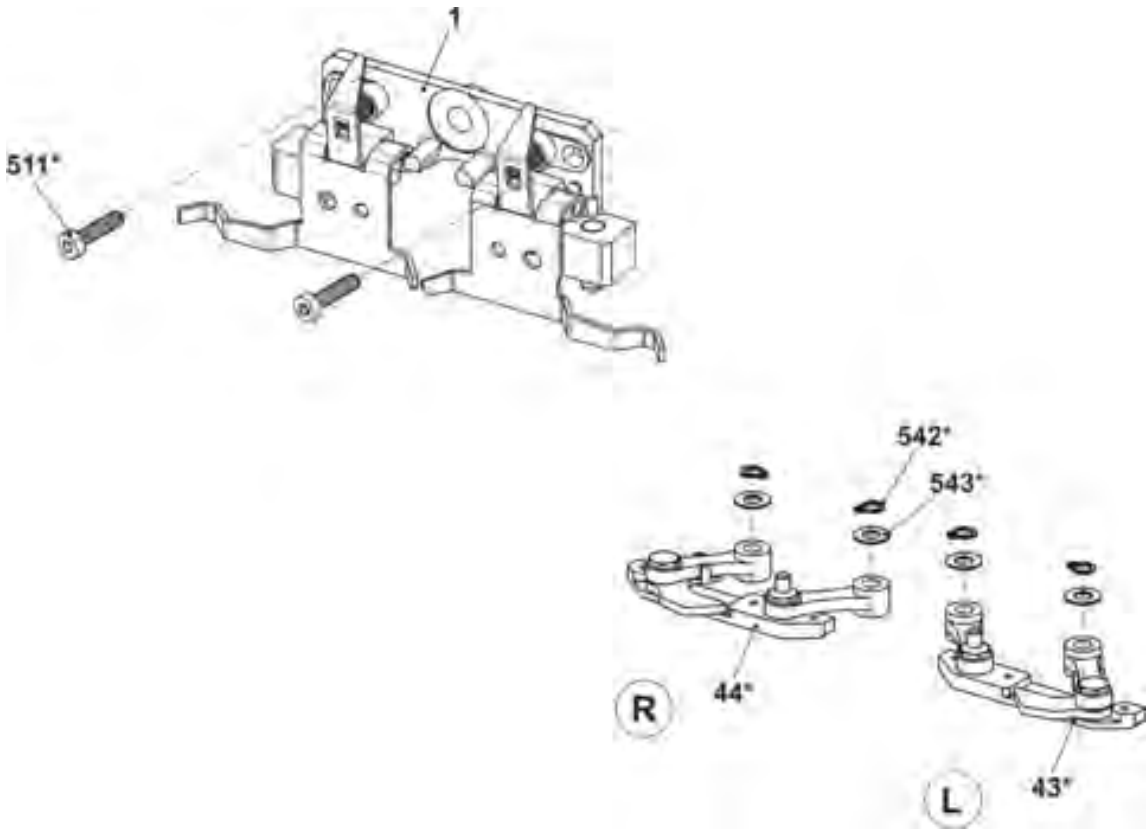
5.16 Brush holder

Pos	Designation	Id	Pos	Designation	Id
Σ	Brush holder complete		4	Brush	
	E5 E7 E7m.5 E3,5.2	213 710		E5 E7 E7m.5 E3,5.2	203 254
	E12 E14 E6.2 E7.2 E12m.10 E14/12	213 711		E12 E14 E6.2 E7.2 E12m.10 E14/12	212 854
	E16 E18 E8.2	223 185		E16 E18 E8.2	224 822
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
			503	Locking ring5x0,6	023 347



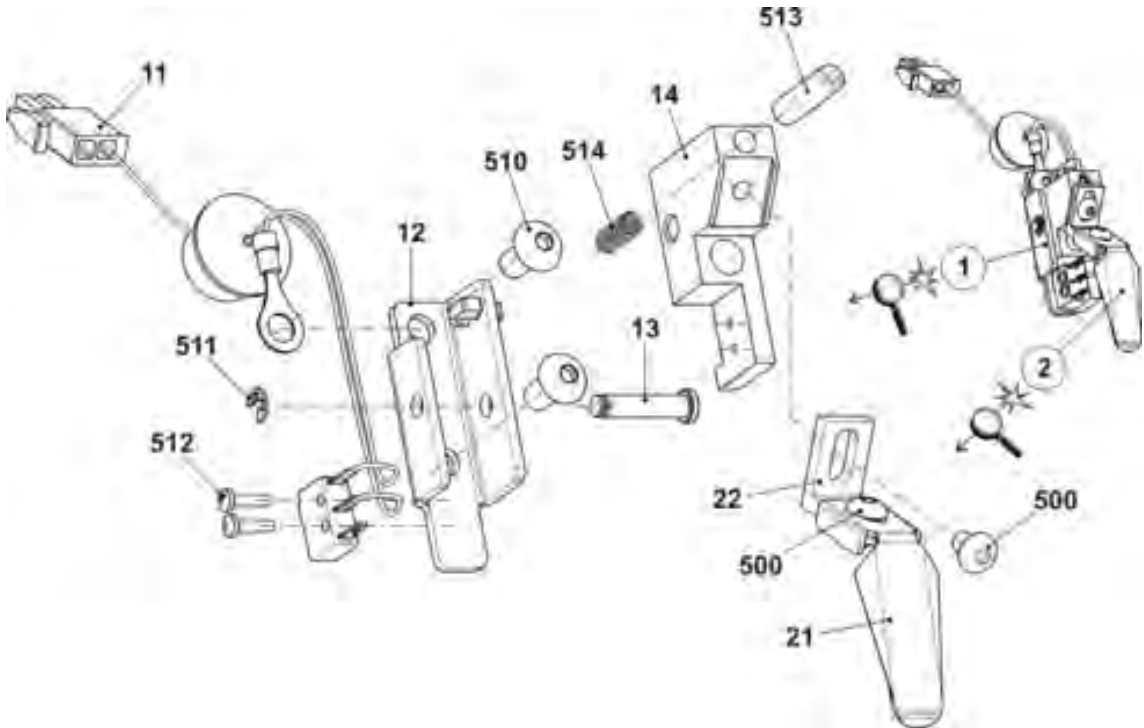
5.17 Holding-down jack control and slider

Pos	Designation	Id		Pos	Designation	Id
1	Holding-down jack control	213 266		Σ	Slider complete	
511*	Cap screwM5x16	023 141		43*	Slider on the left complete	
		E5-8, E7m.5 E3,5.2 E7.2			212 611	
		E12-14, E6.2(12m.10) E7.2(14/12) E6.2			213 056	
		E16-18, E8.2			250 139	
		44*		Slider on the right complete		
				E5-8, E7m.5 E3,5.2 E7.2	212 610	
				E12-14, E6.2(12m.10) E7.2(14/12) E6.2	213 055	
				E16-18, E8.2	250 140	
		542*		Locking ring5x0,6		023 347
		543*		Shim ring 5x10x0,5		023 348

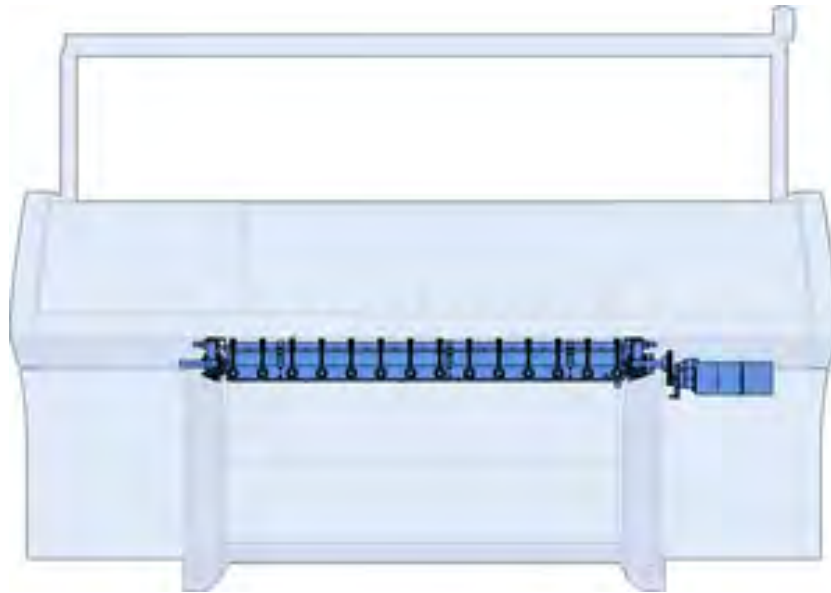


5.18 Needle detector

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	SetscrewM5x20		023 526
	11	Cable of needle detector complete	221 207		514	Compression spring4,3x0,45x10		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 M4x6		023 427



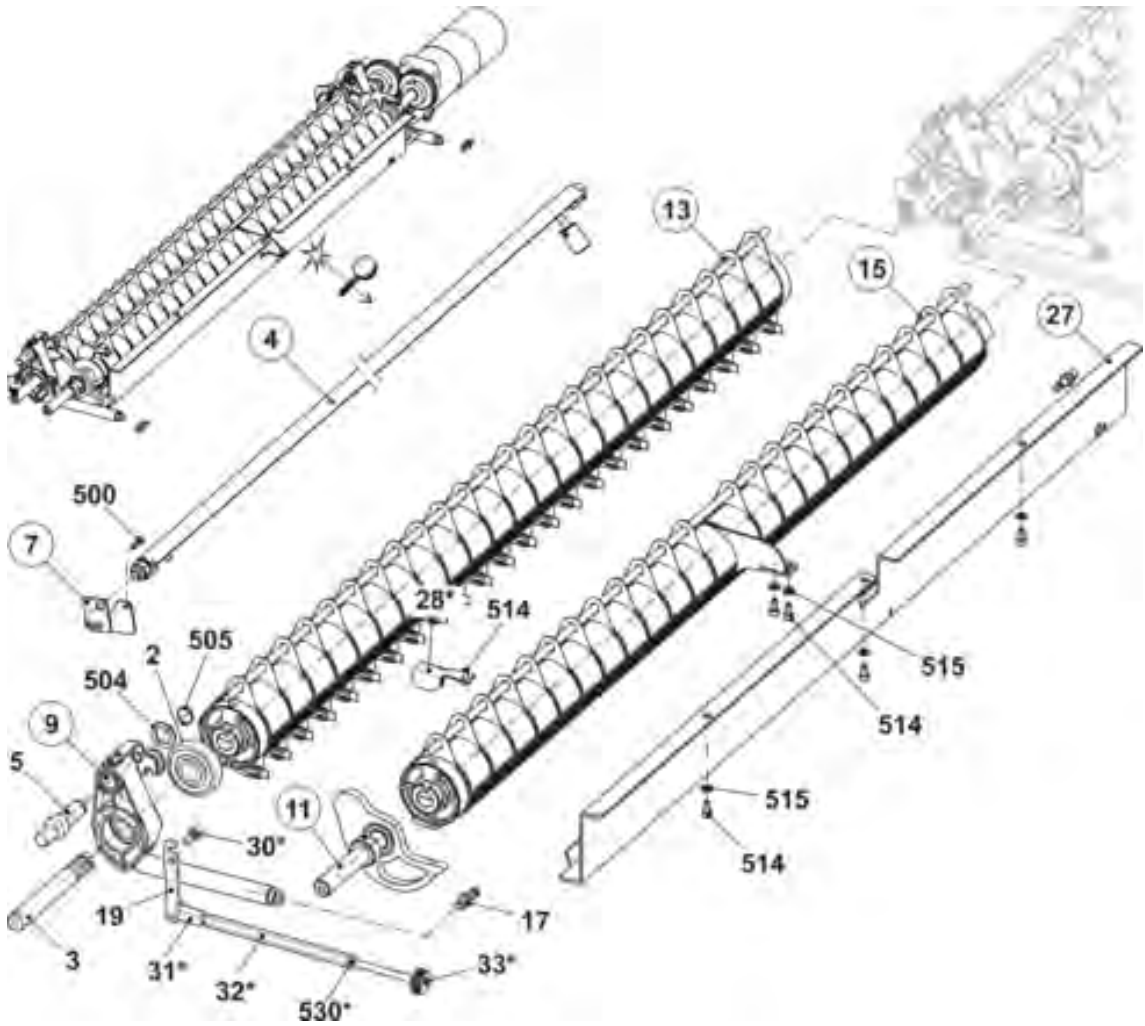
6 Main take-down



6.1 Take-down rollers and left bearing

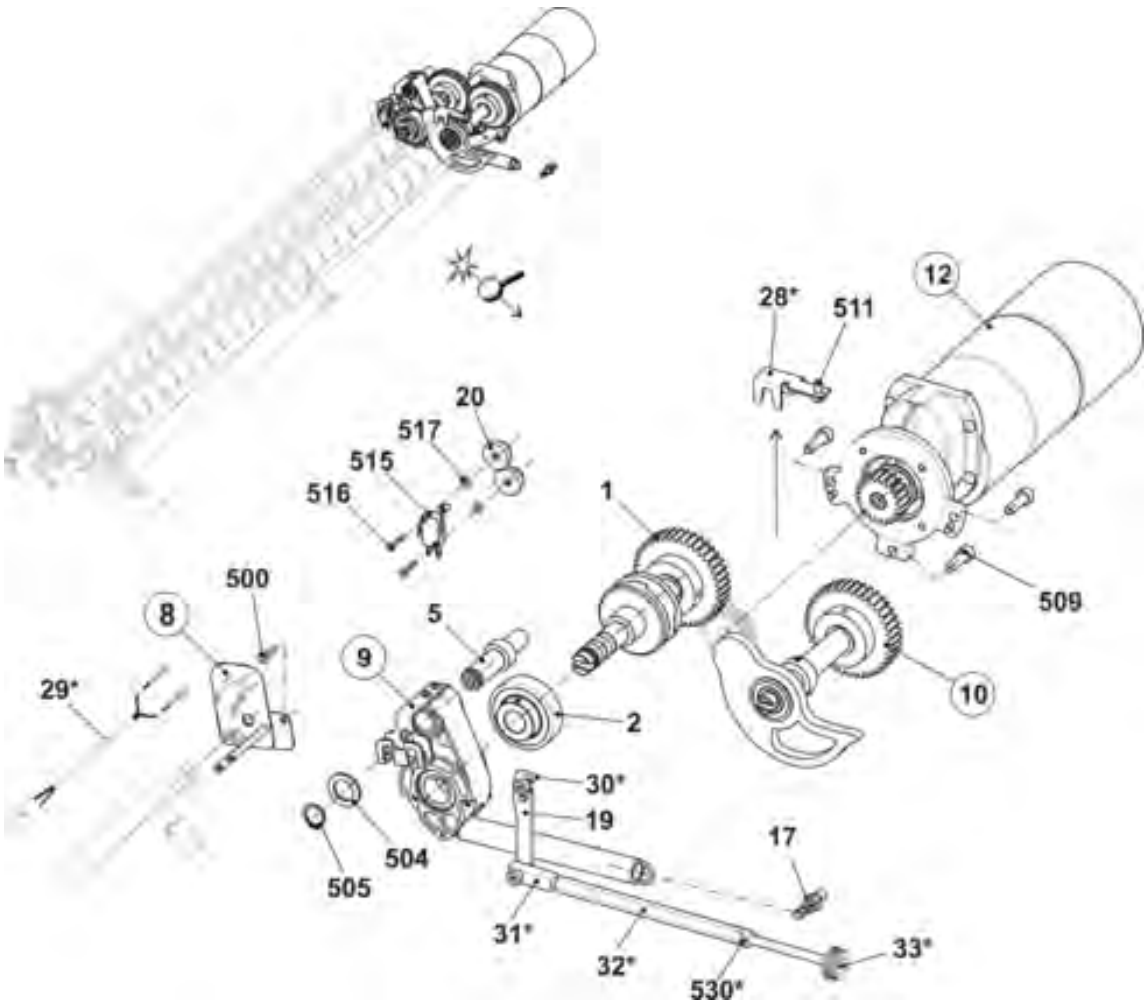
6.1 Take-down rollers and left bearing

Pos	Designation	Id		Pos	Designation	Id
Σ	Main take-down complete			19	Stop point	256 078
2	Bearing race complete	244 459		27	Angle rail complete	251 550
3	Shaft on the left at the rear	221 012		500	Screw 50x15	251 728
4	Stripper angle at the rear complete	251 768		504	Washer18	023 295
5	Bolts	208 538		505	Locking ring 18x1,2	020 955
7	Mounting plate on the left complete	231 725		514	Cap screwM6x12	020 134
9	Swivel-mounted bearing	251 761		515	Washer6	022 431
11	Full floating axle on the left	251 984		28*	Sheet metal support on the left	251 766
13	Take-down roller at the rear complete E5-14	251 683		30*	Shoulder screw	257 000
	Take-down roller at the rear complete E16-18	257 109		31*	Coupling piece	256 999
15	Take-down roller at the front complete	251 681		32*	Connecting rod	256 998
15	Take-down roller at the front completeE16-18	251 681		33*	Knurled srew	250 608
17	Spring bolt	221 143		530*	Hexagon nut M8-6	020 838



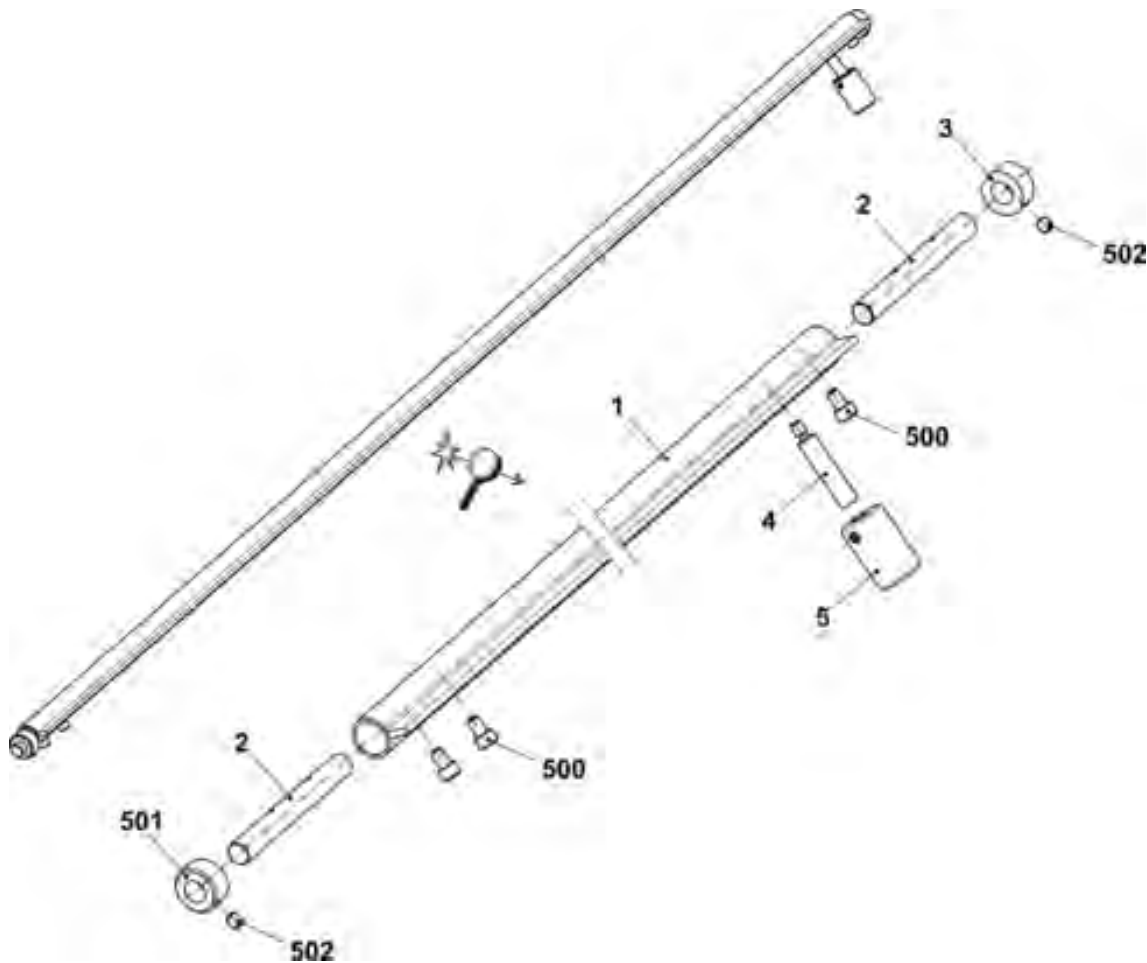
6.2 Take-down motor and right bearing

Pos	Designation	Id		Pos	Designation	Id
Σ	Main take-down complete			505	Locking ring 18x1,2	020 955
1	Clutch set	251 677		509	Cap screwM8x25-12.9	020 142
2	Bearing race complete	244 459		511	Cap screwM6x12	020 134
5	Bolts	208 538		515	Microswitch	210 510
8	Mounting plate on the right complete	240 069		516	Cap screwM3x20	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 srew	250 608
504	Washer18	023 295		530*	Hexagon nut M8-6	020 838



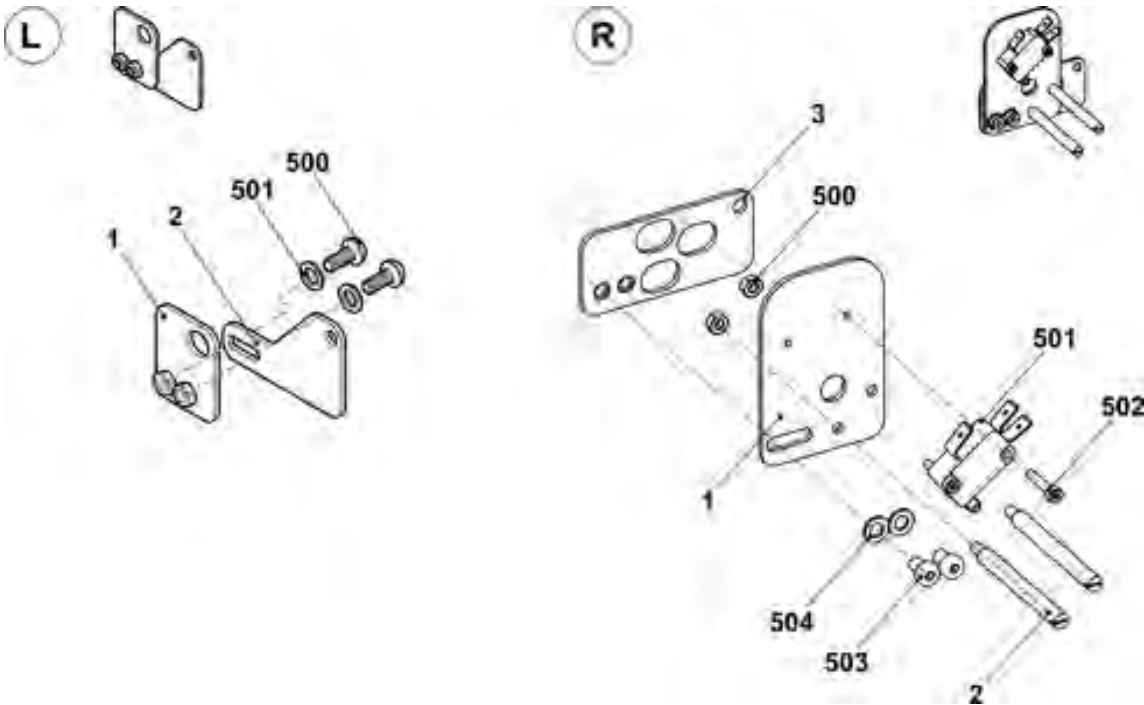
6.3 Stripper angle

Pos	Designation	Id		Pos	Designation	Id
Σ	Stripper angle at the rear complete	251 768				
1	Stripper angle	251 767		5	Adjustment weight	229 248
2	Shaft	240 127		500	Cap screw M5x8	023 319
3	Cam	209 278		501	Set collar	020 934
4	Bolts	228 310		502	Setscrew M5x6	022 738



6.4 Mounting plate

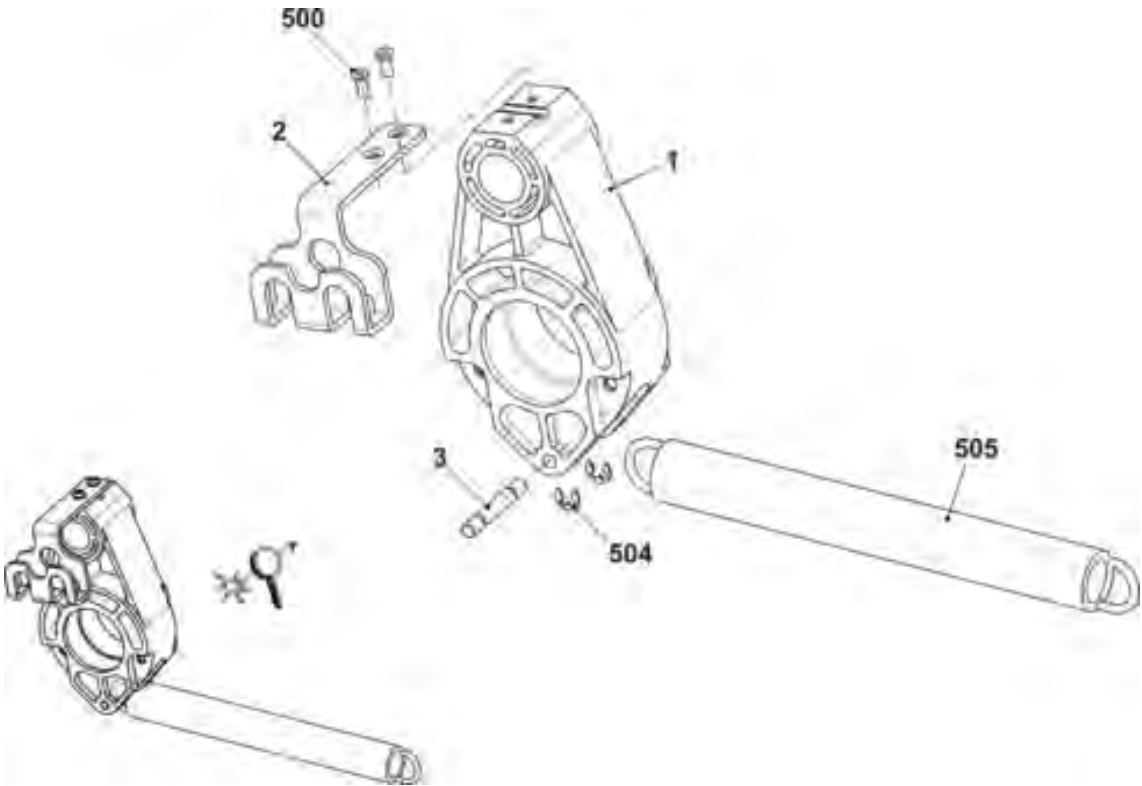
Pos	Designation	ID		Pos	Designation	ID
Σ L	Mounting plate on the left complete	231 725		Σ R	Mounting plate on the right complete	240 069
1	Mounting plate on the left	231 541		1	Mounting plate on the right	240 068
2	Retaining plate on the left	231 539		2	Shoulder screw	240 067
500	Pan-head screwM5x10	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 screwM3x16	022 583
				503	Cap screwM5x8	244 278
				504	Washer5-200	020 871



6.5 Swivel-mounted bearing

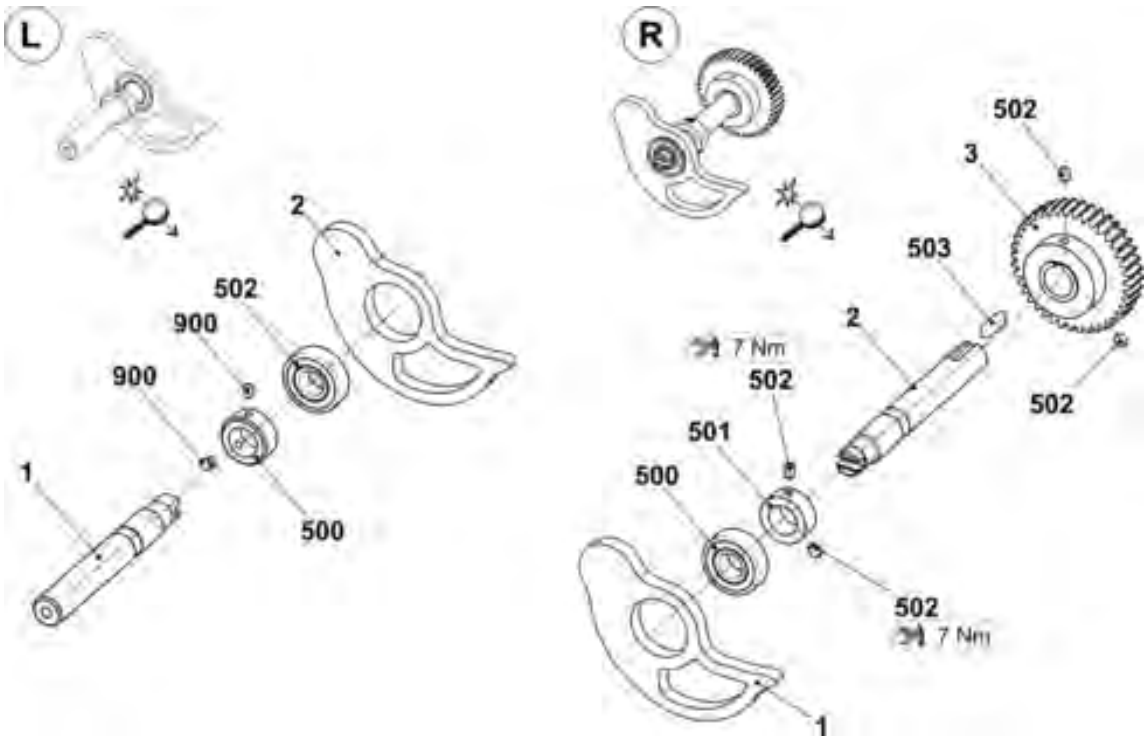
6.5 Swivel-mounted bearing

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



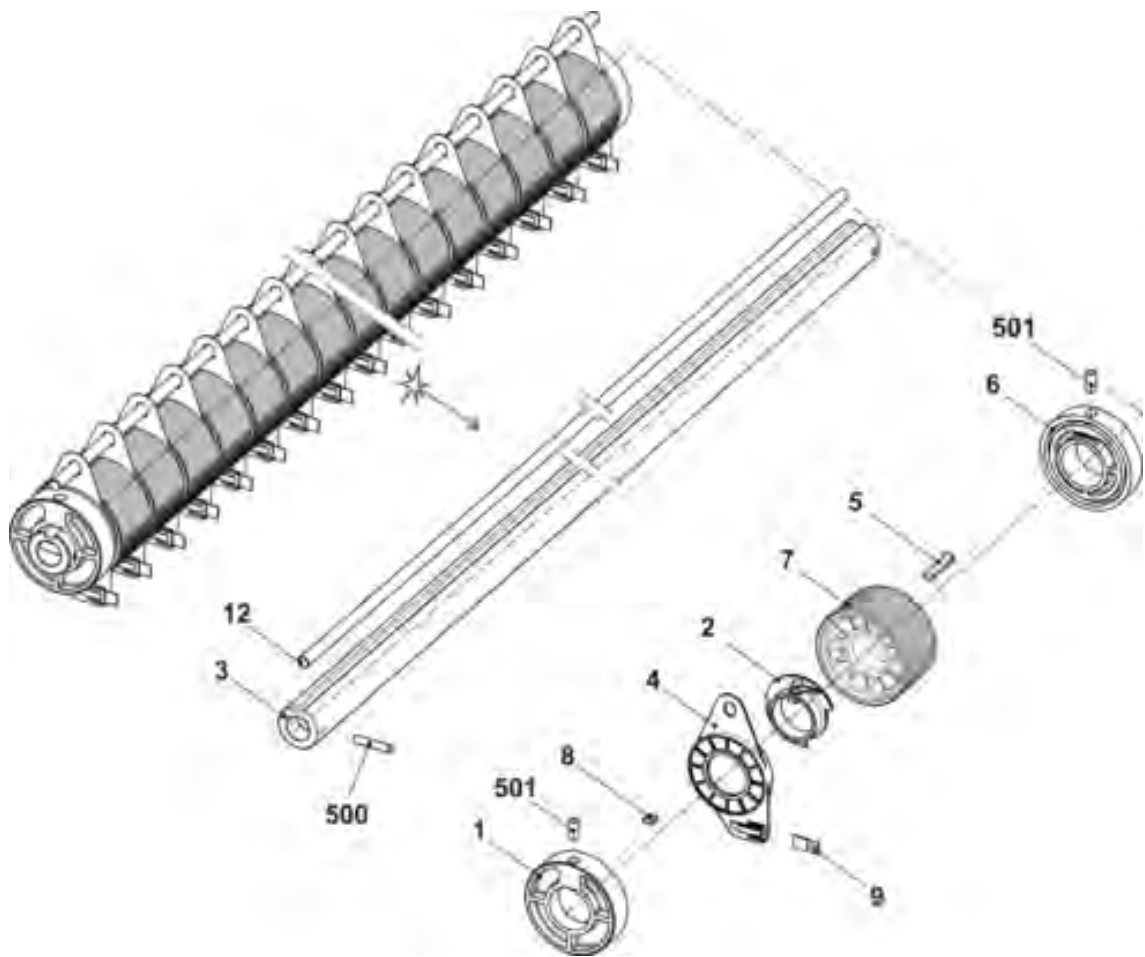
6.6 Full floating axle

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



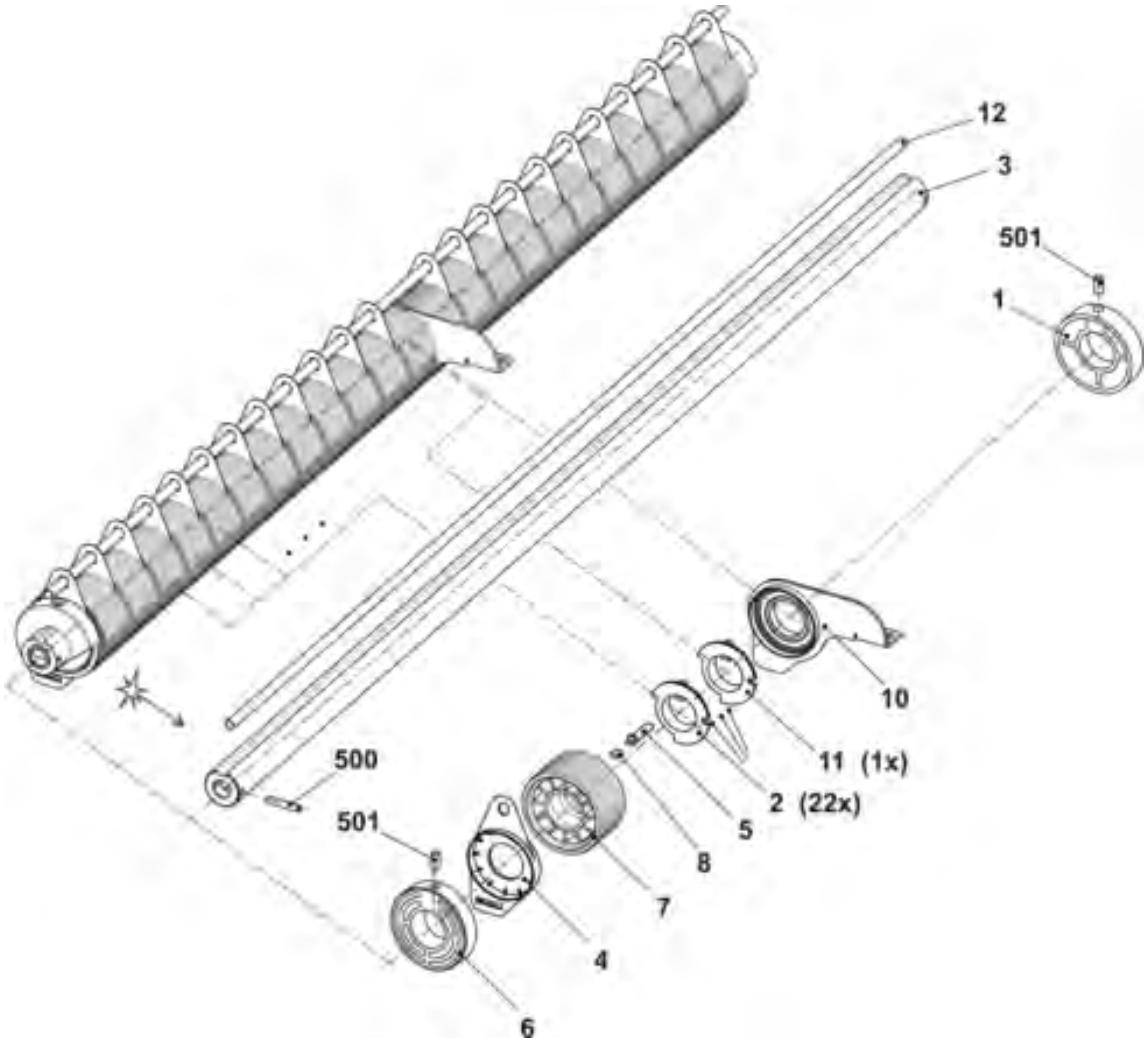
6.7 Rear take-down roller

Pos	Designation	Id		Pos	Designation	Id
Σ	Take-down roller at the rear complete E5-14	251 683				
	Take-down roller at the rear complete E16-18	257 109		7	Roller (E5-14)	206 770
1	Ring on the left	255 830		7	Roller (E16-18)	231 400
2	Stop ring on the left	204 369		8	Spacer slide	222 062
3	Shaft	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



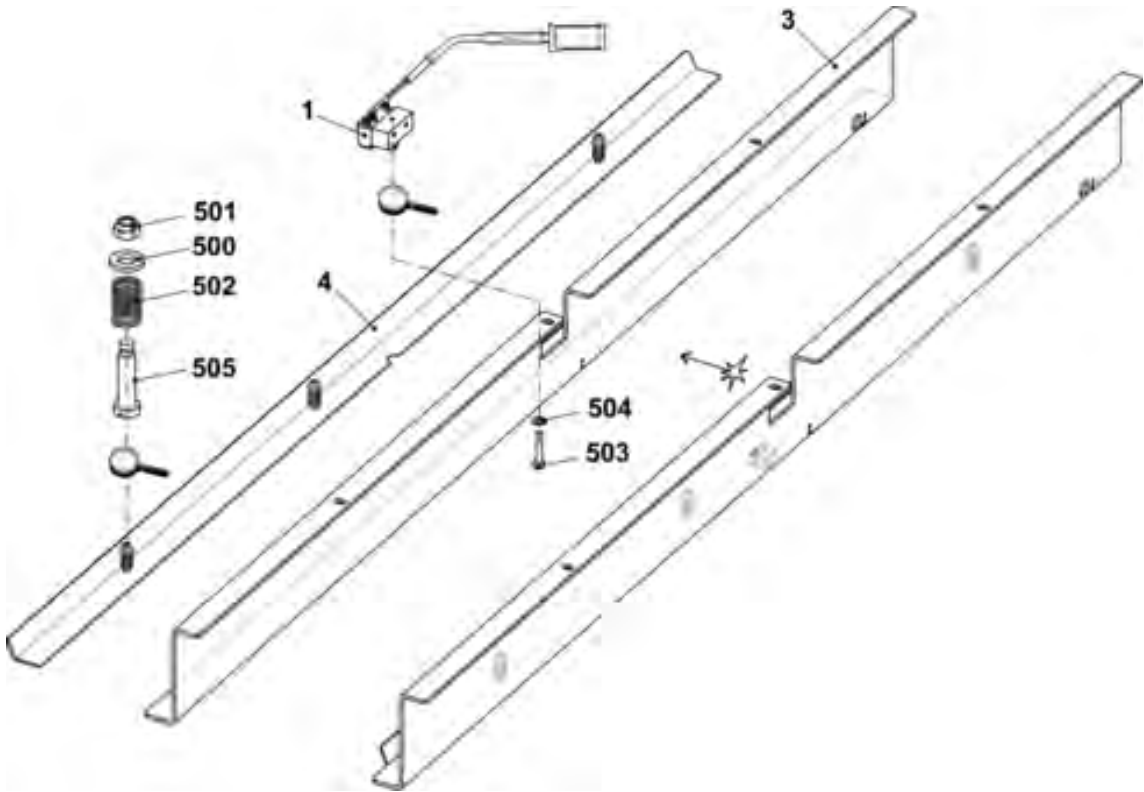
6.8 Front take-down roller

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

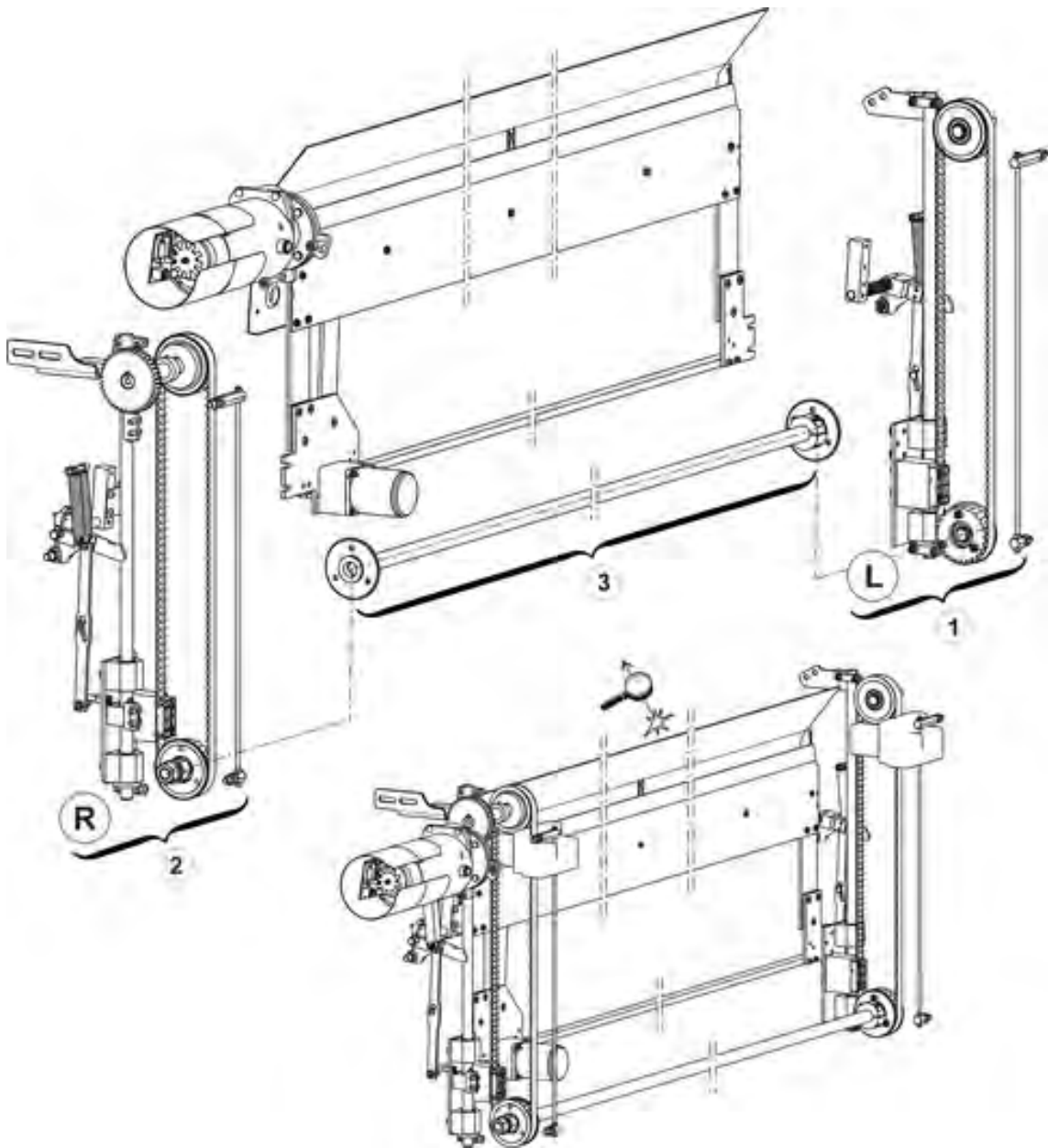


7 Comb take-down



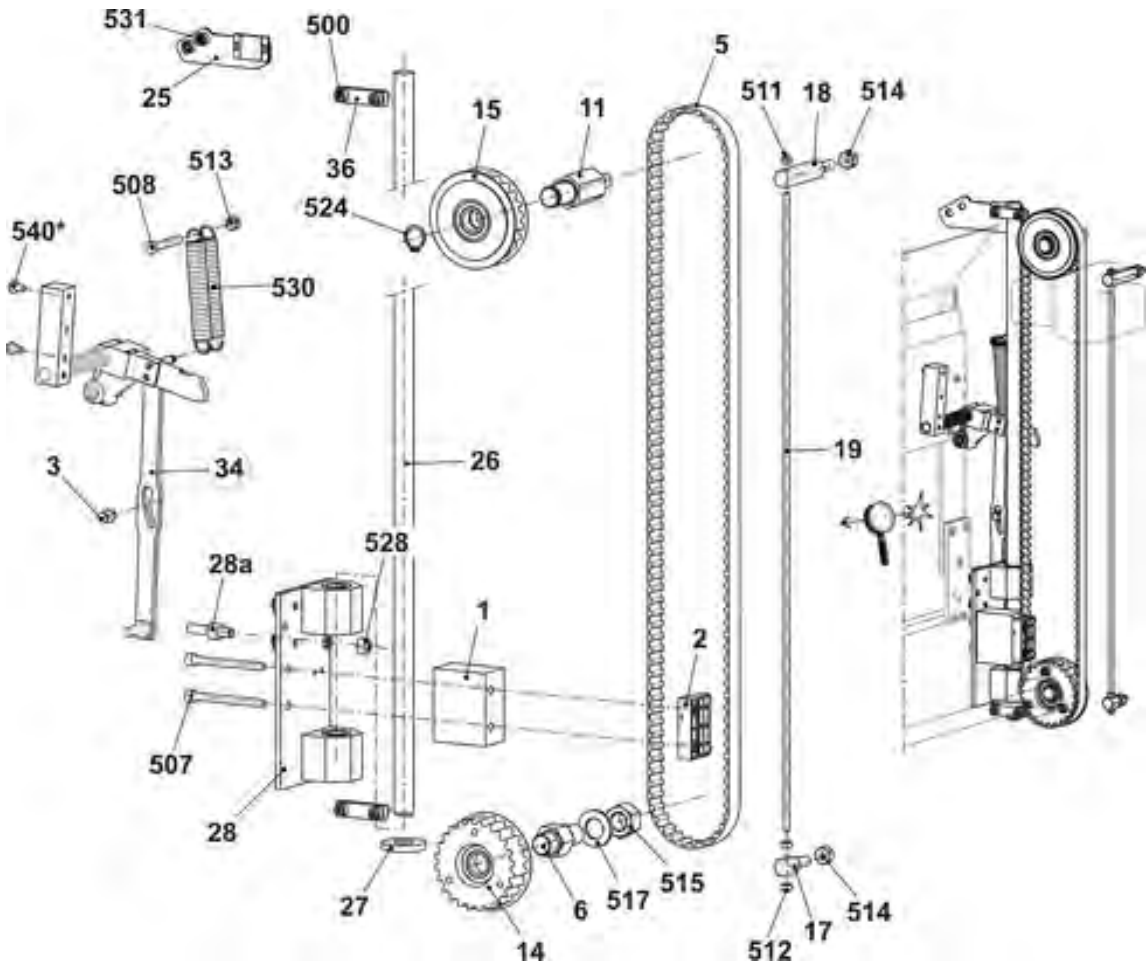
7.1 Comb take-down

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	253 951
2	Comb take-down on the right	256 837			E7 E3,5.2 E7m.5	253 839
					E12 E6.2 E6.2(12m.10)	253 789
					E14 E7.2 E7.2(14/12)	253 840
					E16 E8.2	257 020
					E18	257 021



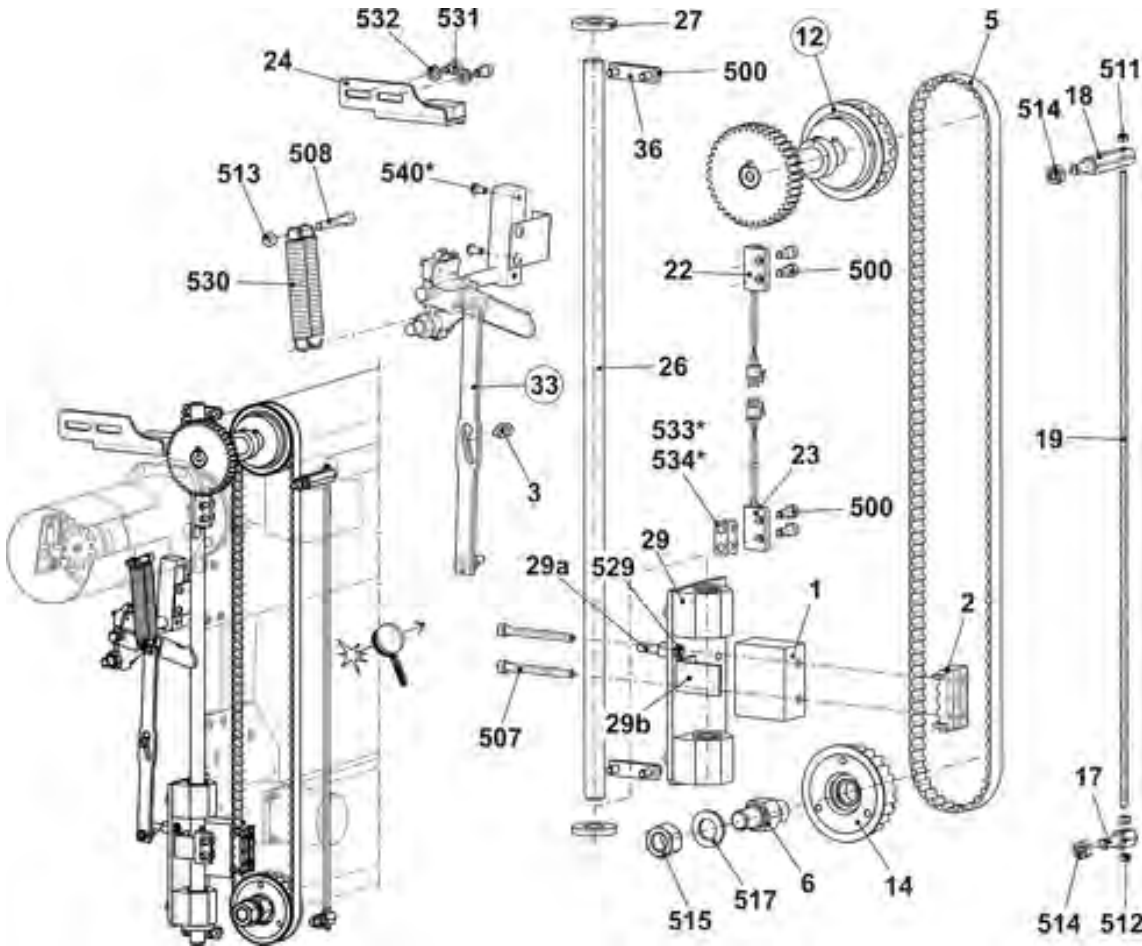
7.2 Comb take-down on the left

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



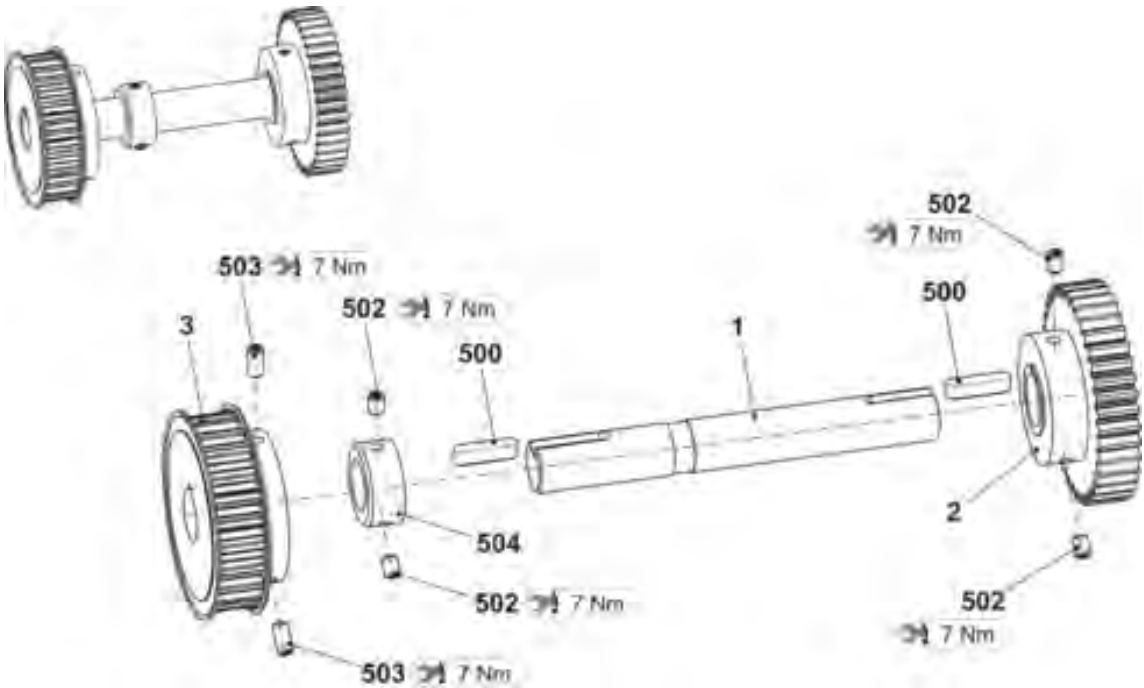
7.3 Comb take-down on the right

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

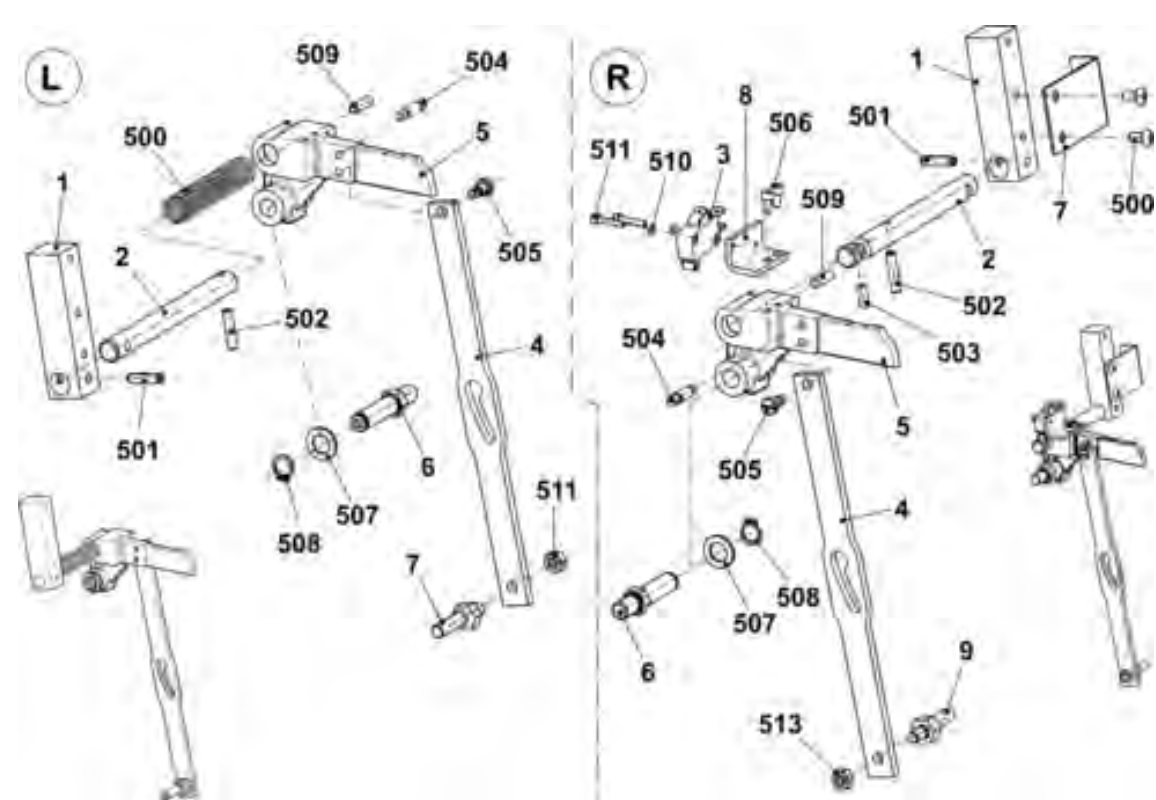
Pos	Designation	Id		Pos	Designation	Id
Σ	Drive shaft comb complete	214 583				
1	Shaft	213 969		500	Feather key A 6x6x25	023 017
2	Gear wheel Z=40, M=2	213 744		502	Setscrew M6x8	022 684
	Always order position 502 additionally			503	Setscrew M6x12	023 898
3	Toothed belt pulley at the top	206 394		504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



7.3 Comb take-down on the right

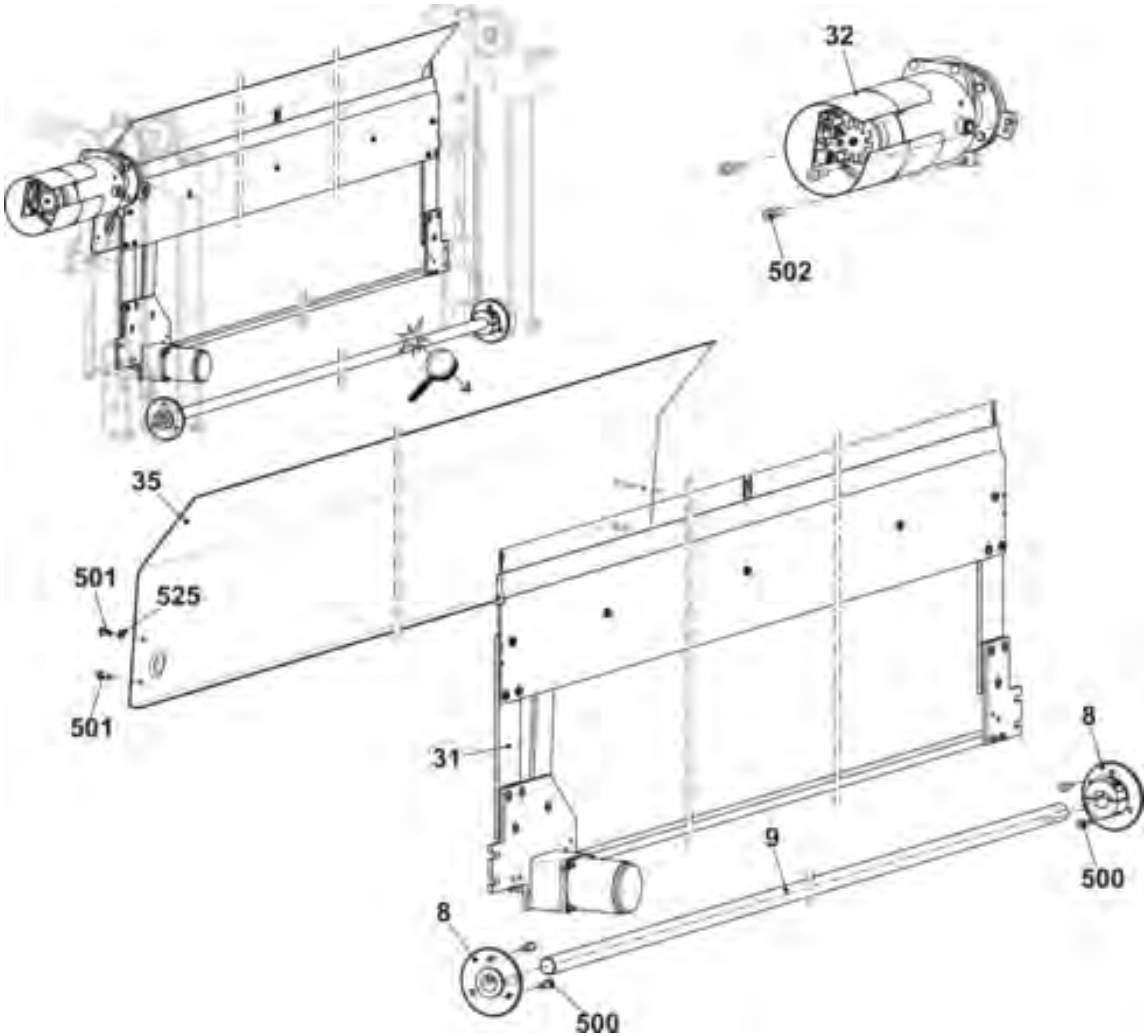
7.3.2 Swivel lever comb take-down

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

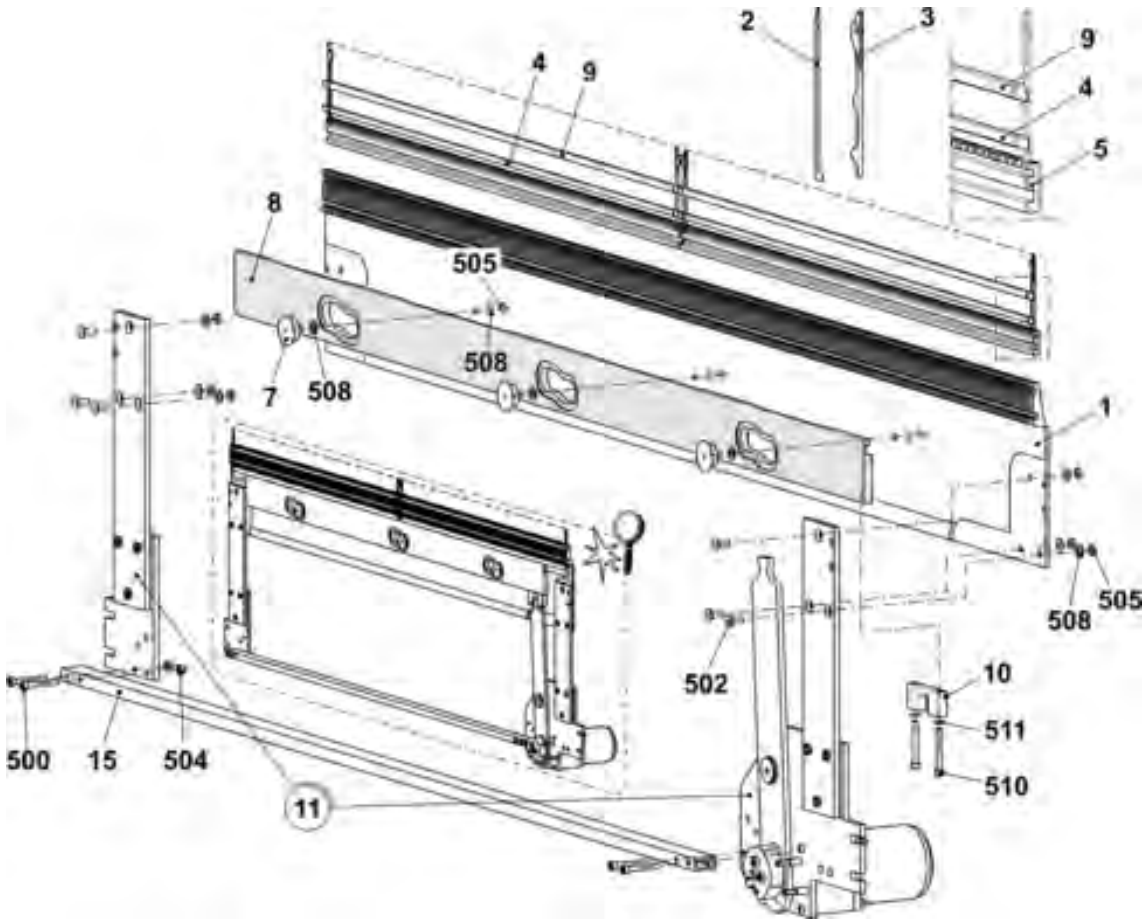
Pos	Designation	ID	Pos	Designation	ID
Σ	Comb take-down in the middle		31	Comb unit	
	E5	253 951		E5	253 948
	E7 E3,5.2 E7m.5	253 839		E7 E3,5.2 E7m.5	252 622
	E12 E6.2 E6.2(12m.10)	253 789		E12 E6.2 E6.2(12m.10)	252 065
	E14 E7.2 E7.2(14/12)	253 840		E14 E7.2 E7.2(14/12)	252 567
	E16 E8.2	257 020		E16 E8.2	257 017
	E18	257 021		E18	257 019
8	Flange	207 695	32	Motor take-down unit complete	253 803
9	Shaft long	251700	35	Guide plate	251 703
500	Cap screwM6x16	020 135	502	Cap screwM8x25	020 142
501	Pan-head screwM5x10	023 247	525	Serrated lock washer J5,3	022 489



7.4 Comb take-down in the middle

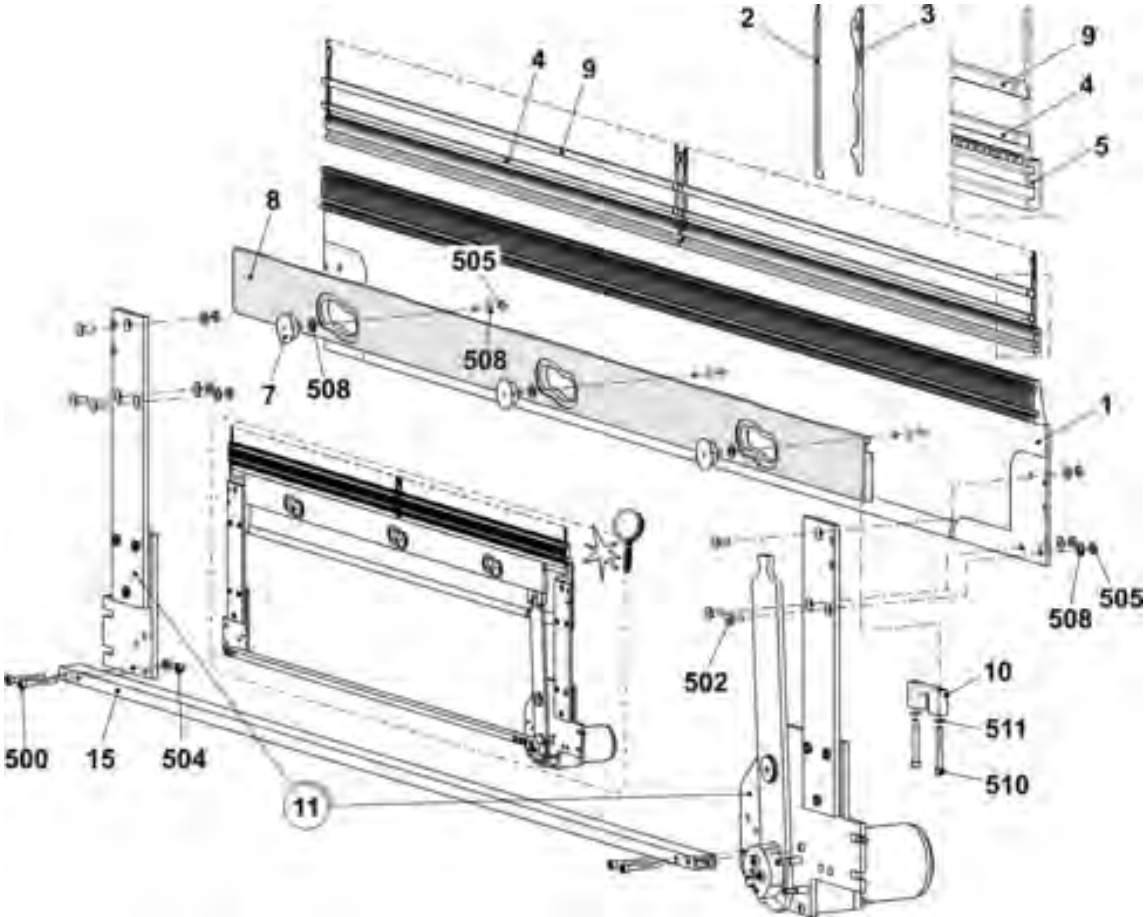
7.4.1 Comb unit E5 | E7 | E12 | E3,5.2 | E7m.5 | E6.2E6.2(12m.10)

Pos	Designation	Id		Pos	Designation	Id
Σ	Comb unit			5	Hook slider	
	E5	253 948			E5	251 710
	E7 E3,5.2 E7m.5	252 622			E7 E3,5.2 E7m.5	251 708
	E12 E6.2 E6.2(12m.10)	252 065			E12 E6.2 E6.2(12m.10)	251 709
1	Hook bed			7	Collar bolt complete	211 036
	E5	251 704		8	Cross slider	251 701
	E7 E3,5.2 E7m.5	251 705		9	Cover rail	251 702
	E12 E6.2 E6.2(12m.10)	251 706		10	Plunger	205 678
2	Closer			11	Switching lever complete	240 060
	E5 E7 E3,5.2 E7m.5	230 105		15	Stabilizator	251 697
	E12 E6.2 E6.2(12m.10)	230 106		502	Countersunk head screw M5x12	023 340
3	Body			504	Hexagon nut M4-8	023 046
	E5 E7 E3,5.2 E7m.5	230 093		505	Hexagon nut M5-04	020 854
	E12 E6.2 E6.2(12m.10)	230 094		508	Washer5	020 871
4	Cover rail	251 696		510	Cap screw M4x35	023 550
500	Cap screw M4x30	023 290		511	Circlip	022 774



7.4.2 Comb unit E14 | E16 | E18 | E7.2 | E7.2(14/12) | E8.2

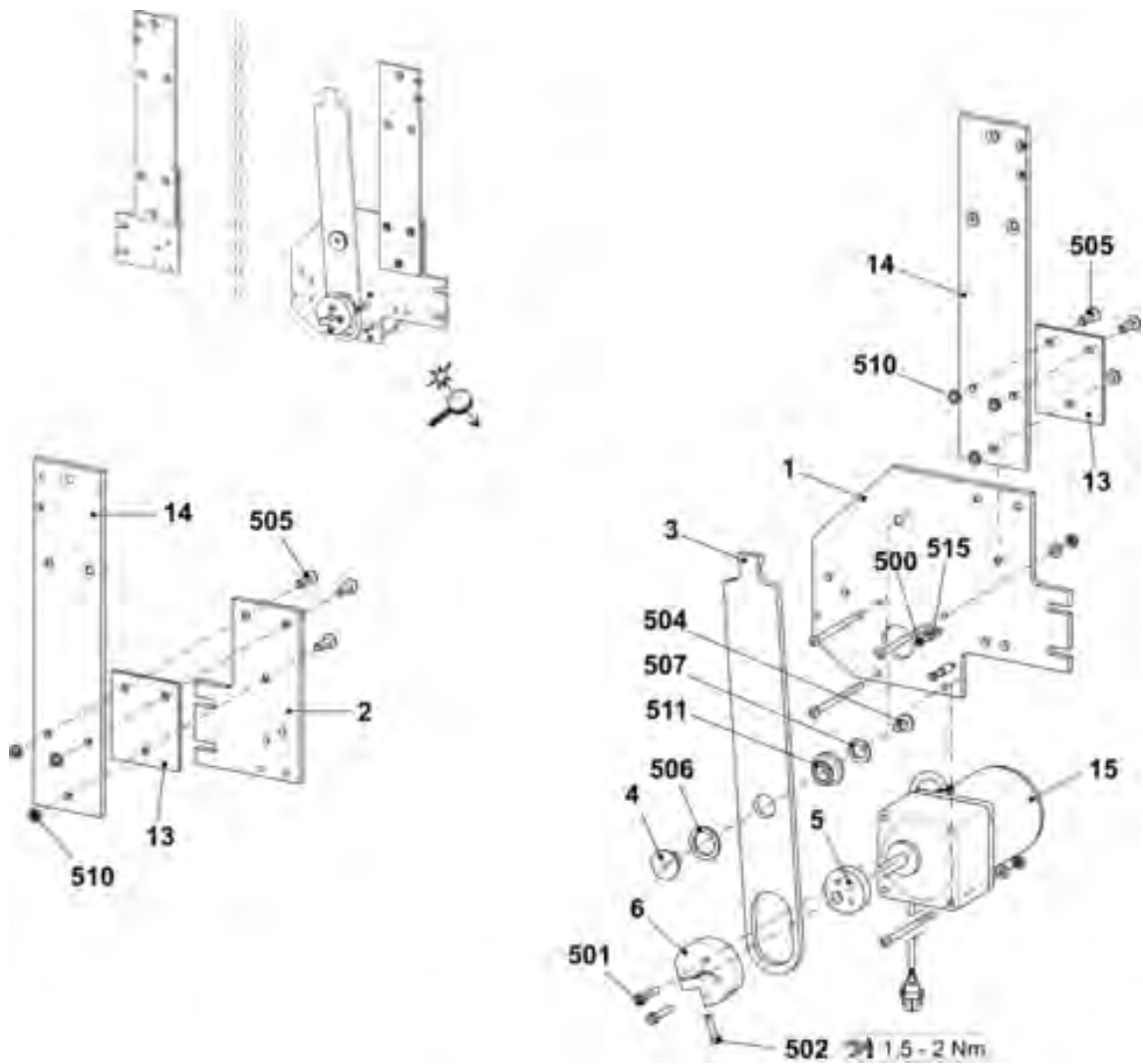
Pos	Designation	Id		Pos	Designation	Id
Σ	Comb unit			5	Hook slider	
	E14 E7.2 E7.2(14/12)	252 567			E14 E7.2 E7.2(14/12)	251 708
	E16 E8.2	257 017			E16 E8.2	251 709
	E18	257 019			E18	257 016
1	Hook bed			7	Collar bolt complete	211 036
	E14 E7.2 E7.2(14/12)	251 707		8	Cross slider	251 701
	E16 E8.2	257 014		9	Cover rail	251 702
	E18	257 015		10	Plunger	205 678
2	Closer			11	Switching lever complete	240 060
	E14 E7.2 E7.2(14/12)	230 106		15	Stabilizator	251 697
	E16 E18 E8.2	230 107		502	Countersunk head screw M5x12	023 340
3	Body			504	Hexagon nut M4-8	023 046
	E14 E7.2 E7.2(14/12)	230 094		505	Hexagon nut M5-04	020 854
	E16 E18 E8.2	230 095		508	Washer5	020 871
4	Cover rail	251 696		510	Cap screw M4x35	023 550
500	Cap screw M4x30	023 290		511	Circlip	022 774



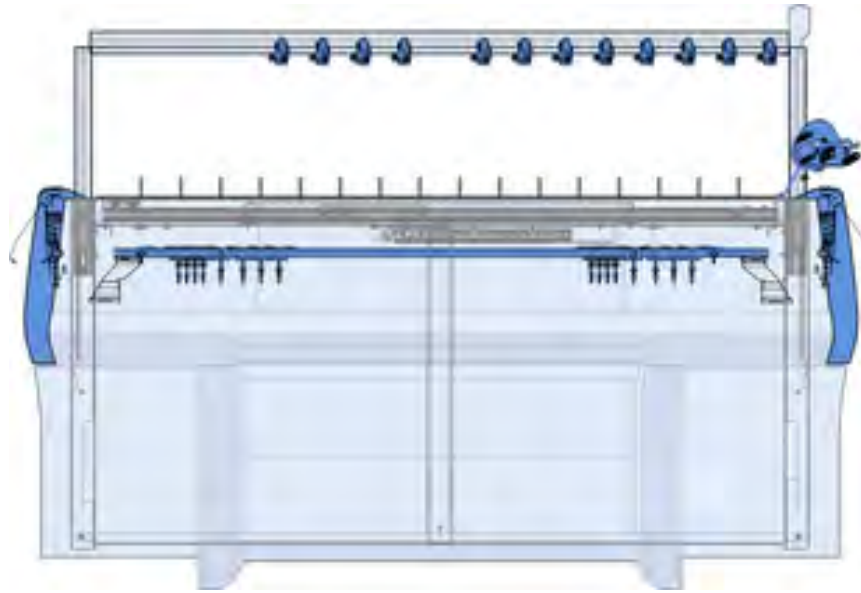
7.4 Comb take-down in the middle

7.4.3 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



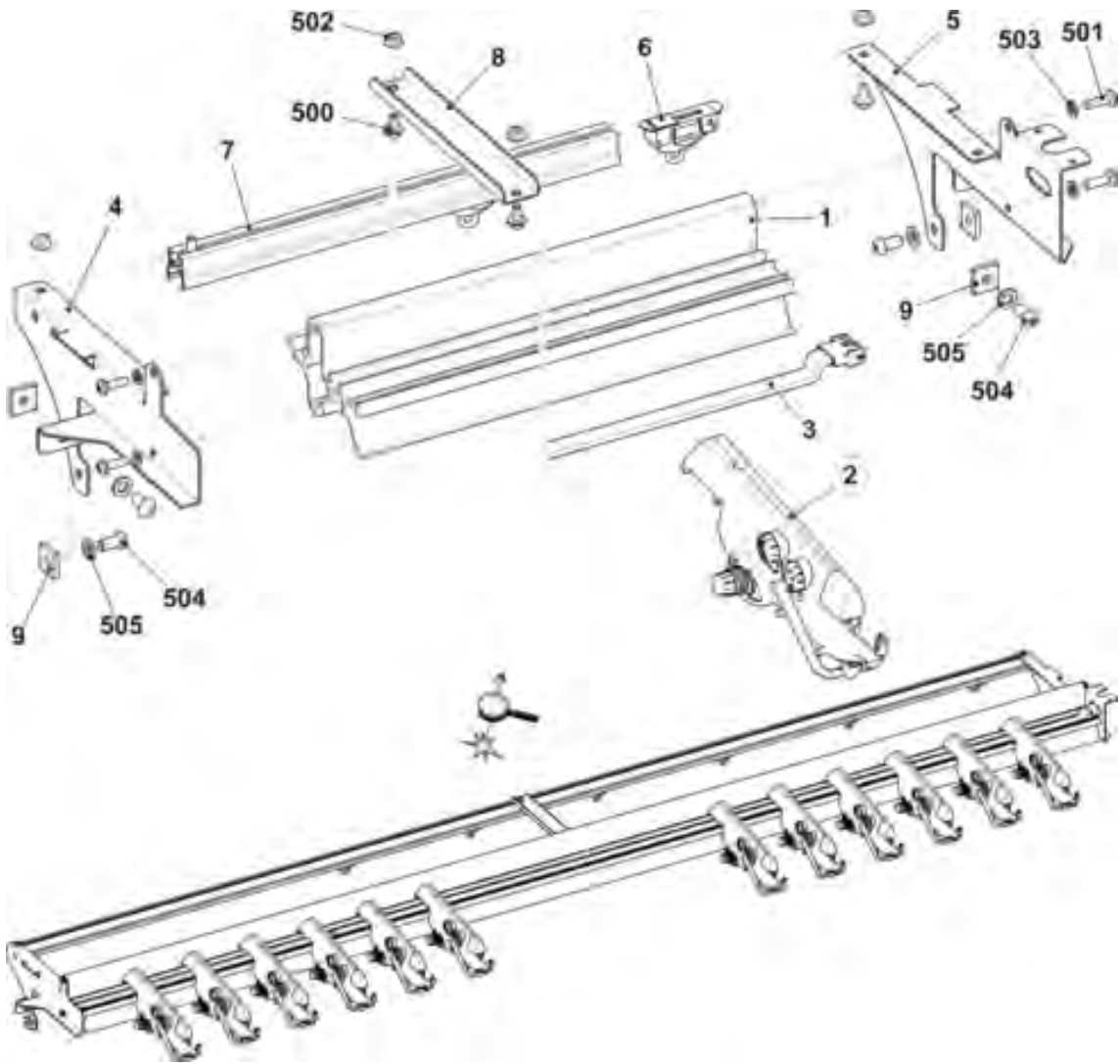
8 Yarn delivery device



8.1 Yarn guide system with 12 FKE

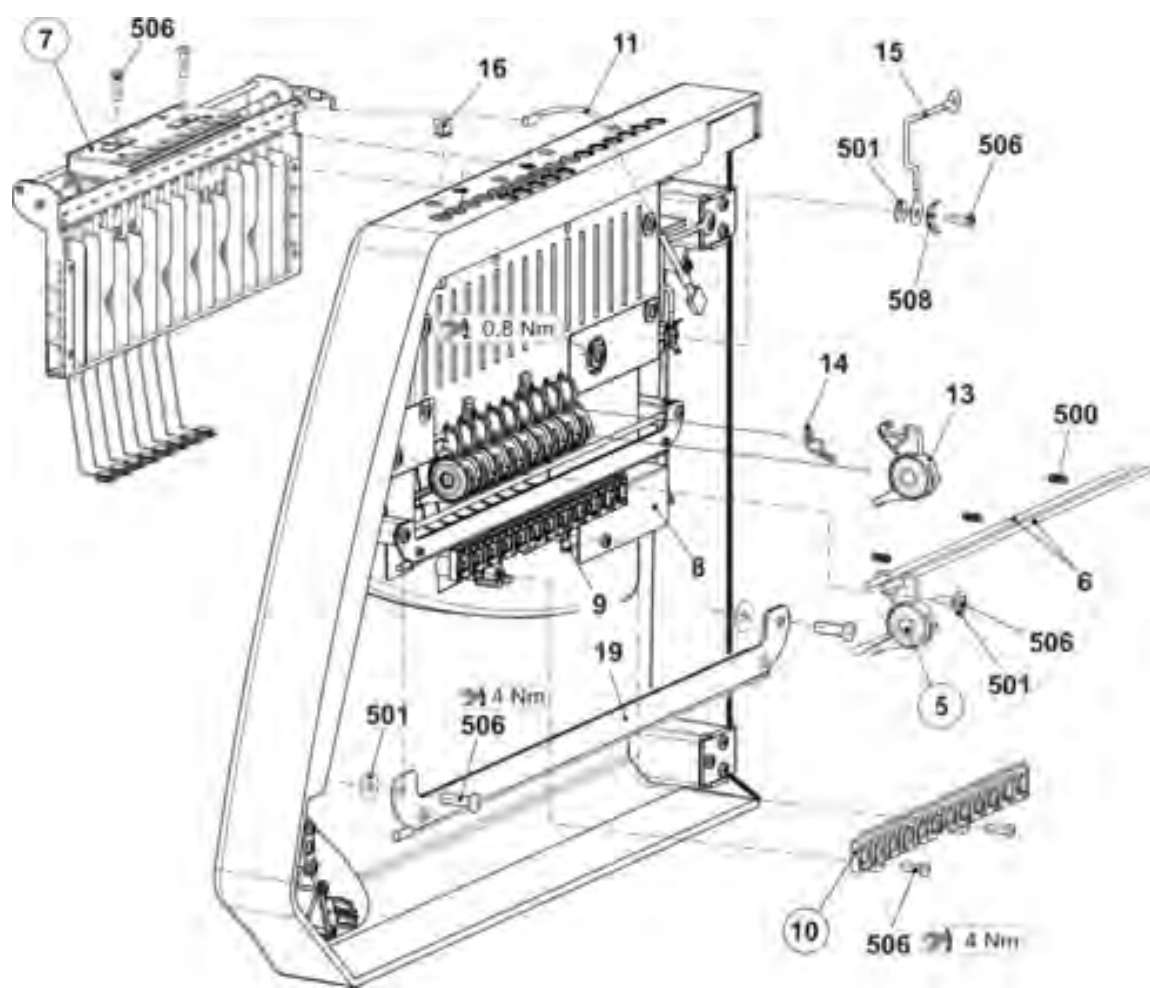
8.1 Yarn guide system with 12 FKE

Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn guide system 12 FKE	256 929		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

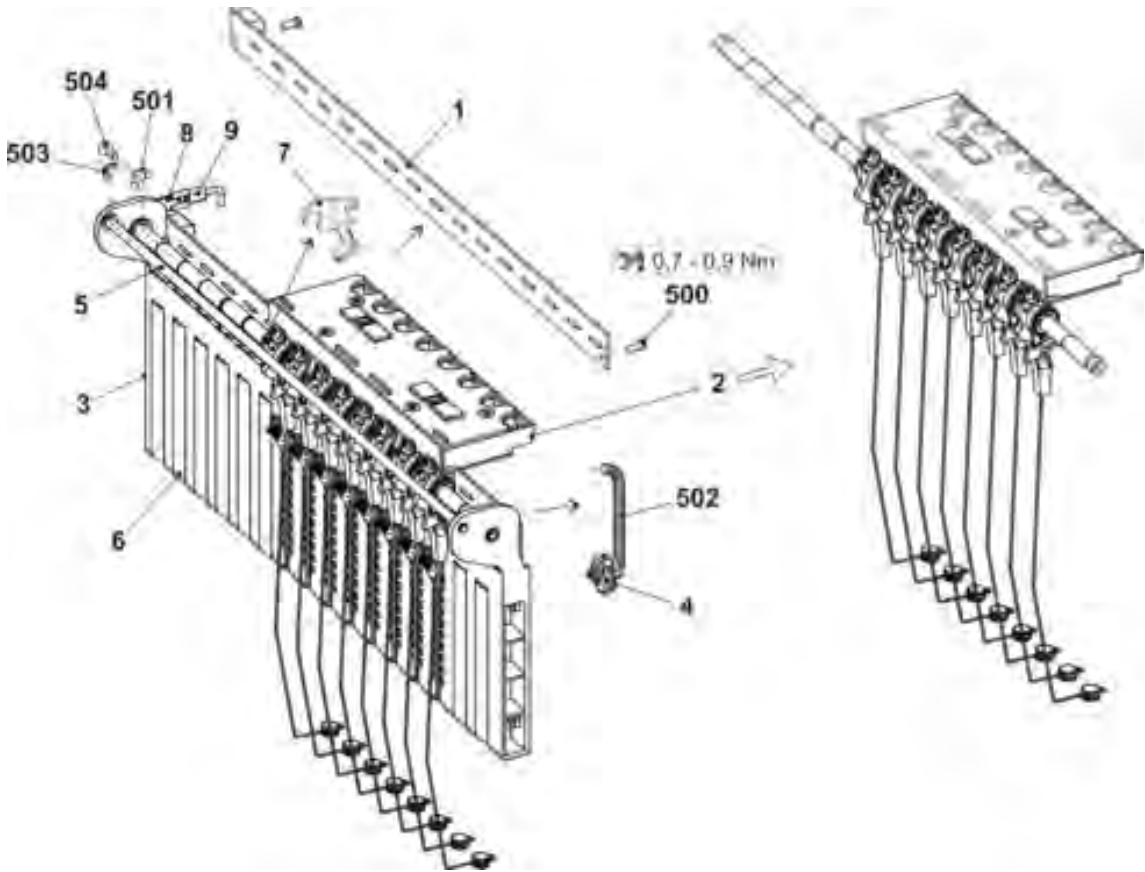
Pos	Designation	Id	Pos	Designation	Id
Σ	Safety door on the left complete				
	E5 E3,5.2 E7m.5	256 904	10	Yarn deflector on the left	256 902
	E7 E6.2	256 905	11	Connection cable yarn tensionerokc	240 808
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	256 906	13	Yarn brake not adjustable	244 356
5	Yarn brake complete	244 347	14	Clamping bow	244 409
6	Shaft	241 318	15	Ground cable	244 404
7	Yarn tensioner on the left complete		19	Stop bar on the left complete	258 454
	E5 E3,5.2 E7m.5	256 897	16	Ceramic eyelet	240 640
	E7 E6.2	256 898	500	Compression spring 0,90x5,40x13,60	241 360
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	256 899	501	Washer6	022 537
8	Cover on the left	256 901	506	Screw KB 60x20	237 682
9	Wire bow on the left	241 370	508	Flat connector 2x45° M6	243 117



8.2 Left yarn guide

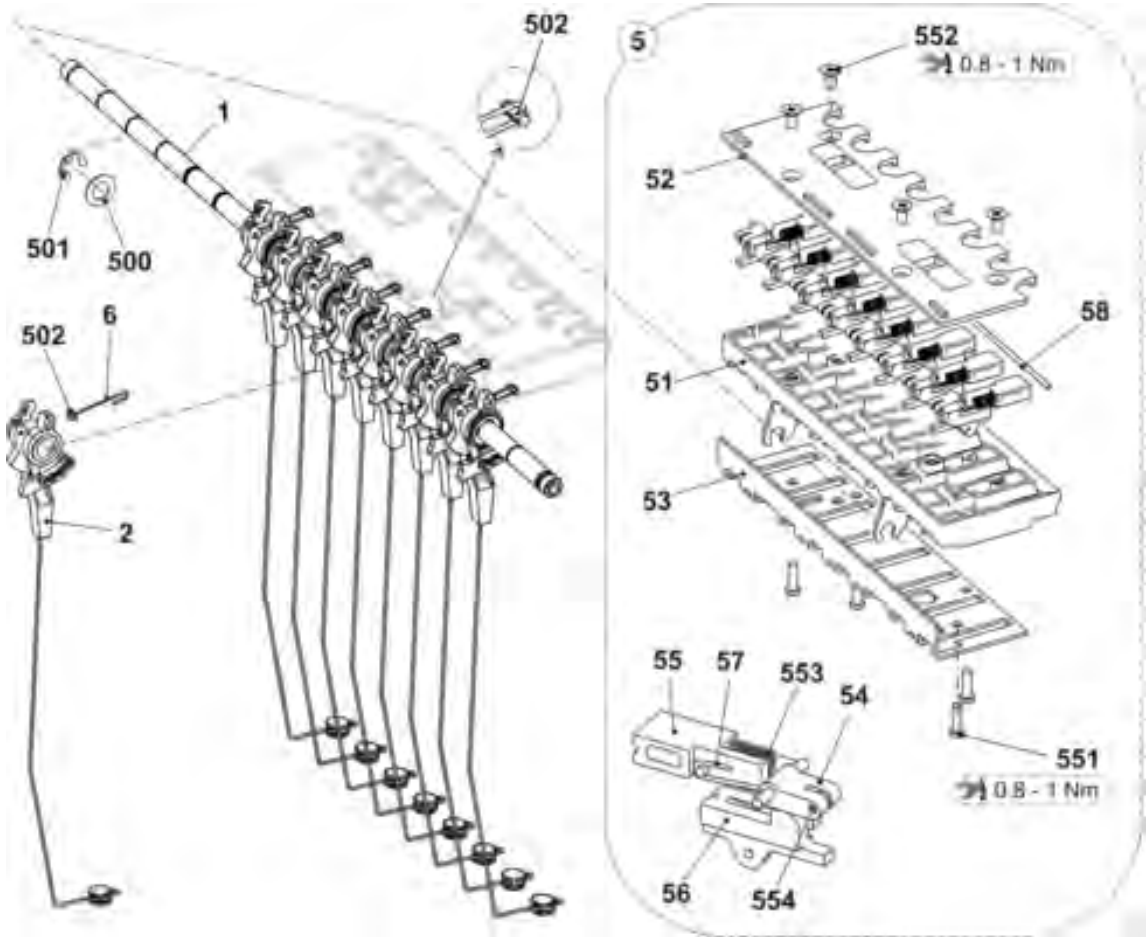
8.2.1 Left yarn tensioner

Pos	Designation	ID		Pos	Designation	ID
Σ	Yarn tensioner on the left complete					
	E5 E3,5.2 E7m.5	256 897		7	Spacer	242 048
	E7 E6.2	256 898		8	Grounding plate of tension axle	243 121
	E12 E14 E7.2 E6.2(12m.10) E7.2 (14/12) E16 E18 E8.2	256 899		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
	Tension axle on the left complete E10-18	256 893		502	Tension spring 5,05x0,55x53 E5 E3,5.2 E7m.5	023 502
3	Housing	241 367			Tension spring 4,9x0,5x53 E7 E6.2	023 503
4	Slider	241 694			Tension spring E12 E14 E7.2 E6.2(12m.10) E7.2 (14/12) E16 E18 E8.2	023 504
5	Stop point	241 368		503	Circlip	021 020
6	Border	242 268		504	Countersunk screw M4x10	241 914



8.2.1.1 Left tension axle

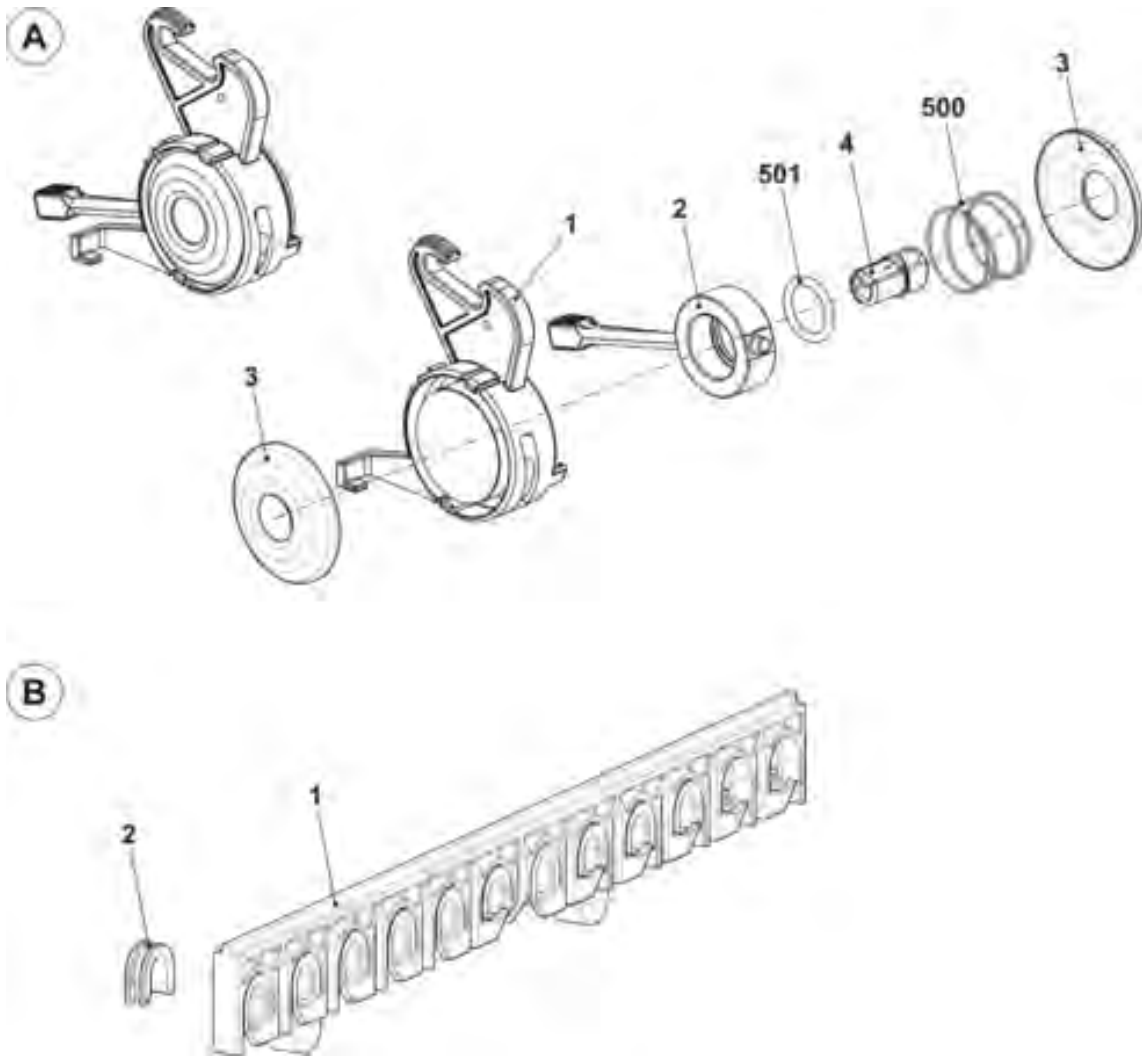
Pos	Designation	ID		Pos	Designation	ID
Σ	Tension axle on the left complete			5	Thread clamp AKF	238 695
	E5 E7 E3,5.2 E6.2 E7m.5	256 892		51	HousingAKF	238 689
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	256 893		52	Cover AKF	237 926
1	Axle	243 107		53	Sheet metal at the bottom (housing AKF)	240 719
2	Tension arm pre-assembled			54	Lever AKF	238 692
	E5 E7 E3,5.2 E6.2 E7m.5	259 448		55	Pressure piece AKF	238 690
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	258 459		56	SliderAKF	238 691
6	Wire bow	238 694		57	Wire bow	238 694
500	Shim ring 8x14x0,5	023 501		58	Wire	237 940
501	Circlip	021 022		551	Screw KB 35x12	237 681
502	Grooved pin 2x6	243 172		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

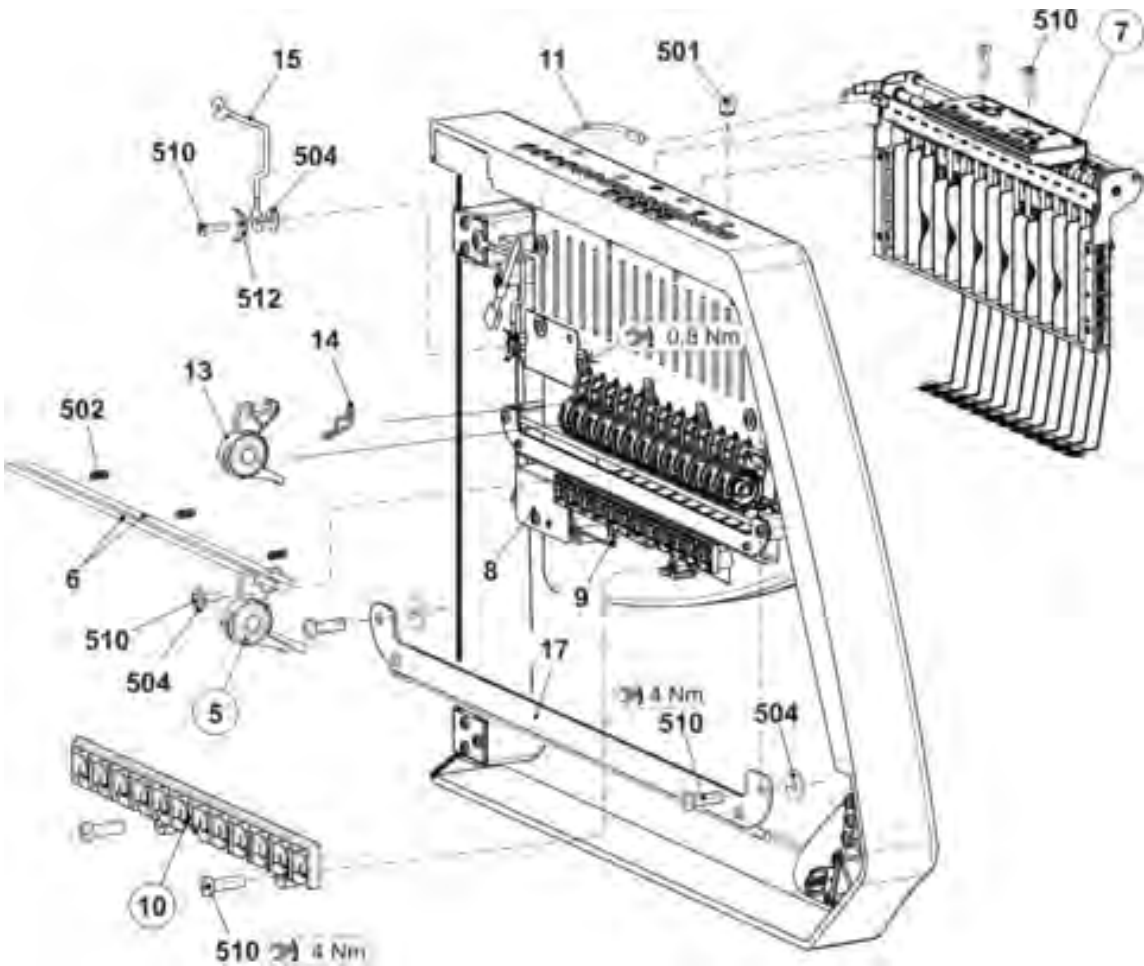
8.2.2 Yarn brake and yarn deflector on the left

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 E5 | E7 | E3,5.2 | E6.2 | E7m.5

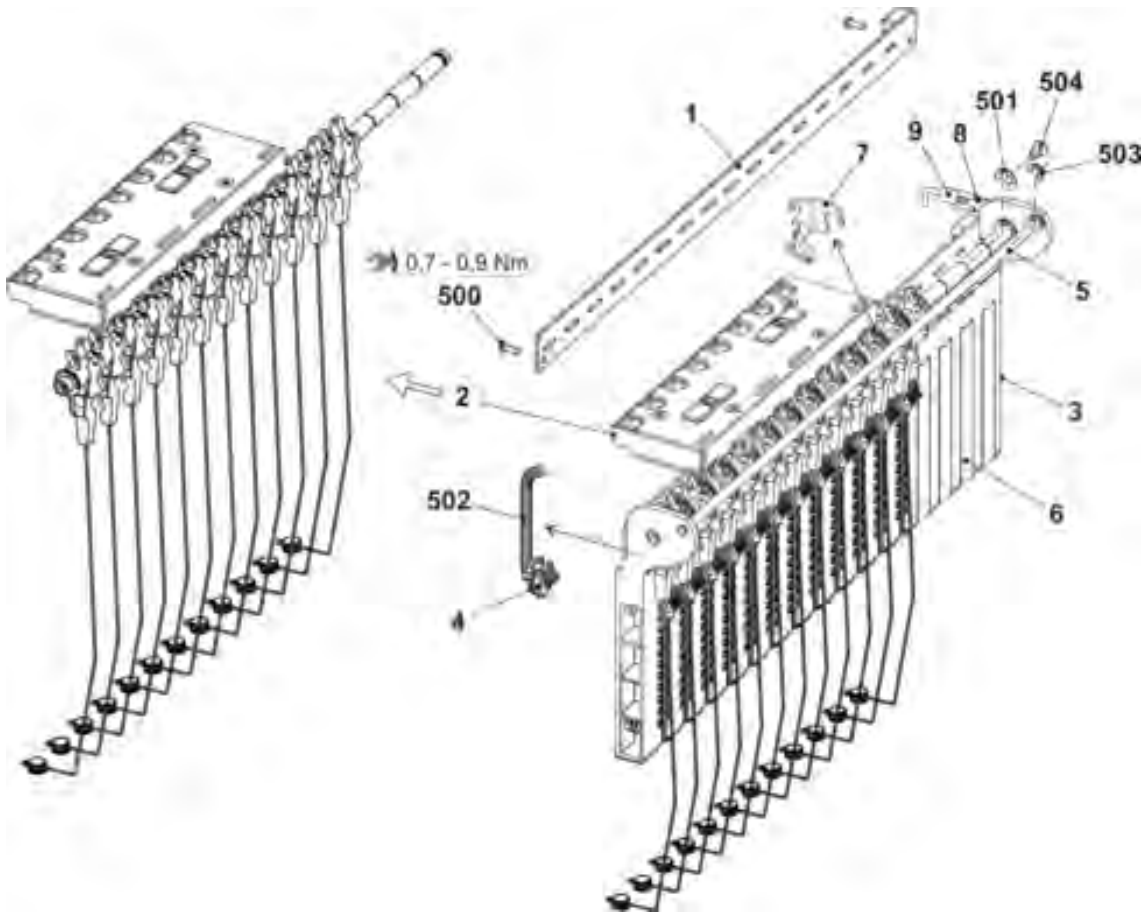
Pos	Designation	Id	Pos	Designation	Id
Σ	Safety door on the right complete				
	E5 E3,5.2 E7m.5	241 274	11	Connection cable yarn tensionerokc	240 808
	E7 E6.2	241 275	13	Yarn brake not adjustable	244 356
5	Yarn brake complete	244 347	14	Clamping bow	244 409
6	Shaft	241 318	15	Ground cable	244 404
7	Yarn tensioner on the right complete		17	Stop bar on the right complete	258 562
	E5 E3,5.2 E7m.5	241 382	501	Ceramic eyelet	240 640
	E7 E6.2	241 383	502	Compression spring 0,90x5,40x13,60	241 360
8	Cover	240 783	504	Washer	022 537
9	Wire bow on the right	241 369	510	Screw KB 60x20	237 682
10	Yarn deflector	242 011	512	Flat connector 2x45° M6	243 117



8.3 Right yarn guide E5 | E7 | E3,5.2 | E6.2 | E7m.5

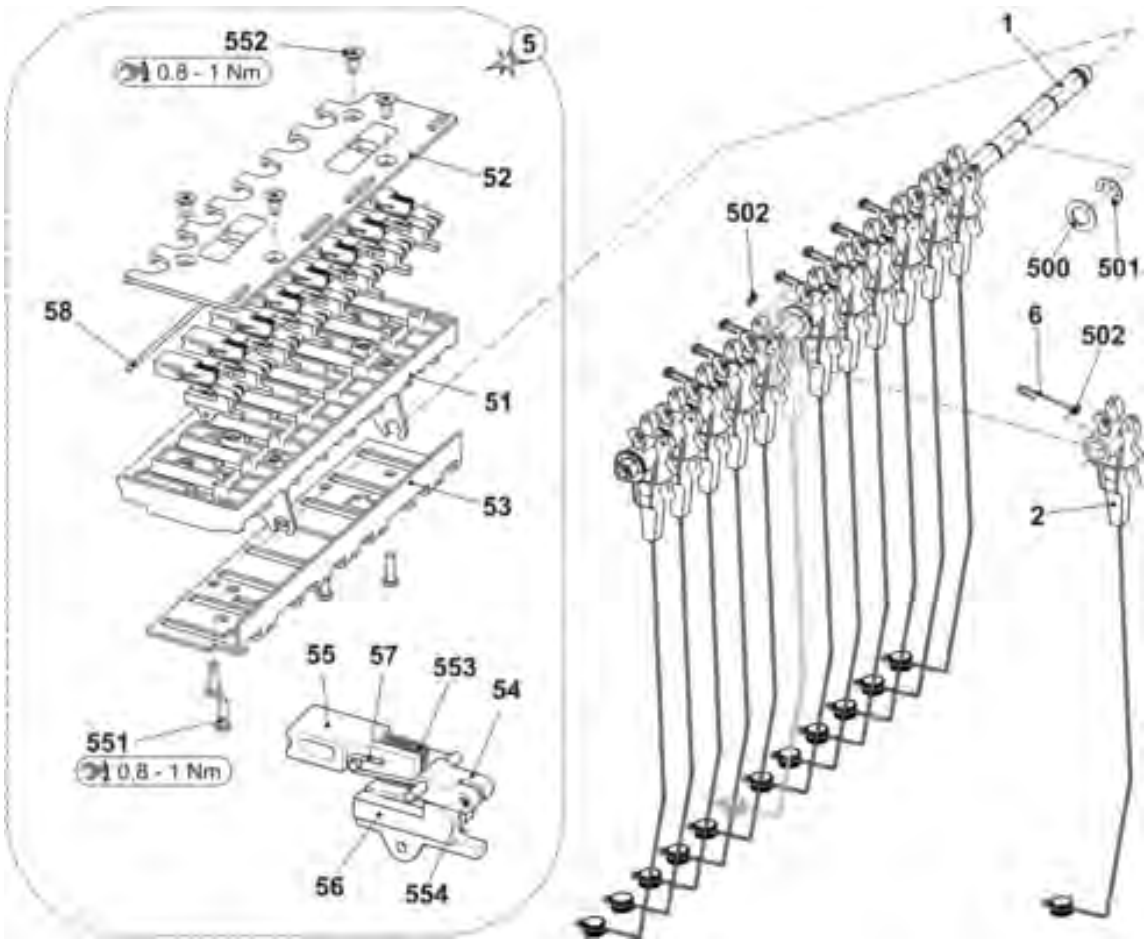
8.3.1 Yarn tensioner on the right E5 | E7 | E3,5.2 | E6.2 | E7m.5

Pos	Designation	ID		Pos	Designation	ID
Σ	Yarn tensioner on the right complete			7	Spacer	242 048
	E5 E3,5.2 E7m.5	241 382		8	Grounding plate of tension axle	243 121
	E7 E6.2	241 383		9	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	241 379		501	Circlip	021 022
3	Housing	241 367		502	Tension spring 5,05x0,55x53 E5 E3,5.2 E7m.5	023 502
4	Slider	241 694			Tension spring 4,9x0,5x53 E7 E6.2	023 503
5	Stop point	241 368		503	Circlip	021 020
6	Border	242 268		504	Countersunk screw M4x10	241 914



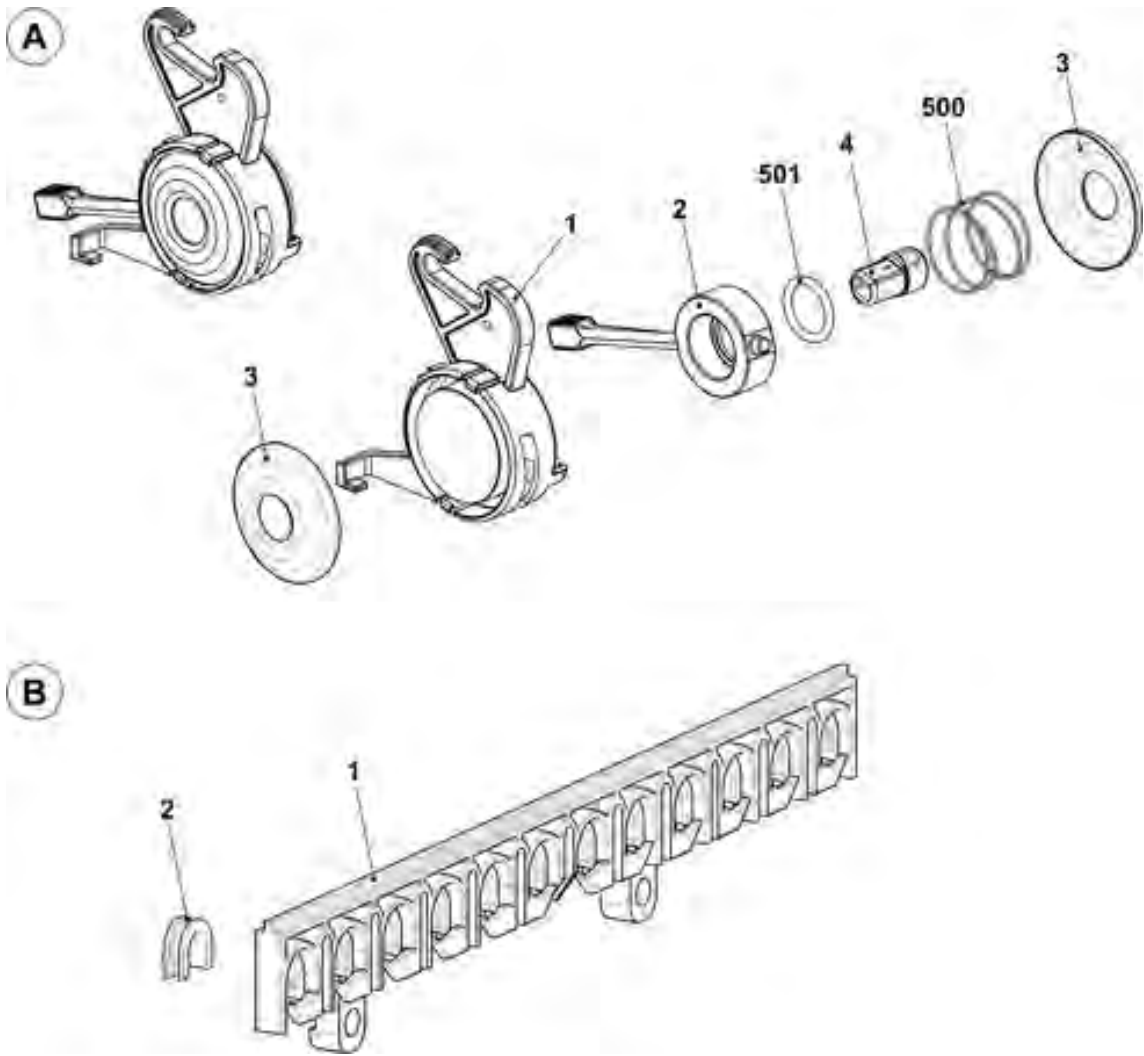
8.3.1.1 Right tension axle E3-8

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



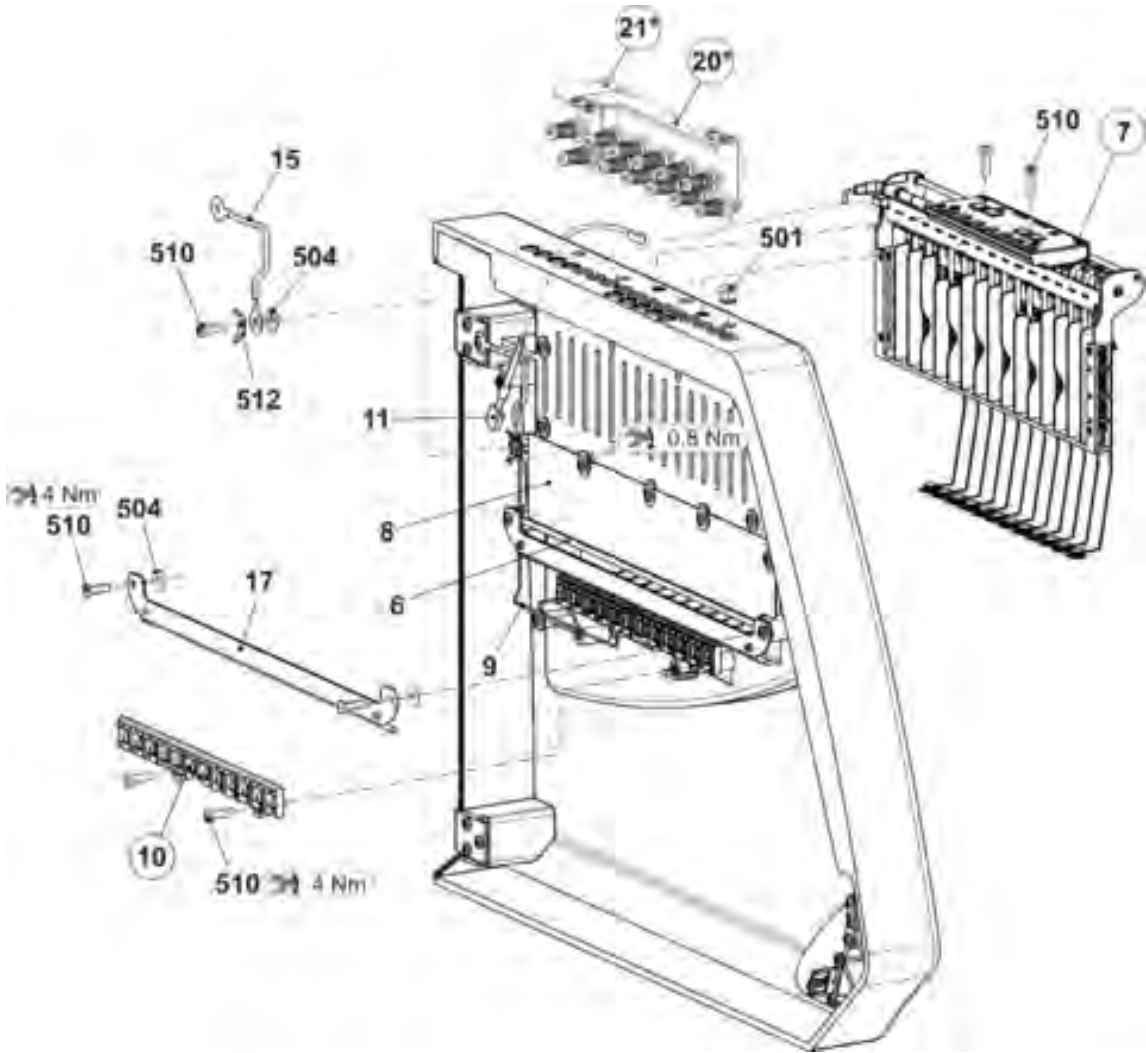
8.3.2 Yarn brake and yarn deflector

Pos	Designation	Id		Pos	Designation	Id
A	Yarn brake complete	244 347		B	Yarn deflector	242 011
1	Support	240 607		1	Support 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				



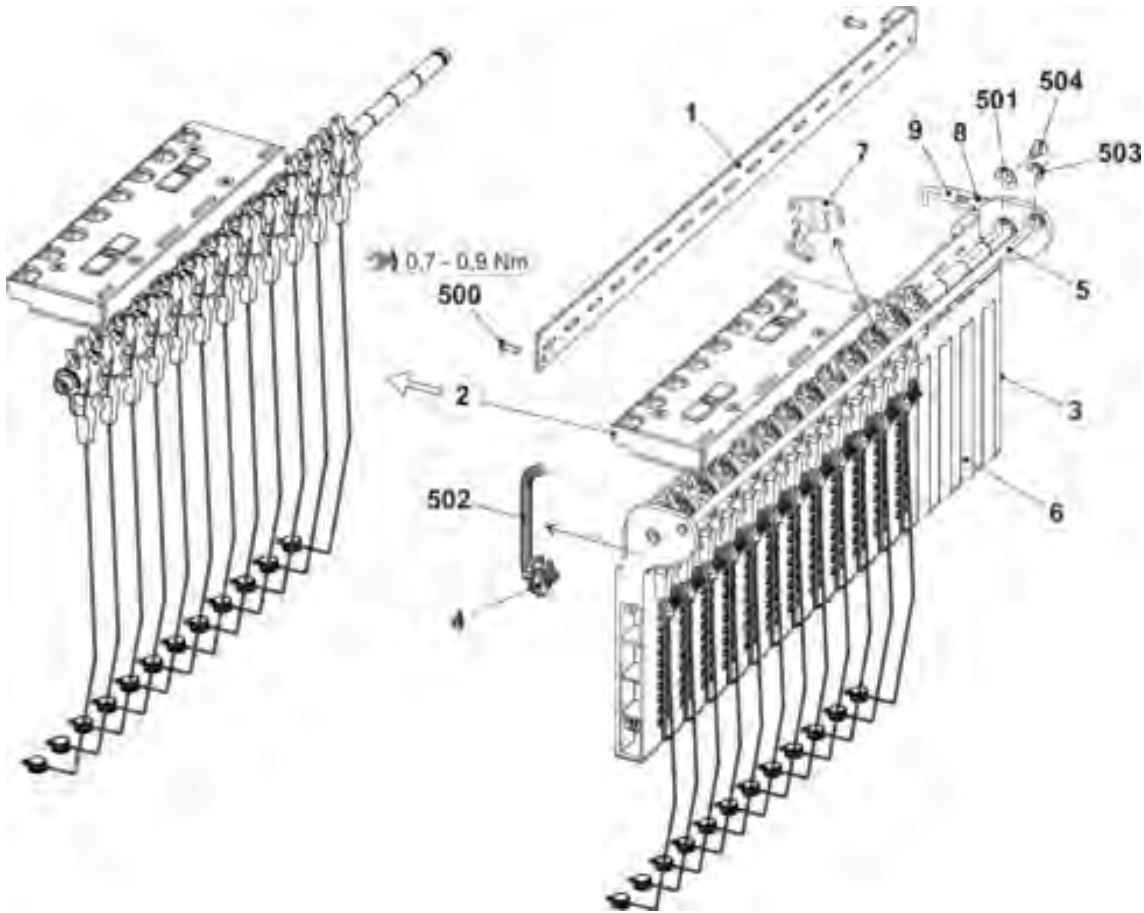
8.4 Right yarn guide
E12 | E14 | E16 | E18 | E6.2(12m.10 | E7.2
(14/12 | E7.2 | E8.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Safety door on the right complete E10-18	241 276				
6	Shaft	241 318		17	Stop bar on the right complete	258 562
7	Yarn tensioner rightE10-18	241 384		501	Ceramic eyelet	240 640
8	Cover plate 16-fold	259 400		504	Washer	022 537
9	Wire bow on the right	241 369		510	Screw KB 60x20	237 682
10	Yarn deflector	242 011		512	Flat connector 2x45° M6	243 117
11	Connection cable yarn tensionerokc	240 808		21*	Yarn guide bracket top right	259 619
15	Ground cable	244 404		22*	Stopping device 12-fold on the right complete	259 596



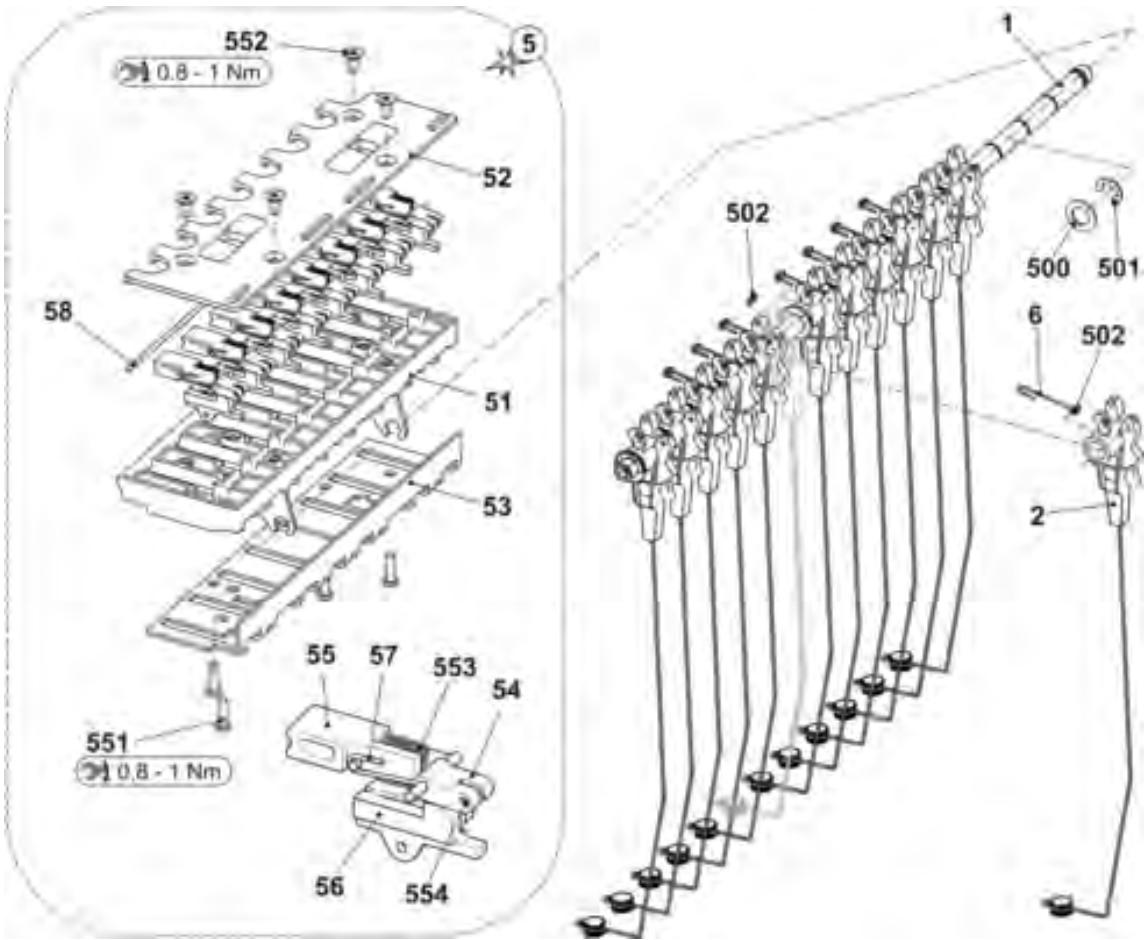
8.4.1 Right yarn tensioners E10-18

Pos	Designation	ID		Pos	Designation	ID
Σ	Yarn tensioner on the right complete E10-18	241 384				
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	241 380		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 4,9x0,45x53	023 504
6	Border	242 268		503	Circlip	021 020
7	Spacer	242 048		504	Countersunk screw M4x10	241 914



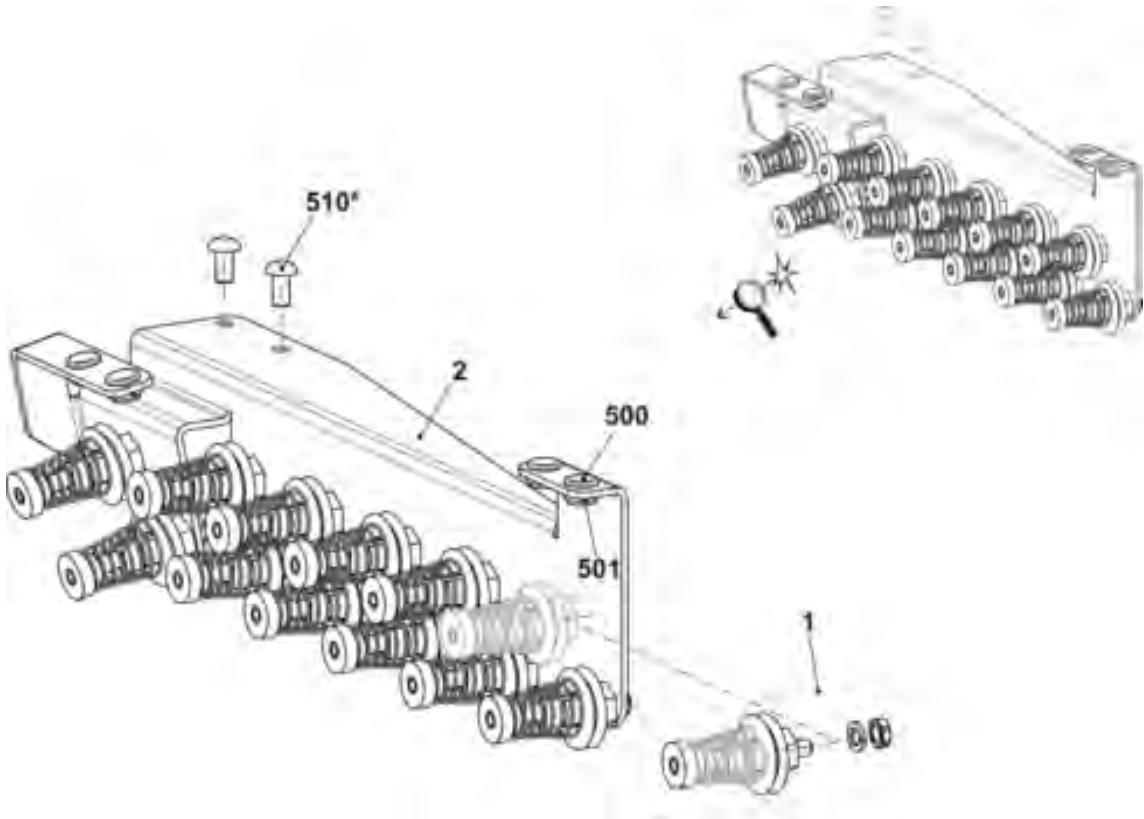
8.4.1.1 Right tension axle E10-18

Pos	Designation		ID		Pos	Designation		ID
Σ	Tension axle on the right completeE10-18		241 380			56	SliderAKF	238 691
1	Axle		243 107			57	Wire bow	238 694
2	Tension arm pre-assembledE10-18		258 459			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



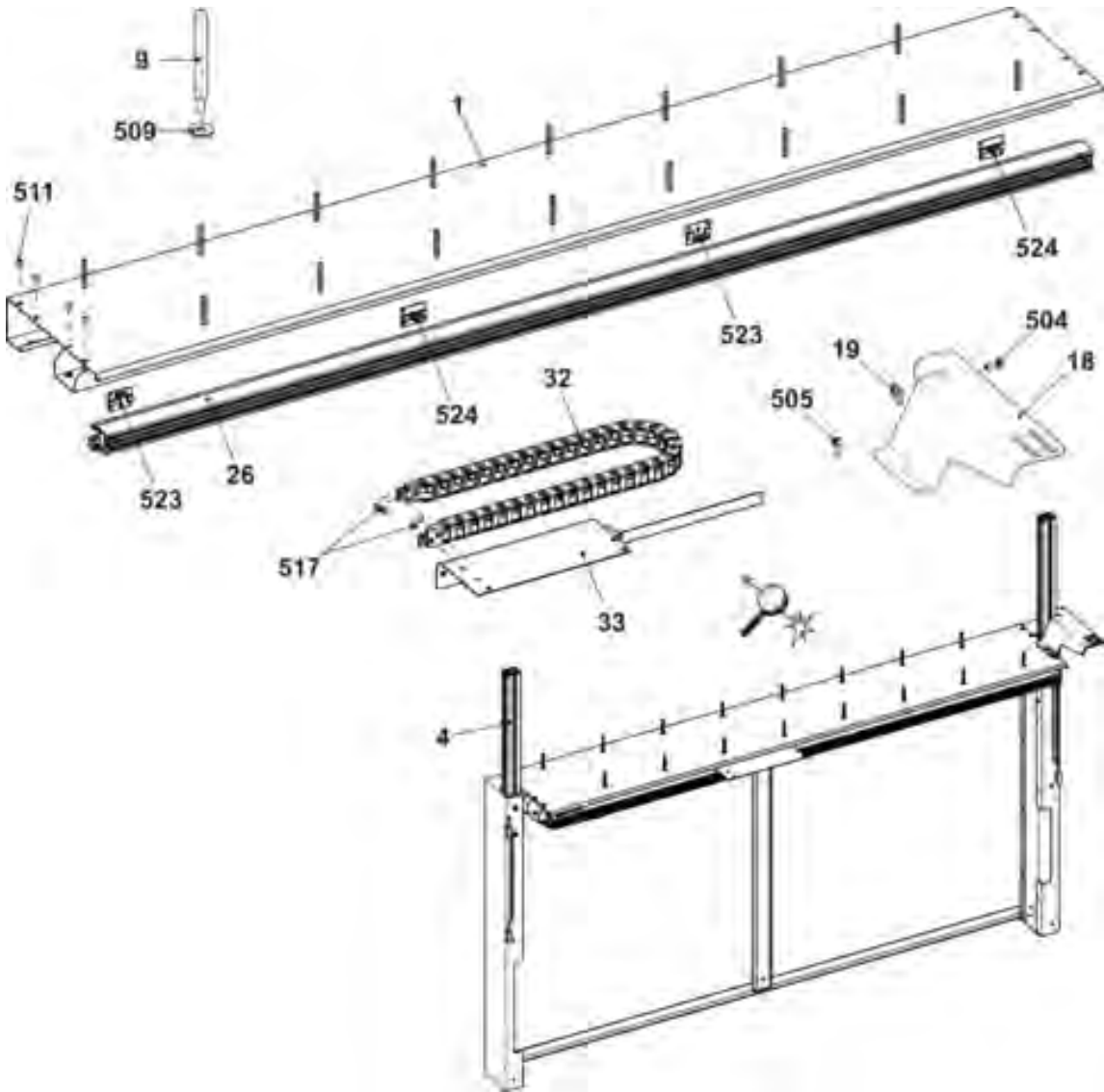
8.4.2 Stopping device on the right

Pos	Designation	Id		Pos	Designation	Id
Σ	Stopping device 12-fold on the right complete	260 341		500	Eyelet 4,2	021 502
1	Yarn brakeE10-18	259 440		501	Clamping ring for sintered ceramics eye	259 606
2	Support plate on the right	260 287		510*	Pan-head screw M5x10	023 247



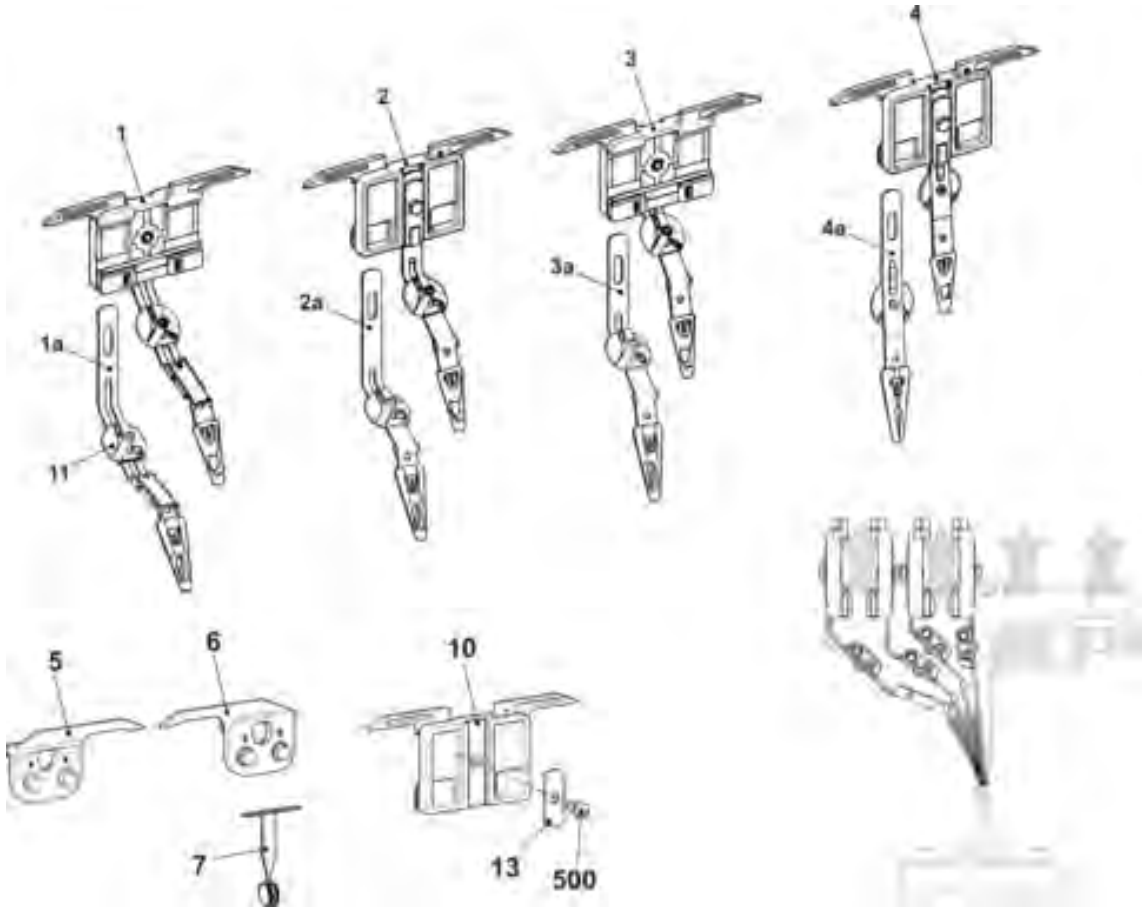
8.5 Bobbin board

Pos	Designation	Id		Pos	Designation	Id
Σ	Table complete 45"	256 933		33	Angle complete	253 887
1	Table	256 788		504	Pan-head screwM8x18	251 331
4	Support element	228 594		505	Pan-head screwM8x16	023 113
9	Positioning pin	204 819		509	Washer	020 901
18	Support of right feed wheel	250 967		511	Pan-head screwM8x10	241 930
19	Slot nut	228 851		517	Cap screwM6x8	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



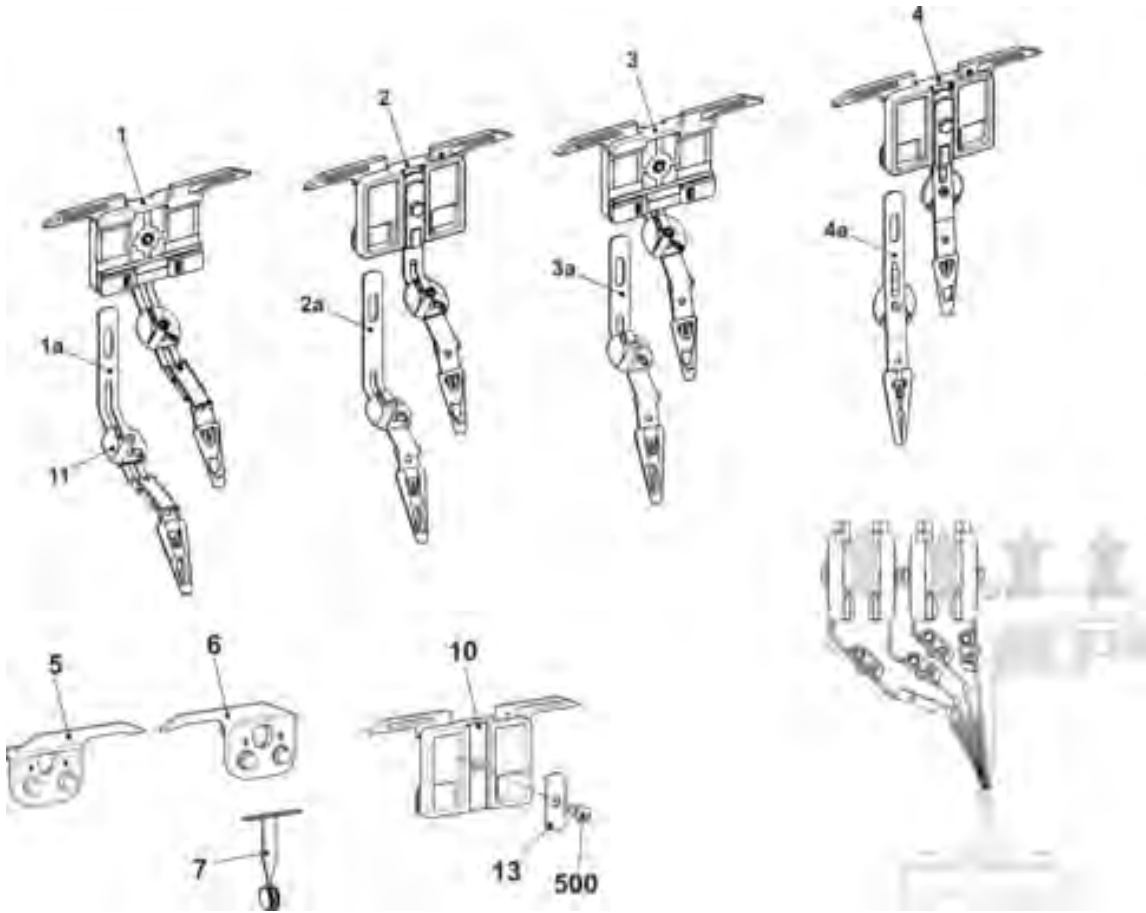
8.6 Yarn guide complete E5 | E7 | E7m.5 | E3,5.2 | E6.2

Pos	Designation	Track	ID		Pos	Designation	ID
Σ	Yarn guide complete						
	E5 E7m.5 E3,5.2		253 830				
	E7 E6.2		253 831				
E5 E7m.5 E3,5.2					E5 E7m.5 E3,5.2		
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 E6.2					E7 E6.2		
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				



8.7 Yarn guide complete
E12 | E14 | E16 | E18 | E6.2(12m.10) | E7.2
(14/12) | E7.2 | E8.2

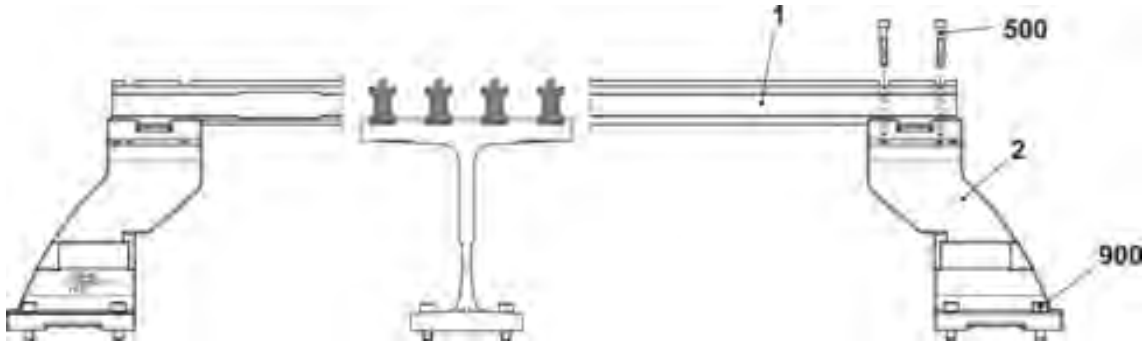
Pos	Designation	Track	ID		Pos	Designation	ID	
Σ	Yarn guide complete							
	E12 E14 E6.2(12m.10) E7.2(14/12) E7.2 E8.2		253 832					
	E16 E18		256 932					
E12 E14 E6.2(12m.10) E7.2(14/12) E7.2 E8.2				E12 E14 E6.2(12m.10) E7.2(14/12) E7.2 E8.2				
1	FF carriage complete E10-14	1+8	243 943		1a	FF bow 1+8 complete E10-14	212 994	
2	FF carriage complete E10-14	2+7	243 942		2a	FF bow 2+7 complete E10-14	212 996	
3	FF carriage complete E10-14	3+6	243 941		3a	FF bow 3+6 complete E10-14	212 995	
4	FF carriage complete E10-14	4+5	243 940		4a	FF bow 4+5 complete E10-14	212 997	
E16 E18					E16 E18			
1	FF carriage complete E16-18	1+8	243 947		1a	FF bow 1+8 complete E16-18	223 199	
2	FF carriage complete E16-18	2+7	243 946		2a	FF bow 2+7 complete E16-18	223 201	
3	FF carriage complete E16-18	3+6	243 945		3a	FF bow 3+6 complete E16-18	223 200	
4	FF carriage complete E16-18	4+5	243 944		4a	FF bow 4+5 complete E16-18	223 202	
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					



8.8 Bar unit

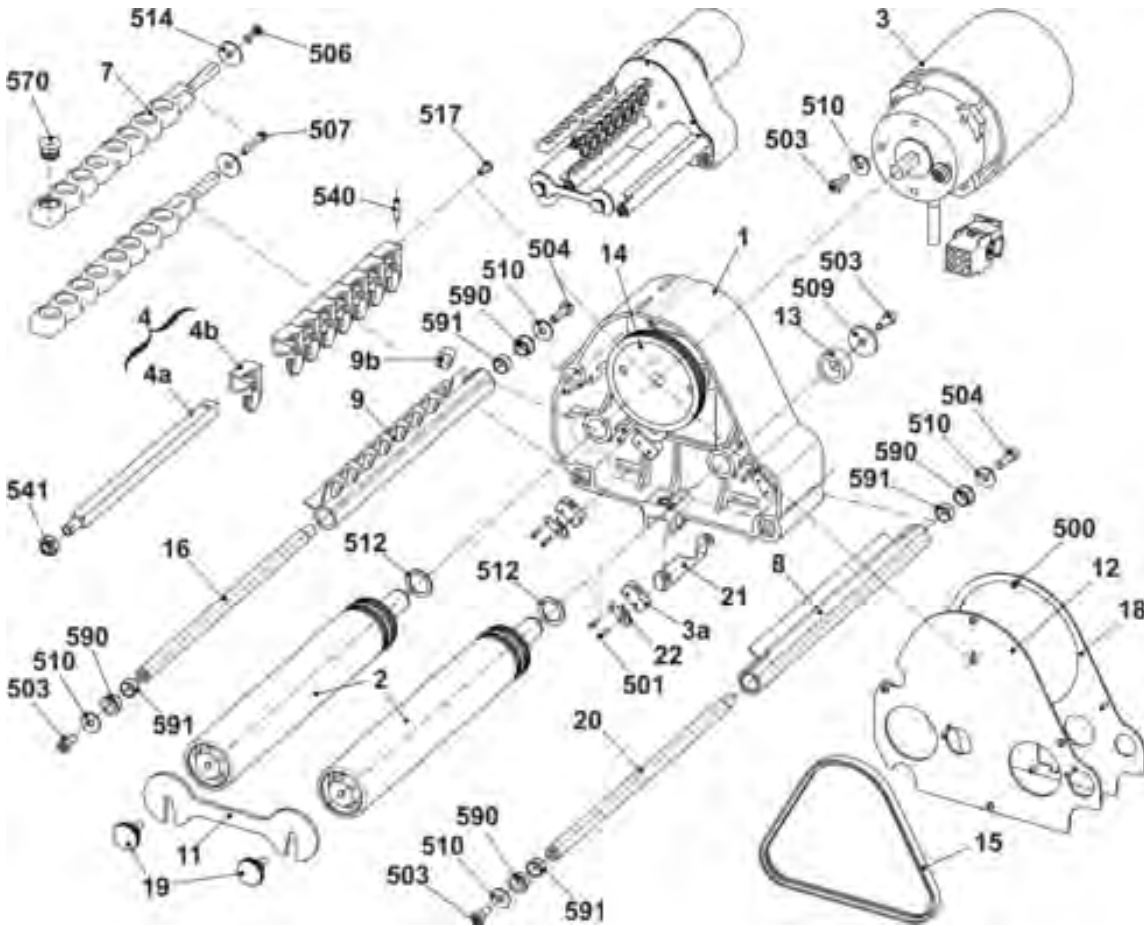
8.8 Bar unit

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



8.9 Right friction feed wheel

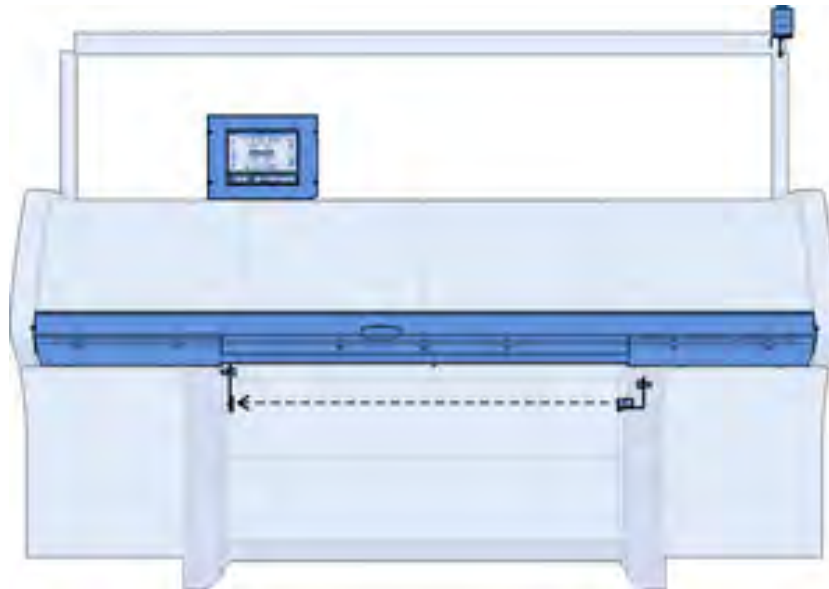
Pos	Designation		Id	Pos	Designation		Id
Σ	Friction feed wheel on the right complete		243 572	14	V-ribbed belt pulley		221 268
1	Housing		240 368	15	Ribbed V-belt V3J 406		206 927
2	Friction roller complete		231 704	16	Rod		221 319
3	Three-phase AC motor complete		219 800	18	Cover		230 758
	3a	Microswitch	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				



8.9 Right friction feed wheel

Notes:

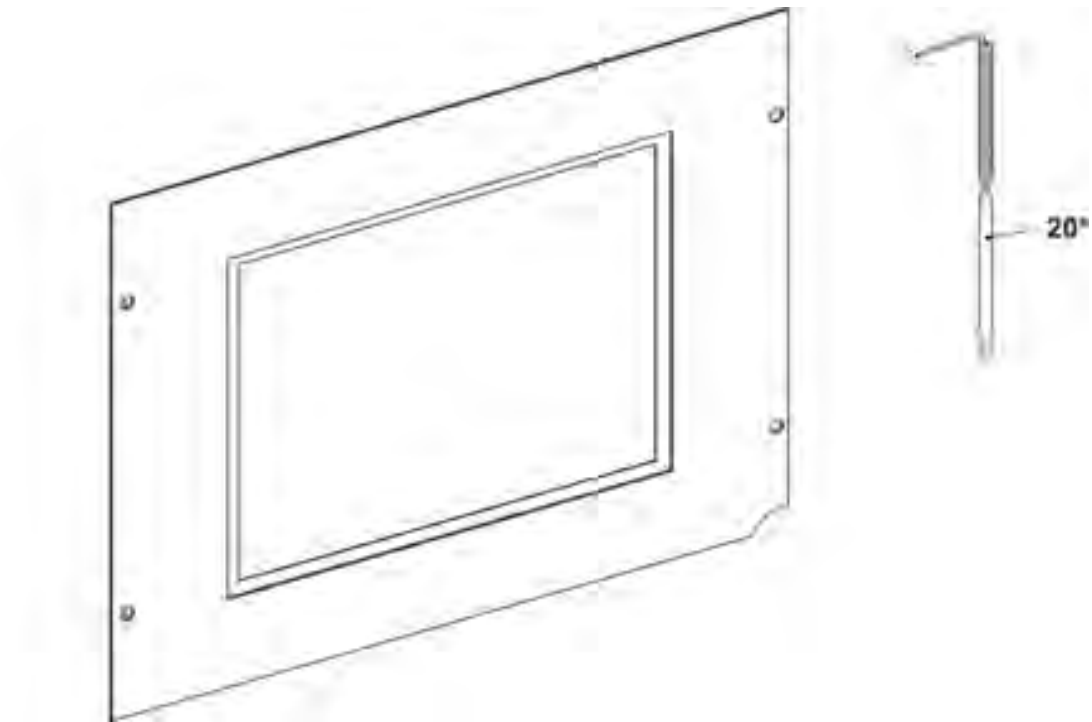
9 Operation and control



9.1 Input unit

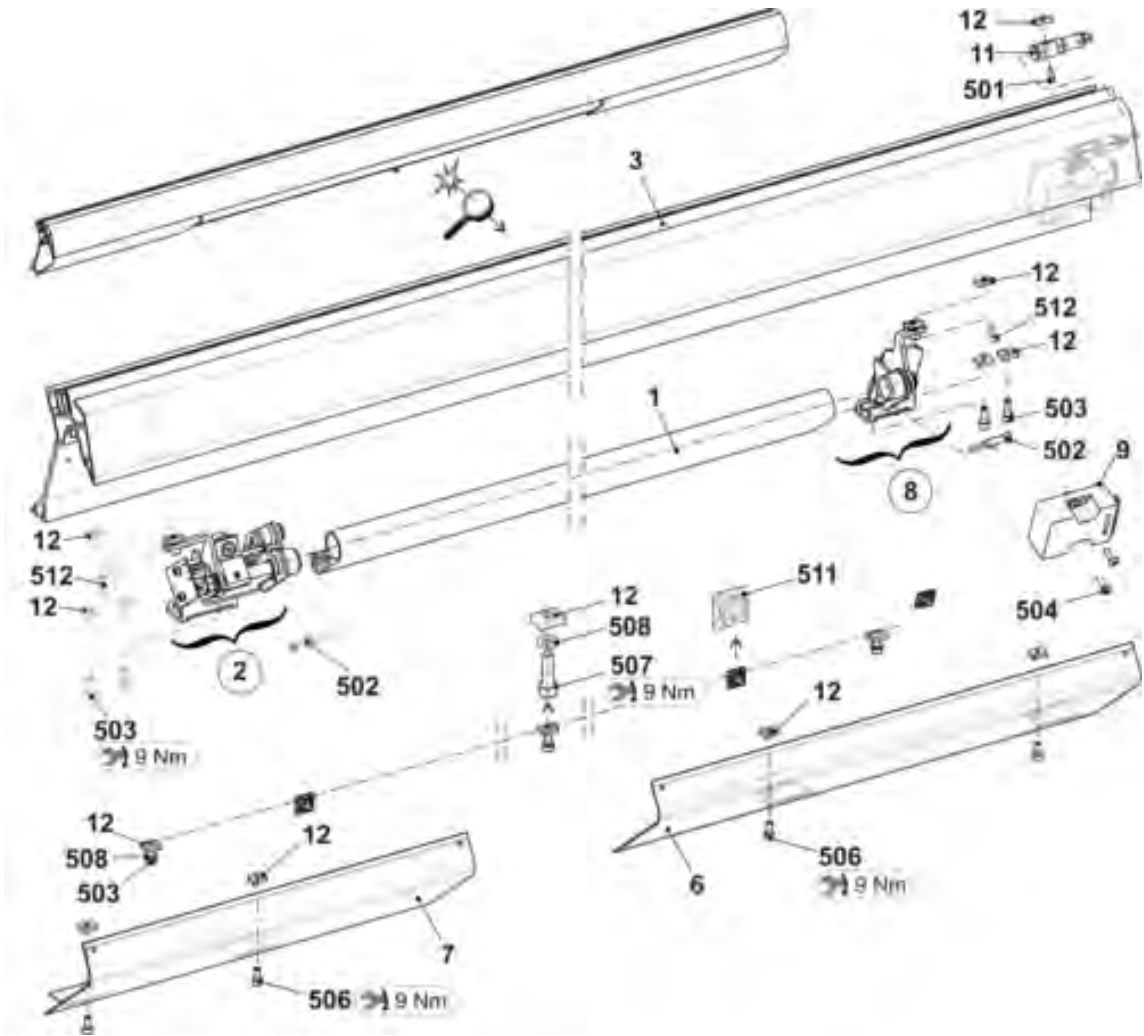
9.1 Input unit

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



9.2 Starting device

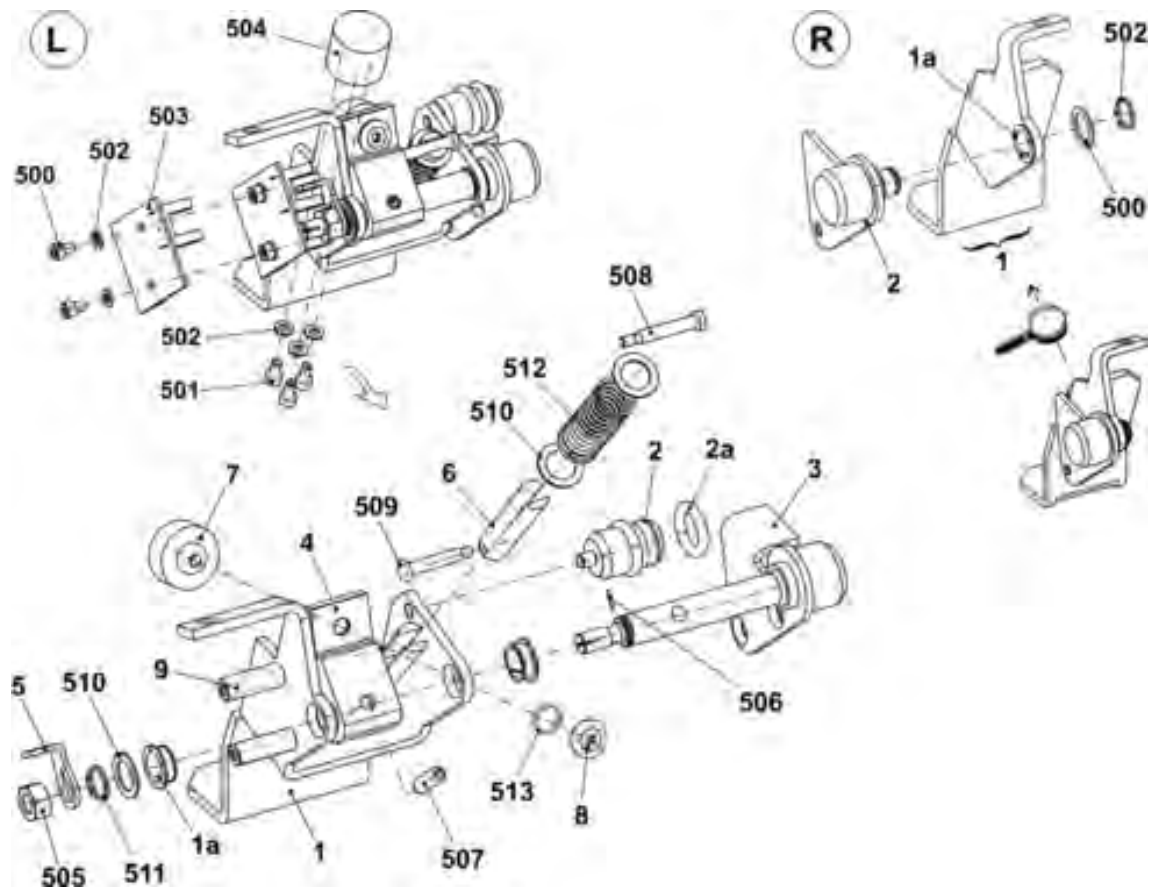
Pos	Designation	Id		Pos	Designation	Id
Σ	Starting device	256 914		501	Cap screwM4x10	023 136
1	Engaging rod	251 686		502	Screw M6x25	023 510
2	Bearing on the left complete	250 071		503	Cap screwM6x16	020 135
3	Guide rail at the bottom pre-assembled	256 915		504	Pan-head screwM5x14	023 588
6	Cover plate 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

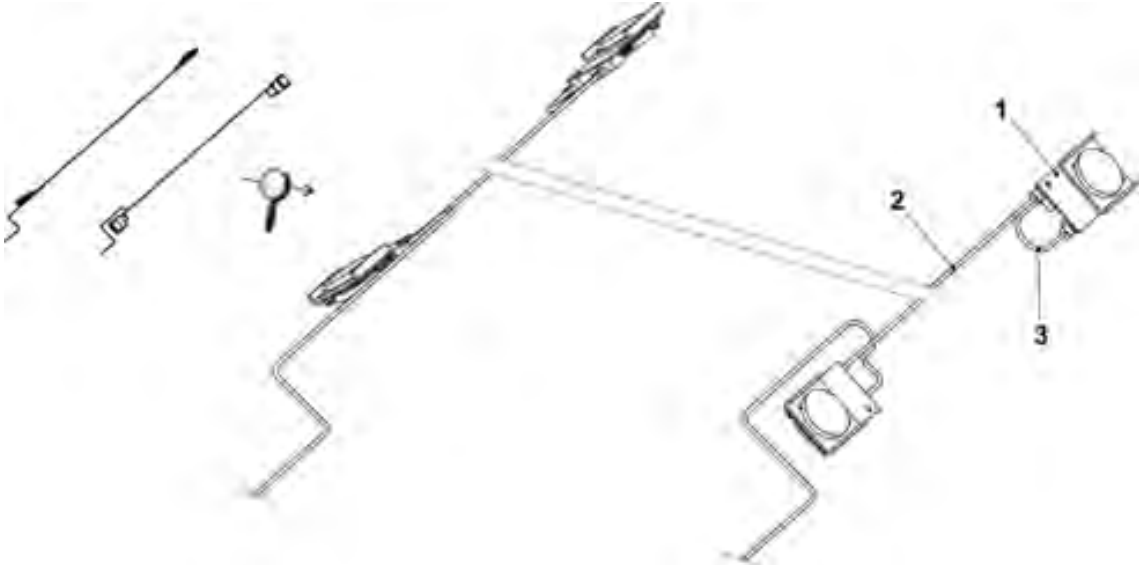
9.2.1 Bearing of the engaging rod

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



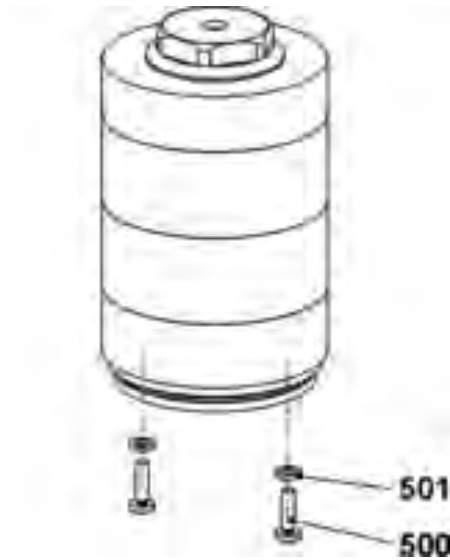
9.3 Shock stop motion

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				



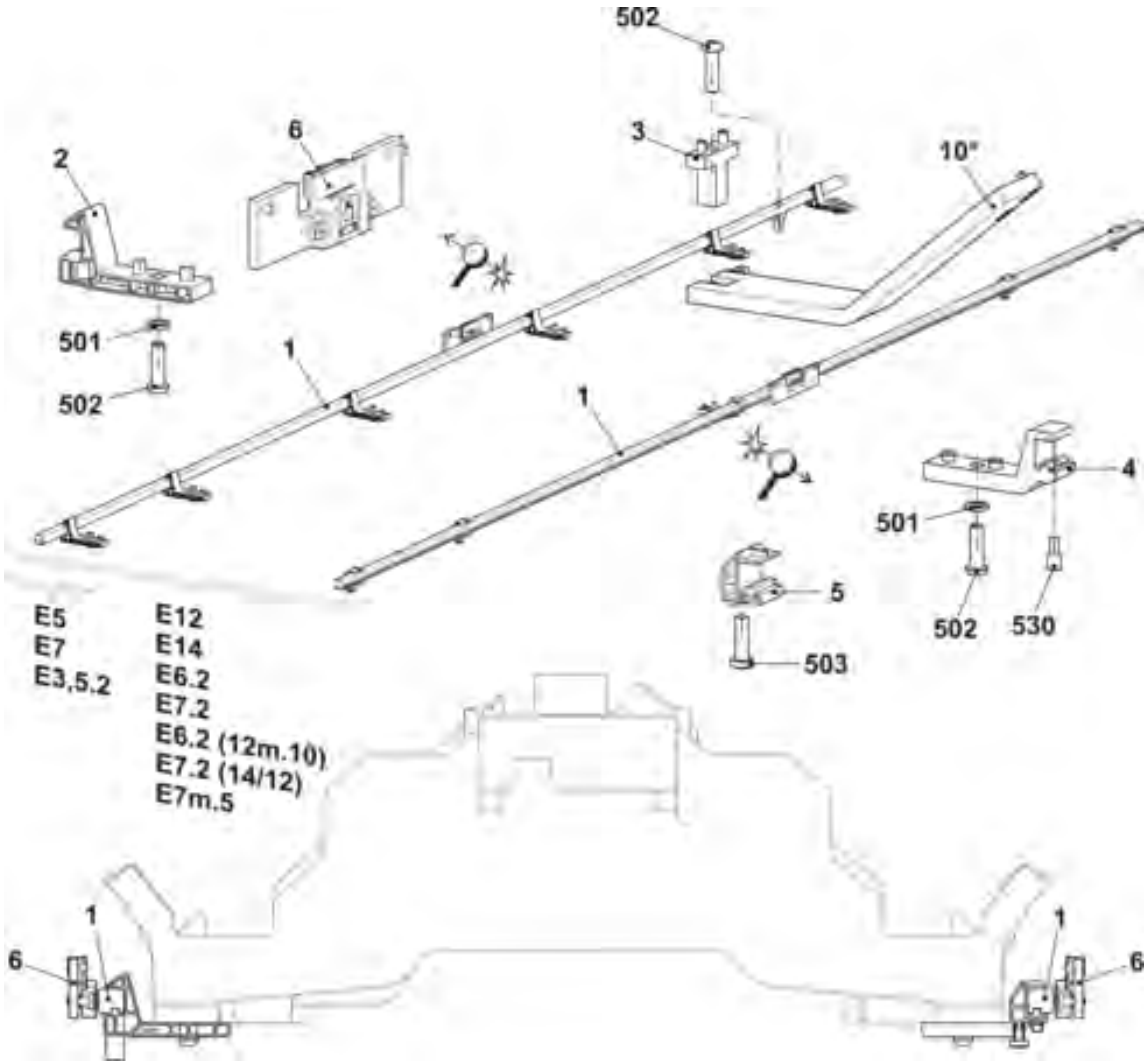
9.4 Signal light

Pos	Designation		Id		Pos	Designation		Id
Σ	Signal light LED		240 395					
	500	Pan-head screwM4x14	023 037					
	501	Serrated lock washer A4,3-FS	022 482					



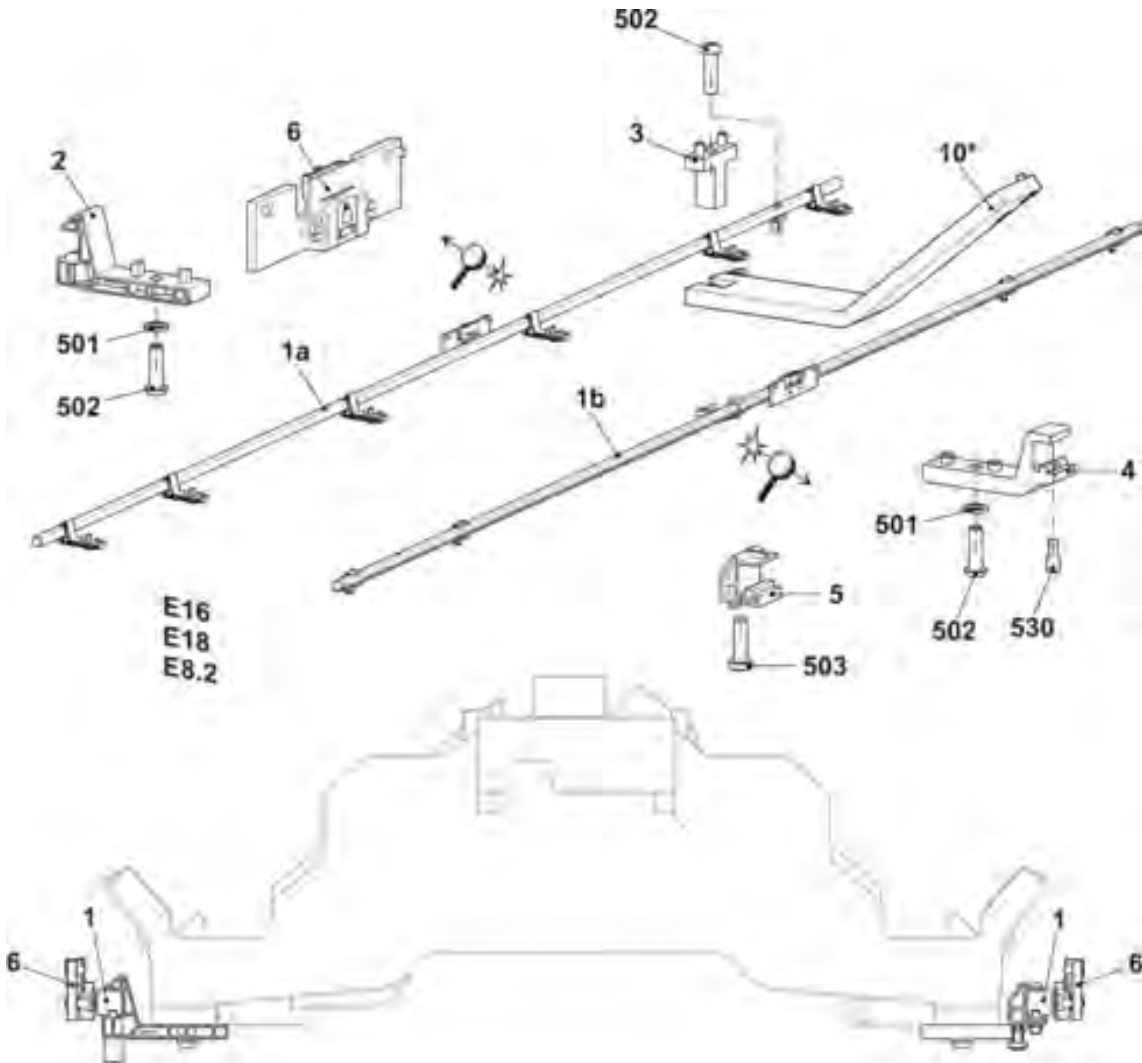
9.5 Measuring device
E5|E7|E12|E14|E3,5.2|E6.2|E7.2|E6.2(12m.10)
|E7.2(14/12)|E7m.5

Pos	Designation		Id		Pos	Designation	Id
Σ	Measuring device				5	Guide exterior	251 605
1	Measuring bar		258 309		6	Impulse sensor GLM complete	257 003
2	Guide		251 676		10*	Bearing fork	240 689
3	Stop point		209 289		501	Washer6	020 881
4	Guide		240 672		502	Pan-head screwM6x20	241 603
	530	Setscrew	230 803		503	Screw 60x20	243 625

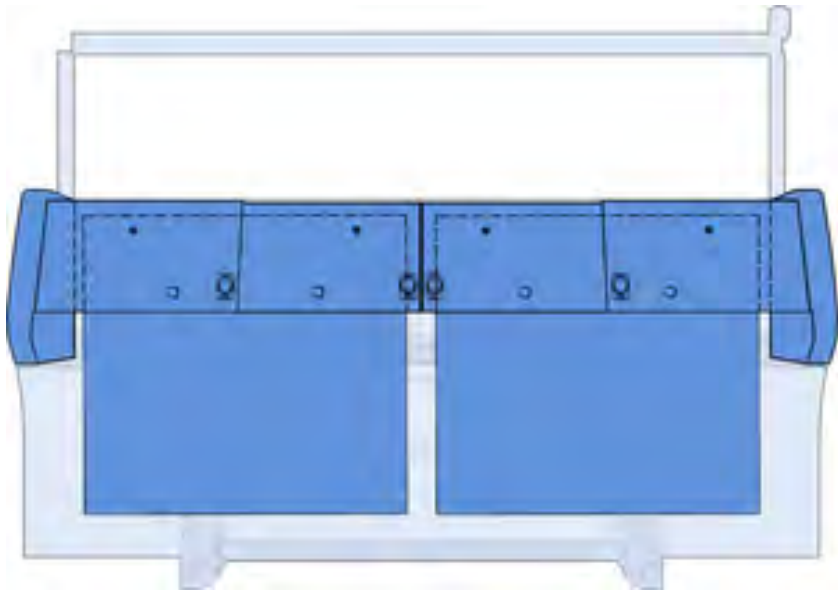


9.6 Measuring device E16|E18|E8.2

Pos	Designation		Id		Pos	Designation		Id
Σ	Measuring device							
1a	Measuring bar		258 309		5	Guide exterior		251 605
1b	Measuring bar E16-18		259 326		6	Impulse sensor GLM complete		257 003
2	Guide		251 676		10*	Bearing fork		240 689
3	Stop point		209 289		501	Washer6		020 881
4	Guide		240 672		502	Pan-head screwM6x20		241 603
	530	Setscrew	230 803		503	Screw 60x20		243 625



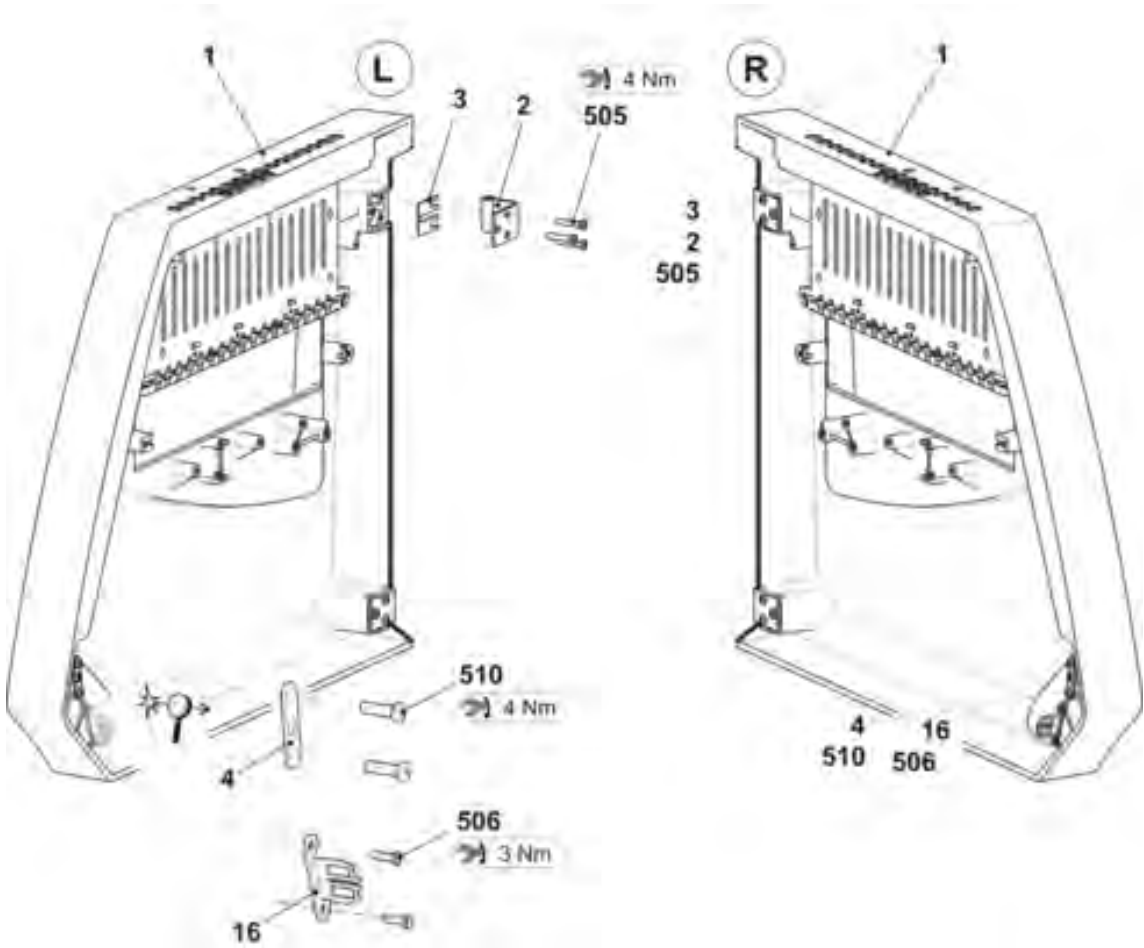
10 Protective units



10.1 Lateral safety doors

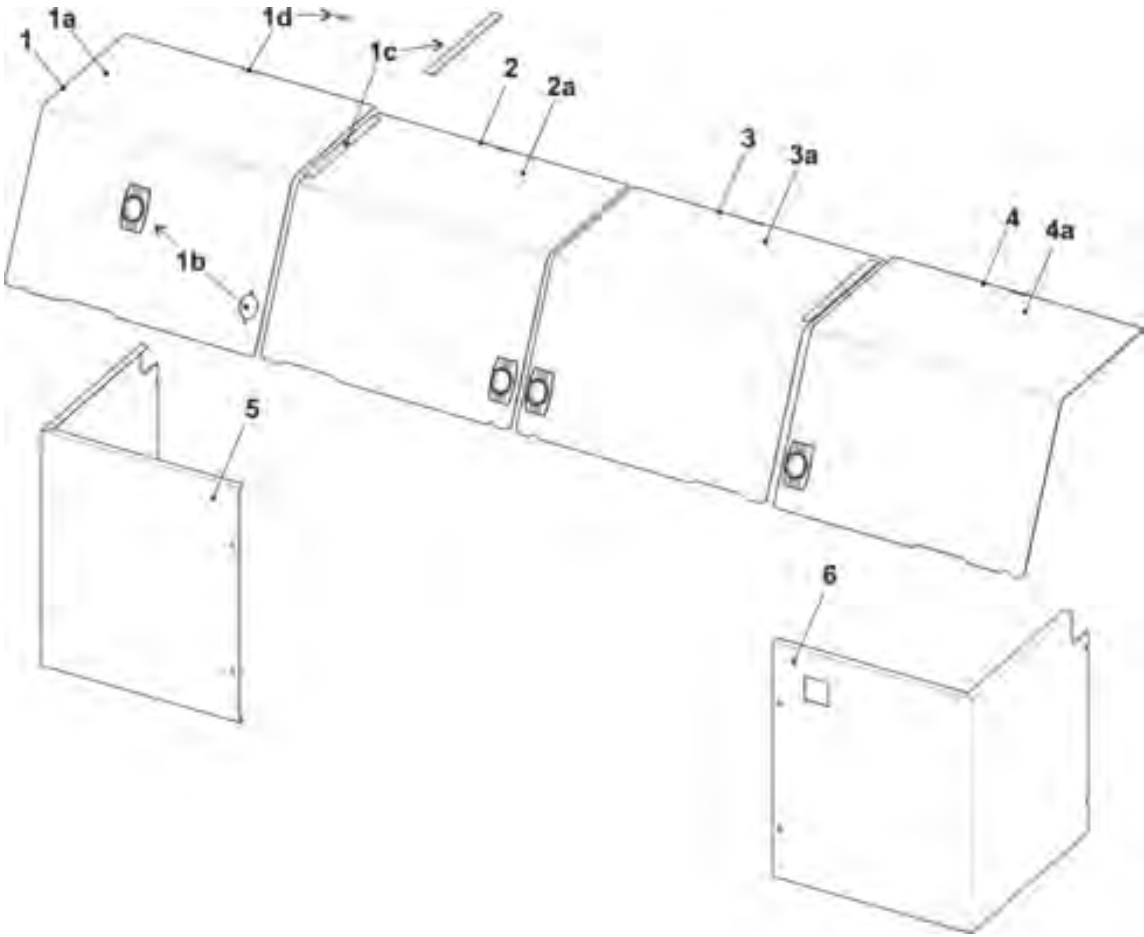
10.1 Lateral safety doors

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



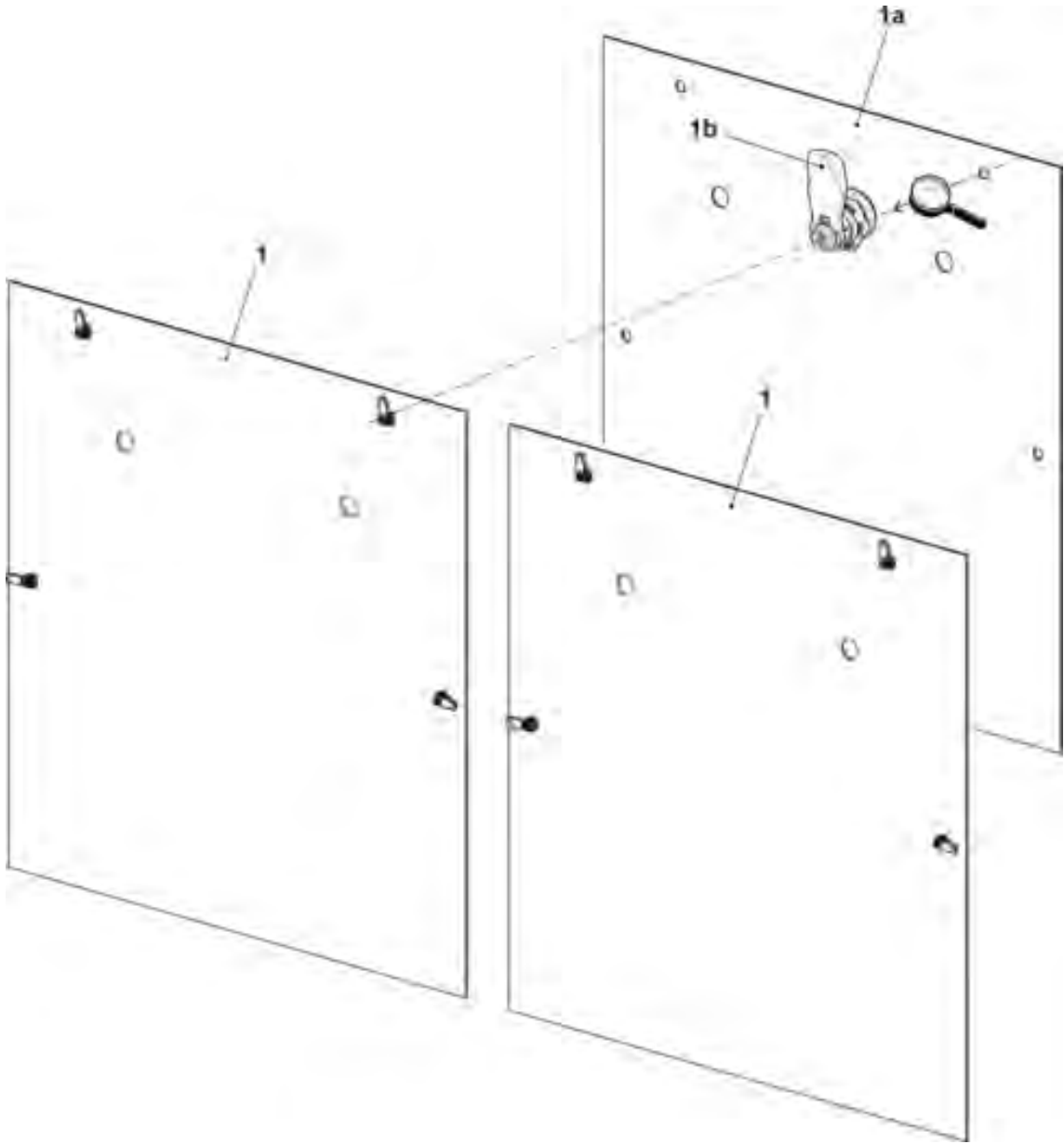
10.2 Panelling

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

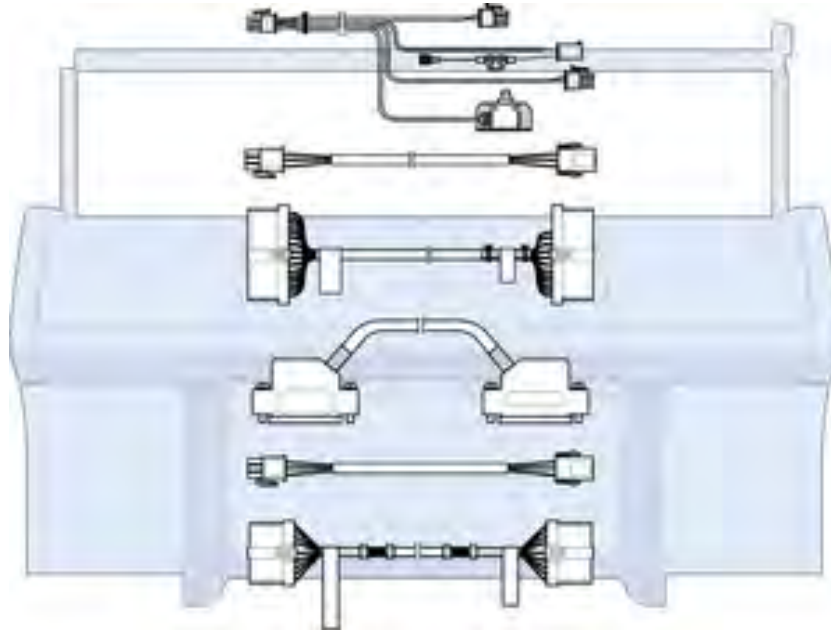


10.3 Rear panel

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



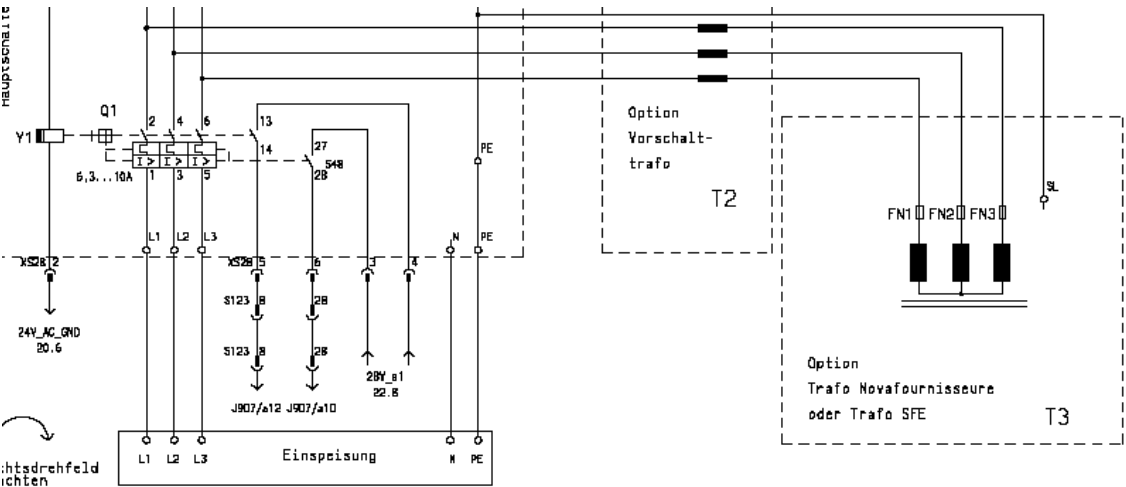
11 Electrical equipment



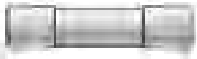
11.1 Circuit diagram (222) as PDF

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

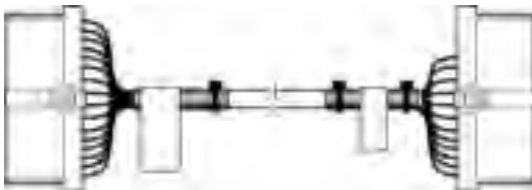


11.2 Fuses

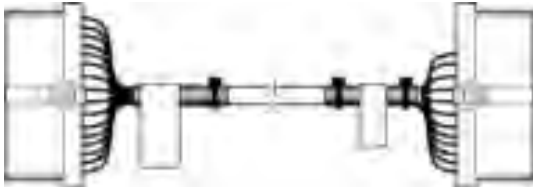
	Designation	Id
	Fuse 1,0A F 5x20	008 748
	Fuse 3,15A T/440V 6,3x32	025 261
	Fuse 10A T/440V 6,3x32Fuse	025 258
	Fuse 2,5A T/440V 6,3x32	217 465
	Fuse 1,6A T/440V 6,3x32	236 229
	Fuse 6,3A T/440V 6,3x32	026 809
	Fuse 8A T/440V 6,3x32Fuse	241 866
	Fuse 12,5A T/440V 6,3x32	232 367

11.3 Trailing cable E5 | E7 | E3,5.2 | E7m.5

11.3 Trailing cable E5 | E7 | E3,5.2 | E7m.5

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			
				

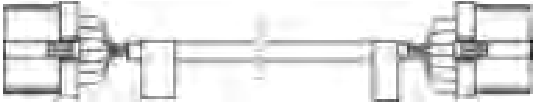
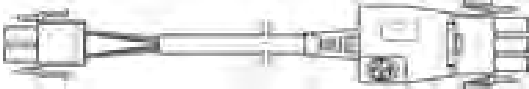
11.4 Trailing cable E12 | E14 | E16 | E18 | E6.2(12m.10)
| E7.2(14/12) | E6.2 | E7.2 | E8.2

Designation	Id		Designation	Id	
Trailing cable set OKC_502 2IMP-2	259 293				
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 impulse sensor 2 at the front XR137 502 OKC3	259 356	
					
Cable yarn carrier 420 XR161 ECO2	252 059				
					

11.5 Cable set installation

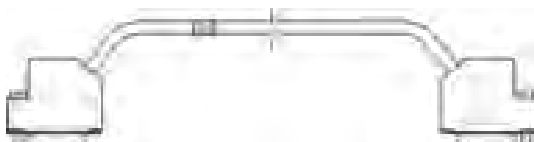
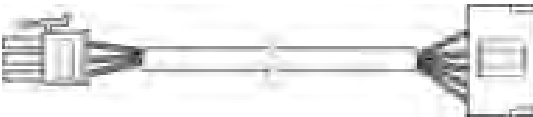
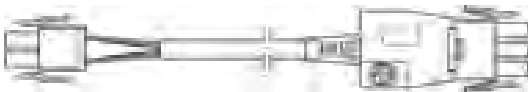
Designation			ID	Designation			ID
Σ	Cable set installation 5XX okc		253 618				
1	Loom of cables base 1 5XX		253 619	3	Loom of cables 5XX okc		253 621
2	Loom of cables base 2okc		240 257	4	Loom of cables comb okc		240 259
6	Cable switch main take-down 50" ECO2		252 541	7	Cable supply FKE lamp ECO2		252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

11.5.1 Cable set base 1

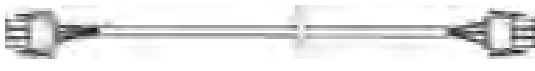
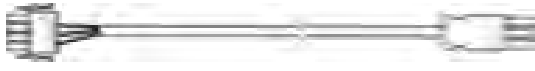
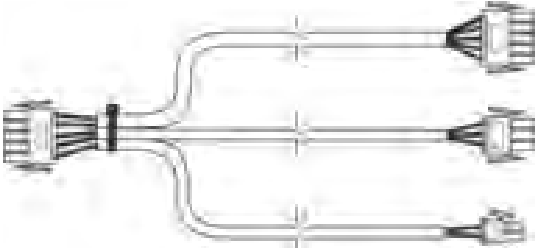
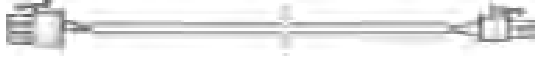
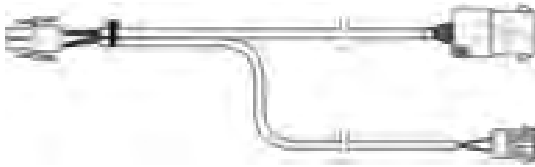
Designation		Id	Designation		Id
Σ	Loom of cables base 1 5XX	253 619			
	Cable engaging ECO2	252 538		Cable protective device on the left 5XX	253 620
					
	Cable feed wheel on the left 50" OKC	240 464			
					

11.5 Cable set installation

11.5.2 Loom of cables base 2

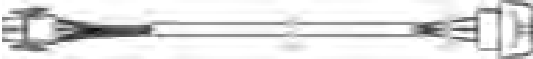
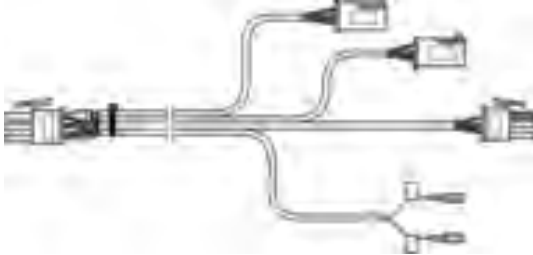
Designation		Id	Designation		Id		
Σ	Loom of cables base 2	240 257					
	Cable motor HAAB OKC	240 291		Cable resolver drive OKC 3XX	240 296		
							
	Cable racking limit switch OKC 3XX	240 292		Cable racking motor OKC 3XX	240 297		
							
	Cable fan drive 3XX OKC	240 293		Cable resolver racking OKC 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					
							

11.5.3 Loom of cables 5XX

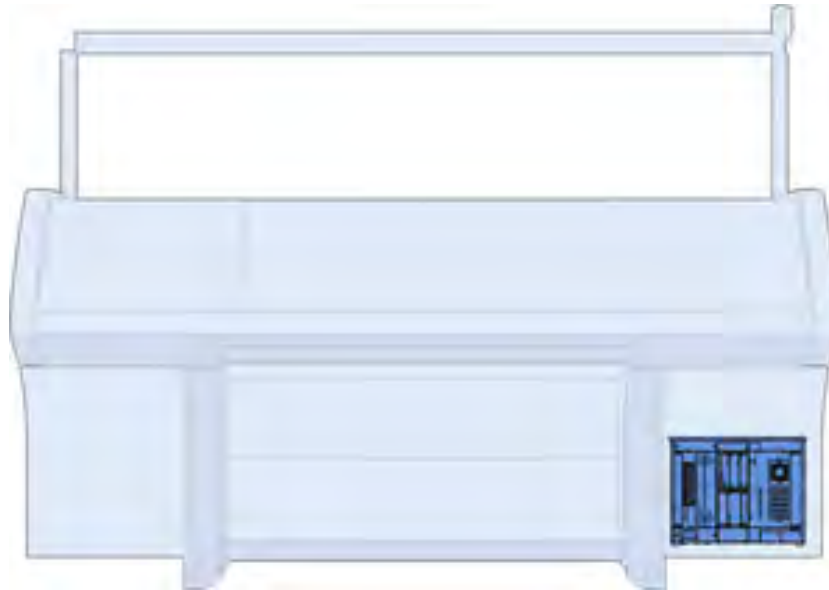
Designation		Id	Designation		Id
Σ	Loom of cables 5XX OKC	253 621			
	Cable motor auxiliary take-down 50" okc	240 467		Cable power supply unit of mains supply OKC	240 505
					
	Cable impulse sensor auxiliary take-down 50" OKC	240 468		Cable power supply lighting	236 572
					
	Cable power supply WAZ/F 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
					

11.5 Cable set installation

11.5.4 Loom of cables comb

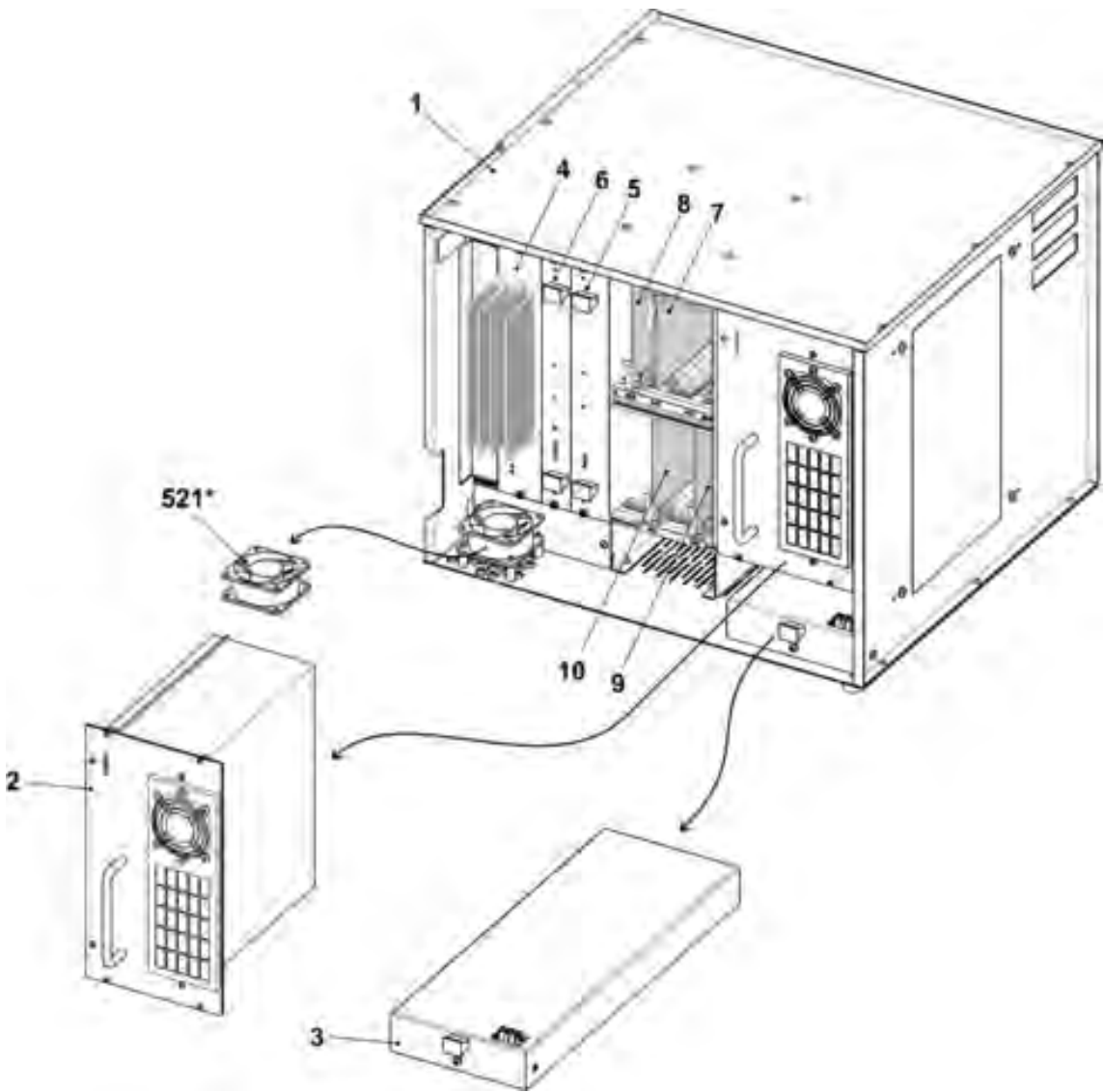
Designation		Id	Designation		Id
Σ	Loom of cables comb OKC	240 259			
	Cable motor comb hookOKC	240 308		Cable switch combOKC	240 311
					
	Cable switch KAHA OKC	240 309		Cable switch HAAB OKC	240 312
					
	Cable motor combOKC	240 310			
					

12 Control electronics



12.1 Control cabinet

Pos	Designation	Id		Pos	Designation	Id
Σ	Control unit on the right complete 520 5/6 ZOLL	254 852		6	Card BIO ECO2	301 007
1	Control unit without equipment 5XX 5/6 Zoll	254 854		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

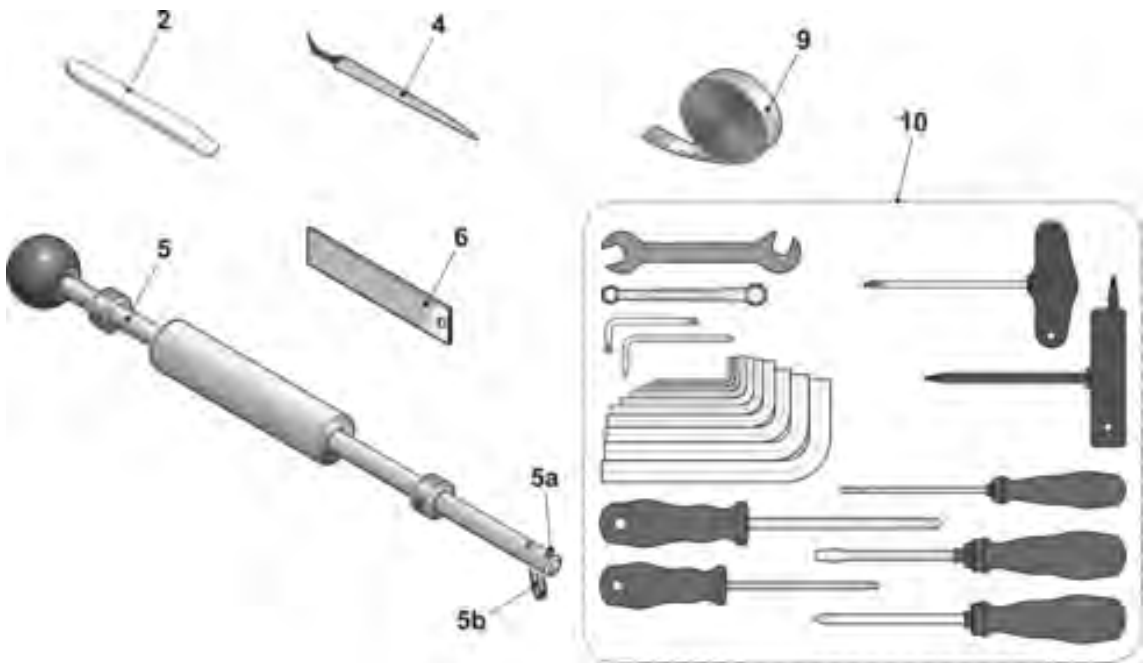


You can order the following tools, lubricants and expendables.
The following list does not correspond to the scope of delivery of the knitting machine.

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

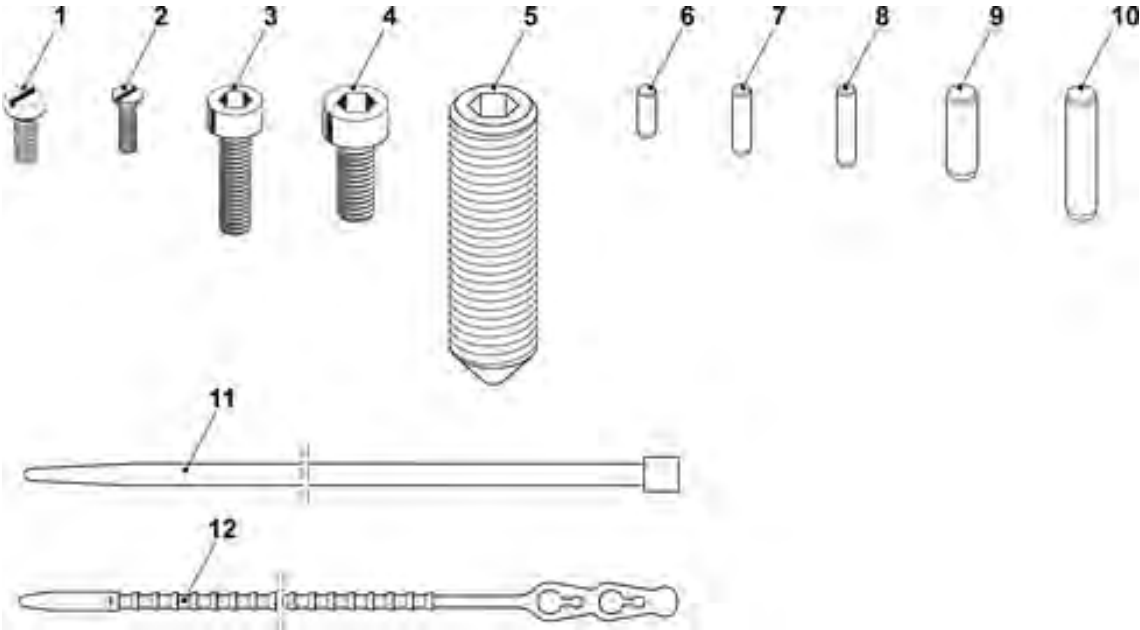
Pos	Designation	Id		Pos	Designation	Id
1	Textile machines oil T46, 1l	230 614		4	Oil combifix no. 8/10 Gr. 10	216 732
3	Grease OKS 475, 150gGrease	005 351		5	White grease paste OKS270	229 372



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				



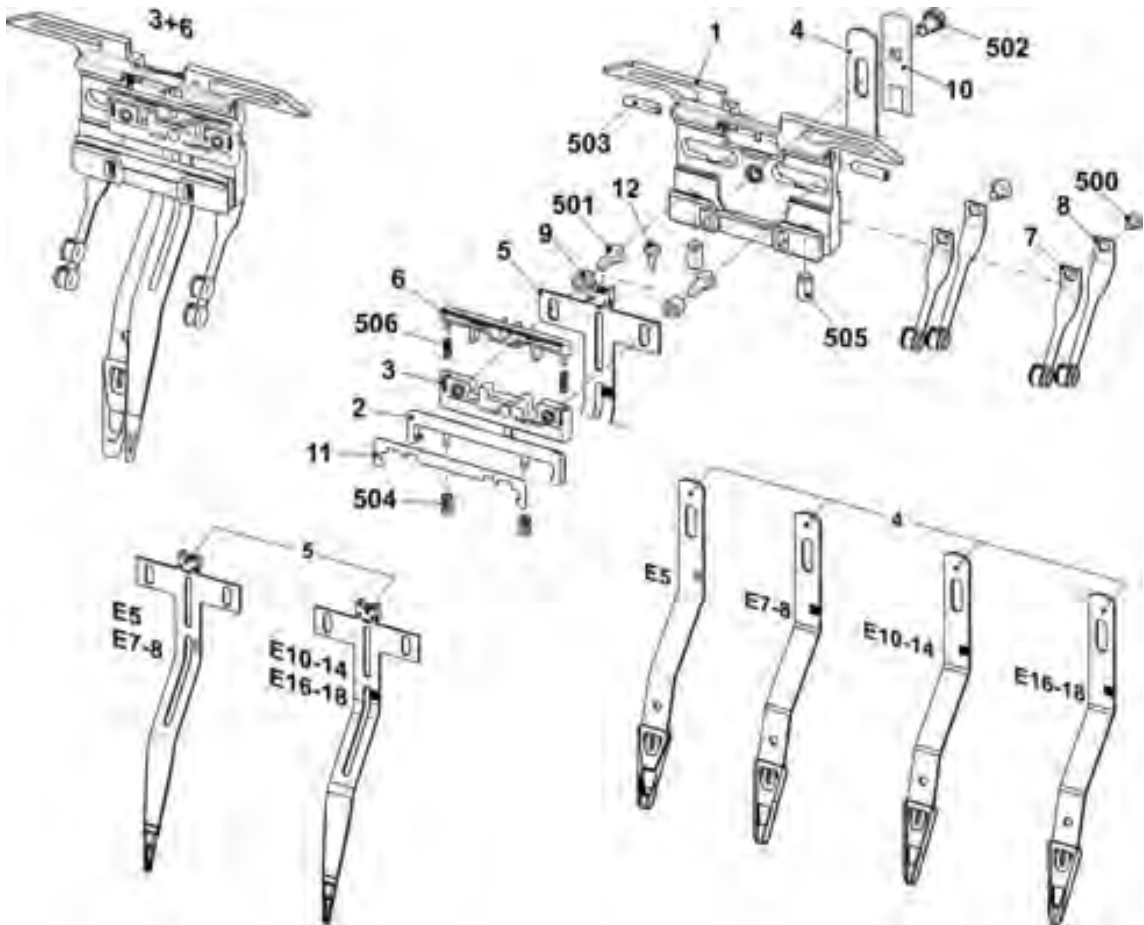
14 Special attachments



14.1 Plating yarn carrier 3+6

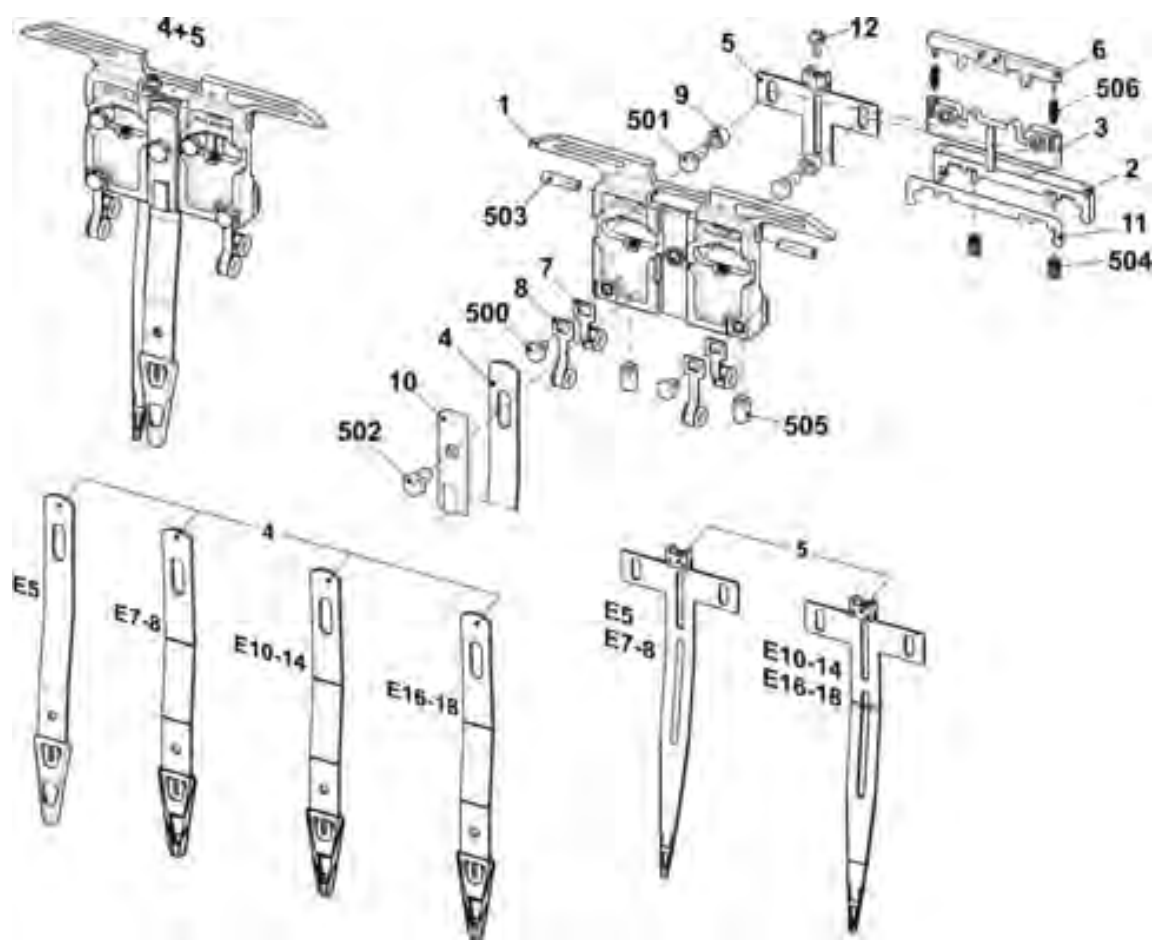
14.1 Plating yarn carrier 3+6

Pos	Designation	Id	Pos	Designation	Id
Σ	Plating yarn carrier carriage 3+6 complete				
	E5 (E3,5.2+E7m.5)	252 782	7	Eyelet holder complete	252 825
	E7 (E6.2)	252 784	8	Eyelet holder complete	252 824
	E10-14 (E6.2(12m.10)+E7.2+E7.2(14/12)	252 786	9	Distance bushing	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 3+6		500	Hexagon screw M4x5	243 779
	E5 (E3,5.2+E7m.5)	252 820	501	Hexagon screw M4x10	020 346
	E7 (E6.2)	252 821	502	Hexagon screw	252 832
	E10-14 (E6.2(12m.10)+E7.2+E7.2(14/12)	252 822	503	Setscrew M4x16	254 196
5	Plating yarn carrier bow 3+6 E5-8	252 800	504	Compression spring	021 399
	Plating yarn carrier bow 3+6 E10-18	252 808	505	Threaded bolt	213 399
6	Sliding piece	252 797	506	Compression spring	253 058



14.2 Plating yarn carrier 4+5

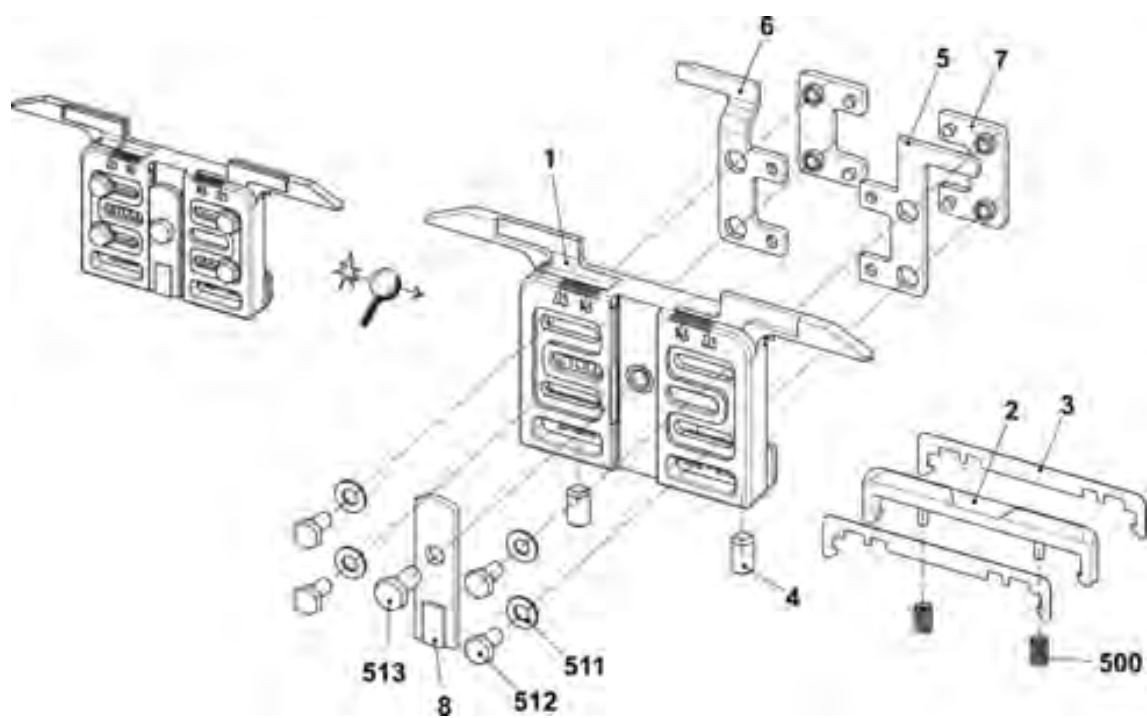
Pos	Designation	Id		Pos	Designation	Id
Σ	Plating yarn carrier carriage 4+5 complete					
	E5(E3,5.2+E7m.5)	252 781		7	Eyelet holder complete	252 815
	E7(6.2)	252 783		8	Eyelet holder complete	252 816
	E10-14(E6.2(12m.10)+E7.2+E7.2(14/12)	252 785		9	Distance bushing	252 796
1	Plating yarn carrier carriage	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 (E3,5.2+E7m.5)	252 790		501	Hexagon screw M4x10	020 346
	E7 (E6.2)	252 791		502	Hexagon screw	252 832
	E10-14 (E6.2(12m.10)+E7.2+E7.2(14/12)	252 792		503	Setscrew M4x16	254 196
5	Plating yarn carrier bow 4+5 E5-8	252 799		504	Compression spring	021 399
	Plating yarn carrier bow 4+5 E10-18	252 807		505	Threaded bolt	213 399
6	Sliding piece	252 797		506	Compression spring	253 058



14.3 Carriage of plating yarn carrier (adjustable)

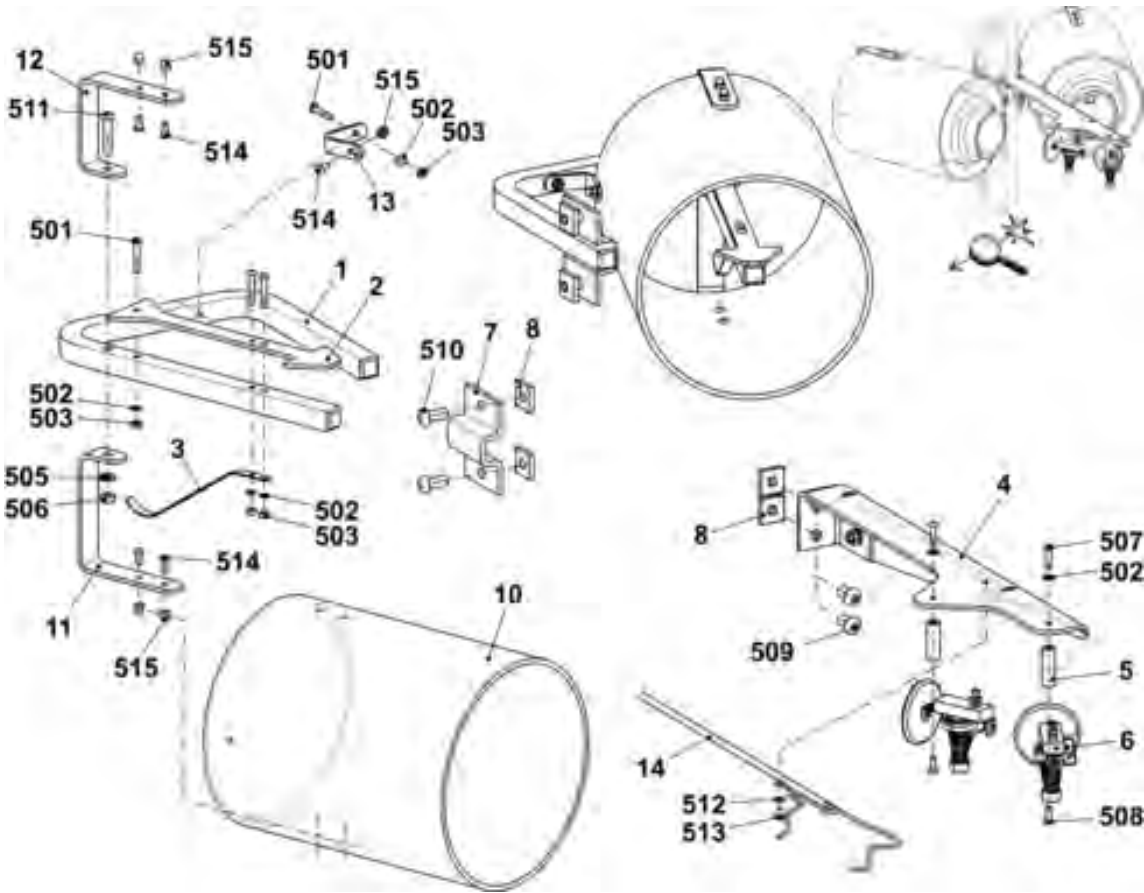
14.3 Carriage of plating yarn carrier (adjustable)

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	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



14.4 Bobbin holder on the right

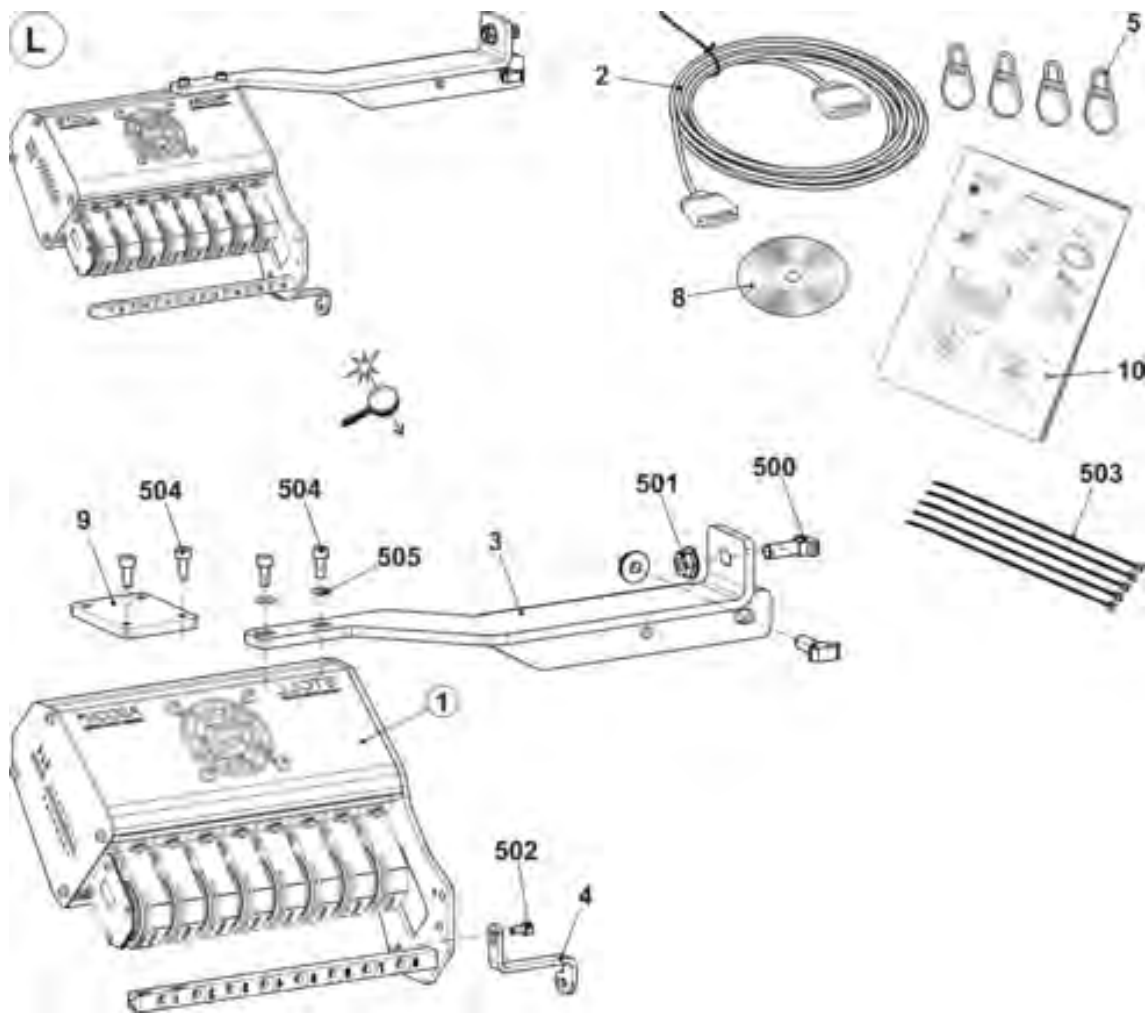
Pos	Designation	ID	Pos	Designation	ID
Σ	Bobbin holder on the right	253 966	501	Pan-head screwM4x25	023 511
1	Support	253 969	502	Washer4	022 481
2	Support	252 769	503	Hexagon nut M4-6	022 536
3	Leaf spring	253 350	505	Washer6	022 431
4	Support right	253 348	506	Hexagon nut M6-6	022 899
5	Spacer	253 349	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



14.5 Yarn length measuring device on the left complete

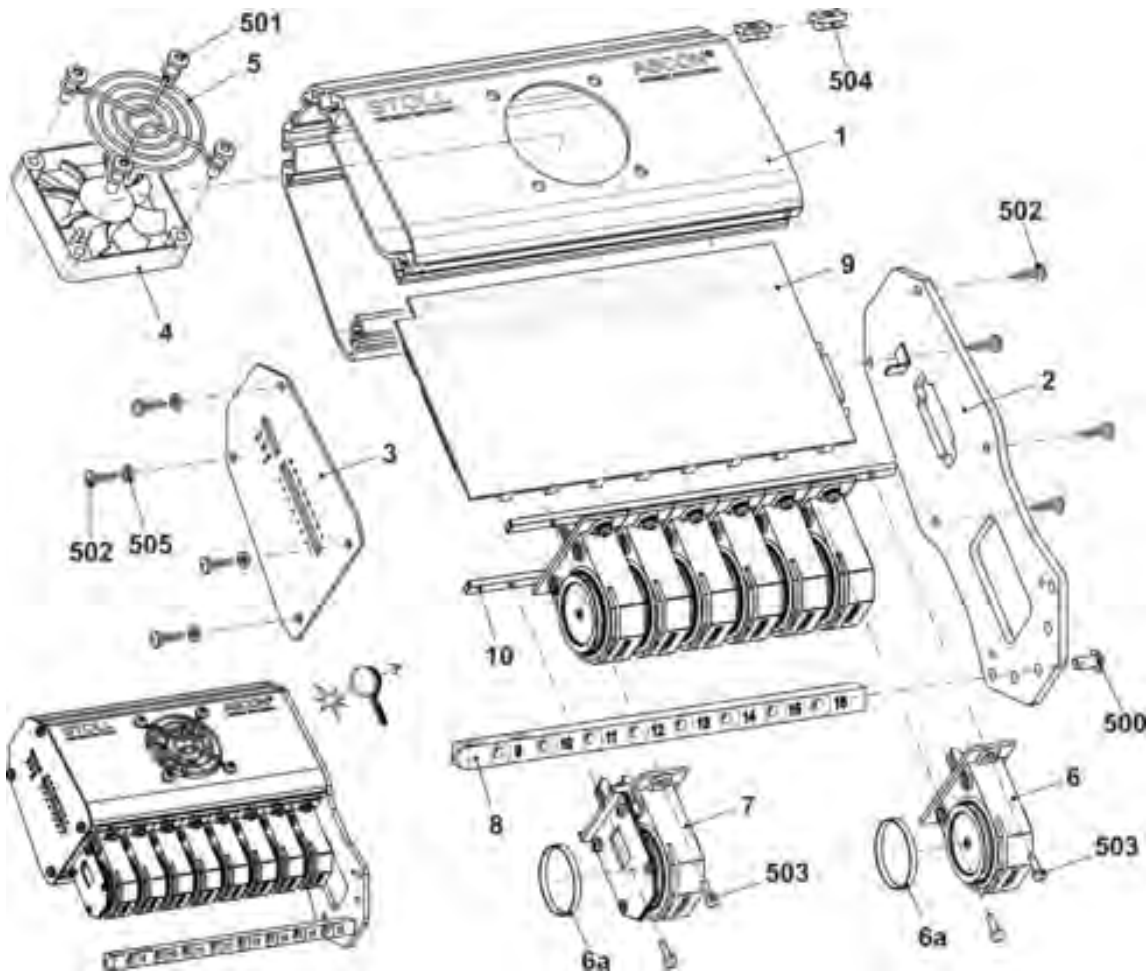
14.5 Yarn length measuring device on the left complete

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



14.5.1 Yarn length measuring device

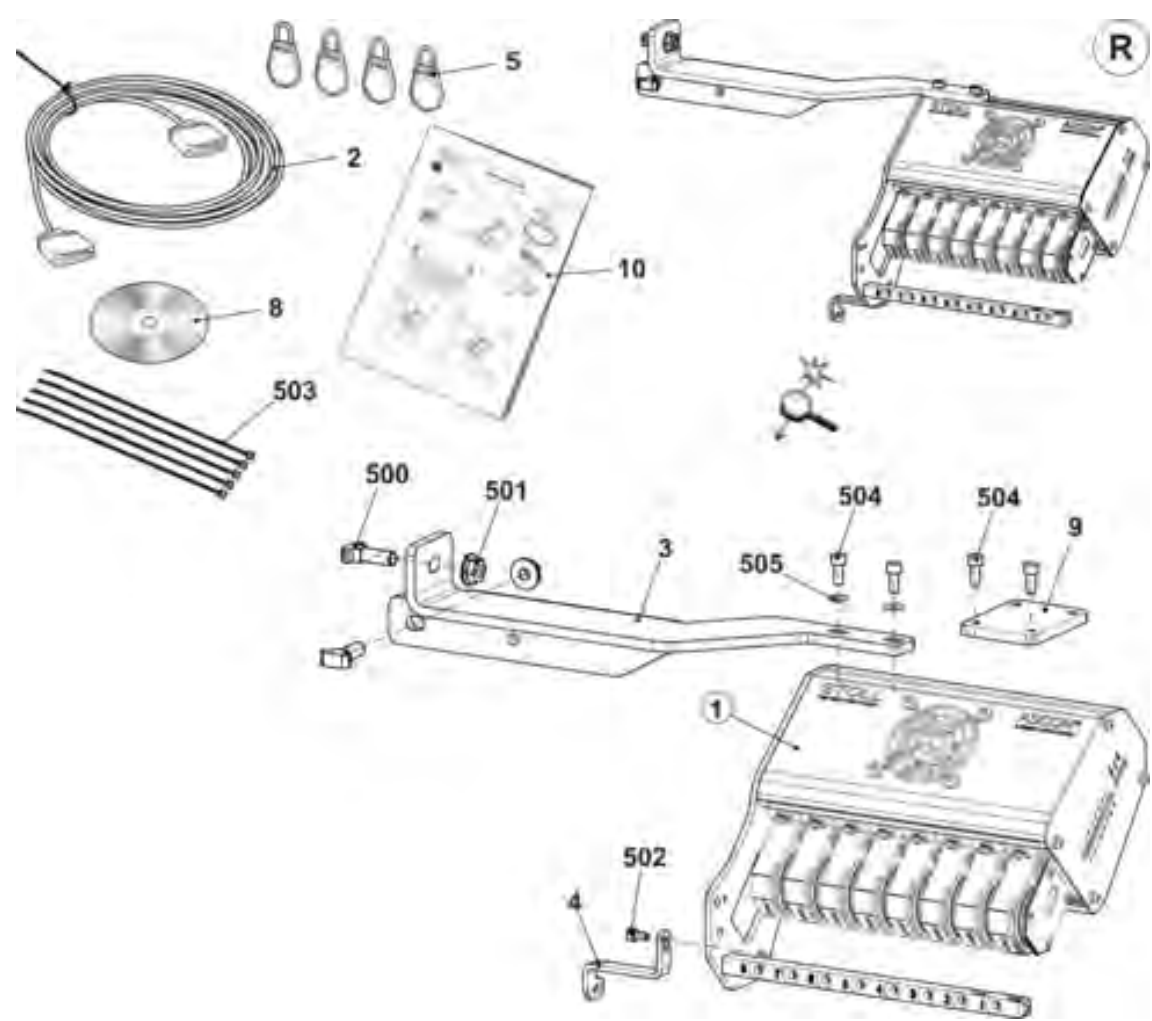
Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn length measuring device on the left complete	257 283		8	Yarn guide rod	257 139
1	Housing	257 281		9	Card Ascon	255 000
2	Support	257 278		10	Threaded strip	257 138
3	Cover	257 273		500	Pan-head screw M5x10	023 247
4	Fan with plug	257 048		501	Screw 50x15	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



14.6 Yarn length measuring device on the right complete

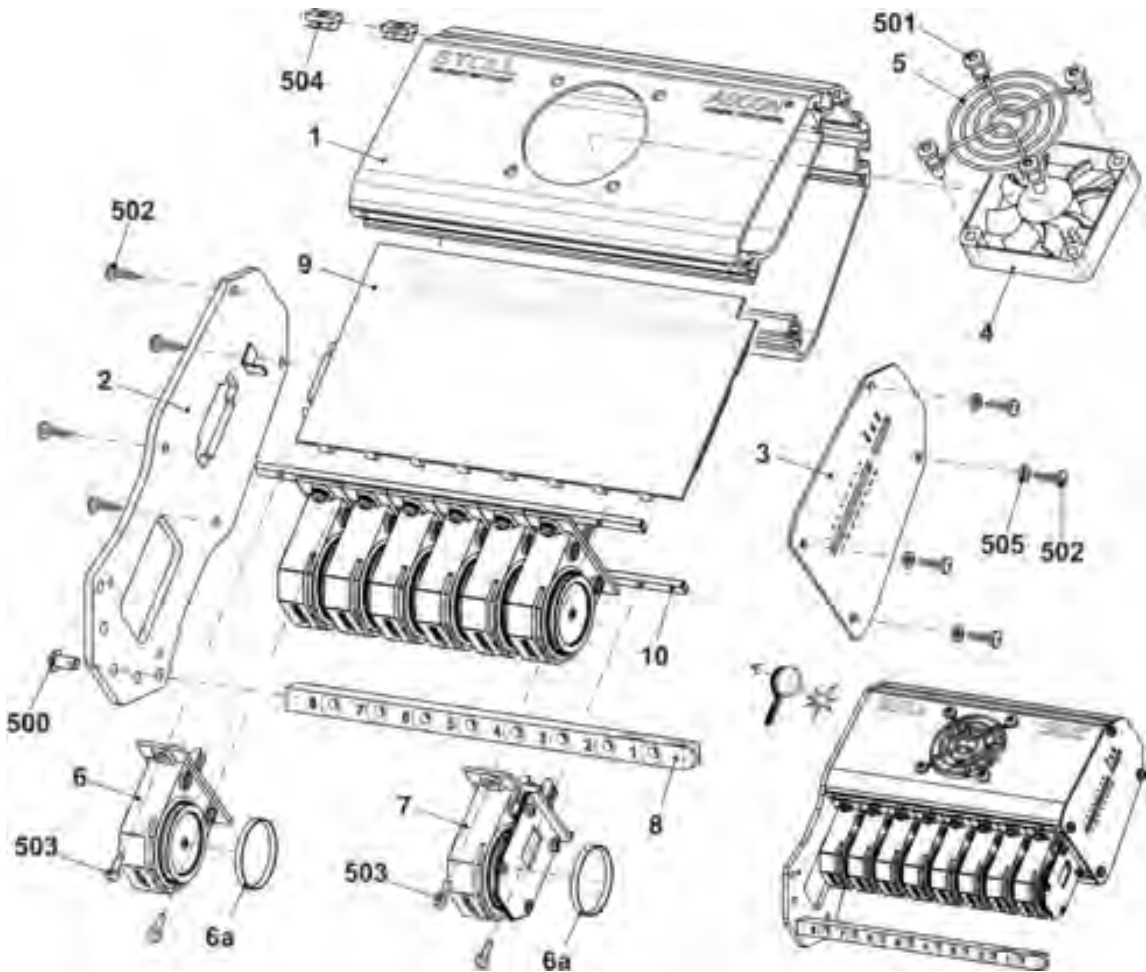
14.6 Yarn length measuring device on the right complete

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



14.6.1 Yarn length measuring device on the right

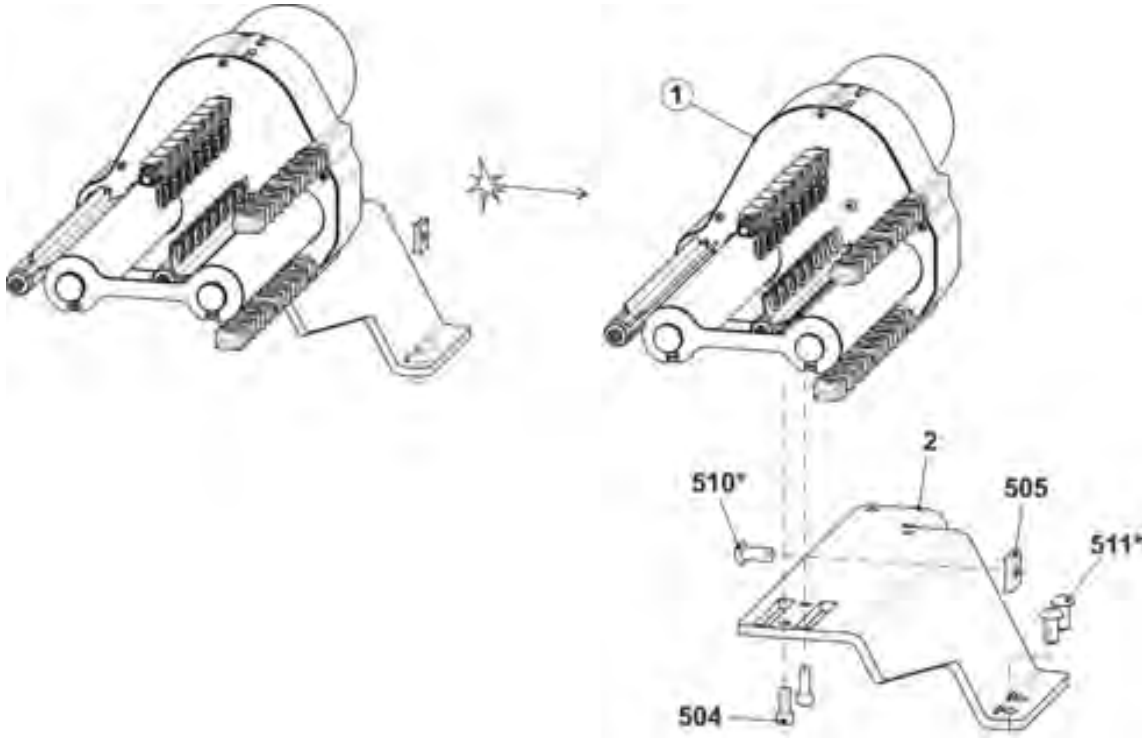
Pos	Designation		Id		Pos	Designation		Id
Σ	Yarn length measuring device on the right complete		257 282		8	Yarn guide rod		257 139
1	Housing		257 281		9	Card Ascon		255 000
2	Support		257 278		10	Threaded strip		257 138
3	Cover		257 273		500	Pan-head screw M5x10		023 247
4	Fan with plug		257 048		501	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



14.7 Friction feed wheel on the left

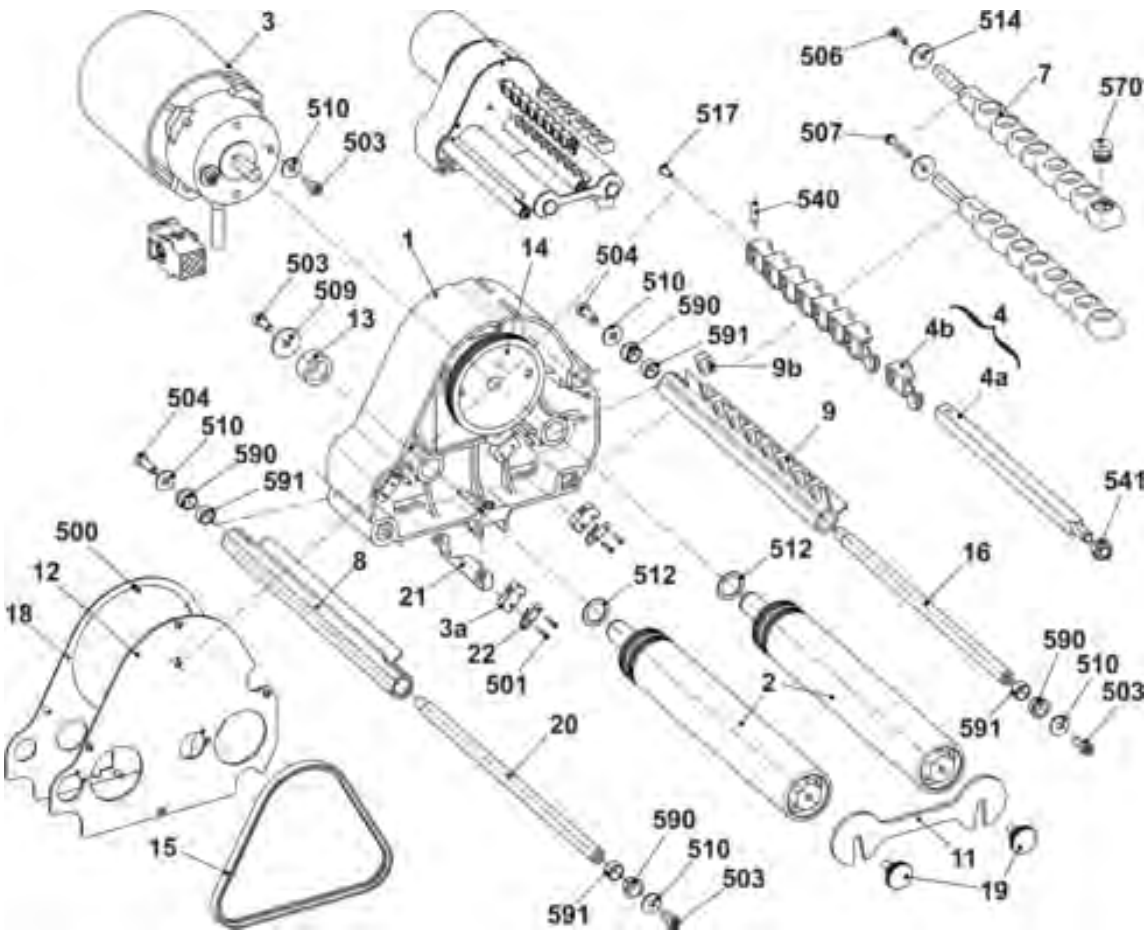
14.7 Friction feed wheel on the left

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



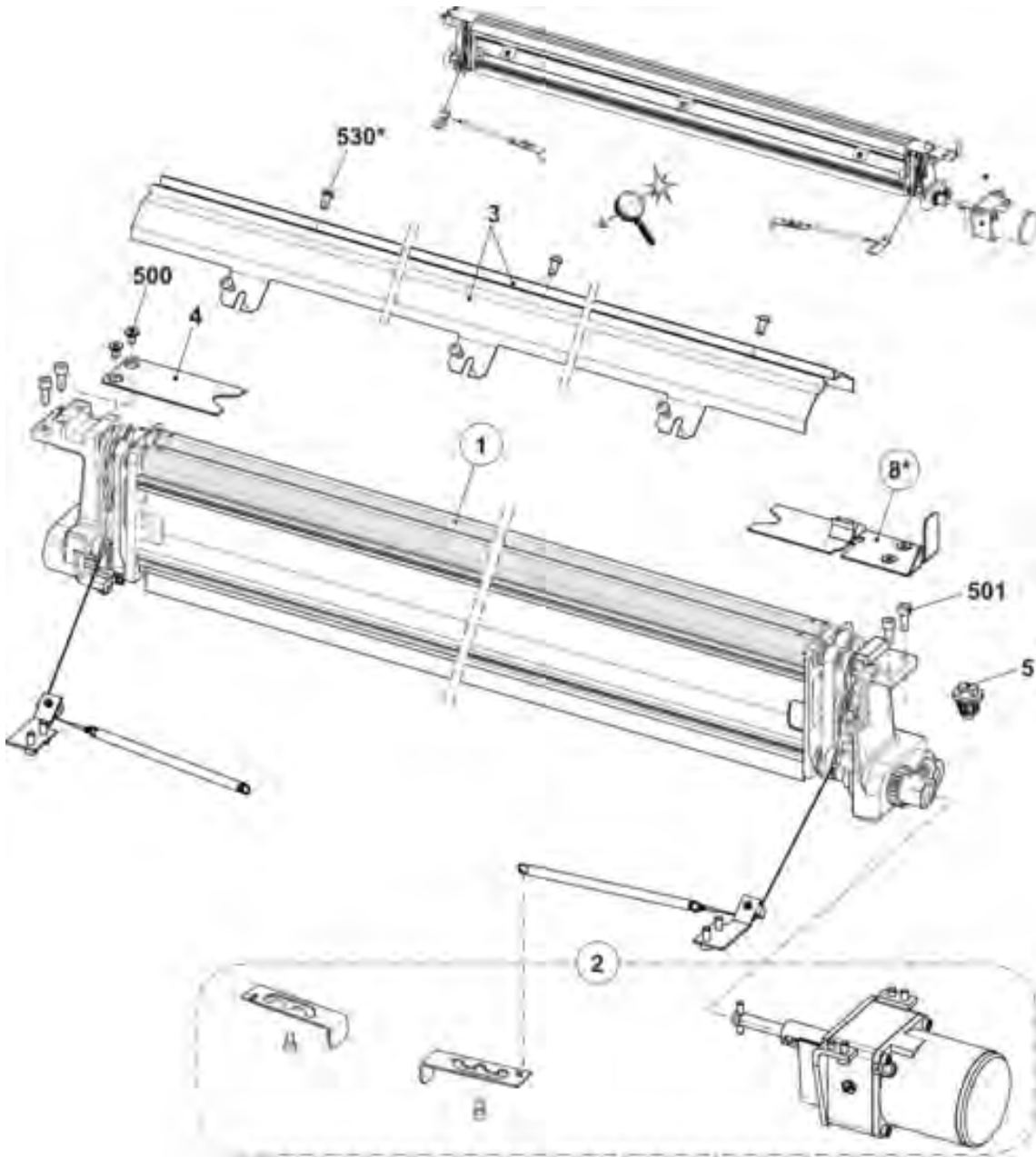
14.7.1 Left friction feed wheel

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 screwM5x12		020 132
	570	Eyelet 8	021 504	504	Cap screwM5x16		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 screwM4x8		023 579
13	Bush		221 391				



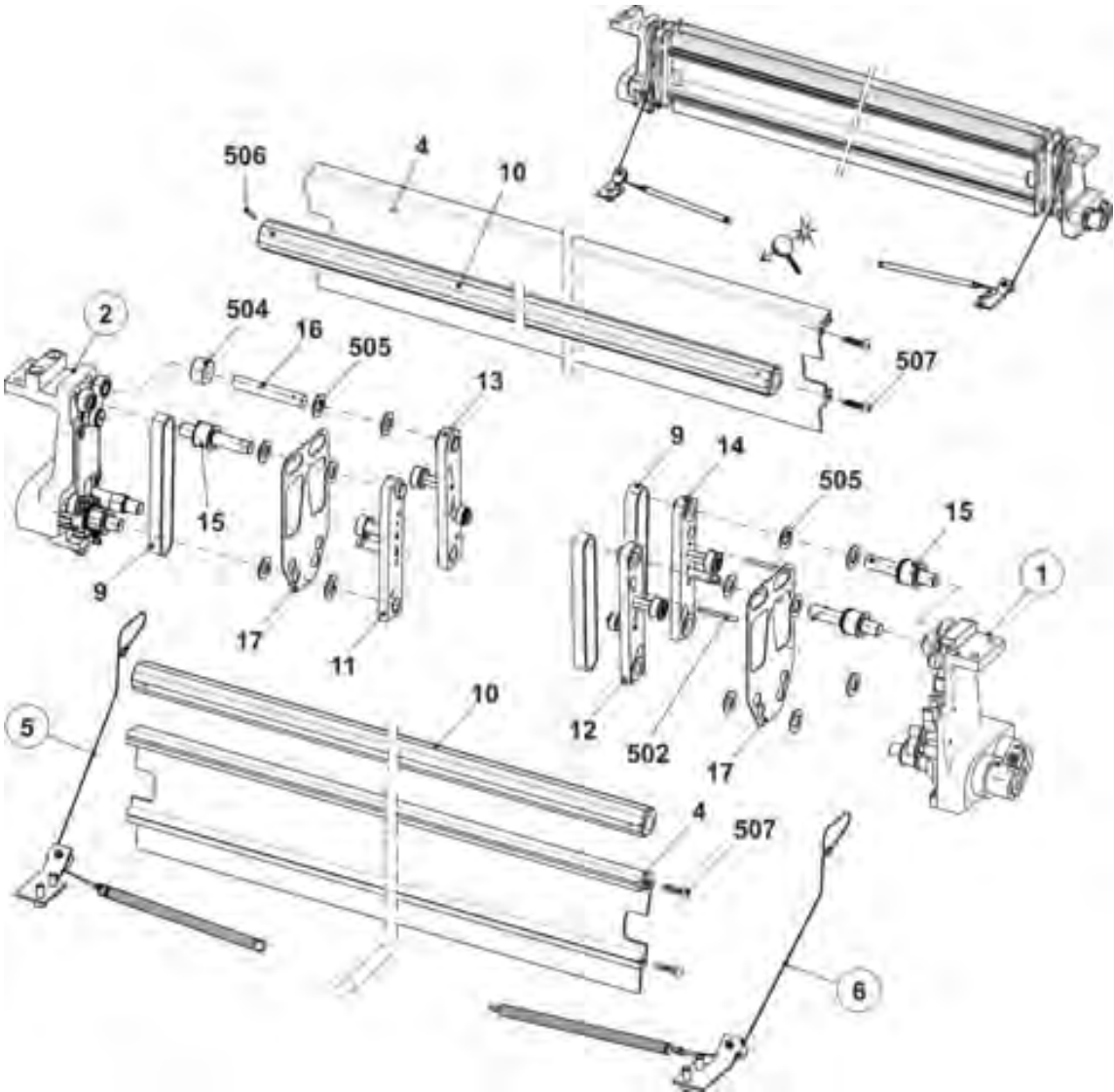
14.8 Additional take-down, Retrofit kit

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



14.8.1 Auxiliary take-down pre-assembled

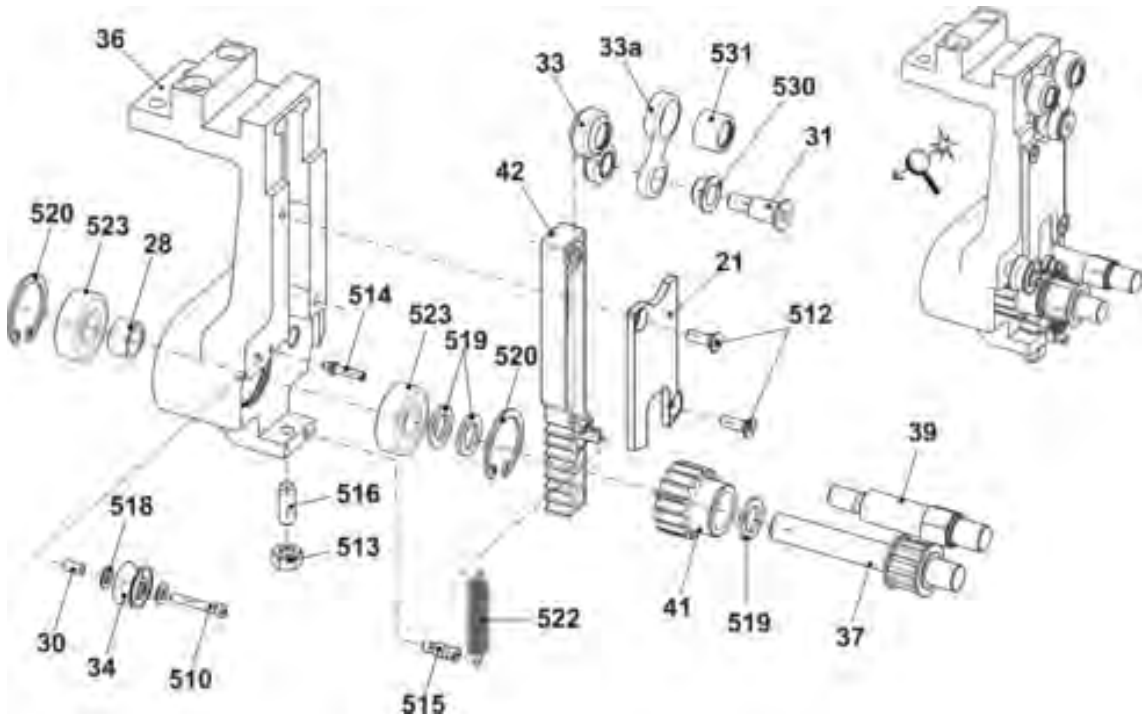
Pos	Designation	Id		Pos	Designation	Id
Σ	Auxiliary take-down pre-assembled	257 008				
1	Bearing on the right complete	239 996		14	Lever at the rear on the right	227 260
2	Bearing on the left complete	239 999		15	Toothed belt pulley complete	226 708
4	Guide plate	256 878		16	Bolts	227 914
5	Metal angle 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



14.8 Additional take-down, Retrofit kit

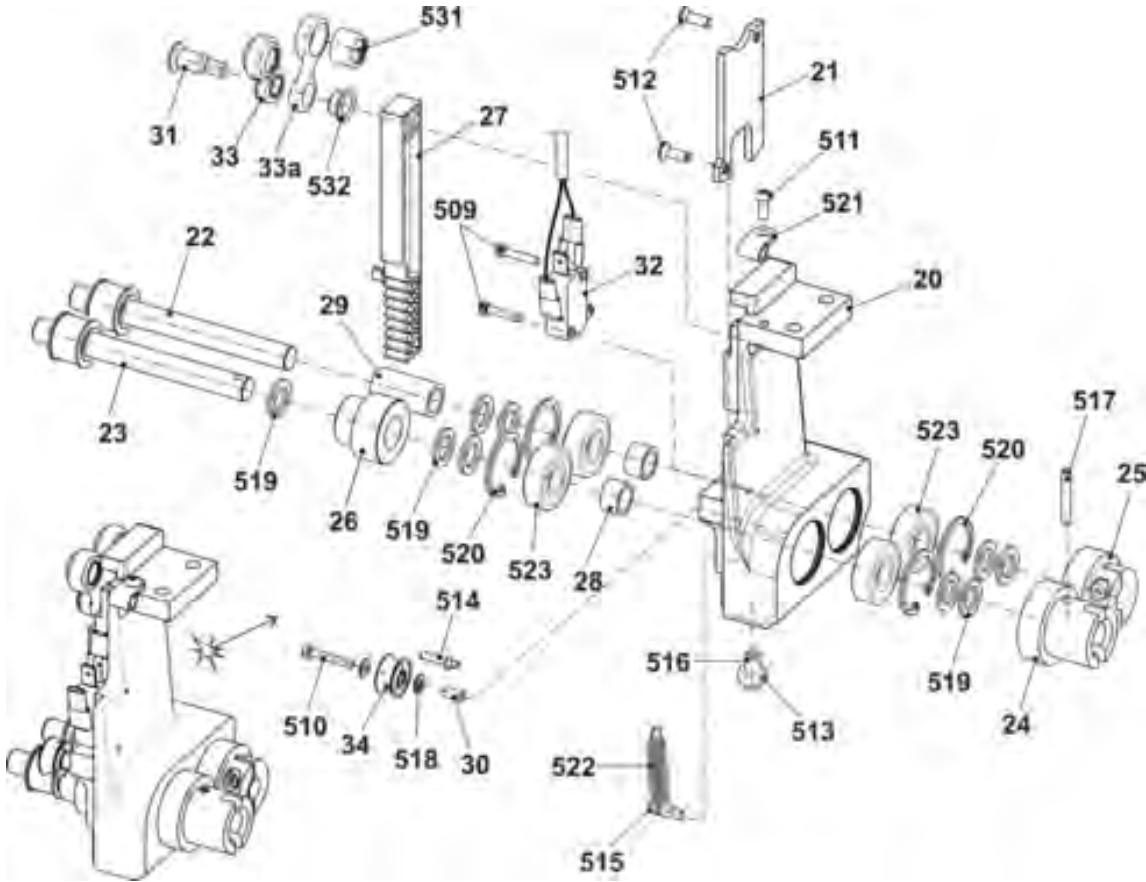
14.8.1.1 Left bearing of the auxiliary take-down

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



14.8.1.2 Right bearing of the auxiliary take-down

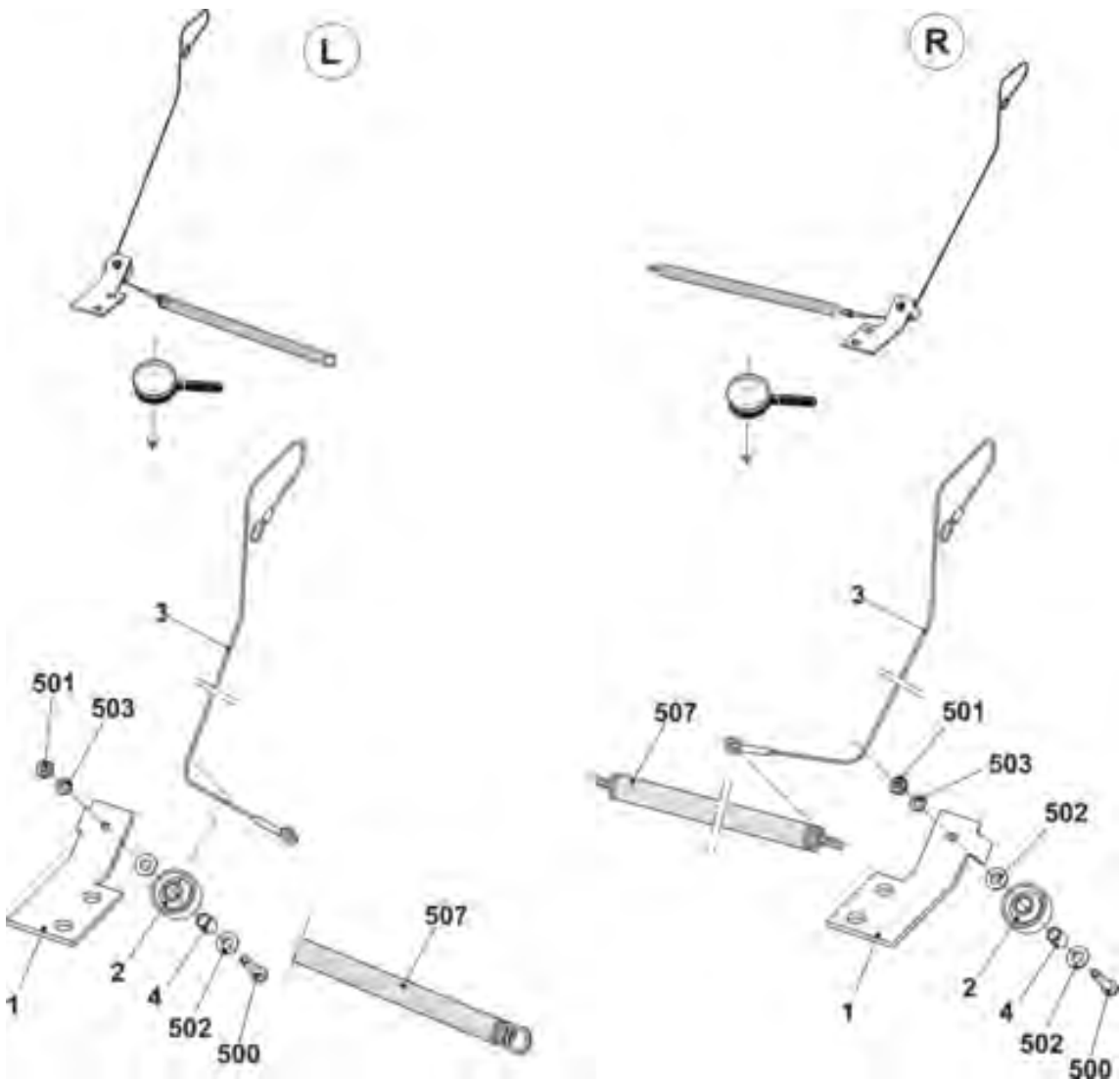
Pos	Designation		Id	Pos	Designation		Id
Σ	Bearing on the right complete			532	Slide bearing GFM-081014-06		023 358
20	Bearing block on the right		258 913	34	Roller deflector		218 805
21	Cover		257 466	500	Cap screw M3x16		022 560
22	Drive shaft complete		227 857	510	Cap screw M3x20		022 448
23	Drive 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



14.8 Additional take-down, Retrofit kit

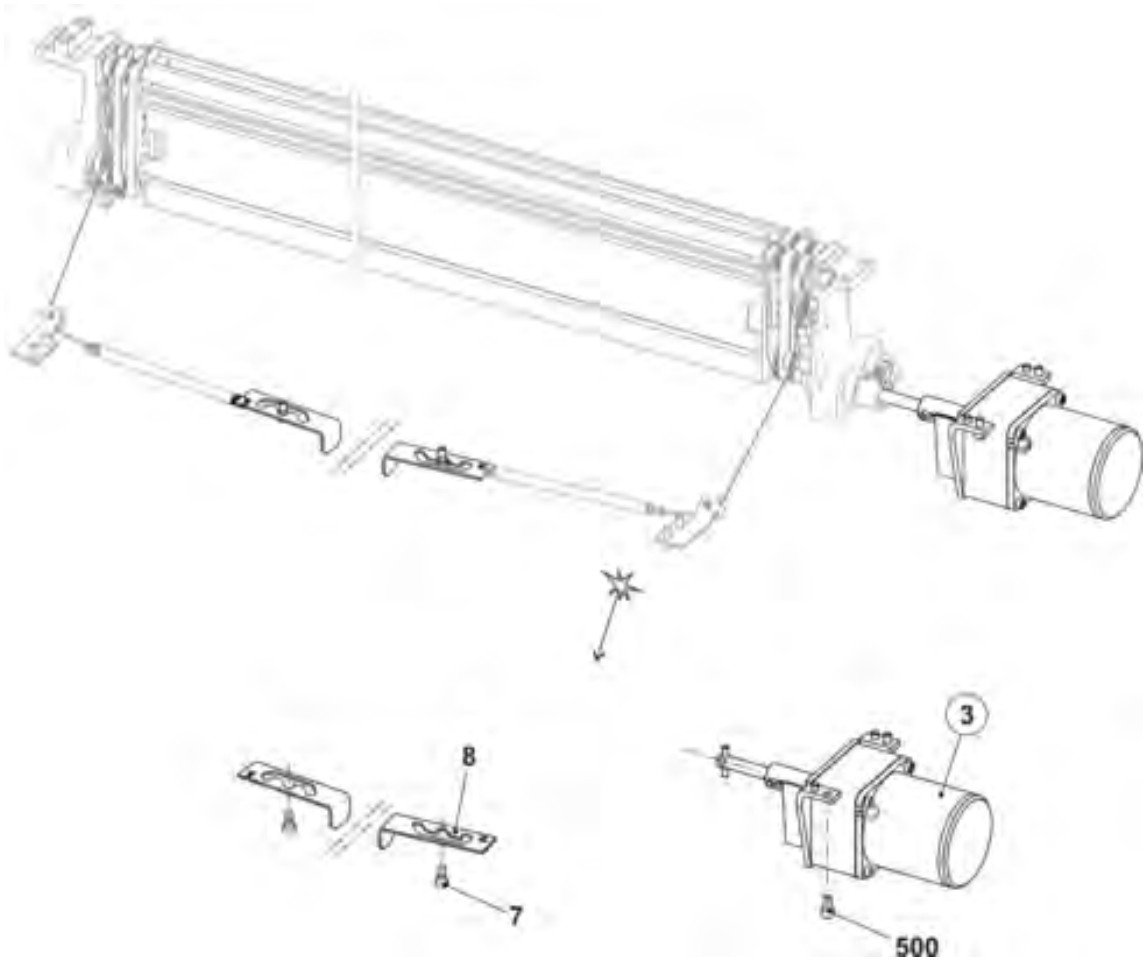
14.8.1.3 Metal angle on the left and right complete

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



14.8.2 Auxiliary take-down in the middle

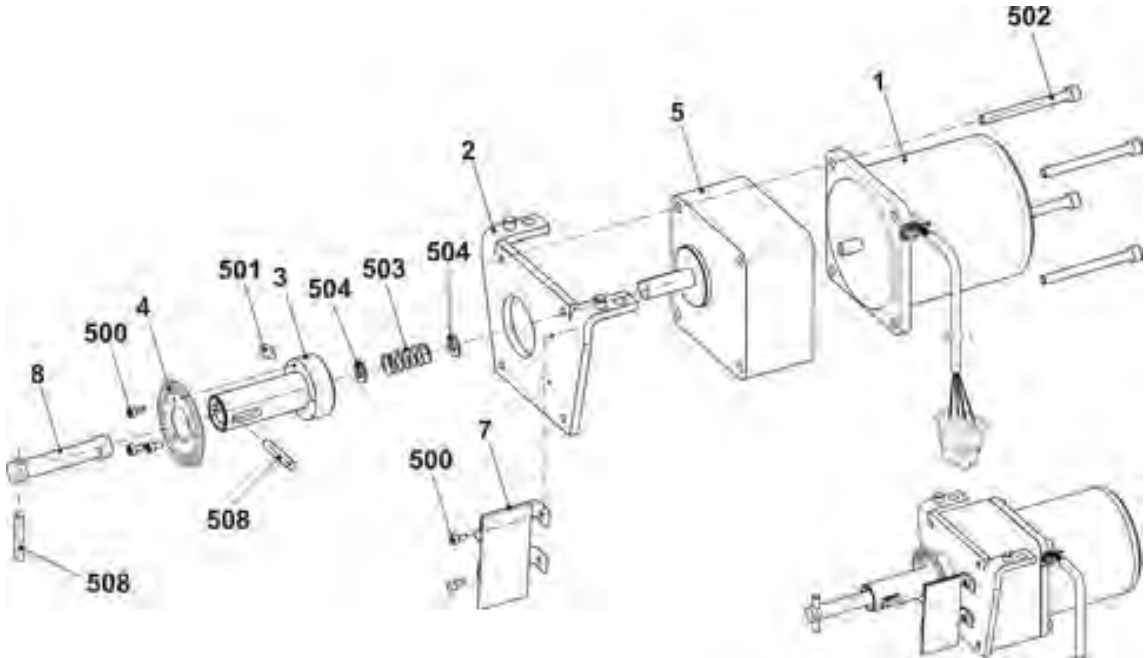
Pos	Designation	Id		Pos	Designation	Id
Σ	Auxiliary take-down in the middle	254 062				
3	Take-down motor complete auxiliary take-down	214 449		8	Detent plate	222 040
7	Shoulder screw	207 101		500	Cap screwM6x12	020 134



14.8 Additional take-down, Retrofit kit

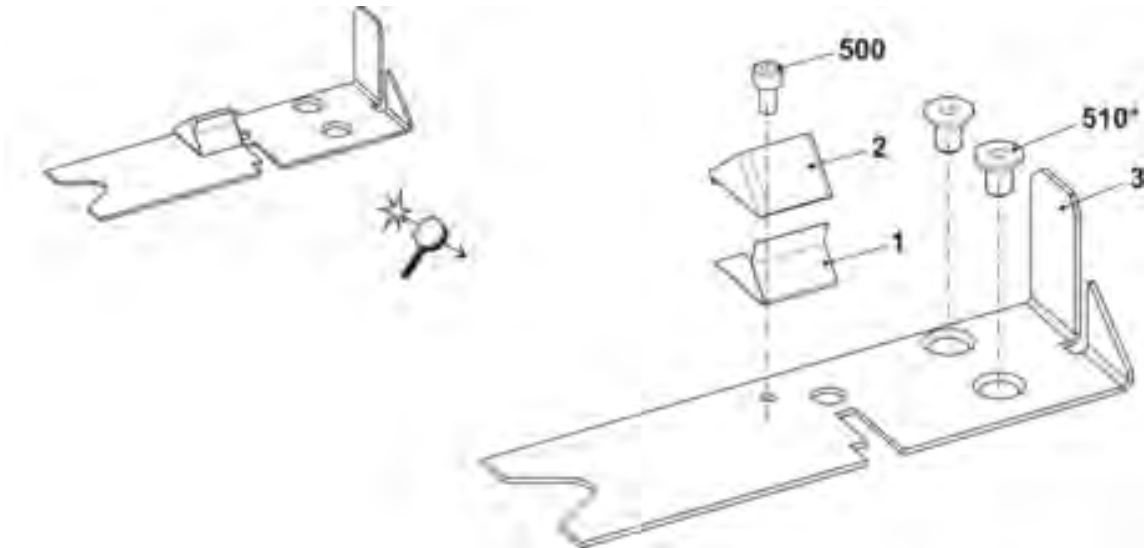
14.8.2.1 Motor

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



14.8.3 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



14.9 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

