

Spare-parts catalog

CMS 502 (Type 626)

Component type 000

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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Notes for the order

This catalog serves to order spare parts.

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

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

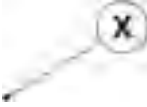
1. Type of machine, gauge, no. of machine.
2. Page no., designation, ID, quantity.

Please use the order form!

Only genuine STOLL spare parts may be used for repairs.

1.2 Search help

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

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

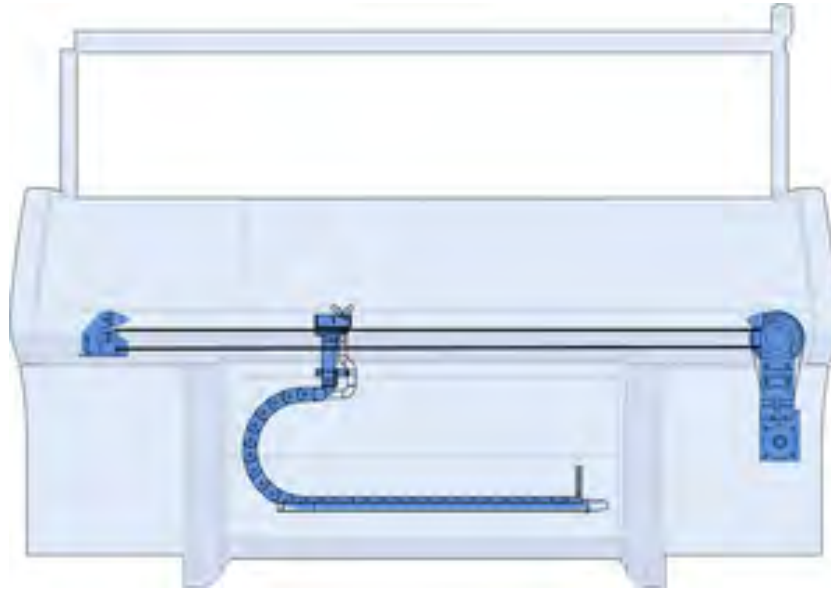
1.3 Torques

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

Preferential row of screw torques

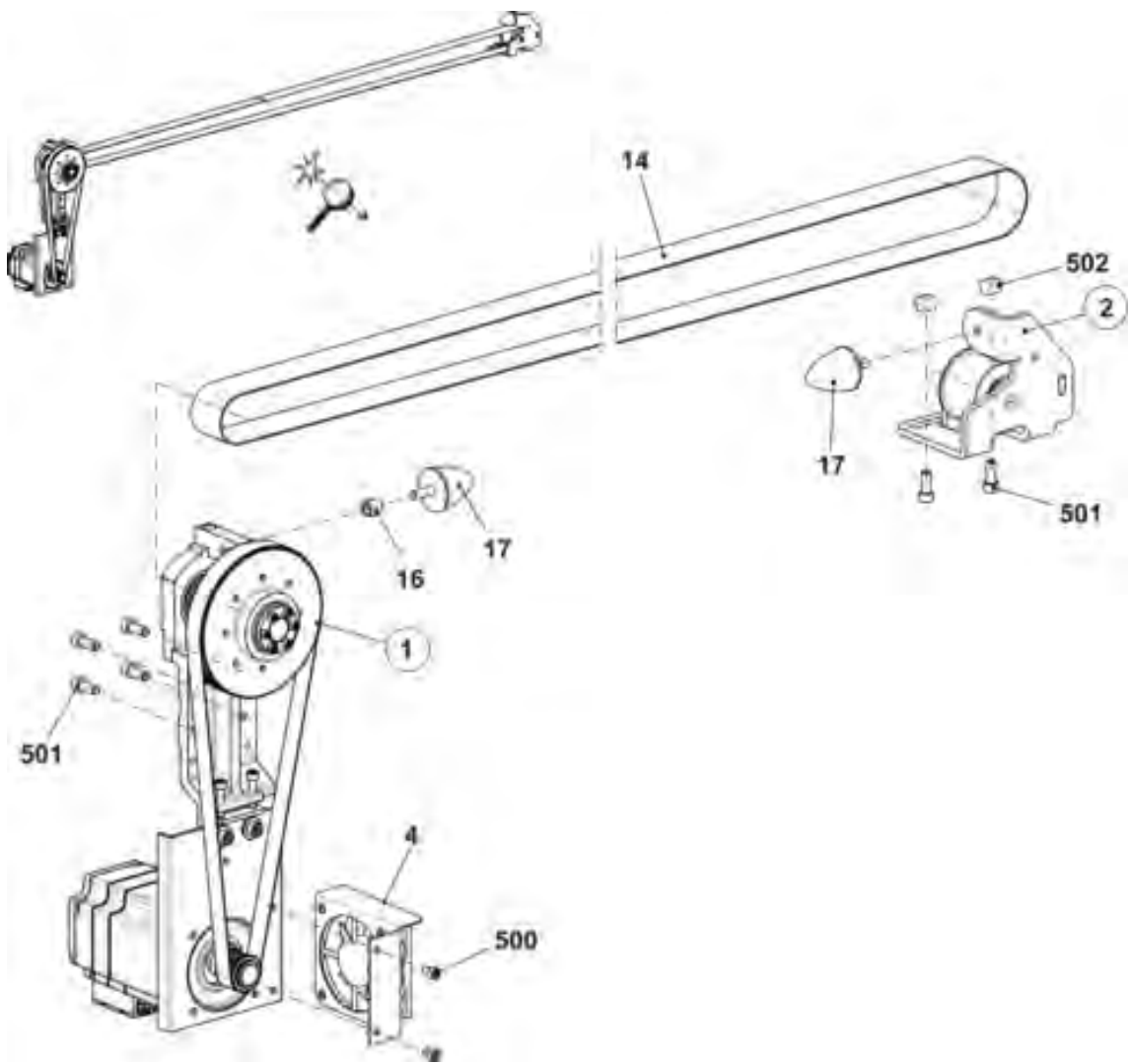
- Torques are valid for:
Connection steel-steel, black, phosphatized, galvanized, rolled or cut thread as well as only for plain (head) supports.
- Torques are valid for:
protected screws with: lock washers, rib heads, coated and clamping screws and nuts. They are also not used for self-grooving threads.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

2 Carriage drive



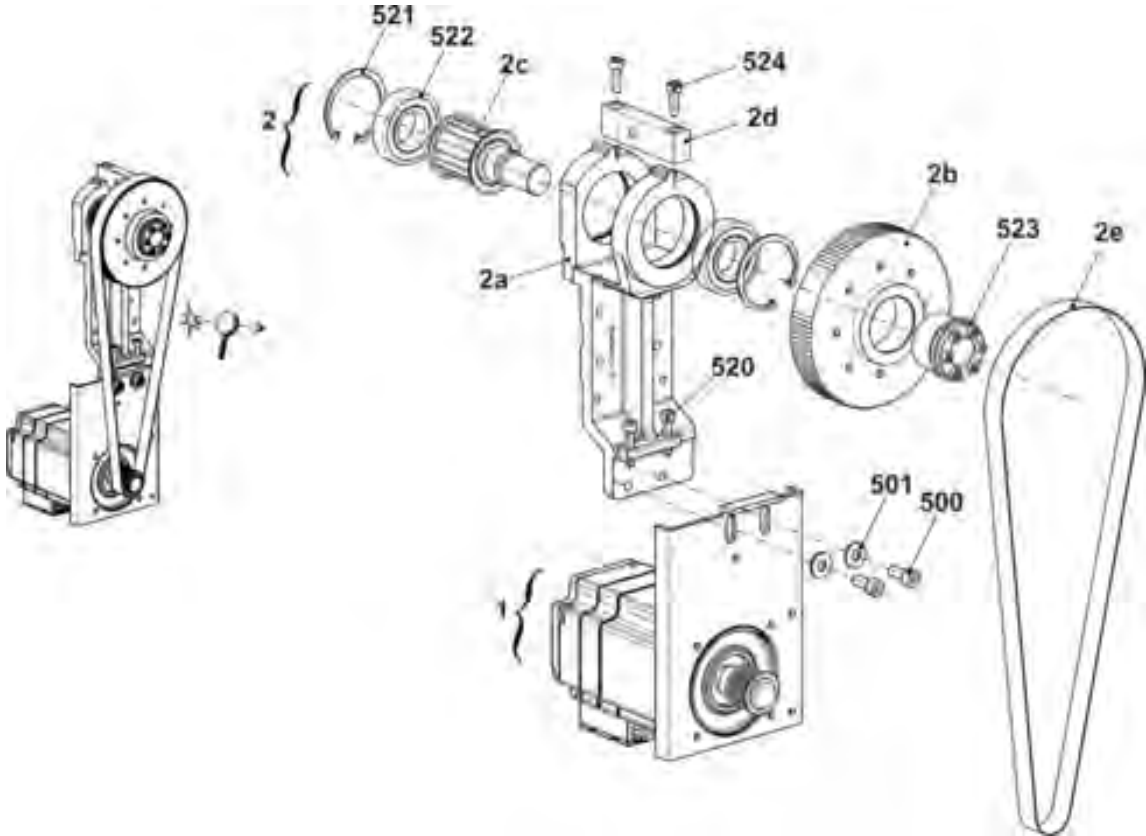
2.1 Drive

Pos	Designation	Id		Pos	Designation	Id
Σ	Drive unit			17	Parabolic spring	200 661
11	Drive unit complete	251 608		23	Ventilator complete	253 692
12	Tension bearing complete	251 581		500	Cap screwM8x12	023 138
14	Toothed belt50AT10/4170 HP	251 607		501	Cap screwM10x25	020 157
16	Distance pipe	222 099		502	NutM10x12	023 471



2.1.1 Motor and belt drive

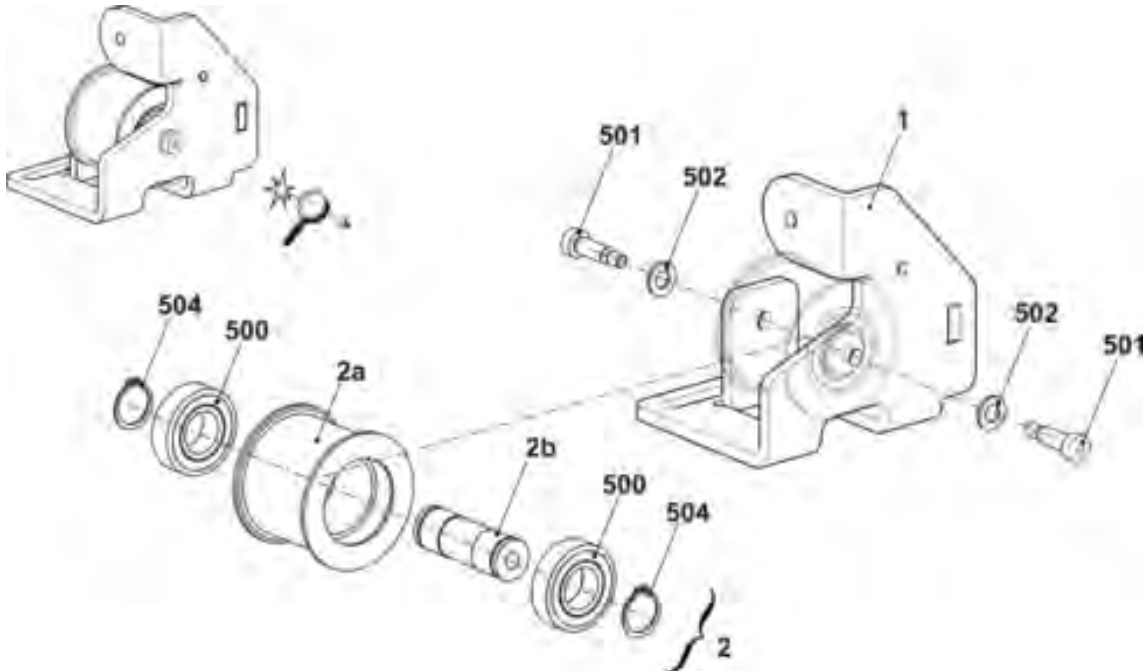
Pos	Designation	Id		Pos	Designation	Id
Σ	Drive unit complete	251 608				
1	Drive unit	258 189		2d	Support of buffer	222 100
500	Cap screwM10X25	020 157		2e	Toothed belt	252 594
501	Disk10,5X25X2,5	022 178		520	Cap screwM8X35	020 144
2	Drive bearing	251 609		521	Locking ring68x2.5	022 914
	2a	Drive bearing		522	Grooved ball bearing 6207-2RS	022 915
	2b	Toothed belt pulley		523	Tension set 30X55	023 208
	2c	Pinion57 AT10 18		524	Cap screwM8X25 12.9	020 142



2.1 Drive

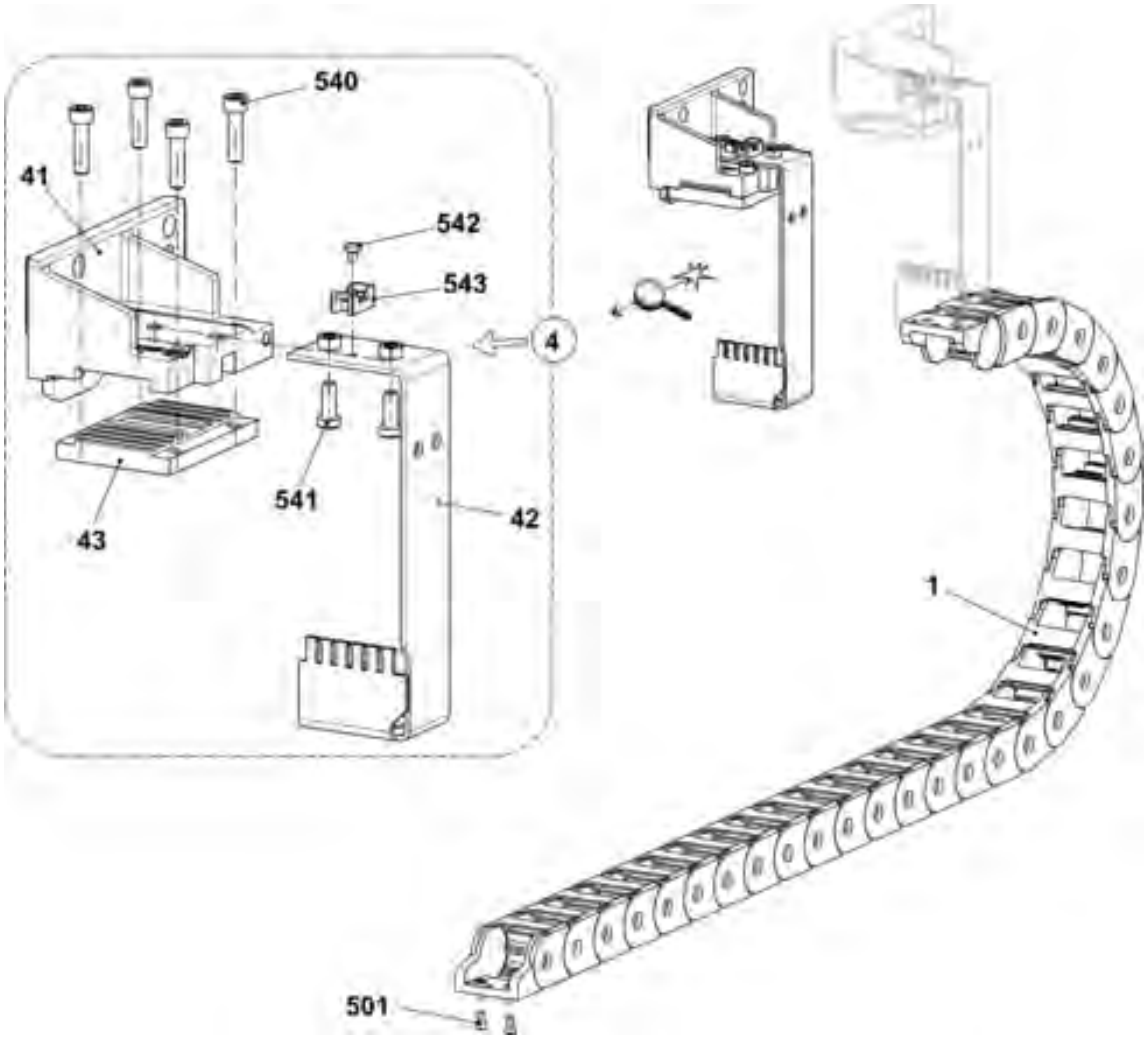
2.1.2 Tension bearing

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



2.2 Energy chain and plunger

Pos	Designation	Id		Pos	Designation	Id
1	Energy chain 28 links	253 896		4	Continuation carriage driver complete	
501	Cap screw M8x25	023 411		540	Cap screw M8x30	020 143
4	Carriage driver complete	252 681		541	Cap screw M8x20	023 621
	41	Carriage driver		542	Countersunk screw M5x6	023 284
	42	Cable driver		543	Fixing element	026 489
	43	Clamping plate				



2.2 Energy chain and plunger

Notes:

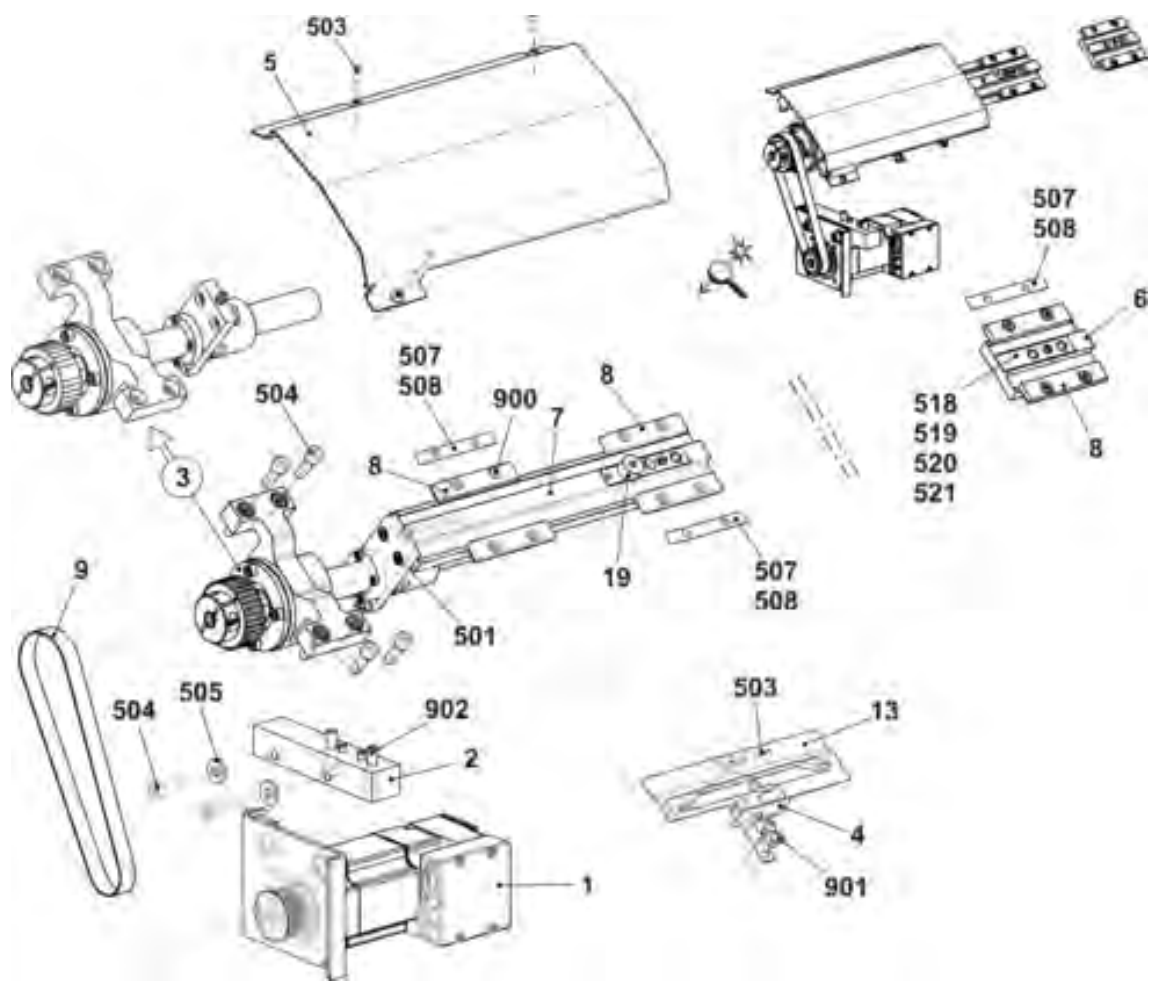
3 Racking



3.1 Racking drive

3.1 Racking drive

Pos	Designation	Id	Pos	Designation	Id
Σ	Racking				
1	Three-phase A.C. servo motor racking complete	258 195	503	Countersunk screwM6x10	023 183
2	Bearing	257 403	504	Cap screwM8x25	020 142
3	Spindle bearing	253 262	505	U-washer8,4X20X3	022 175
4	Card racking limit switch	229 396	507	Shim 0,03x11x80	023 286
5	Racking cover plate	256 858	508	Shim 0,05x11x80	023 287
6	Racking strip on the left	240 696	518	Shim 0,03x15x75	023 395
7	Racking strip	256 857	519	Shim 0,05x15x75	023 396
8	Guide strip	206 382	520	Shim 0,1x15x75	023 397
9	Toothed belt150 S 5M 490	229 281	521	Shim 0,2x15x75	023 398
13	Switch plate	240 722	900	Cap screwM6x12	022 795
19	Stop screw	221 386	901	Countersunk screwM6x10	023 183
501	Cap screwM6x16	023 116	902	Cap screwM8x30	020 143



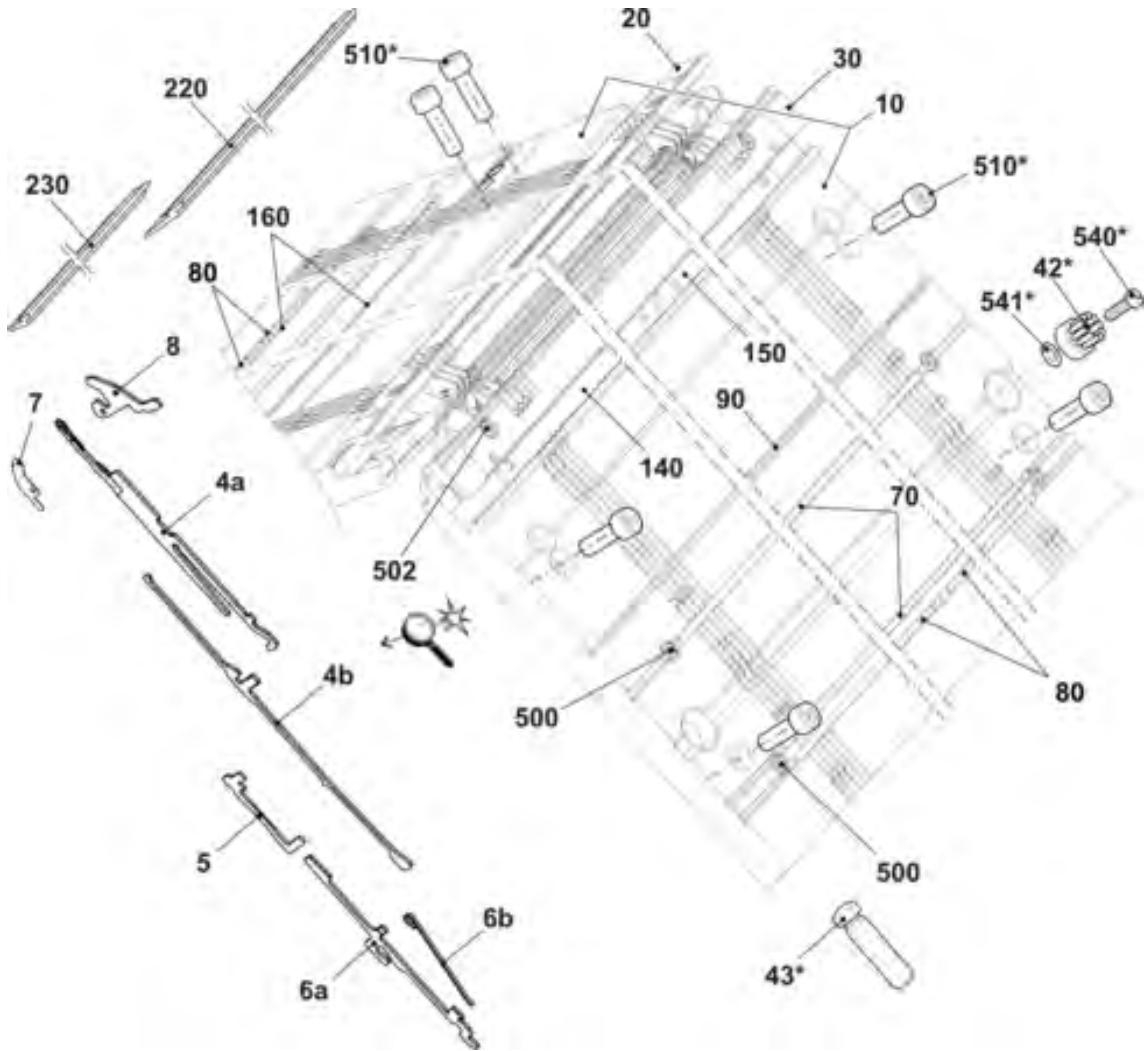
4 Needle beds



4.1 Needle bed E5

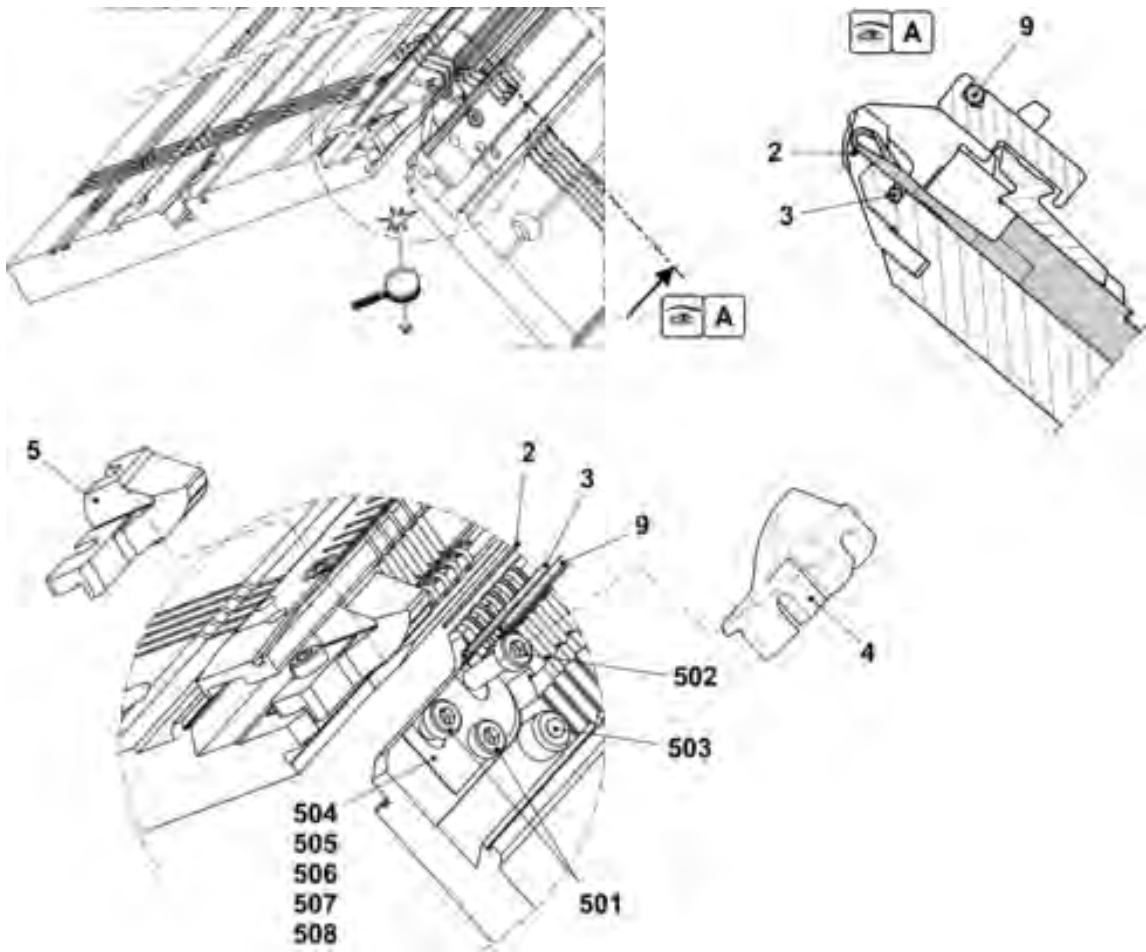
4.1 Needle bed E5

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E5	252 665		90	Fixed wire D=2.8	207 270
4a	Needle E7 with round hook	205 396		140	Needle rail on the left	237 835
4b	Coupling part E10-12	200 682		150	Needle rail on the right	237 836
5	Intermediate slider E5 – E8	237 323		160	Cover rail at the rear	250 572
6a	Selection jack E4 - E8	200 687		220	Needle rail on the left	253 908
6b	Selector spring E4 – E8	200 690		230	Needle rail on the right	253 910
7	Knock-over bit E5	204 996		500	Cap screw M5X10	022 918
8	Holding-down jack E5	205 031		502	Cap screw M5X22	023 193
10	Needle bed at the front and rear E5	251 619		510*	Cap screw M8x25	020 142
20	Holding-down jack bed at the rear E5	250 537		42*	Disk brush	202 600
30	Holding-down jack bed at the front E5	250 536		540*	Cap screw M8x25	020 032
70	Cover rail at the front E5	250 575		541*	Adjusting washer P6x0,3	023 540
80	Cover rail	250 576		43*	Adjusting bolt	251 772



4.1.1 Continuation needle bed E5

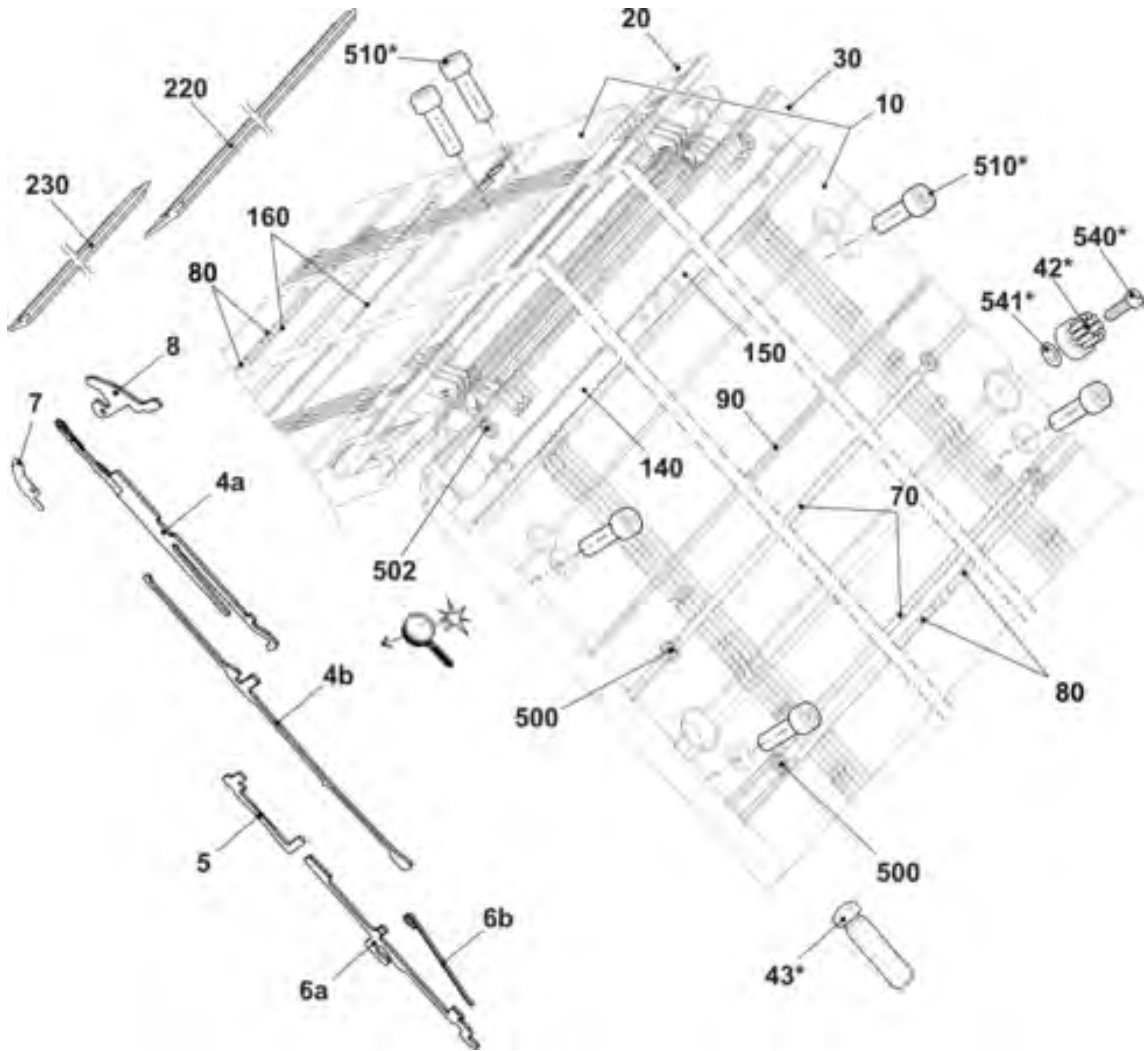
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E5	252 665		502	Cap screw M5X22	023 193
2	Spring steel wire ø0.8	207 482		503	Sprung thrust piece	023 177
3	Spring steel wire ø2,0	207 269		504	Shim 0.02x18.5x34	023 194
4	Limiter on the left E4-E8	205 343		505	Shim 0.03x18.5x34	023 195
5	Limiter on the right E4-8	205 344		506	Shim 0.05x18.5x34	023 196
9	Fixed wire ø3.4	207 270		507	Shim 0.02x18.5x34	023 197
501	Cap screw M5x8	023 154		508	Shim 0.2x18.5x34	023 253



4.2 Needle bed E7

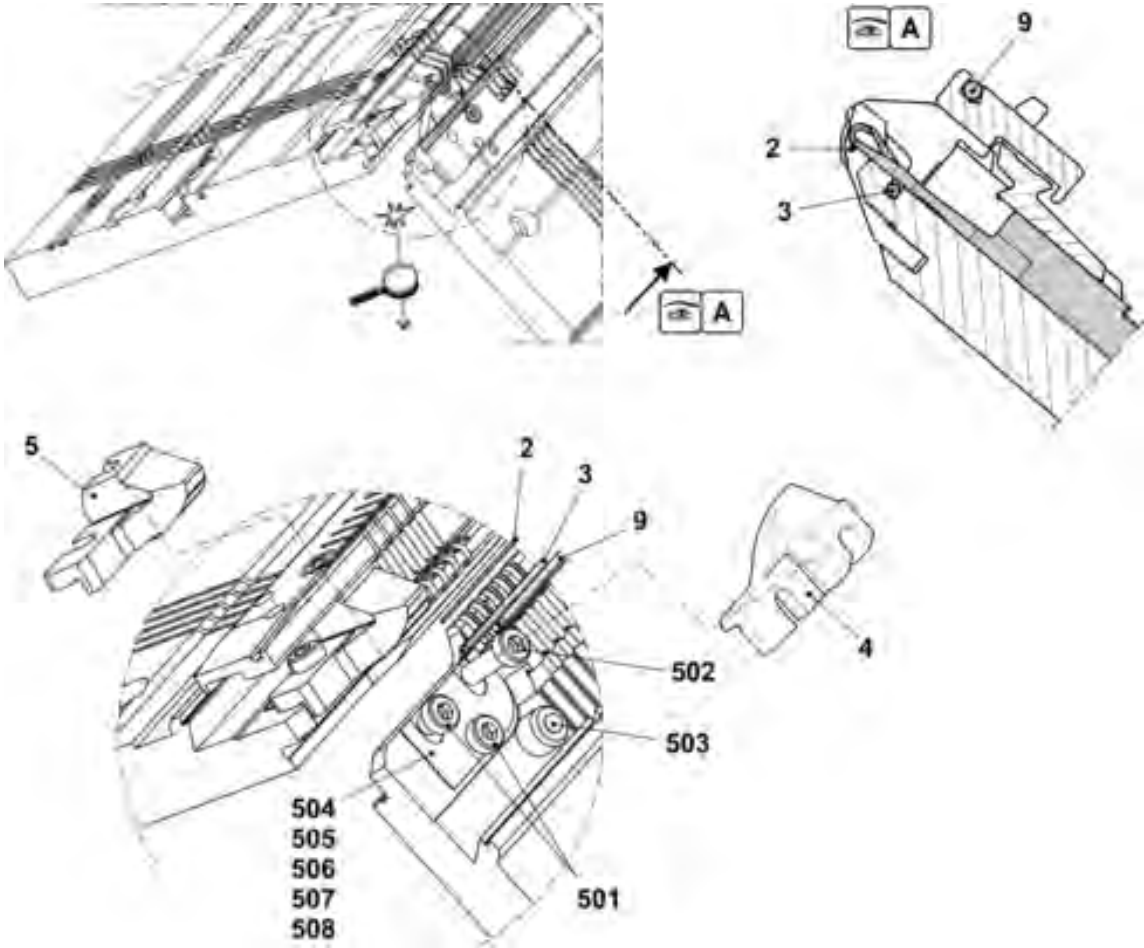
4.2 Needle bed E7

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7	252 667		90	Fixed wire ø3.4	207 270
4a	Needle E7 with round hook	205 397		140	Needle rail on the left	237 835
4b	Coupling part E4-8	200 682		150	Needle rail on the right	237 836
5	Intermediate slider with brake E5 – E8	237 323		160	Cover rail at the rear	250 572
6a	Selection jack E4 - E8	200 687		220	Needle rail on the left	253 908
6b	Selector spring E4 – E8	200 690		230	Needle rail on the right	253 910
7	Knock-over bit E7	207 055		500	Cap screw M5X10	022 918
8	Holding-down jack E7	205 032		502	Cap screw M5X22	023 193
10	Needle bed at the front and rear E7	251 620		510*	Cap screw M8x25	020 142
20	Holding-down jack bed at the rear E7	250 539		42*	Disk brush	202 600
30	Holding-down jack bed at the front E7	250 538		540*	Cap screw M8x25	020 032
70	Cover rail	250 575		541*	Adjusting washer P6x0,3	023 540
80	Cover rail	250 576		43*	Adjusting bolt	251 772



4.2.1 Continuation needle bed E7

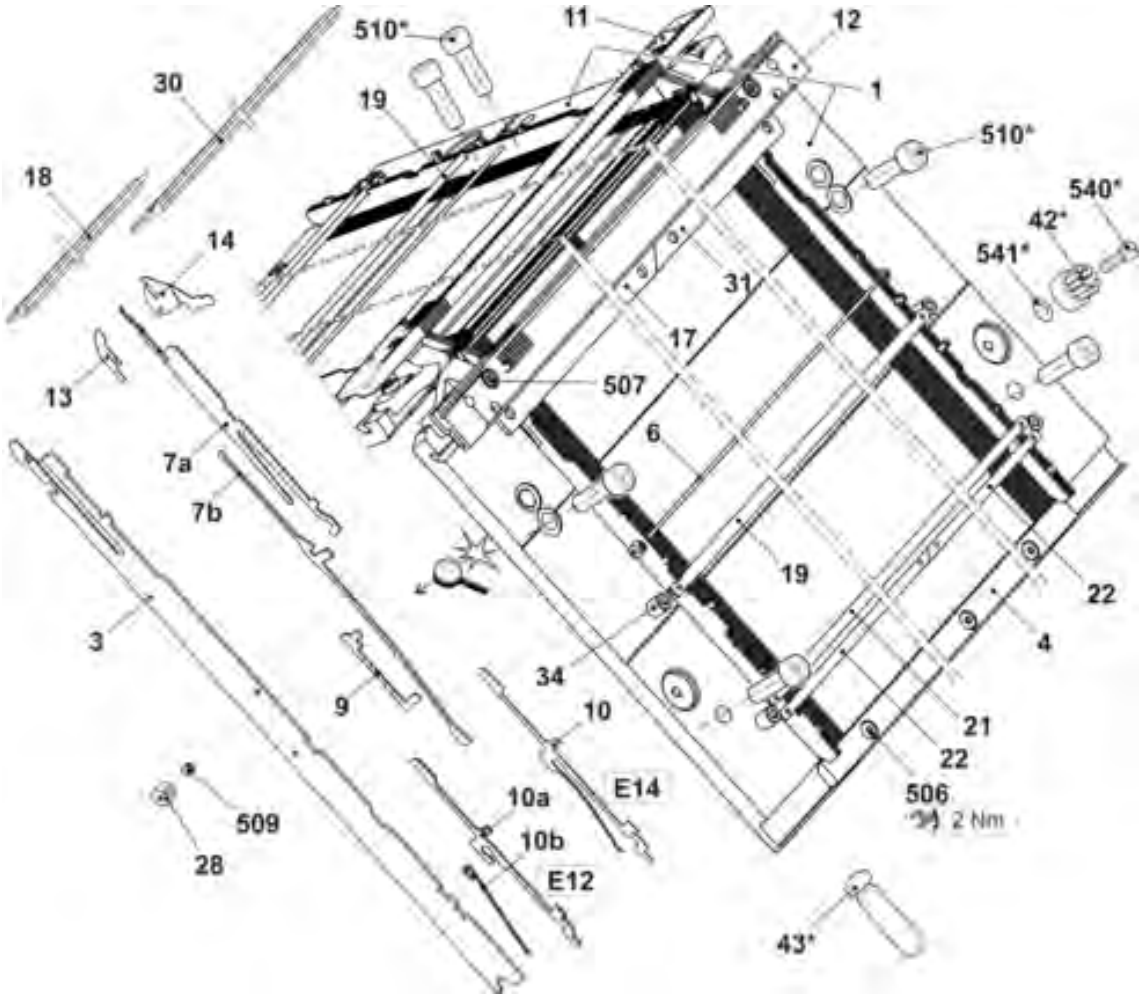
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7	252 667		502	Cap screw M5X22	023 193
2	Spring steel wire ø2,0	207 483		503	Sprung thrust piece	023 177
3	Spring steel wire ø2,0	207 269		504	Shim 0.02x18.5x34	023 194
4	Limiter on the left E4-E8	205 343		505	Shim 0.03x18.5x34	023 195
5	Limiter on the right E4-8	205 344		506	Shim 0.05x18.5x34	023 196
9	Fixed wire ø3.4	207 270		507	Shim 0.02x18.5x34	023 197
501	Cap screw M5x8	023 154		508	Shim 0.2x18.5x34	023 253



4.3 Needle bed E12

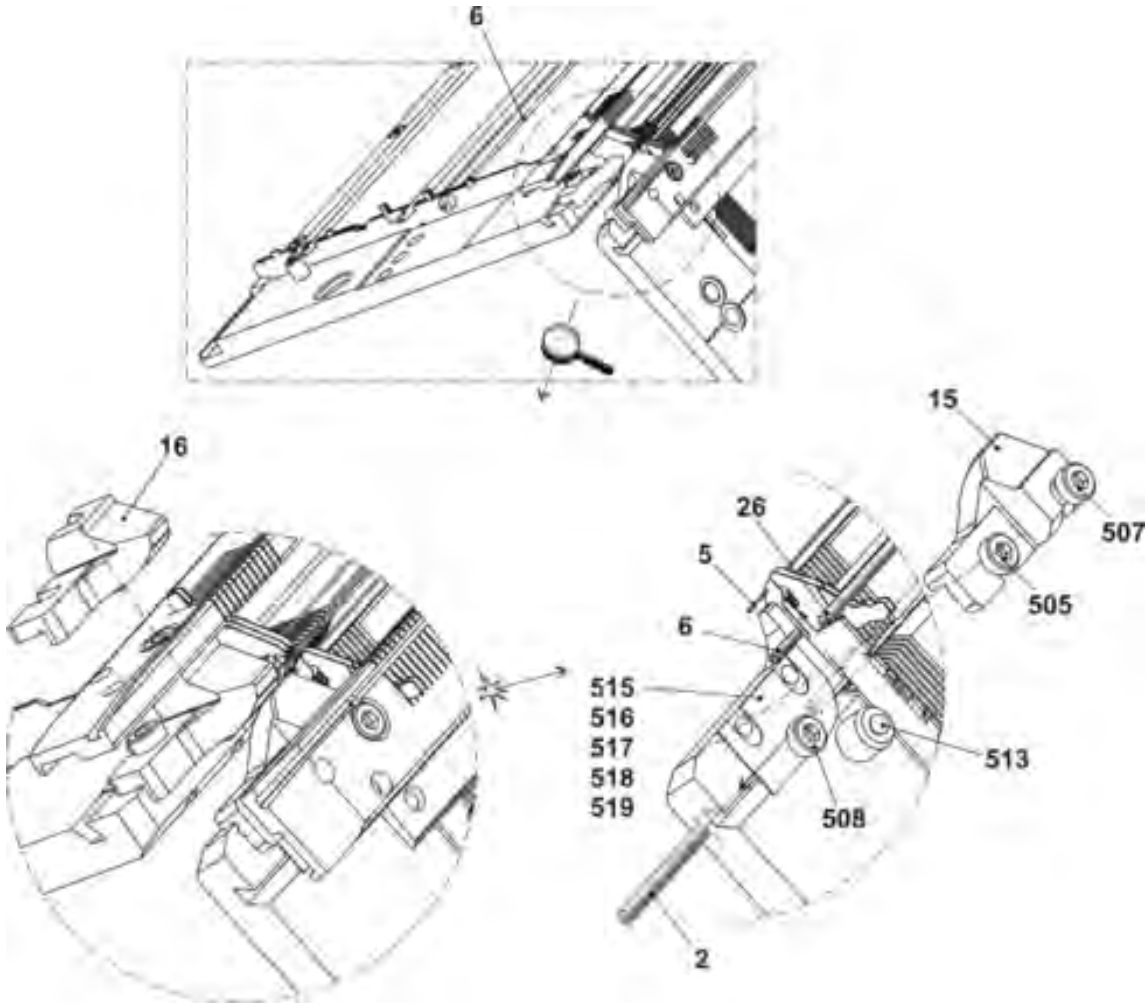
4.3 Needle bed E12

Pos	Designation	Id	Pos	Designation	Id
Σ	Needle bed complete at the front and rear E12	252 668			
1	Needle bed at the front and rear E12	252 064	19	Cover rail at the rear	250 572
3	Main trick wall E12	252 628	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
7a	Needle E12	204 009	30	Needle rail on the left	253 908
7b	Coupling part E10 - E12	200 683	31	Needle rail on the right	253 910
9	Intermediate slider with brake E5-E8	237 324	34	Stop screw	214 039
10a	Selection jack E10-12	200 688	506	Cap screw M5x8	023 379
10b	Selector spring E10-12	200 691	507	Cap screw M5X22	023 193
11	Holding-down jack bed at the rear E12	250 545	509	Set screw M3,5x3-1	020 512
12	Holding-down jack bed at the front E12	250 544	510*	Cap screw M8x25	020 142
13	Knock-over bit E12	205 013	42*	Disk brush	202 600
14	Holding-down jack trick wall E12	227 821	540*	Cap screw M8x25	020 032
17	Needle rail on the left	237 835	541*	Adjusting washer P6x0,3	023 540
18	Needle rail on the right	237 836	43*	Adjusting bolt	251 772



4.3.1 Continuation needle bed E12

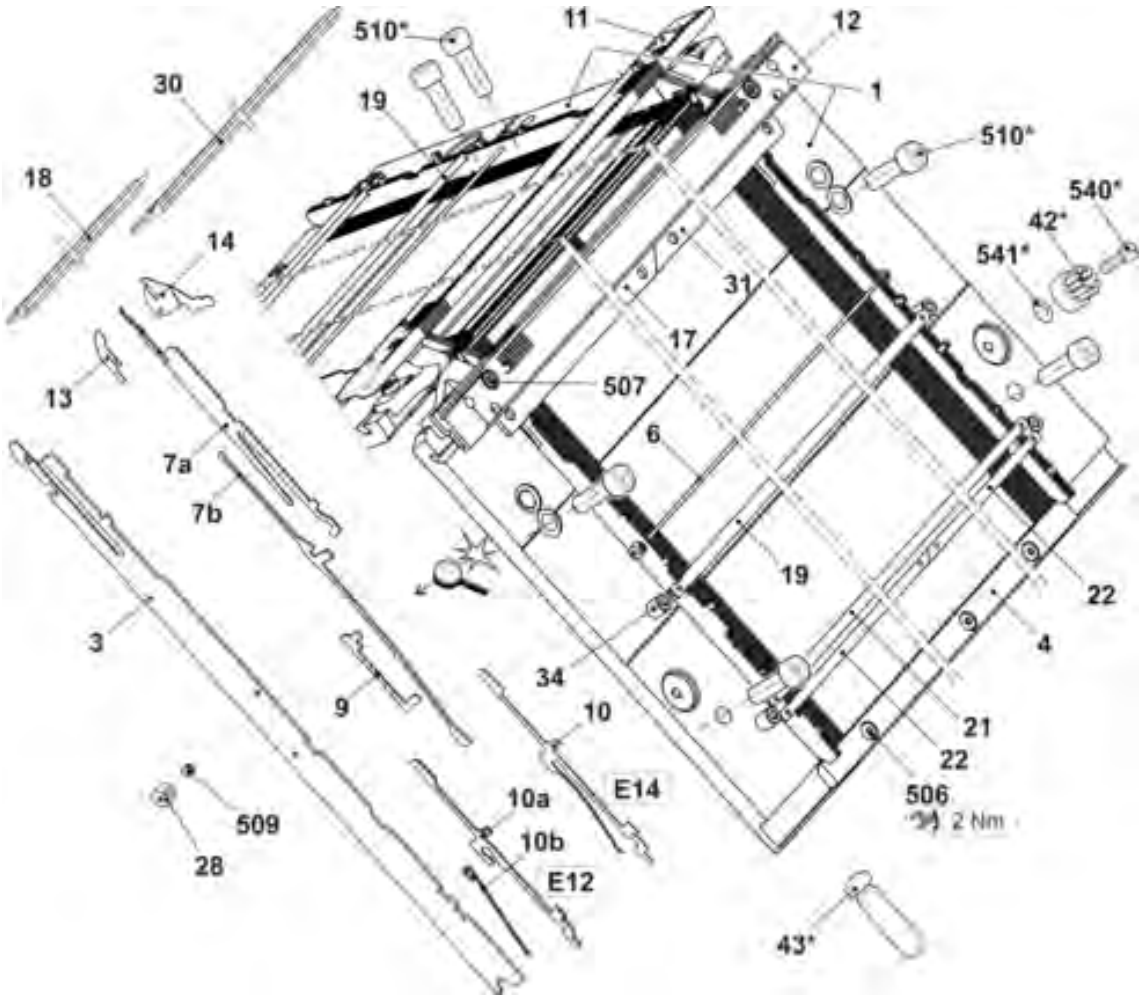
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E12	252 668		507	Cap screw M5X22	023 193
2	Fixed wire Ø3.4	208 389		508	Cap screw M8x25-12.9	022 943
5	Spring steel wire ø 2.0	208 388		513	Sprung thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0.02x18.5x345	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	Fixed wire ø3.4	207 270		518	Shim 0.02x18.5x34	023 197
505	Cap screw M5x8-8.8	023 154		519	Shim 0.2X18.5X34	023 253



4.4 Needle bed E14

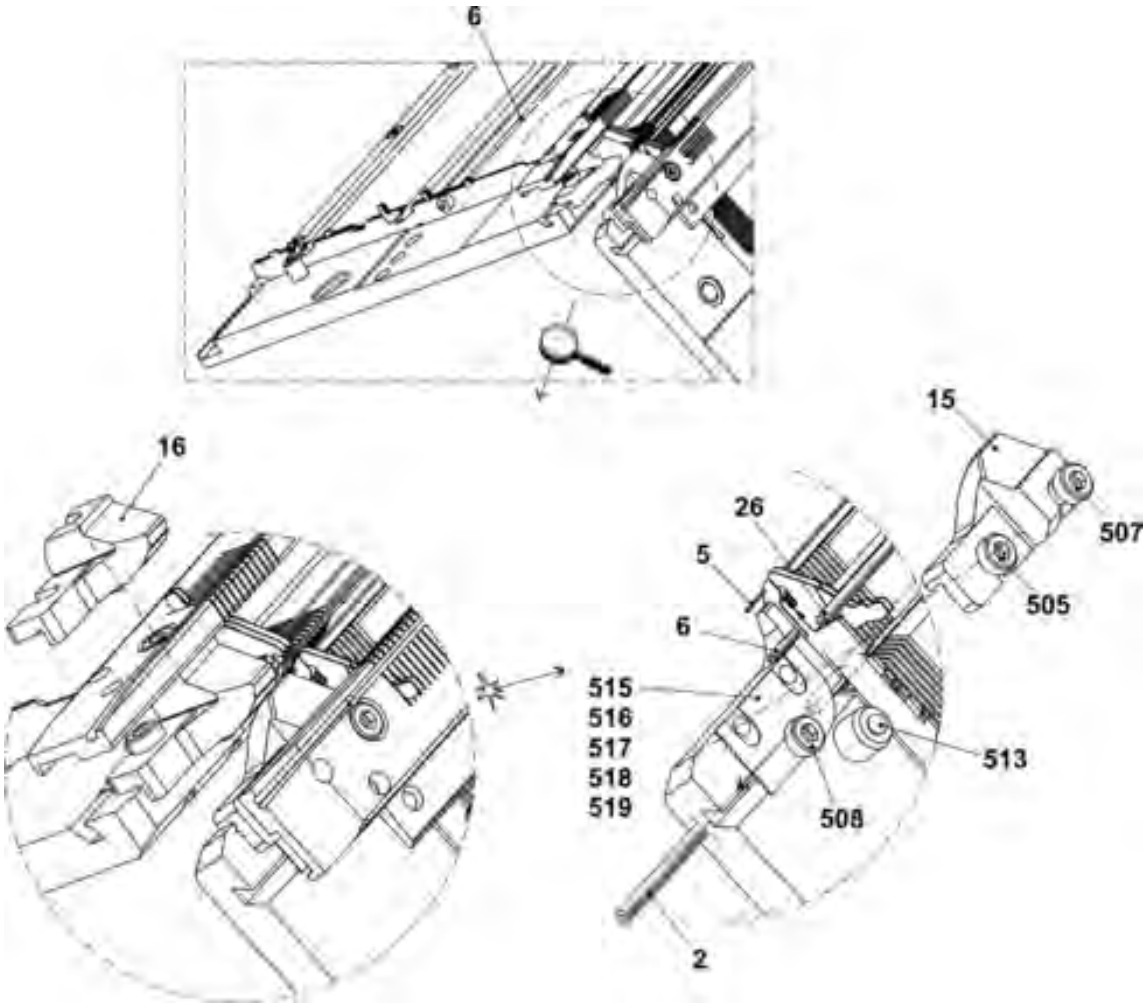
4.4 Needle bed E14

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E14	252 669		19	Cover rail at the rear	250 572
1	Needle bed at the front and rear E14	251 587		21	Cover rail	250 575
3	Main trick wall E14	252 629		22	Cover rail	250 576
4	Pressure slide E12 – E14	252 040		28	Bush	206 090
6	Spring steel wire ø2,0	207 269		30	Needle rail on the left	253 908
7a	Needle E14	209 614		31	Needle rail on the right	253 910
7b	Coupling part E14	253 383		34	Stop screw	214 039
9	Intermediate slider with brake E14	237 373		506	Cap screw M4-M5x8	023 379
10	Selection jack E14 with selector spring	224 725		507	Cap screw M5X22	023 193
11	Holding-down jack bed at the rear E14	250 547		509	Set screw M3,5x3-1	020 512
12	Holding-down jack bed at the front E14	250 546		510*	Cap screw M8x25	020 142
13	Knock-over bit E14	209 649		42*	Disk brush	202 600
14	Holding-down jack trick wall E14	235 262		540*	Cap screw M8x25	020 032
17	Needle rail on the left	237 835		541*	Adjusting washer P6x0,3	023 540
18	Needle rail on the right	237 836		43*	Adjusting bolt	251 772



4.4.1 Continuation needle bed E14

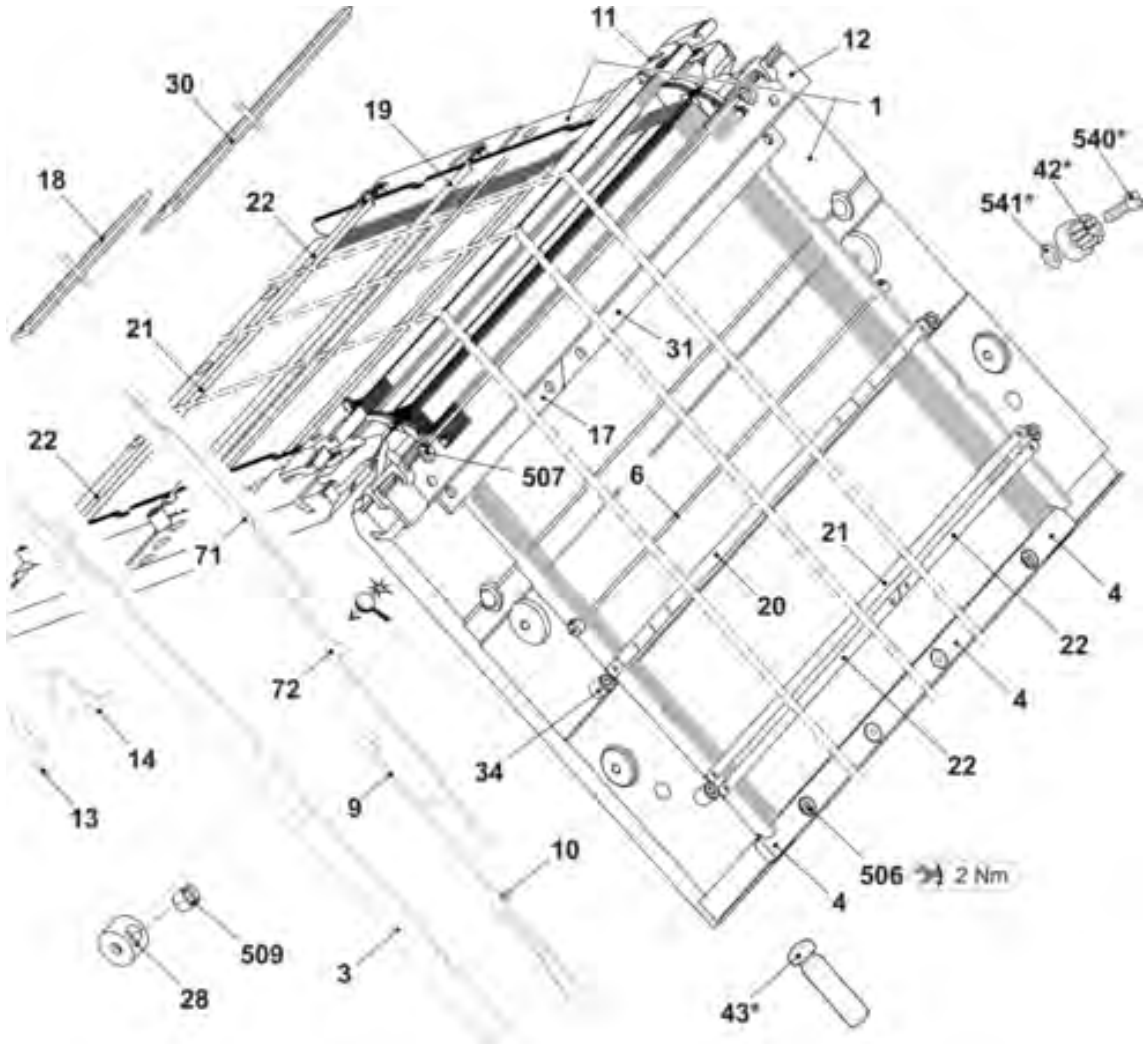
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E14	252 669		507	Cap screw M5X22	023 193
2	Fixed wire Ø3.4	208 389		508	Cap screw M8x25-12.9	022 943
5	Spring steel wire ø 2.0	208 388		513	Sprung thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0.02x18.5x345	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	Fixed wire ø3.4	207 270		518	Shim 0.02x18.5x34	023 197
505	Cap screw M5x8-8.8	023 154		519	Shim 0.2X18.5X34	023 253



4.5 Needle bed E16

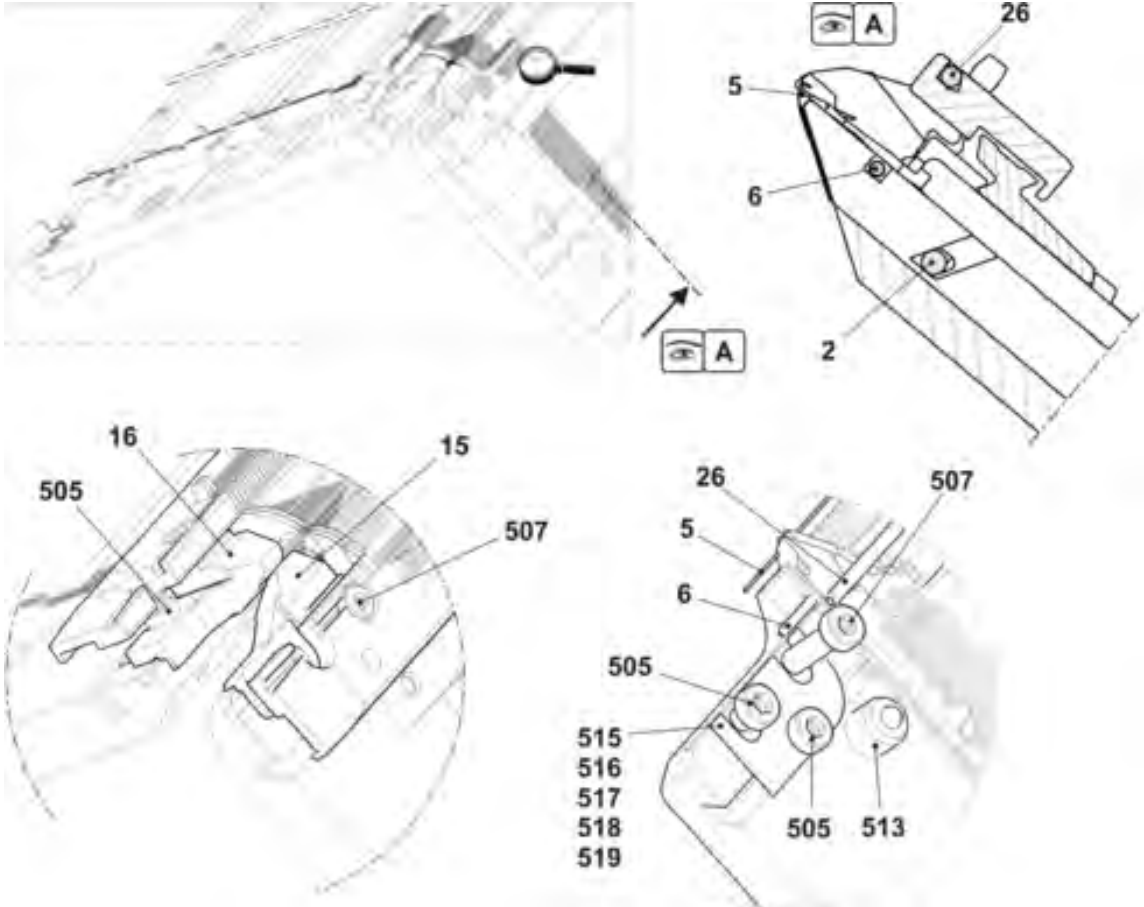
4.5 Needle bed E16

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front + rear E16	256 820				
1	Needle bed at the front and rear E16	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 rail on the left at the rear	253 908
72	Coupling part E14	253 384		31	Needle rail 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 E10-12	222 265		42*	Plate brush ø12	202 600
11	Holding-down jack bed at the rear E16	250 549		43*	Adjusting bolt	251 772
12	Holding-down jack bed at the front E16	250 548		540*	Cap screw M8x25	020 032
13	Knock-over bit E16	222 503		541*	Adjusting washer P6x0,3	023 540
14	Holding-down jack E16	222 504		503	Cap screw M6X14	022 658
17	Needle rail on the left at the front	237 835		506	Cap screw M4-M5x8	023 379
18	Needle rail on the right at the rear	237 836		507	Cap screw M5X22	023 193
19	Cover rail at the rear	250 572		509	Set screw M3,5x3-1	020 512



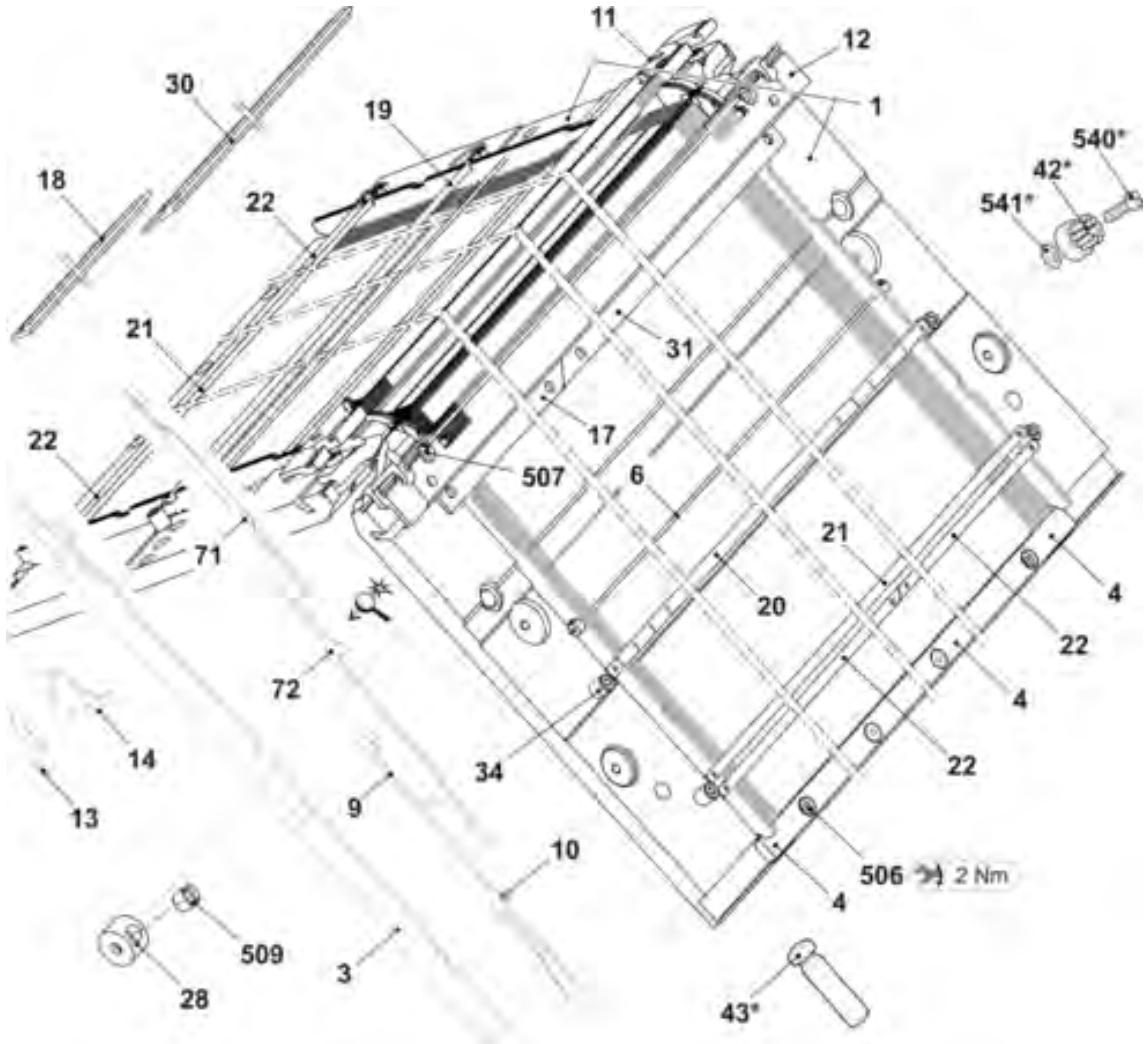
4.5.1 Continuation needle bed E16

Pos	Designation	Id		Pos	Designation	Id
2	Fixed wire Ø3.4	208 389		507	Cap screw M5X22	023 193
5	Spring steel wire ø0.5	250 690		513	Sprung thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0.02x18.5x34	023 194
15	Limiter on the left E16-E20	220 821		516	Shim 0.03x18.5x34	023 195
16	Limiter on the right E16-E20	220 822		517	Shim 0.05x18.5x34	023 196
26	Fixed wire ø3.4	256 860		518	Shim 0.02x18.5x34	023 197
505	Cap screw M5x8	023 154		519	Shim 0.2X18.5X34	023 253



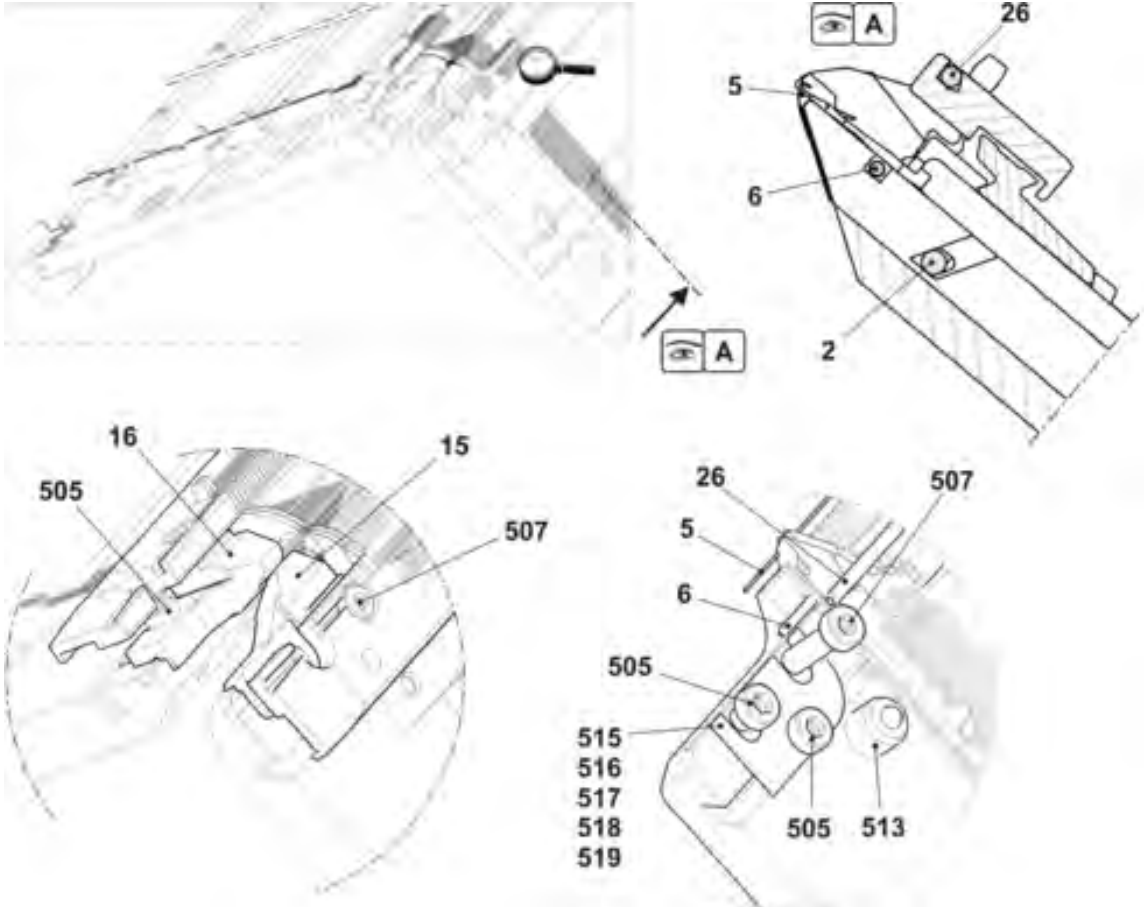
4.6 Needle bed E18

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front + rear E18	256 876				
1	Needle bed at the front and rear E18	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 rail on the left at the rear	253 908
72	Coupling part E10-12	253 384		31	Needle rail 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 E10-12	222 265		42*	Plate brush ø12	202 600
11	Holding-down jack bed at the rear E18	250 551		43*	Adjusting bolt	251 772
12	Holding-down jack bed at the front E18	250 550		540*	Cap screw M8x25	020 032
13	Knock-over bit E18	220 764		541*	Adjusting washer P6x0,3	023 540
14	Holding-down jack E18	220 770		503	Cap screw M6X14	022 658
17	Needle rail on the left at the front	237 835		506	Cap screw M4-M5x8	023 379
18	Needle rail on the right at the rear	237 836		507	Cap screw M5X22	023 193
19	Cover rail at the rear	250 572		509	Set screw M3,5x3-1	020 512



4.6.1 Continuation needle bed E18

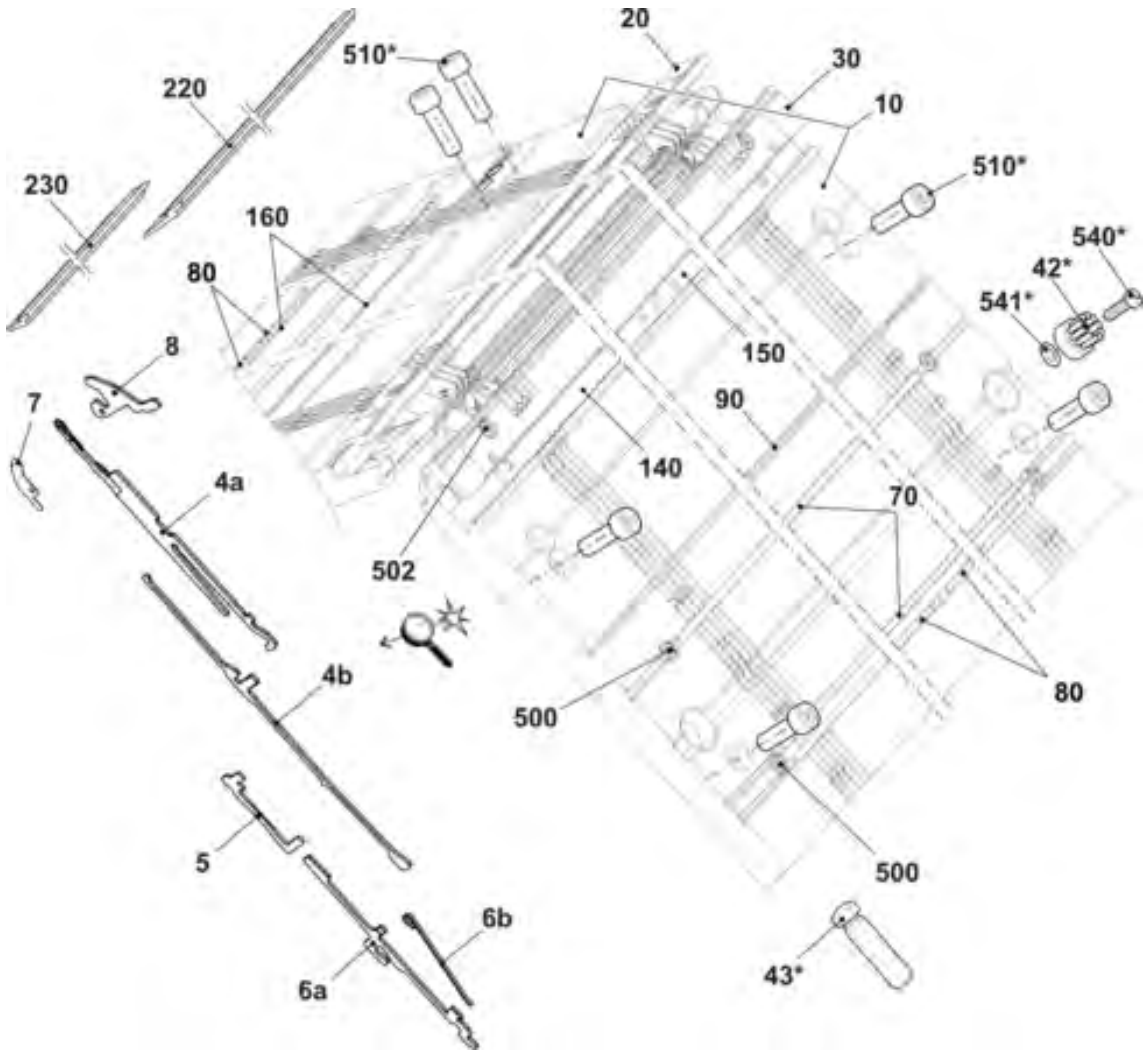
Pos	Designation	Id		Pos	Designation	Id
2	Fixed wire Ø3.4	213 995		508	Cap screw M8x25-12.9	022 943
5	Spring steel wire ø0.5	220 759		513	Sprung thrust piece	023 177
15	Limiter on the left E16-E20	220 821		515	Shim 0.02x18.5x345	023 194
16	Limiter on the right E16-E20	220 822		516	Shim 0.03x18.5x34	023 195
26	Fixed wire ø3.4	223 922		517	Shim 0.05x18.5x34	023 196
35	Spring steel wire ø2,0	245 320		518	Shim 0.02x18.5x34	023 197
507	Cap screw M5X22	023 193		519	Shim 0.2X18.5X34	023 253



4.7 Needle bed E2,5.2

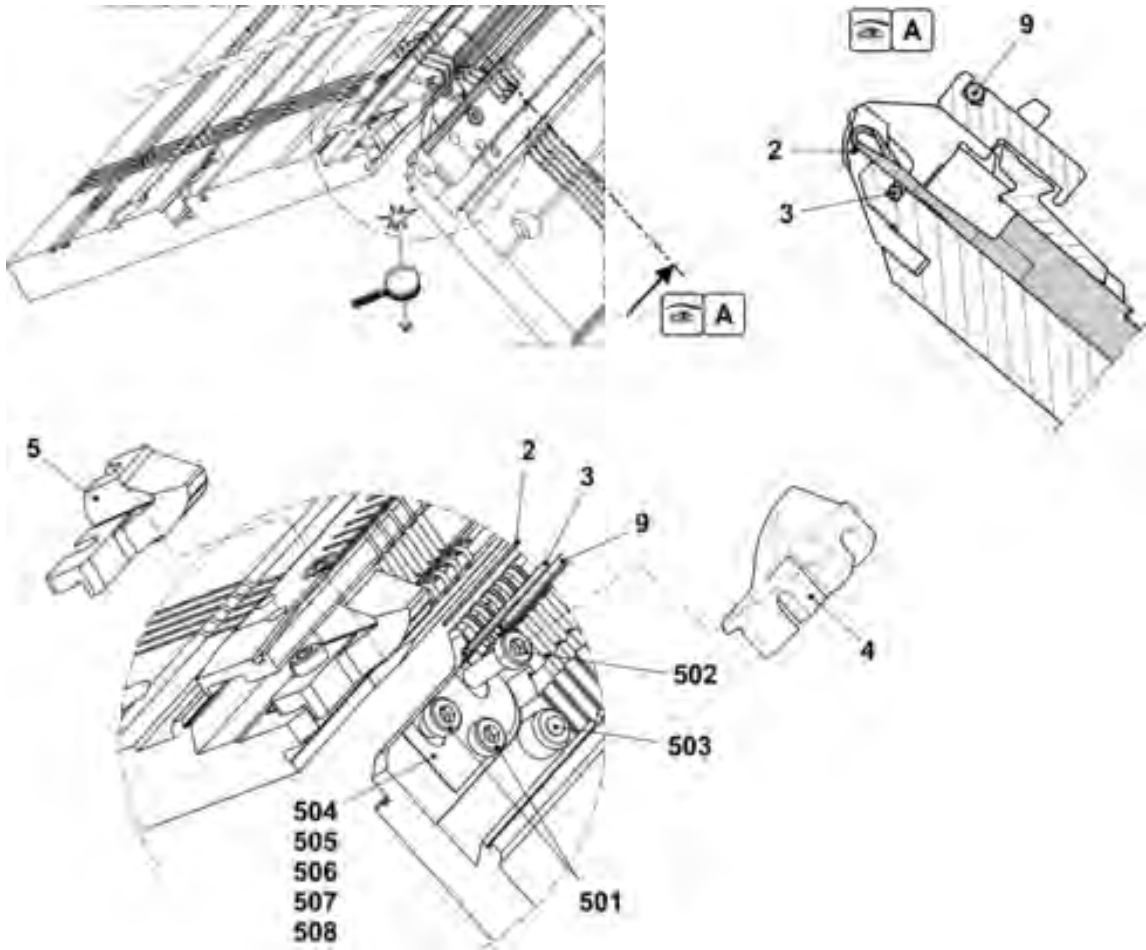
4.7 Needle bed E2,5.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E3,5.2	252 671		90	Fixed wire ø3.4	207 270
4a	Needle E2,5.2-6,5.2	232 581		140	Needle rail on the left	237 835
4b	Coupling part E4-8	200 682		150	Needle rail on the right	237 836
5	Intermediate slider with brake E5 – E8	237 323		160	Cover rail at the rear	250 572
6a	Selection jack E4 - E8	200 687		220	Needle rail on the left	253 908
6b	Selector spring E4 – E8	200 690		230	Needle rail on the right	253 910
7	Knock-over bit E7	207 055		500	Cap screw M5X10	022 918
8	Holding-down jack E7	205 032		502	Cap screw M5X22	023 193
10	Needle bed at the front and rear E7	251 620		510*	Cap screw M8x25	020 142
20	Holding-down jack bed at the rear E2,5.2	250 916		42*	Disk brush	202 600
30	Holding-down jack bed at the front E2,5.2	250 915		540*	Cap screw M8x25	020 032
70	Cover rail	250 575		541*	Adjusting washer P6x0,3	023 540
80	Cover rail	250 576		43*	Adjusting bolt	240 765



4.7.1 Continuation needle bed E3,5.2

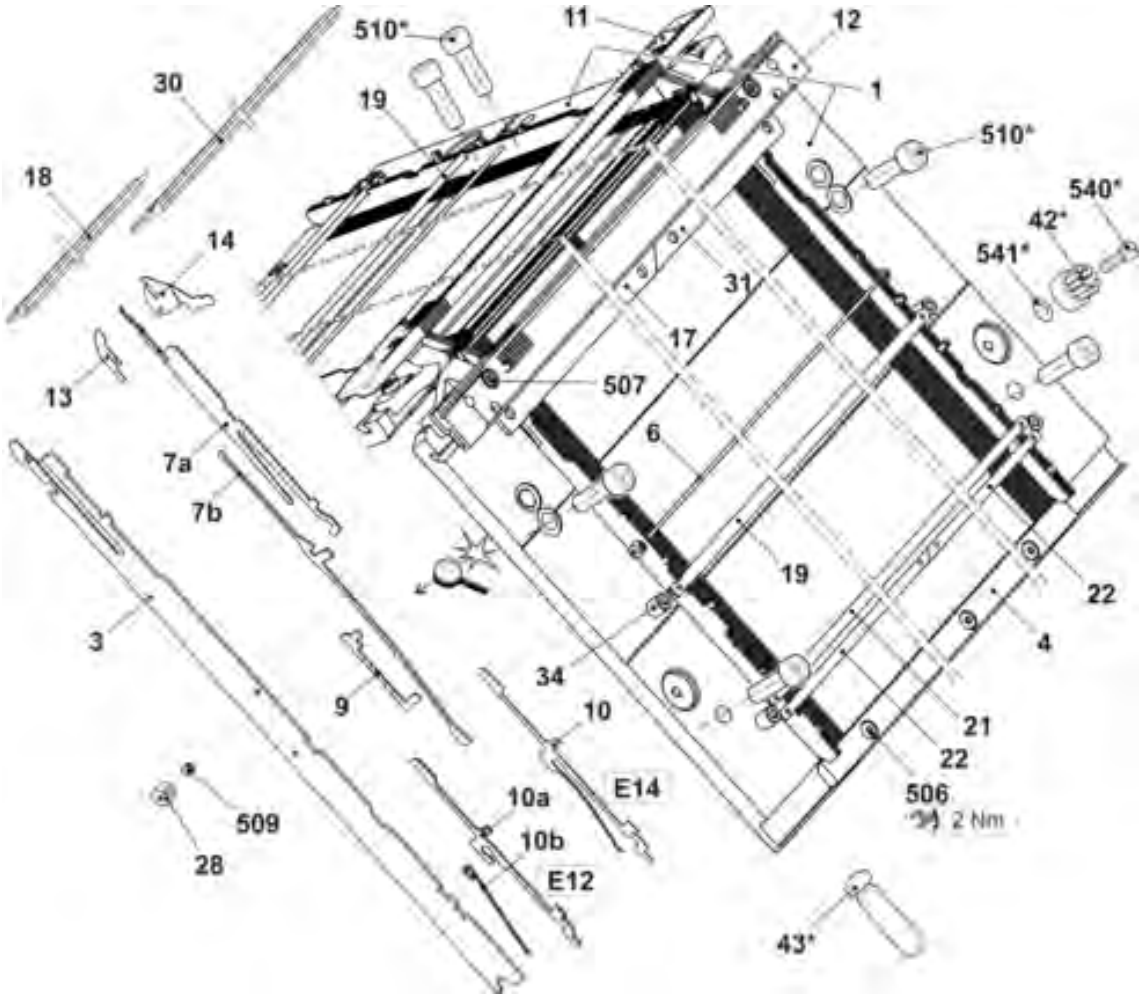
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E3,5.2	252 671		502	Cap screw M5X22	023 193
2	Spring steel wire ø2,0	207 483		503	Sprung thrust piece	023 177
3	Spring steel wire ø2,0	207 269		504	Shim 0.02x18.5x34	023 194
4	Limiter on the left E4-E8	205 343		505	Shim 0.03x18.5x34	023 195
5	Limiter on the right E4-8	205 344		506	Shim 0.05x18.5x34	023 196
9	Fixed wire ø3.4	207 270		507	Shim 0.02x18.5x34	023 197
501	Cap screw M5x8	023 154		508	Shim 0.2x18.5x34	023 253



4.8 Needle bed E5.2

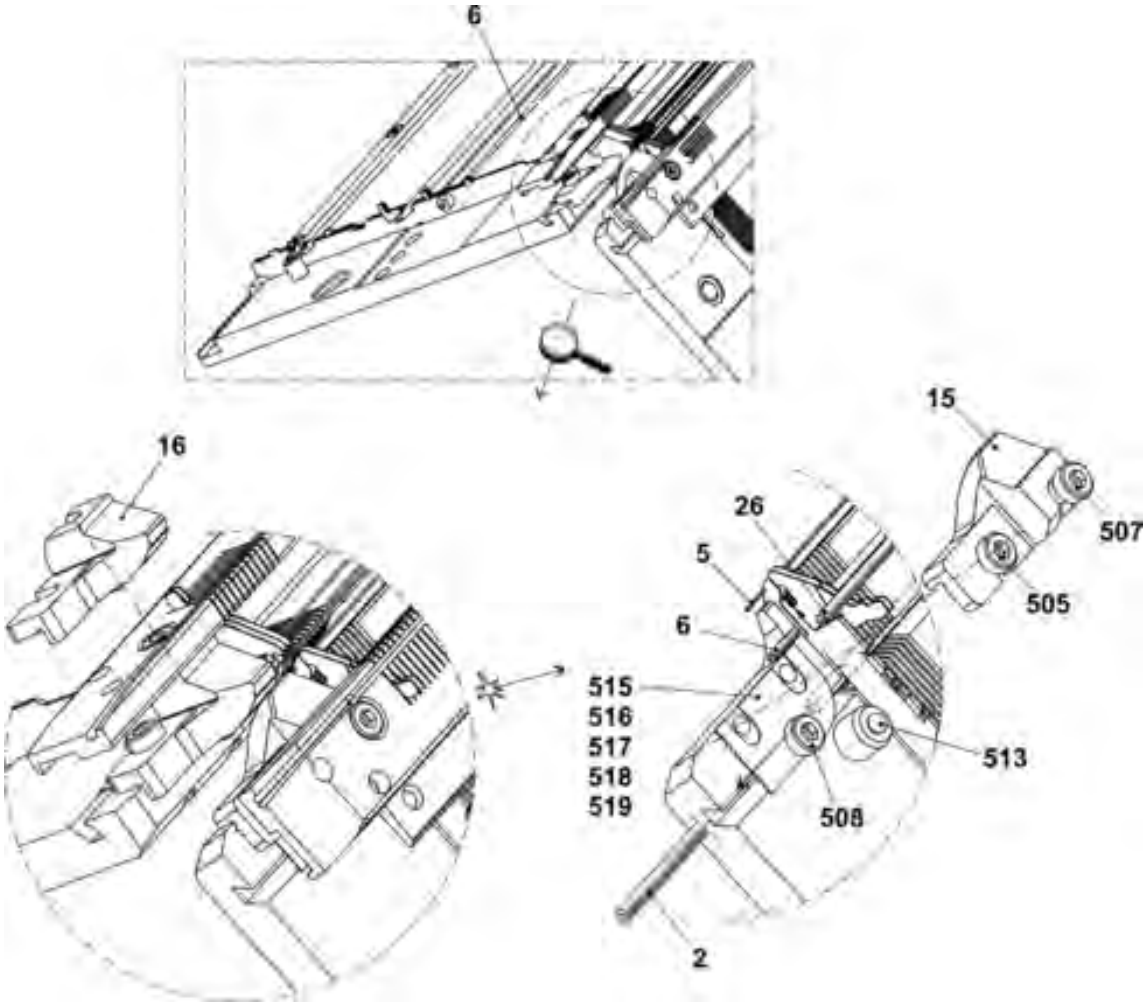
4.8 Needle bed E5.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E6.2	253 941				
1	Needle bed at the front and rear E12	252 064		19	Cover rail at the rear	250 572
3	Main trick wall E12	252 628		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
7a	Needle E7.2	207 349		30	Needle rail on the left	253 908
7b	Coupling part E10 - E12	200 683		31	Needle rail on the right	253 910
9	Intermediate slider with brake E5-E8	237 324		34	Stop screw	214 039
10a	Selection jack E10-12	200 688		506	Cap screw M5x8	023 379
10b	Selector spring E10-12	200 691		507	Cap screw M5X22	023 193
11	Holding-down jack bed at the rear E5.2	250 918		509	Set screw M3,5x3-1	020 512
12	Holding-down jack bed at the front E6.2	250 917		510*	Cap screw M8x25	020 142
13	Knock-over bit E12	205 013		42*	Disk brush	202 600
14	Holding-down jack trick wall E12	227 821		540*	Cap screw M8x25	020 032
17	Needle rail on the left	237 835		541*	Adjusting washer P6x0,3	023 540
18	Needle rail on the right	237 836		43*	Adjusting bolt	251 772



4.8.1 Continuation needle bed E5.2

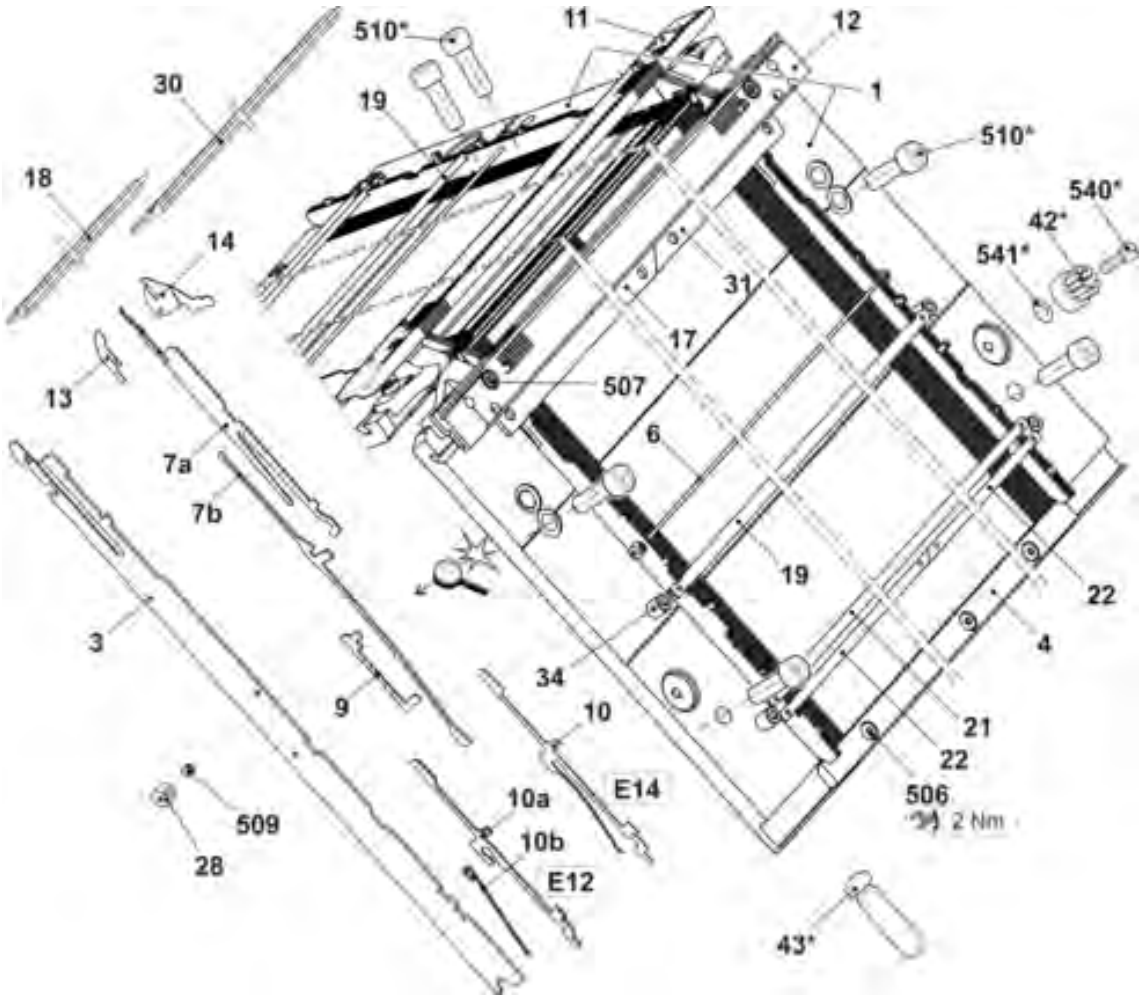
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E6.2	253 941		507	Cap screw M5X22	023 193
2	Fixed wire Ø3.4	208 389		508	Cap screw M8x25-12.9	022 943
5	Spring steel wire ø 2.0	208 388		513	Sprung thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0.02x18.5x345	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	Fixed wire ø3.4	207 270		518	Shim 0.02x18.5x34	023 197
505	Cap screw M5x8-8.8	023 154		519	Shim 0.2X18.5X34	023 253



4.9 Needle bed E7.2

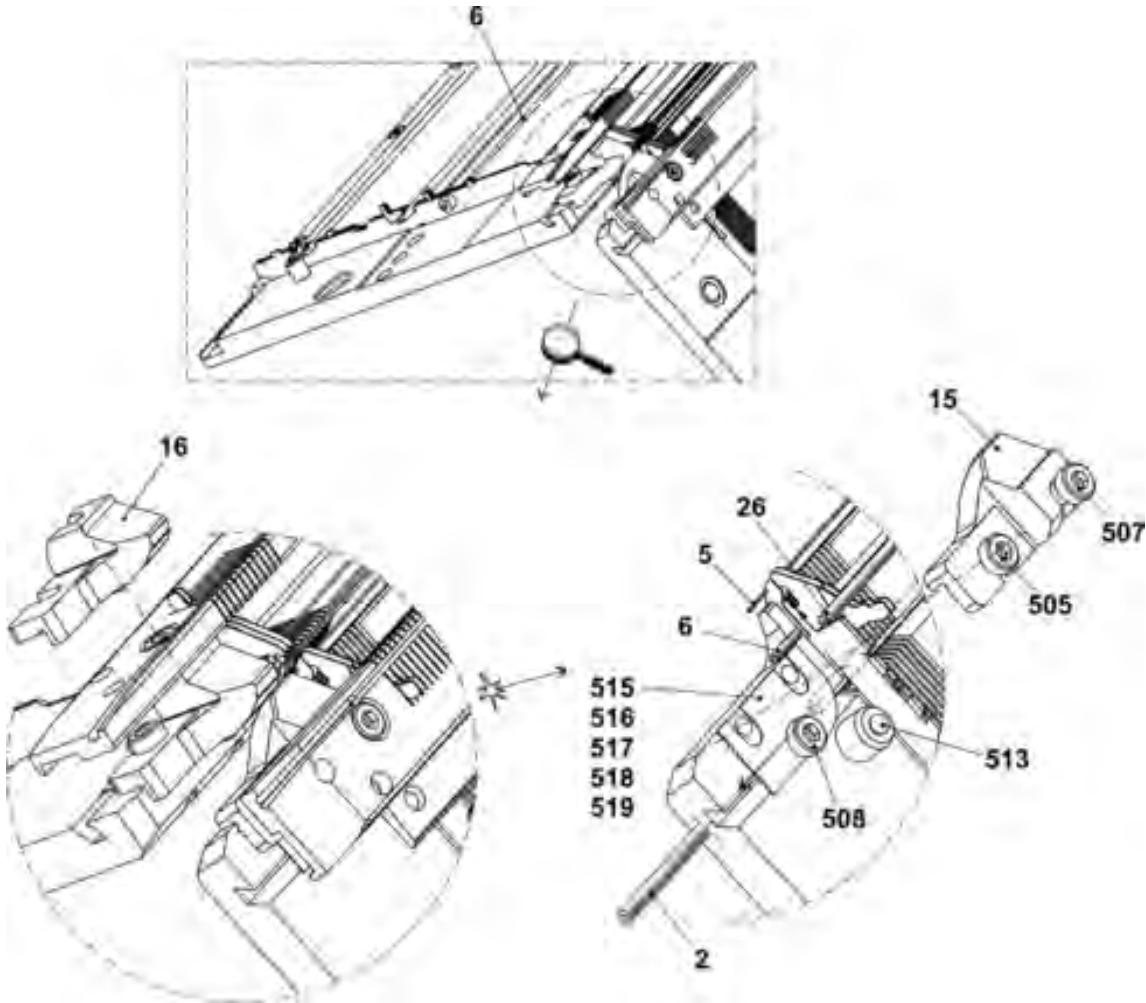
4.9 Needle bed E7.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7.2	256 060		19	Cover rail at the rear	250 572
1	Needle bed at the front and rear E14	251 587		21	Cover rail	250 575
3	Main trick wall E14	252 629		22	Cover rail	250 576
4	Pressure slide E12 – E14	252 040		28	Bush	206 090
6	Spring steel wire ø2,0	207 269		30	Needle rail on the left	253 908
7a	Needle E7.2	225 230		31	Needle rail on the right	253 910
7b	Coupling part E14	253 383		34	Stop screw	214 039
9	Intermediate slider with brake E14	237 373		506	Cap screw M4-M5x8	023 379
10	Selection jack E14 with selector spring	224 725		507	Cap screw M5X22	023 193
11	Holding-down jack bed at the rear E7.2	250 920		509	Set screw M3,5x3-1	020 512
12	Holding-down jack bed at the front E7.2	250 919		510*	Cap screw M8x25	020 142
13	Knock-over bit E14	209 649		42*	Disk brush	202 600
14	Holding-down jack trick wall E14	254 883		540*	Cap screw M8x25	020 032
17	Needle rail on the left	237 835		541*	Adjusting washer P6x0,3	023 540
18	Needle rail on the right	237 836		43*	Adjusting bolt	251 772



4.9.1 Continuation needle bed E7.2

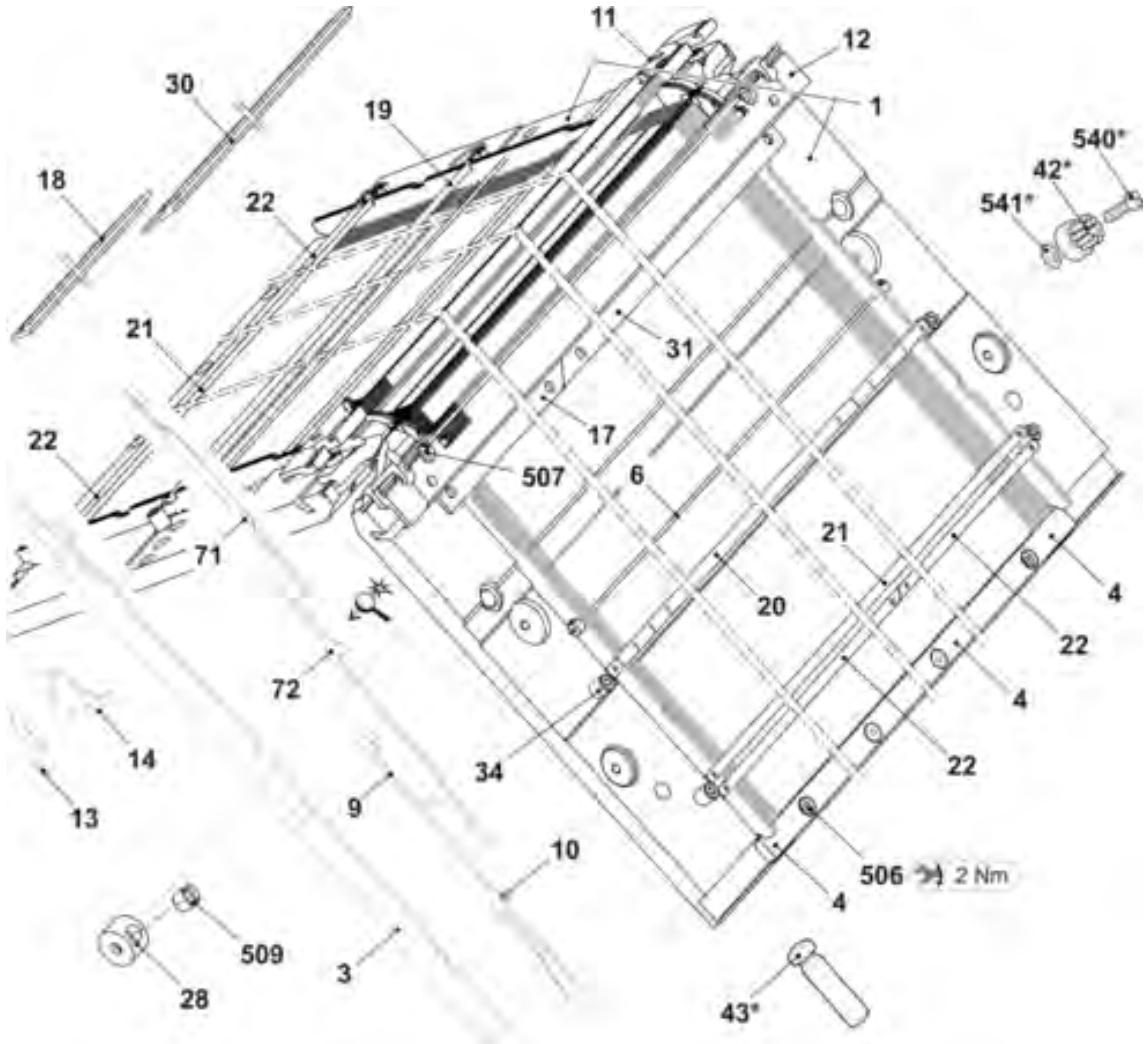
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7.2	256 060		507	Cap screw M5X22	023 193
2	Fixed wire Ø3.4	208 389		508	Cap screw M8x25-12.9	022 943
5	Spring steel wire ø 2.0	208 388		513	Sprung thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0.02x18.5x345	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	Fixed wire ø3.4	207 270		518	Shim 0.02x18.5x34	023 197
505	Cap screw M5x8-8.8	023 154		519	Shim 0.2X18.5X34	023 253



4.10 Needle bed E8.2

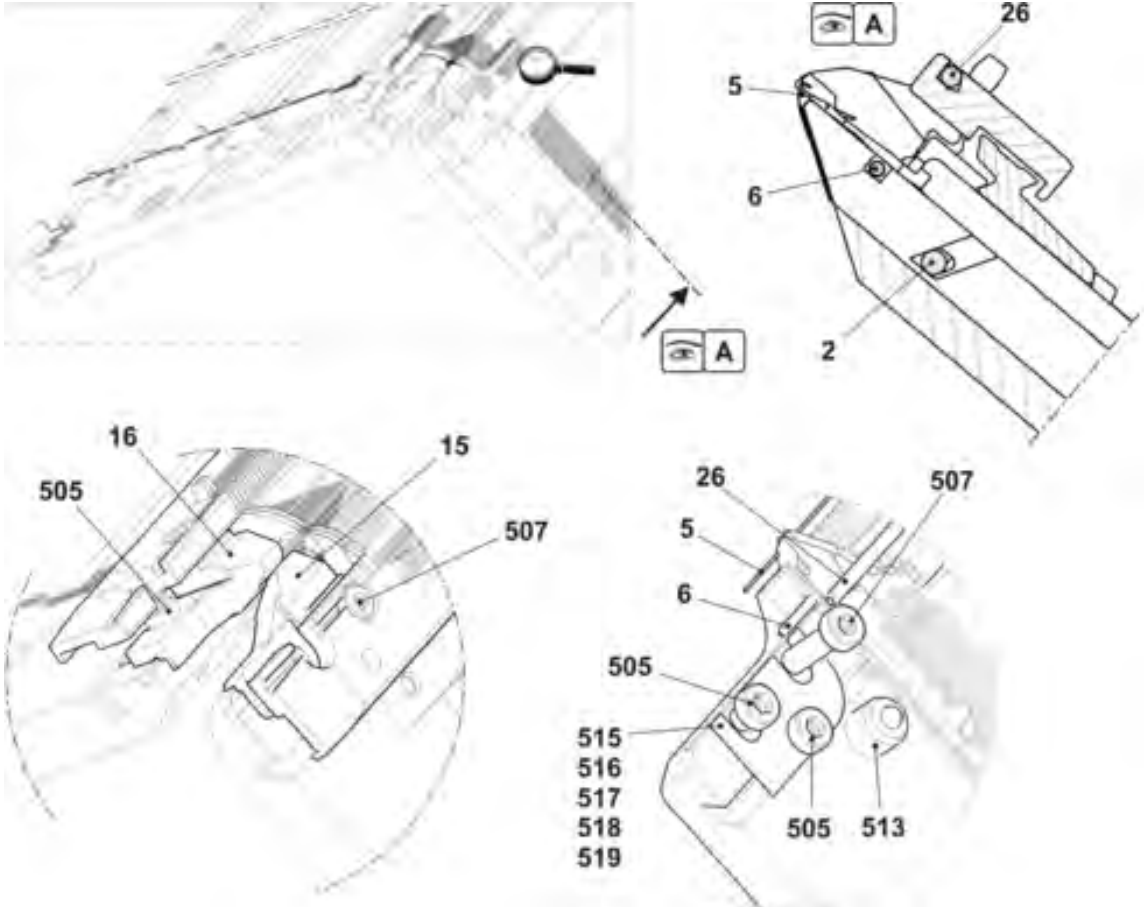
4.10 Needle bed E8.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front + rear E16	256 877				
1	Needle bed at the front and rear E16	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 rail on the left at the rear	253 908
72	Coupling part E14	253 384		31	Needle rail 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 E10-12	222 265		42*	Plate brush ø12	202 600
11	Holding-down jack bed at the rear E16	250 549		43*	Adjusting bolt	251 772
12	Holding-down jack bed at the front E16	250 548		540*	Cap screw M8x25	020 032
13	Knock-over bit E16	222 503		541*	Adjusting washer P6x0,3	023 540
14	Holding-down jack E16	222 504		503	Cap screw M6X14	022 658
17	Needle rail on the left at the front	237 835		506	Cap screw M4-M5x8	023 379
18	Needle rail on the right at the rear	237 836		507	Cap screw M5X22	023 193
19	Cover rail at the rear	250 572		509	Set screw M3,5x3-1	020 512



4.10.1 Continuation needle bed E8.2

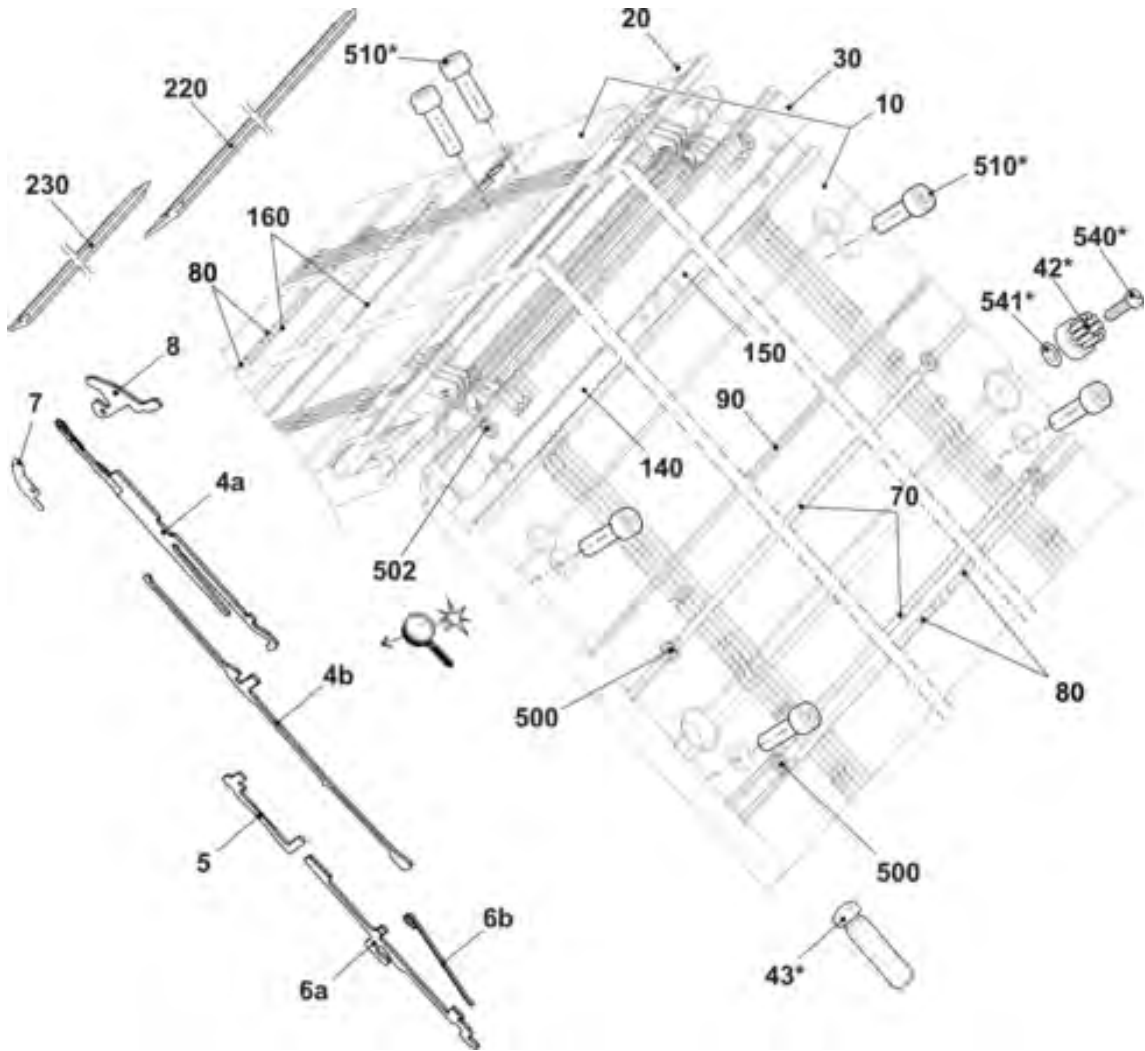
Pos	Designation	Id		Pos	Designation	Id
2	Fixed wire Ø3.4	208 389		507	Cap screw M5X22	023 193
5	Spring steel wire ø0.5	250 690		513	Sprung thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0.02x18.5x34	023 194
15	Limiter on the left E16-E20	220 821		516	Shim 0.03x18.5x34	023 195
16	Limiter on the right E16-E20	220 822		517	Shim 0.05x18.5x34	023 196
26	Fixed wire ø3.4	256 860		518	Shim 0.02x18.5x34	023 197
505	Cap screw M5x8	023 154		519	Shim 0.2X18.5X34	023 253



4.11 Needle bed E7m.5

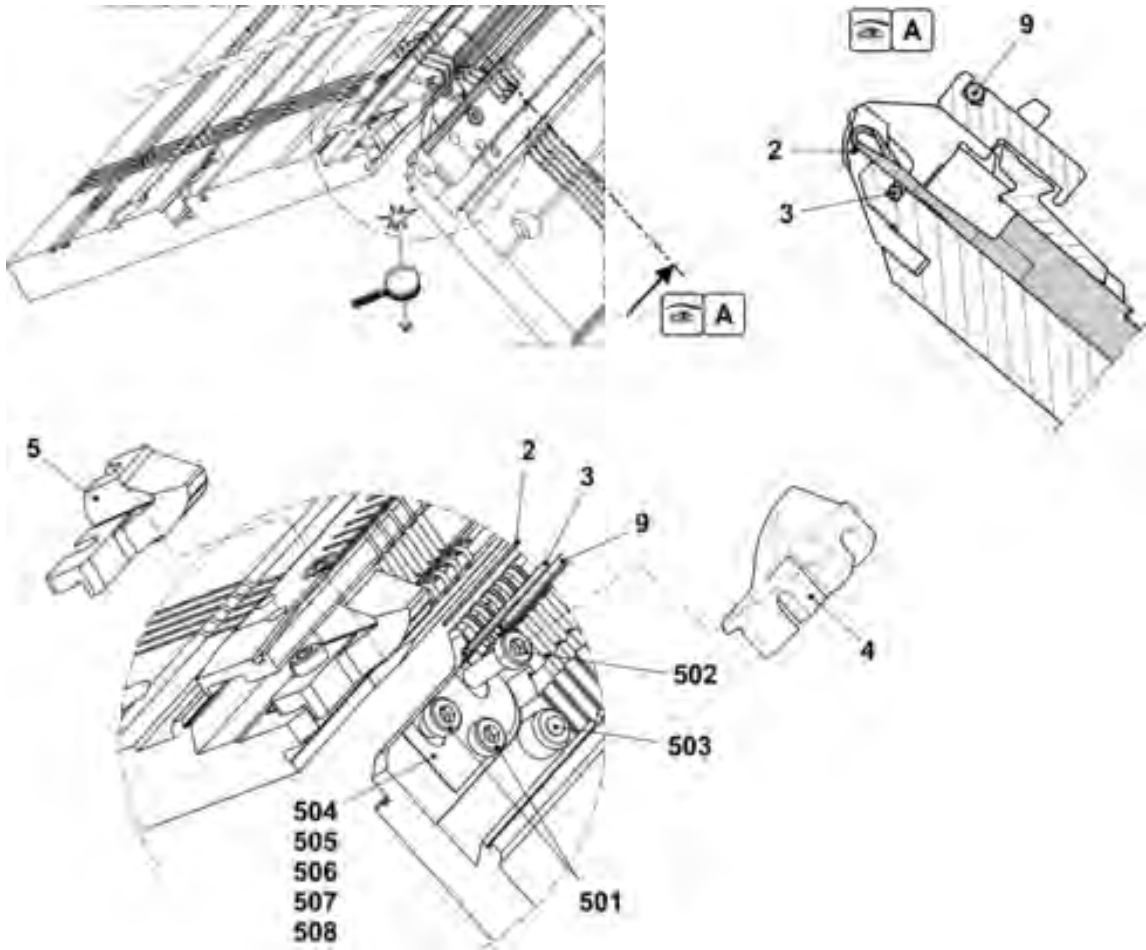
4.11 Needle bed E7m.5

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7m.5	253 949		90	Fixed wire ø3.4	207 270
4a	Needle E5-6 with round hook	205 396		140	Needle rail on the left	237 835
4b	Coupling part E4-8	200 682		150	Needle rail on the right	237 836
5	Intermediate slider with brake E5 – E8	237 323		160	Cover rail at the rear	250 572
6a	Selection jack E4 - E8	200 687		220	Needle rail on the left	253 908
6b	Selector spring E4 – E8	200 690		230	Needle rail on the right	253 910
7	Knock-over bit E7	207 055		500	Cap screw M5X10	022 918
8	Holding-down jack E7	205 032		502	Cap screw M5X22	023 193
10	Needle bed at the front and rear E7	251 620		510*	Cap screw M8x25	020 142
20	Holding-down jack bed at the rear E7	250 539		42*	Disk brush	202 600
30	Holding-down jack bed at the front E7	250 538		540*	Cap screw M8x25	020 032
70	Cover rail	250 575		541*	Adjusting washer P6x0,3	023 540
80	Cover rail	250 576		43*	Adjusting bolt	251 772



4.11.1 Continuation needle bed E7m.5

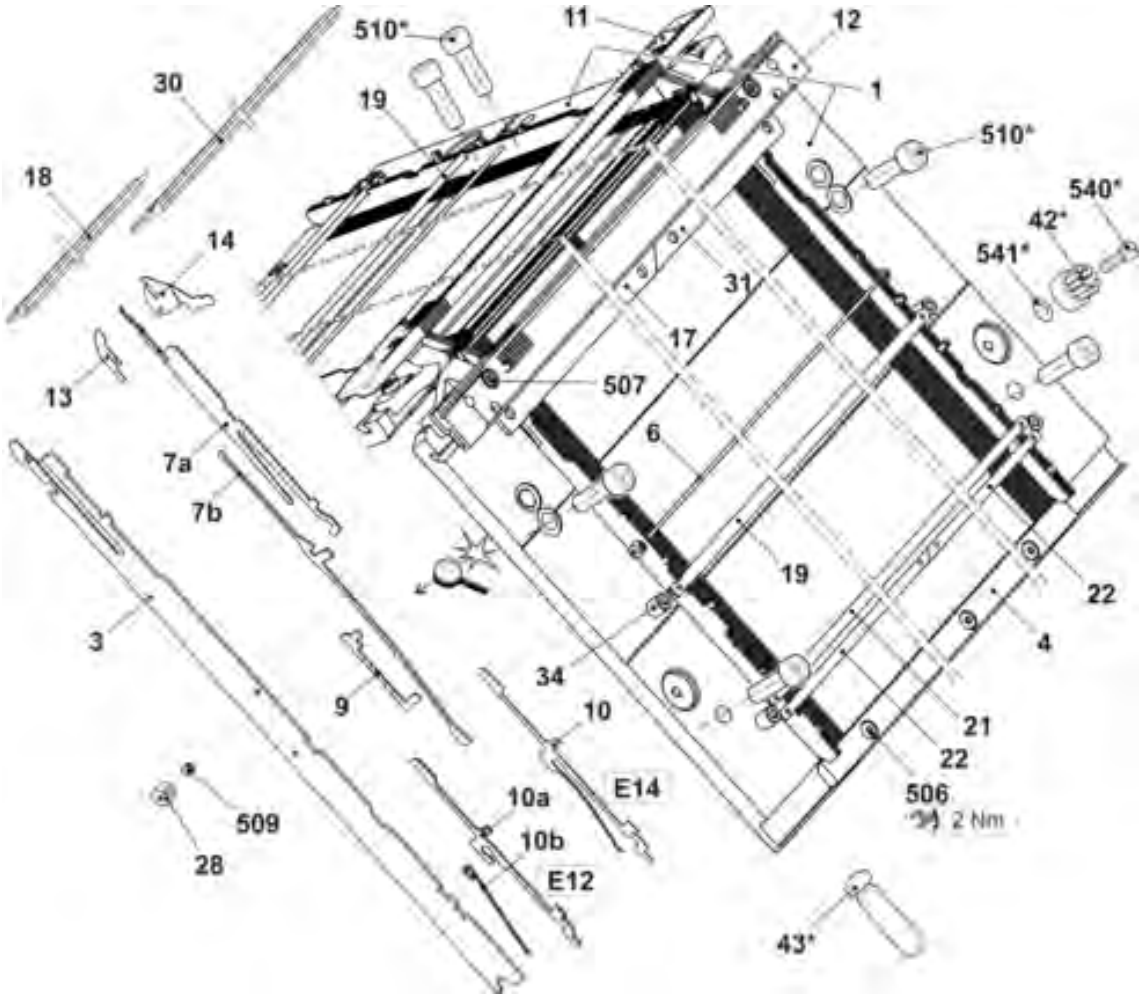
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E7m.5	253 949		502	Cap screw M5X22	023 193
2	Spring steel wire ø2,0	207 483		503	Sprung thrust piece	023 177
3	Spring steel wire ø2,0	207 269		504	Shim 0.02x18.5x34	023 194
4	Limiter on the left E4-E8	205 343		505	Shim 0.03x18.5x34	023 195
5	Limiter on the right E4-8	205 344		506	Shim 0.05x18.5x34	023 196
9	Fixed wire ø3.4	207 270		507	Shim 0.02x18.5x34	023 197
501	Cap screw M5x8	023 154		508	Shim 0.2x18.5x34	023 253



4.12 Needle bed E12m.10

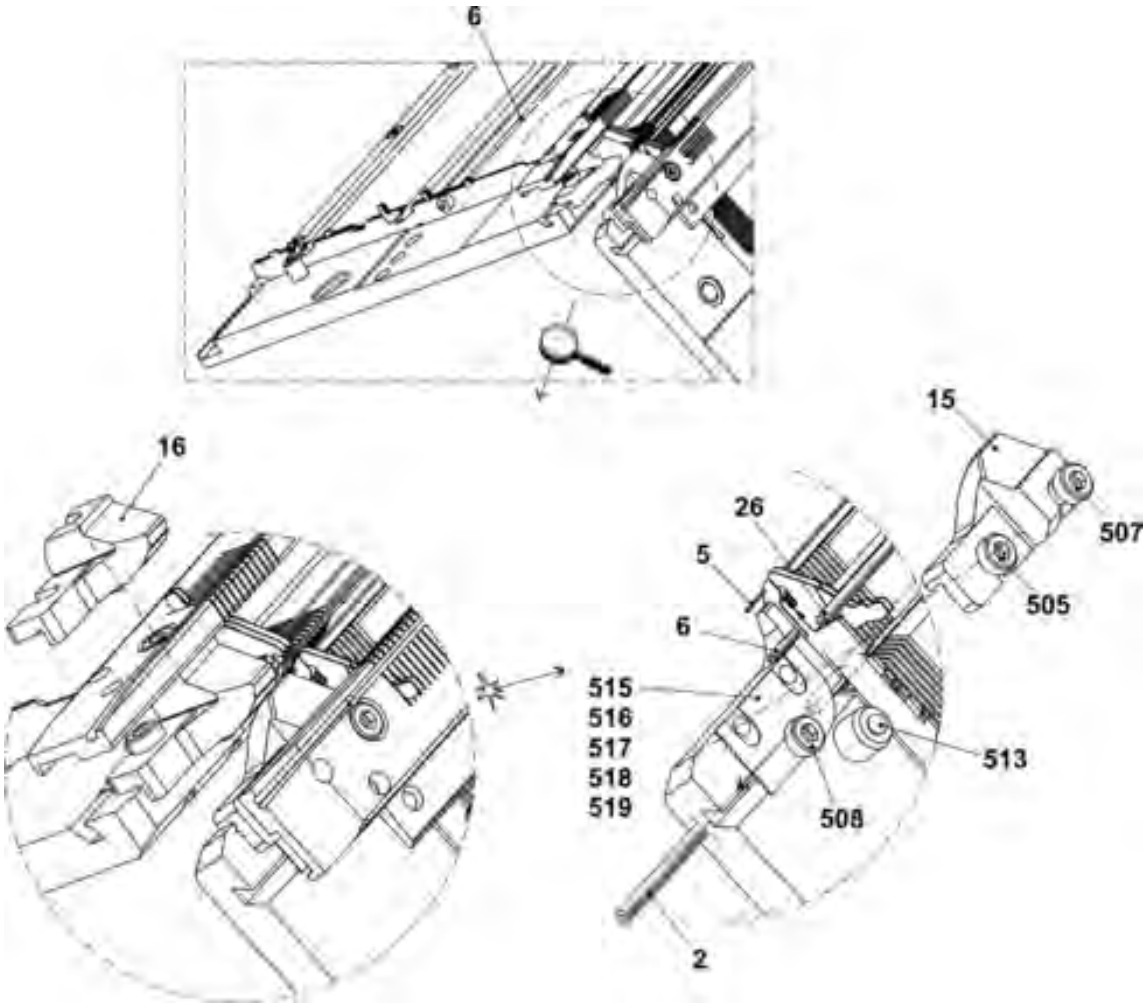
4.12 Needle bed E12m.10

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 and rear E12	252 064		19	Cover rail at the rear	250 572
3	Main trick wall E12	252 628		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
7a	Needle E10 with round hook	205 398		30	Needle rail on the left	253 908
7b	Coupling part E10 - E12	200 683		31	Needle rail on the right	253 910
9	Intermediate slider with brake E5-E8	237 324		34	Stop screw	214 039
10a	Selection jack E10-12	200 688		506	Cap screw M5x8	023 379
10b	Selector spring E10-12	200 691		507	Cap screw M5X22	023 193
11	Holding-down jack bed at the rear E12	250 545		509	Set screw M3,5x3-1	020 512
12	Holding-down jack bed at the front E12	250 544		510*	Cap screw M8x25	020 142
13	Knock-over bit E12	205 013		42*	Disk brush	202 600
14	Holding-down jack trick wall E12	227 821		540*	Cap screw M8x25	020 032
17	Needle rail on the left	237 835		541*	Adjusting washer P6x0,3	023 540
18	Needle rail on the right	237 836		43*	Adjusting bolt	251772



4.12.1 Continuation needle bed E12m.10

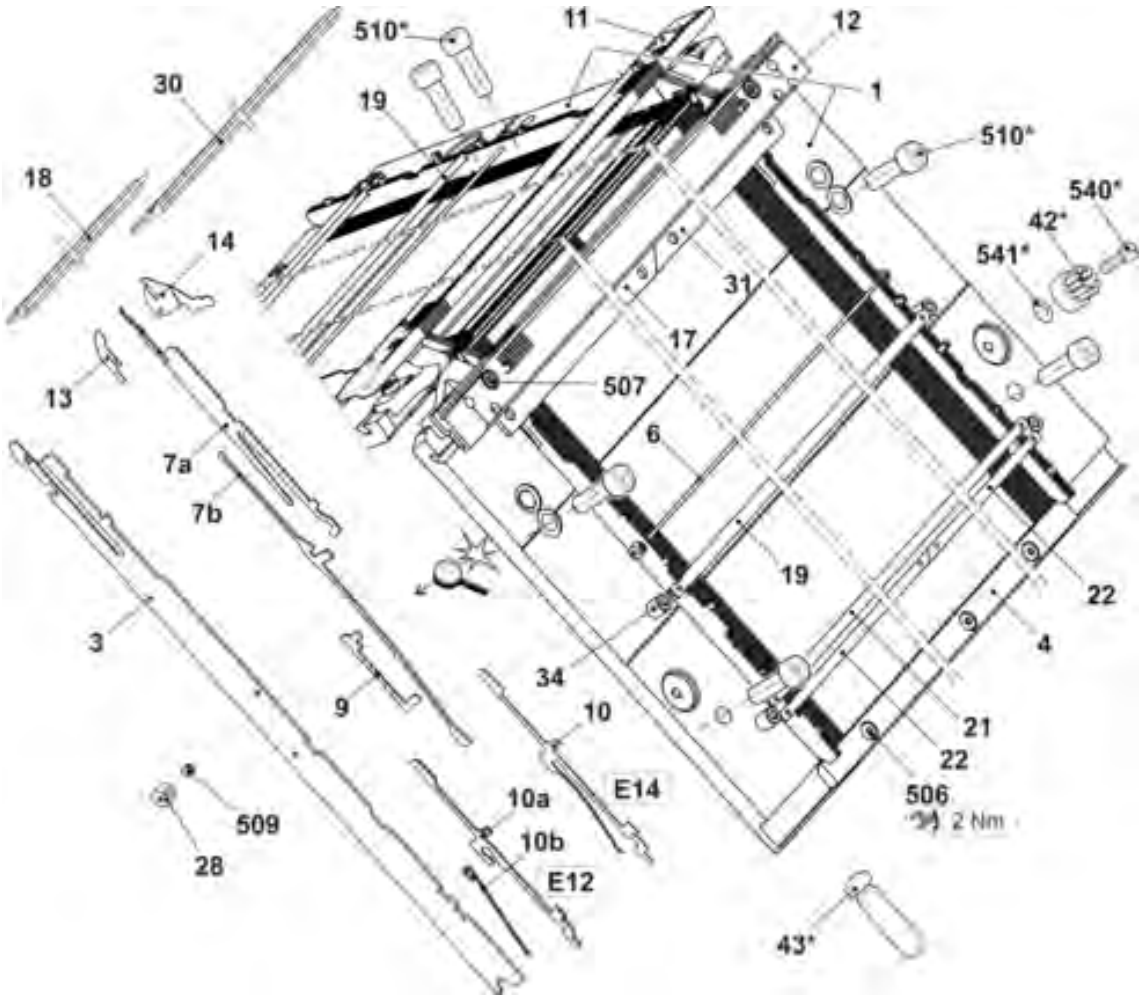
Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E12m.10	253 942		507	Cap screw M5X22	023 193
2	Fixed wire Ø3.4	208 389		508	Cap screw M8x25-12.9	022 943
5	Spring steel wire ø 2.0	208 388		513	Sprung thrust piece	023 177
6	Spring steel wire ø2,0	207 269		515	Shim 0.02x18.5x345	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	Fixed wire ø3.4	207 270		518	Shim 0.02x18.5x34	023 197
505	Cap screw M5x8-8.8	023 154		519	Shim 0.2X18.5X34	023 253



4.13 Needle bed E14/12

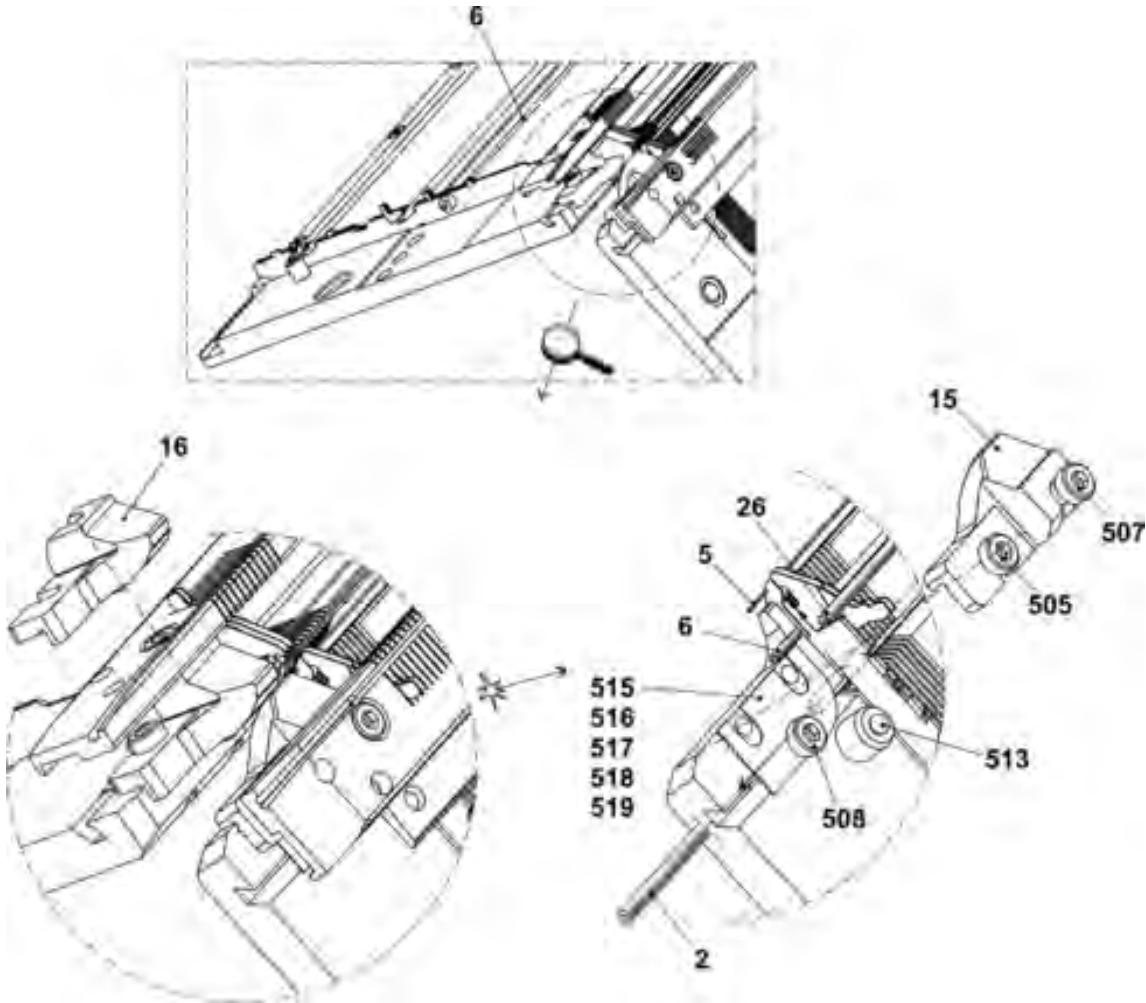
4.13 Needle bed E14/12

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E14/12	253 943		19	Cover rail at the rear	250 572
1	Needle bed at the front and rear E14	251 587		21	Cover rail	250 575
3	Main trick wall E14	252 629		22	Cover rail	250 576
4	Pressure slide E12 – E14	252 040		28	Bush	206 090
6	Spring steel wire ø2,0	207 269		30	Needle rail on the left	253 908
7a	Needle E14/12	227 756		31	Needle rail on the right	253 910
7b	Coupling part E14	253 383		34	Stop screw	214 039
9	Intermediate slider with brake E14	237 373		506	Cap screw M4-M5x8	023 379
10	Selection jack E14 with selector spring	224 725		507	Cap screw M5X22	023 193
11	Holding-down jack bed at the rear E7.2	250 920		509	Set screw M3,5x3-1	020 512
12	Holding-down jack bed at the front E7.2	250 919		510*	Cap screw M8x25	020 142
13	Knock-over bit E14	209 649		42*	Disk brush	202 600
14	Holding-down jack trick wall E14	235 262		540*	Cap screw M8x25	020 032
17	Needle rail on the left	237 835		541*	Adjusting washer P6x0,3	023 540
18	Needle rail on the right	237 836		43*	Adjusting bolt	251 772



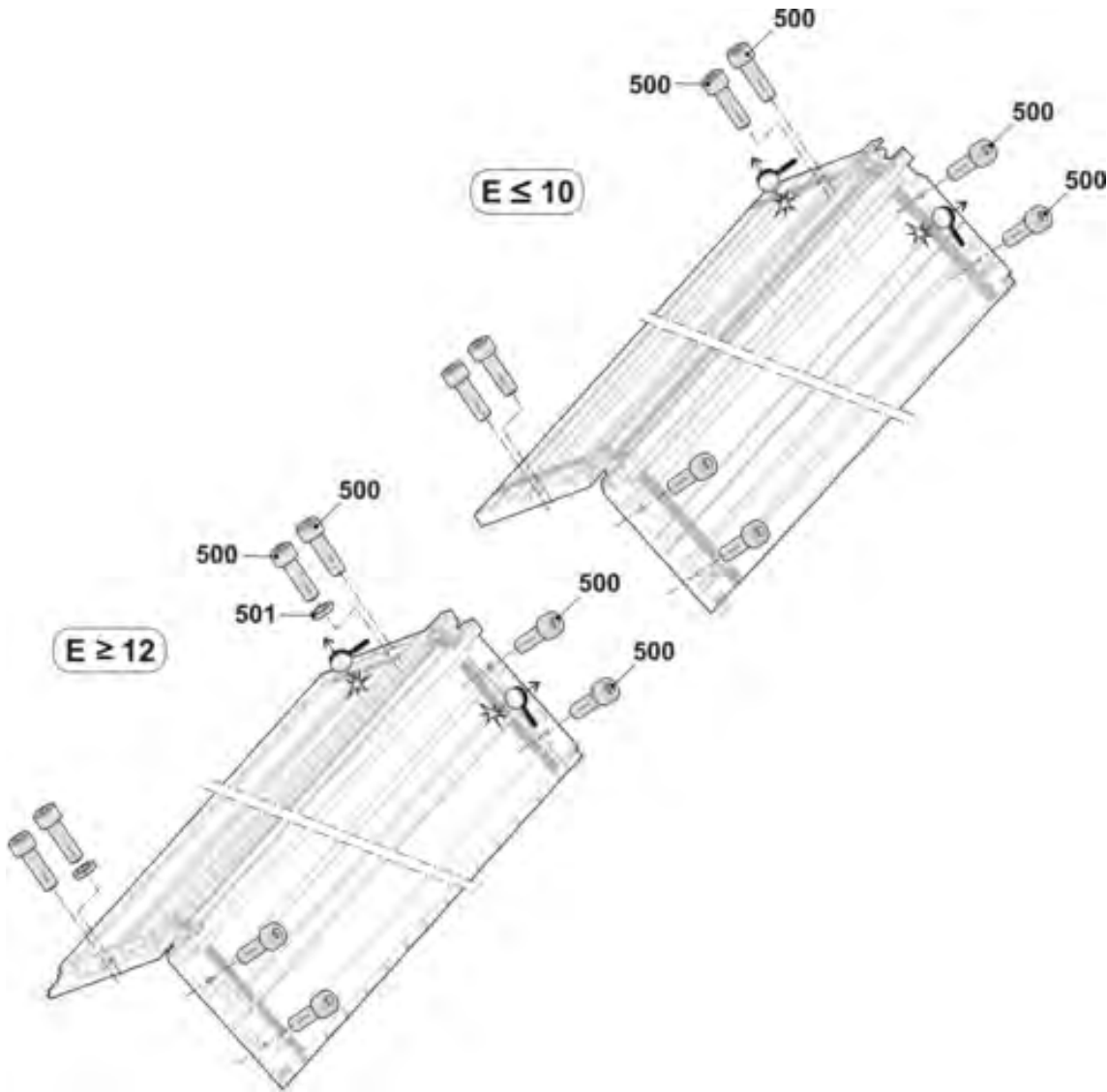
4.13.1 Continuation needle bed E14/12

Pos	Designation	Id		Pos	Designation	Id
Σ	Needle bed complete at the front and rear E14/12	253 943		507	Cap screw M5X22	023 193
2	Fixed wire Ø3.4	208 389		508	Cap screw M8x25-12.9	022 943
5	Spring steel wire ø 2.0	208 388		513	Sprung 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	Fixed wire ø3.4	207 270		518	Shim 0.02x18.5x34	023 197
505	Cap screw M5x8-8.8	023 154		519	Shim 0.2X18.5X34	023 253



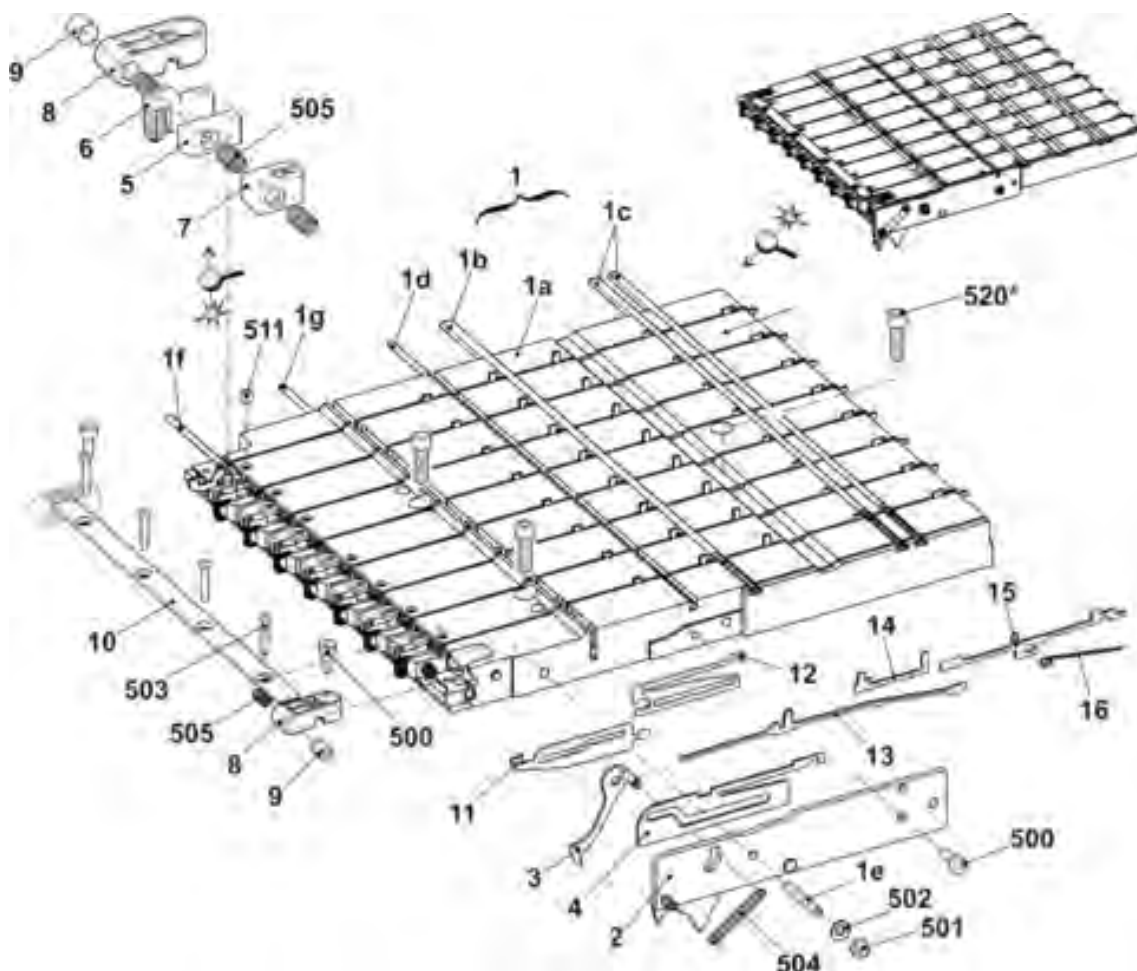
4.14 Needle beds, fixing elements

Pos	Designation	Id		Pos	Designation	Id
Σ	Fixing elements					
500	Cap screw M8x25	020 142		501	U-washer	214 040



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

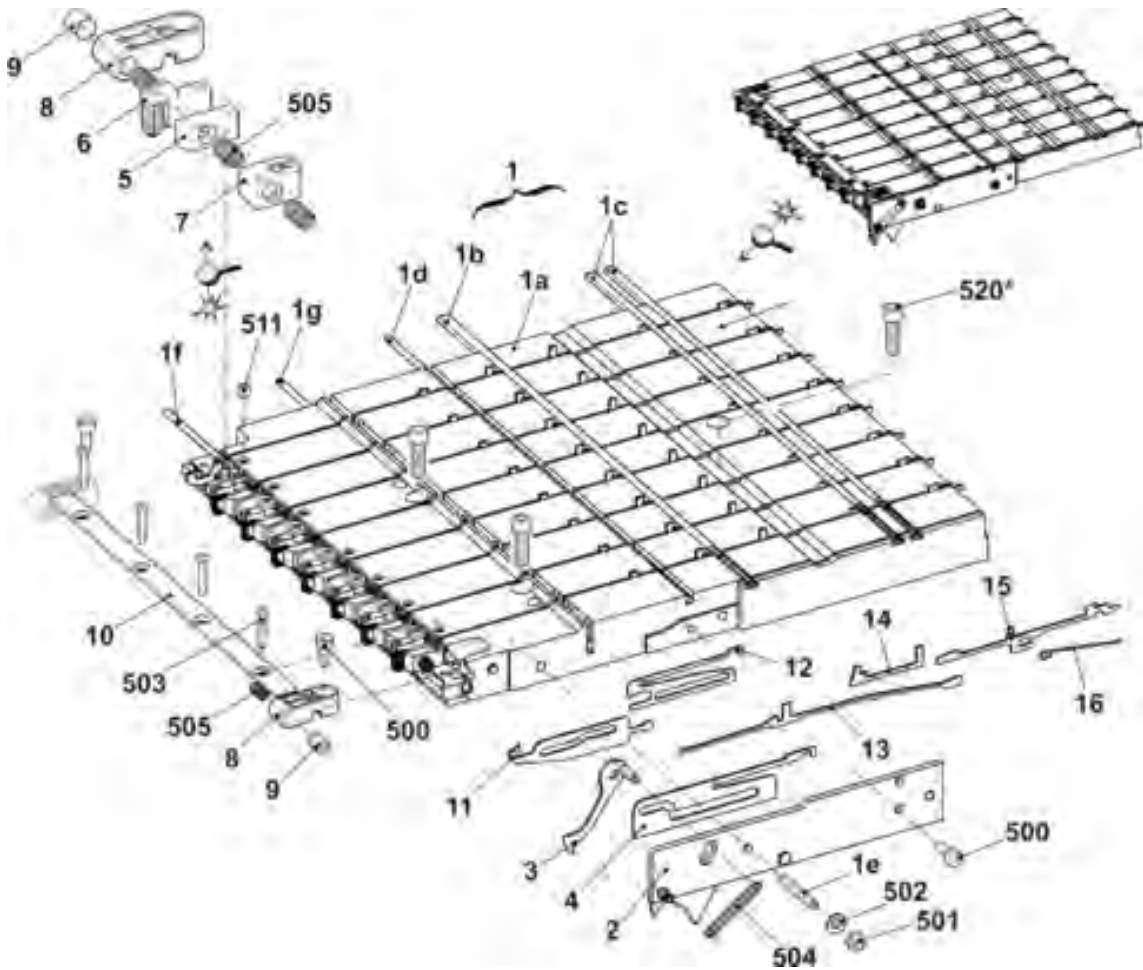
Pos	Designation	Id	Pos	Designation	Id
Σ	Clamping/cutting bed E5-14 on the right	257 197	8	Spring holder	255 724
1	Guide plate on the right E5-14	257 193	9	Threaded bolt	255 723
1a	Guide plate on the right E5-14	257 189	10	Holding strip	253 176
1b	Cover rail	253 173	11	Tuck needle on the right E5-14	255 692
1c	Cover rail	253 174	12	Intermediate cam E10-14	244 591
1d	Fixed wire	253 172	13	Coupling part E4-8	200 682
1e	Guide pin	211 351	14	Intermediate slider with brake E5-8	237 323
F 1	Fixed wire	253 171	15	Selection jack E10-12	200 687
1g	Fixed wire	215 927	16	Selector spring E10-12	200 690
511	Set screw M5x5	236 061	500	Cap screw M4X10	023 136
2	Cover on the right complete E10-14	251 119	501	Hexagon nut M4	023 046
3	Catch hook on the right E10-14	251 378	502	U-washer 4	020 870
4	Slider E5-14	253 084	503	Countersunk screw M3x18	242 728
5	Blade	243 948	504	Tension spring 5x0.55x18.9	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 screw M6X20	244 824



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

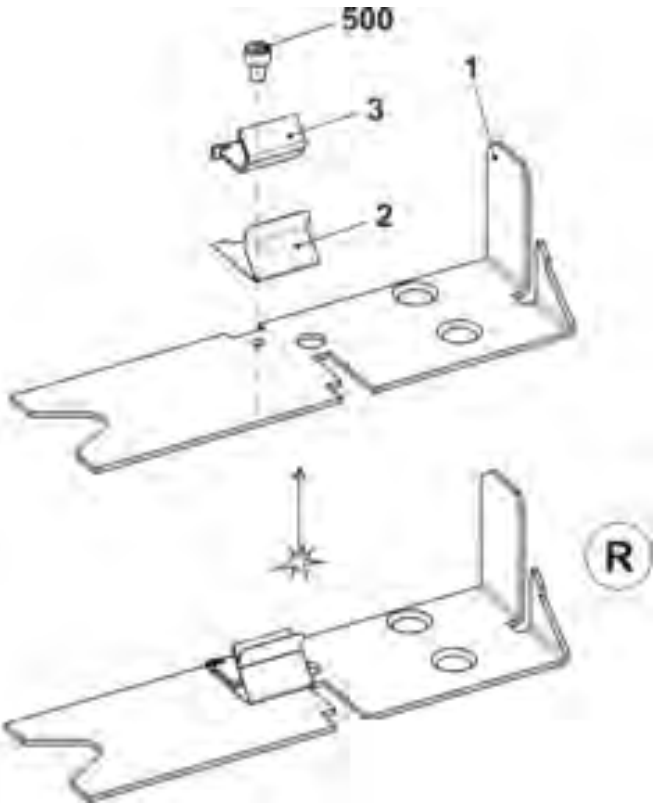
4.16 Right clamping/cutting bed E16 | E18 | E8.2

Pos	Designation		Id	Pos	Designation		Id
Σ	Clamping/cutting bed on the right E16-18		257 199	8	Spring holder		255 724
1	Guide plate on the right E16-18		257 195	9	Threaded bolt		255 723
	1a	Guide plate on the right E16-18	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	Fixed wire	253 172	13	Coupling part E10-12		200 683
	1e	Guide pin	211 351	14	Intermediate slider with brake E10-12		237 324
	F 1	Fixed wire	253 171	15	Selection jack E10-12		200 688
	1g	Fixed wire	215 927	16	Selector spring E10-12		200 691
	511	Set screw M5x5	236 061	500	Cap screw M4X10		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	U-washer 4		020 870
4	Slider E16-20		242 828	503	Countersunk screw M3x18		242 728
5	Blade		243 948	504	Tension spring 5x0.55x18.9		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 screw M6X20		244 824



4.17 Yarn brake at clamping/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 screw M4X6	023 067



4.17 Yarn brake at clamping/cutting bed

Notes:

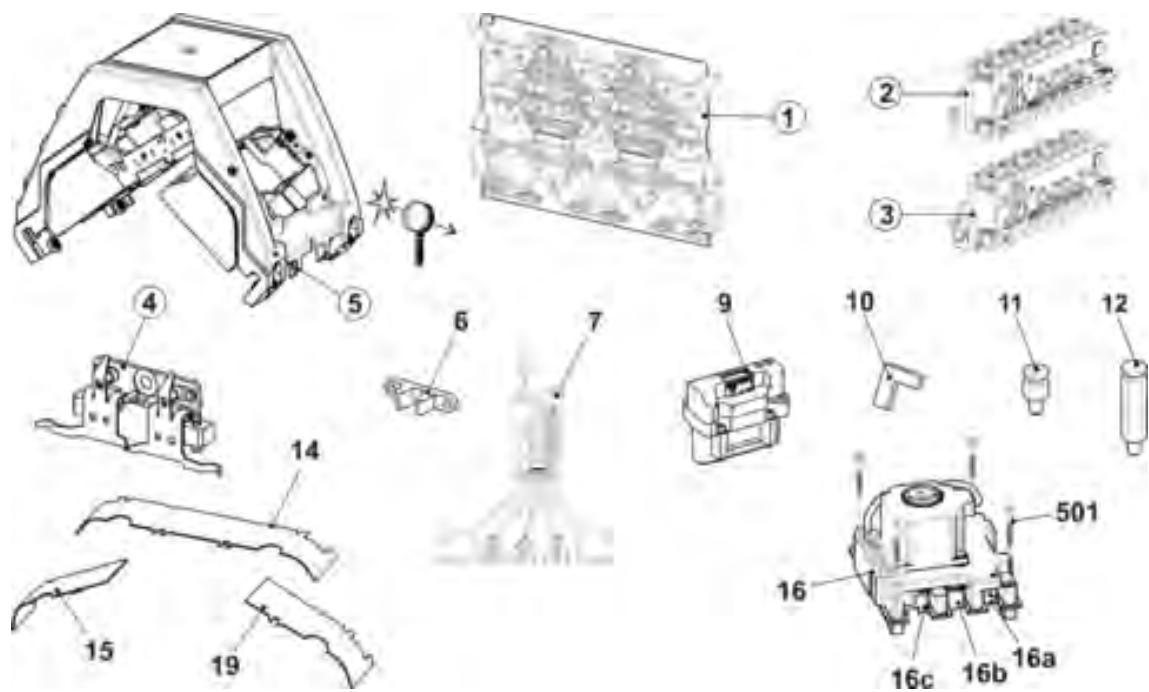
5 Carriage



5.1 Overview of carriage

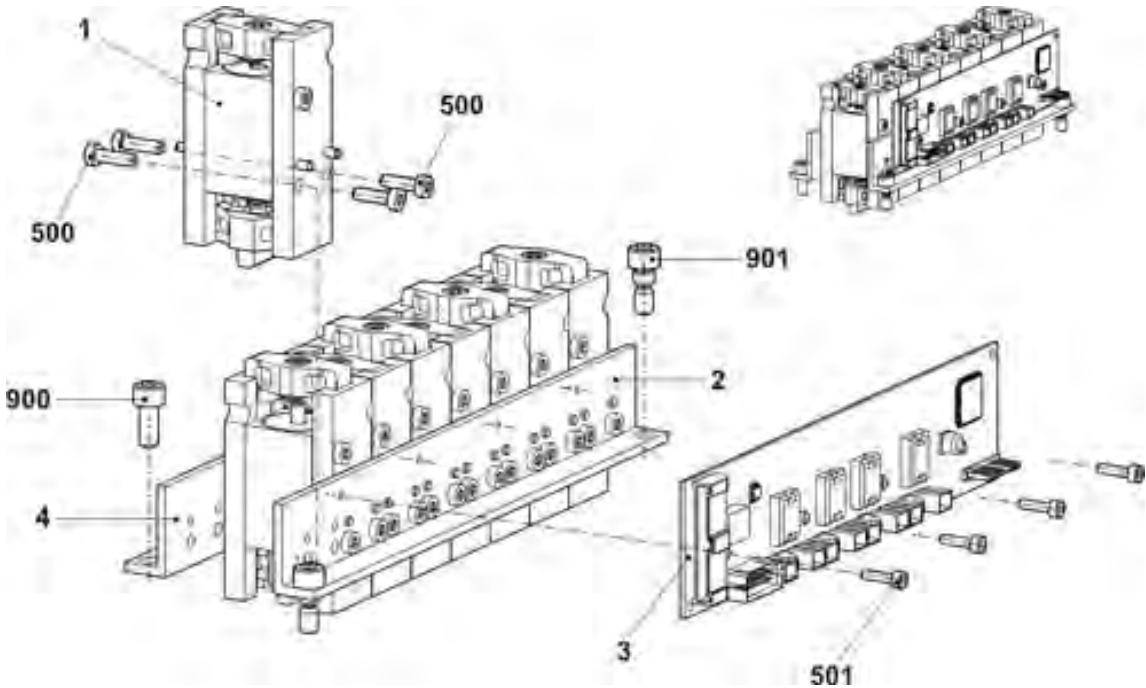
5.1 Overview of carriage

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	
	E9.2	256 084			E9.2	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	YC driving outside complete			241 080	12	Bolt
3	YC 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 complete E10-12	216 218		16c	Gear rack at the bottom	209 783	
10	Wiper (felt)	241 411	19	Cover plate at the bottom		251 127	
11	Bolt	212 392	501	Cap screw M4x30		023 290	



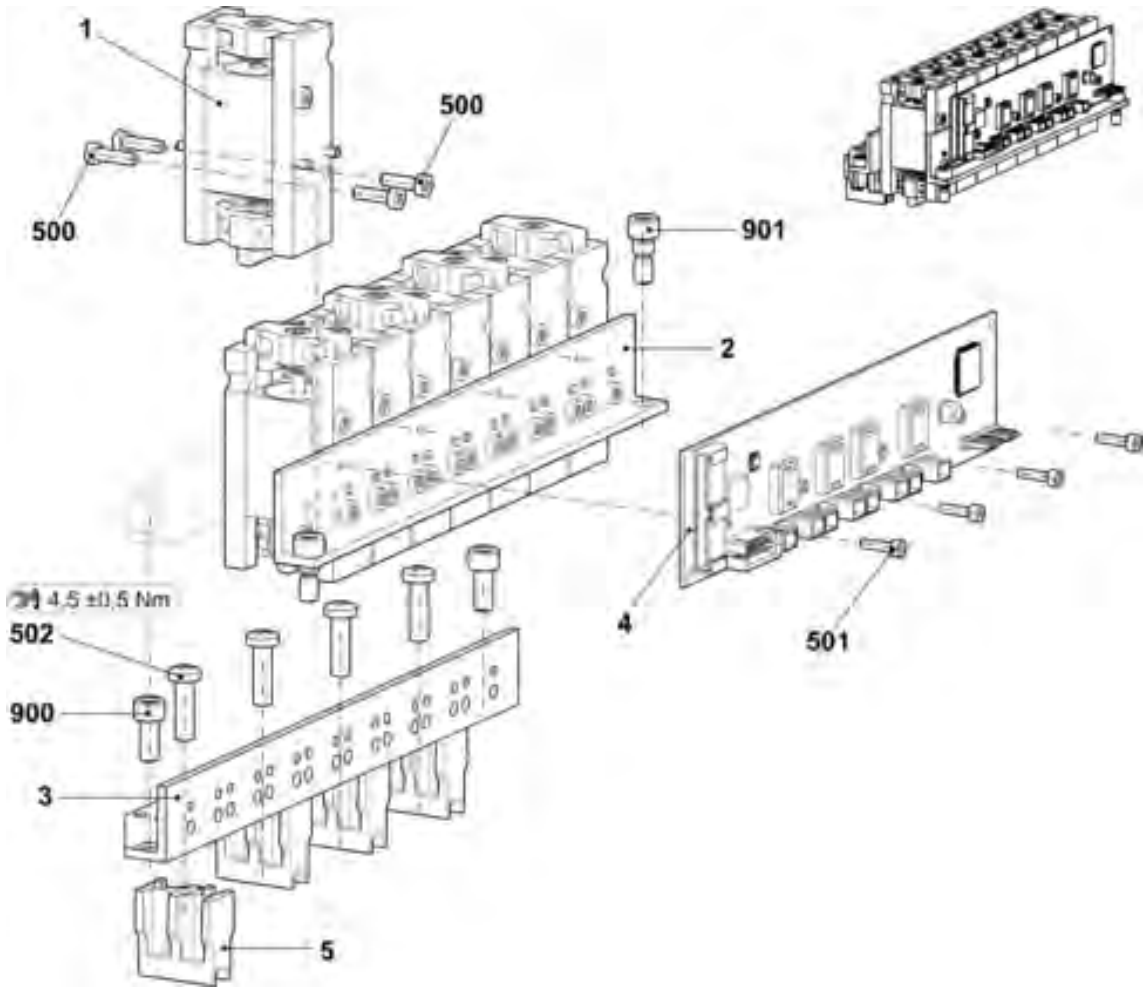
5.2 Yarn carrier driving without guiding part

Pos	Designation	Id		Pos	Designation	Id
Σ	YC driving outside complete	241 080				
1	Yarn carrier plunger complete	242 214		500	Cap screw M4x14-I-Torx	242 279
2	Support angle for jack	241 038		501	Cap screw M3x12-12.9	022 648
3	Card yarn carrier final stages	300 960		900	Cap screw M6X14	022 658
4	Support angle for YC driving	242 903		901	Shoulder screw	231 899



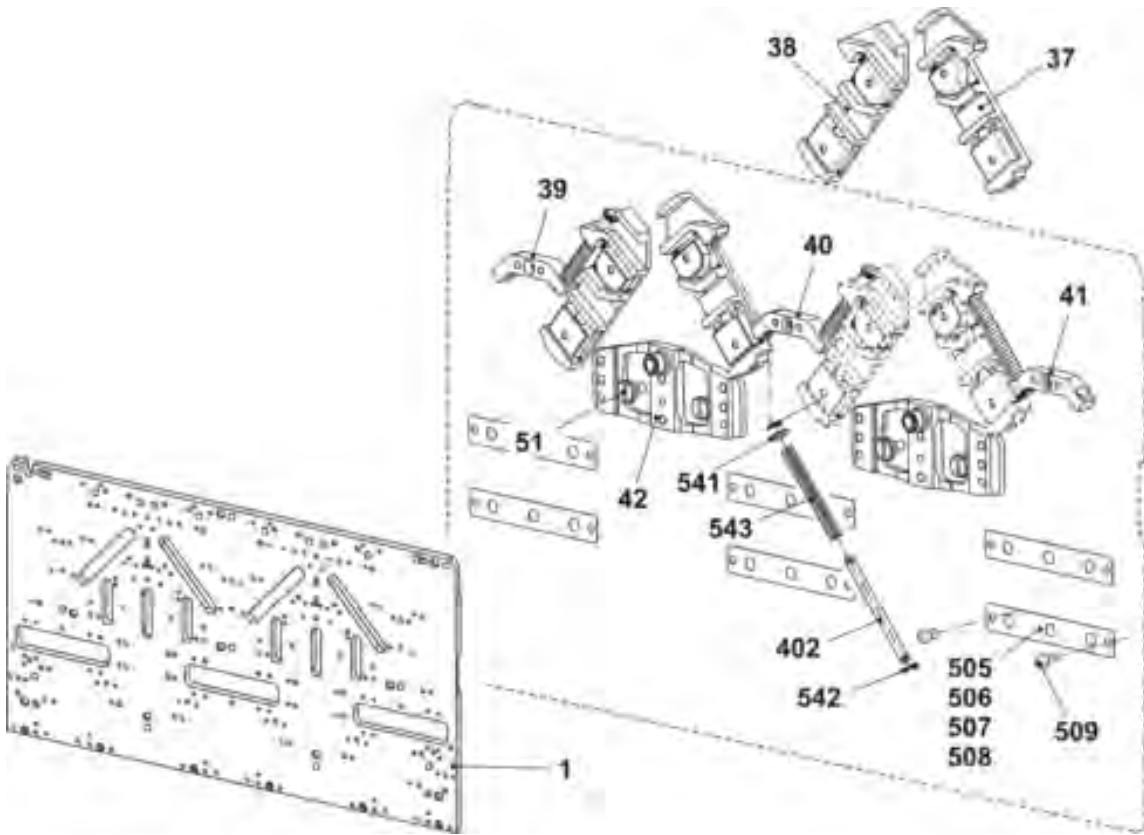
5.3 Yarn carrier driving with guiding part

Pos	Designation	Id		Pos	Designation	Id
Σ	YC driving in the middle complete	241 081				
1	Yarn carrier plunger complete	242 214		500	Cap screw M4x14-I-Torx	242 279
2	Support angle for jack	241 038		501	Cap screw M3x12-12.9	022 648
3	Support angle for YC driving	241 044		502	Screw KB60 x 20	243 625
4	Card yarn carrier final stages	300 960		900	Cap screw M6X14	022 658
5	Guide part	239 972		901	Shoulder screw	231 899



5.4 Cam box E5 | E3,5.2 | E7m.

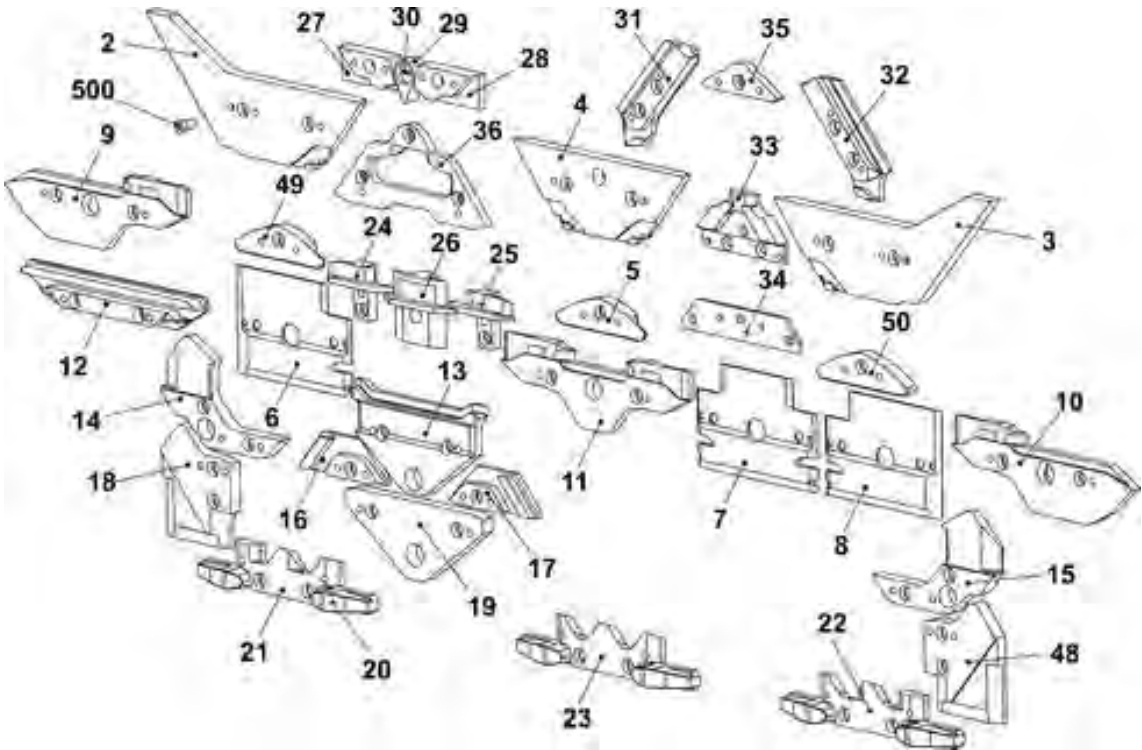
Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box complete E5	250 983	42	Switching piece	240 281
1	Cam plate	250 177	51	Shoulder screw	239 626
37	Stitch forming cam on the right complete E5-10	211 163	505	Shim 0,03x11x80	022 828
38	Stitch forming cam on the left complete E5-10	211 164	506	Shim 0.05x12x75	022 829
39	Rod guide element on the left	211 165	507	Shim 0.1x12x75	022 830
40	Rod guide element in the middle	211 166	508	Shim 0,2x12x75	022 831
41	Rod guide element on the right	211 168	509	Countersunk screw	023 142
402	Spring rod	209 791			
541	Washer 4,3x7x0,5	022 153			
542	Circlip 3.2	021 019			
543	Spring	023 344			



5.4 Cam box E5 | E3,5.2 | E7m.

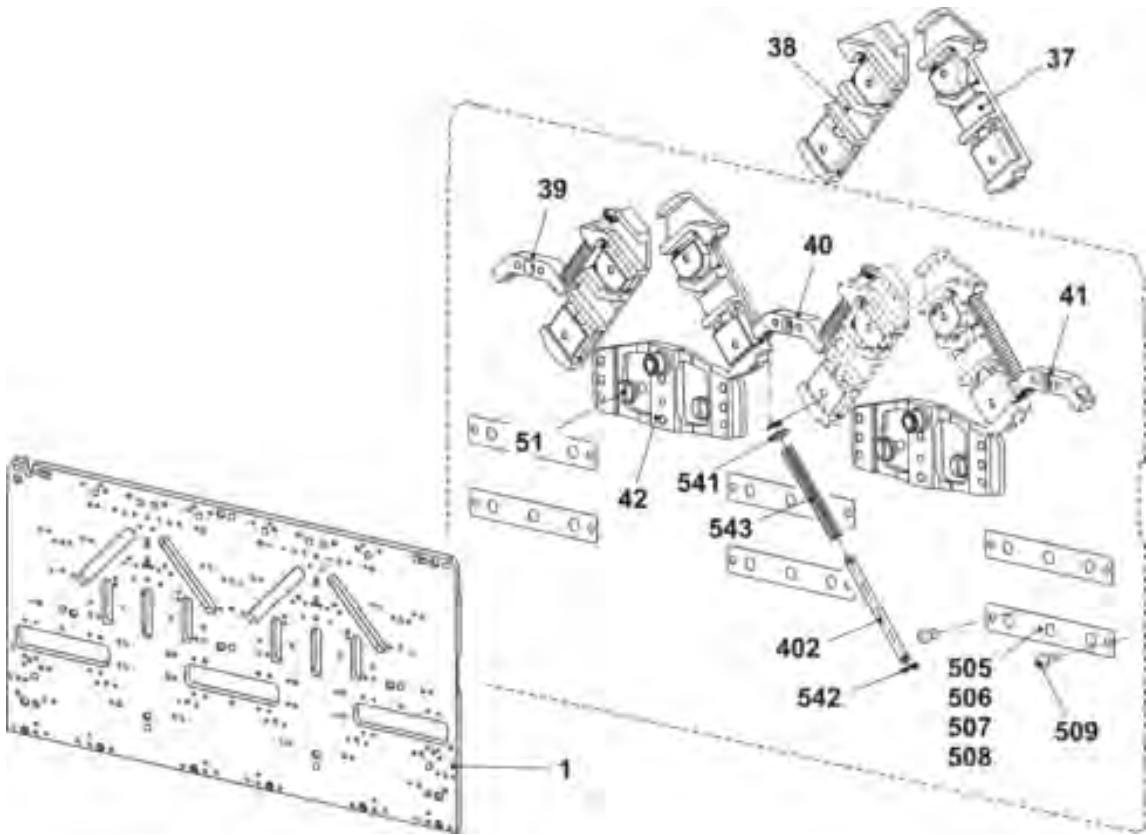
5.4.1 Continuation cam box E5 | E3,5.2 | E7m.5

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



5.5 Cam box E7

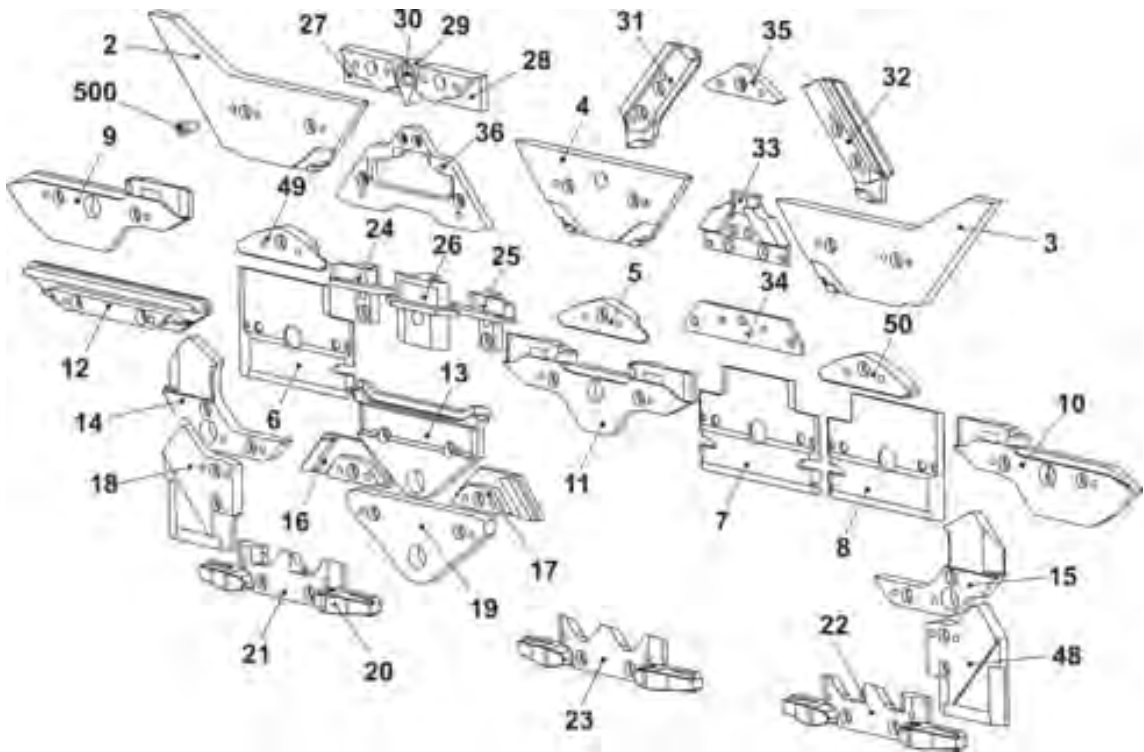
Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box complete E7	250 673	42	Switching piece	240 281
1	Cam plate	250 177	51	Shoulder screw	239 626
37	Stitch forming cam on the right complete E5 - E10	211 163	505	Shim 0,03x11x80	022 828
38	Stitch forming cam on the left complete E5 - E10	211 164	506	Shim 0.05x12x75	022 829
39	Rod guide element on the left	211 165	507	Shim 0.1x12x75	022 830
40	Rod guide element in the middle	211 166	508	Shim 0,2x12x75	022 831
41	Rod guide element on the right	211 168	509	Countersunk screw M6x10	023 142
402	Spring rod	209 791			
541	Washer 4,3x7x0,5	022 153			
542	Circlip 3.2	021 019			
543	Spring	023 344			



5.5 Cam box E7

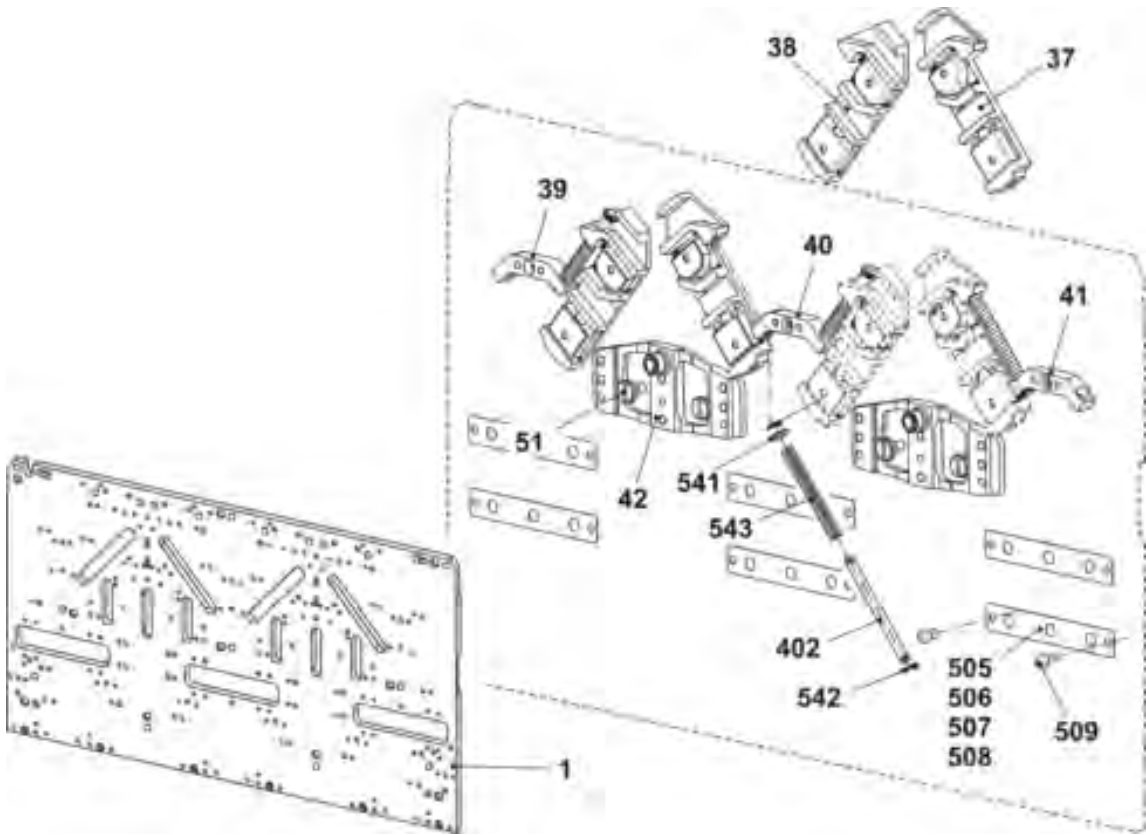
5.5.1 Continuation cam box E7

Pos	Designation	Id		Pos	Designation	Id
Σ	Cam box complete E7	250 673		22	Selector cam on the right	212 947
2	Entry cam on the left	213 304		23	Selector cam	212 946
3	Entry cam on the right	213 303		24	Pressure part take-over on the left	239 848
4	Entry cam at the top	210 285		25	Pressure part take-over on the right	239 849
5	Entry cam at the bottom E5-8	212 395		26	Tuck pressure part	239 621
6	Plate on the left	230 988		27	Limit cam on the left E7-8	210 291
7	Plate in the middle	231 035		28	Limit cam on the right E7-8	210 292
8	Plate on the right	231 036		29	Pointer E5-8	210 336
9	Cam on the left	231 039		30	Screw	210 335
10	Cam on the right	231 041		31	Stitch cam on the left E7-8	210 324
11	Cam part at the center	231 040		32	Stitch cam on the right E7-8	210 323
12	Cam	227 923		33	Tuck limit cam E7-8	255 056
13	Cam	210 254		34	Raising cam plate E4-12	204 372
14	Cam on the left E5-14	212 265		35	Receiving cam E7-8	210 339
15	Cam on the right E5-14	212 266		36	Raising cam without split E7-8	255 055
16	Cam on the left	236 192			Raising cam with split E7-8	255 192
17	Cam on the right	236 193			Accessory	
18	Cam on the left E5-14	212 274		48	Cam on the right E5-14	212 275
19	Cam	210 252		49	Entry cam on the left E5-8	213 161
20	Offering cam	210 185		50	Entry cam on the right E5-8	213 162
21	Selector cam on the left	212 944		500	Cap screw M6x16	020 091



5.6 Cam box E12

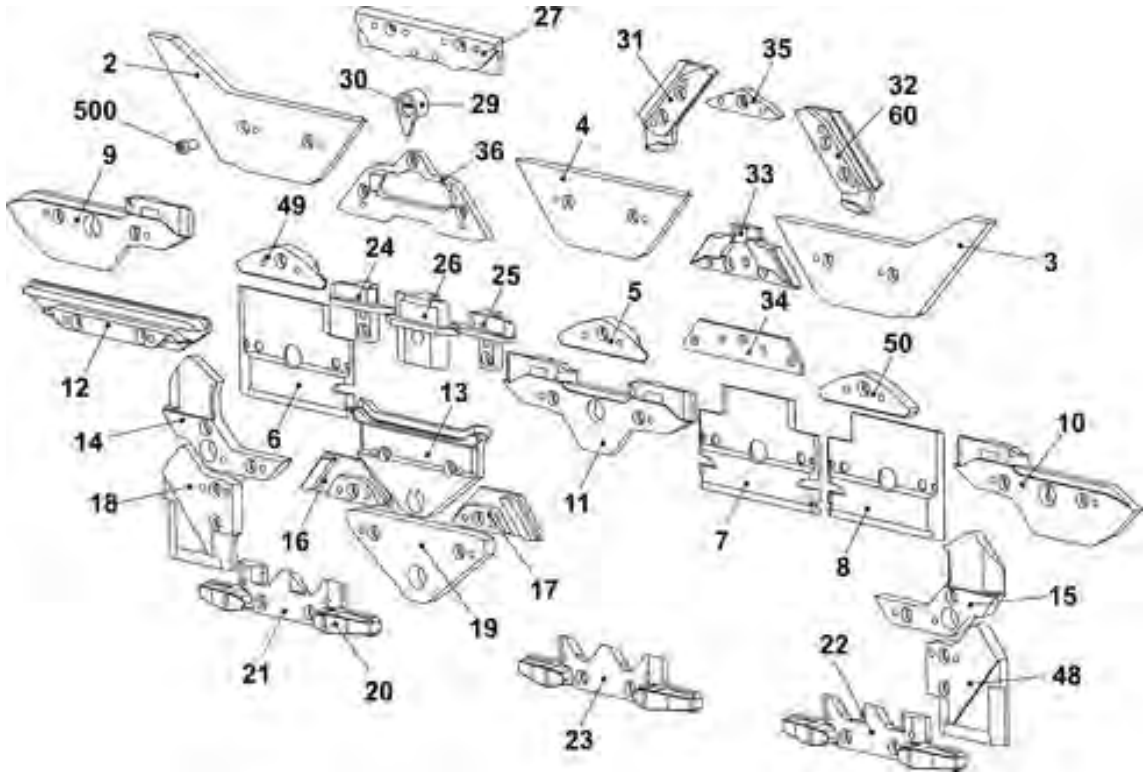
Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box set complete E12	251 016	42	Switching piece	240 281
1	Cam plate	250 177	51	Shoulder screw	239 626
37	Stitch forming cam on the right complete E5-10	214 088	505	Shim 0,03x11x80	022 828
38	Stitch forming cam on the left complete E5-10	214 089	506	Shim 0.05x12x75	022 829
39	Rod guide element on the left	211 165	507	Shim 0.1x12x75	022 830
40	Rod guide element in the middle	211 166	508	Shim 0,2x12x75	022 831
41	Rod guide element on the right	211 168	509	Countersunk screw M6x10	023 142
402	Spring rod	209 791			
541	Washer 4,3x7x0,5	022 153			
542	Circlip 3.2	021 019			
543	Spring	023 344			



5.6 Cam box E12

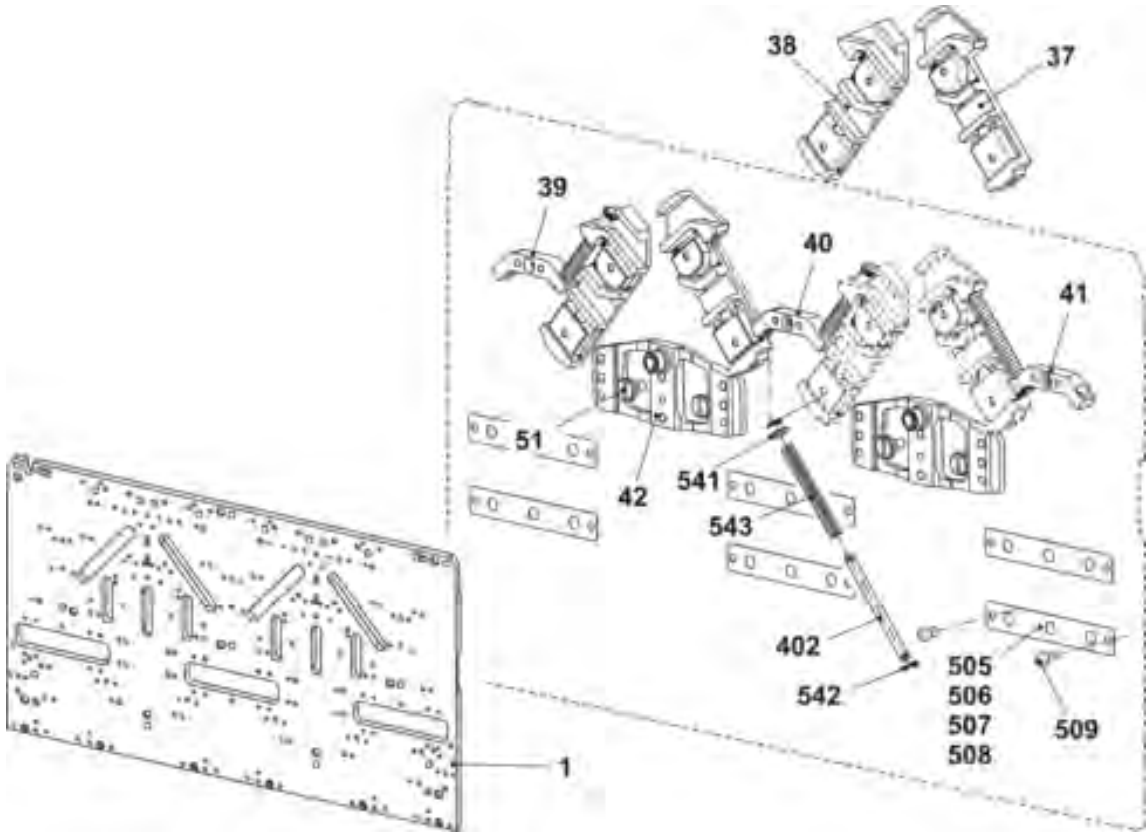
5.6.1 Continuation cam box E12

Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box set complete E12	251 016	22	Selector cam on the right	212 947
2	Entry cam on the left	243 595	23	Selector cam	212 946
3	Entry cam on the right	243 597	24	Pressure part take-over on the left	239 848
4	Entry cam in the middle	243 596	25	Pressure part take-over 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	Limit 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 on 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 limit cam E12	236 403
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 E10-12	237 993
15	Cam on the right E5-14	212 266		Raising cam with split E10 – E12 Accessory	213 300
16	Cam on the left	236 192	48	Cam on the right E5-14	212 275
17	Cam on 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	60	Stitch cam at the rear on the right E10 - E12	236 320
20	Offering cam	210 185	500	Cap screw M6x16	020 091
21	Selector cam on the left	212 944			



5.7 Cam box E14 | E14/12

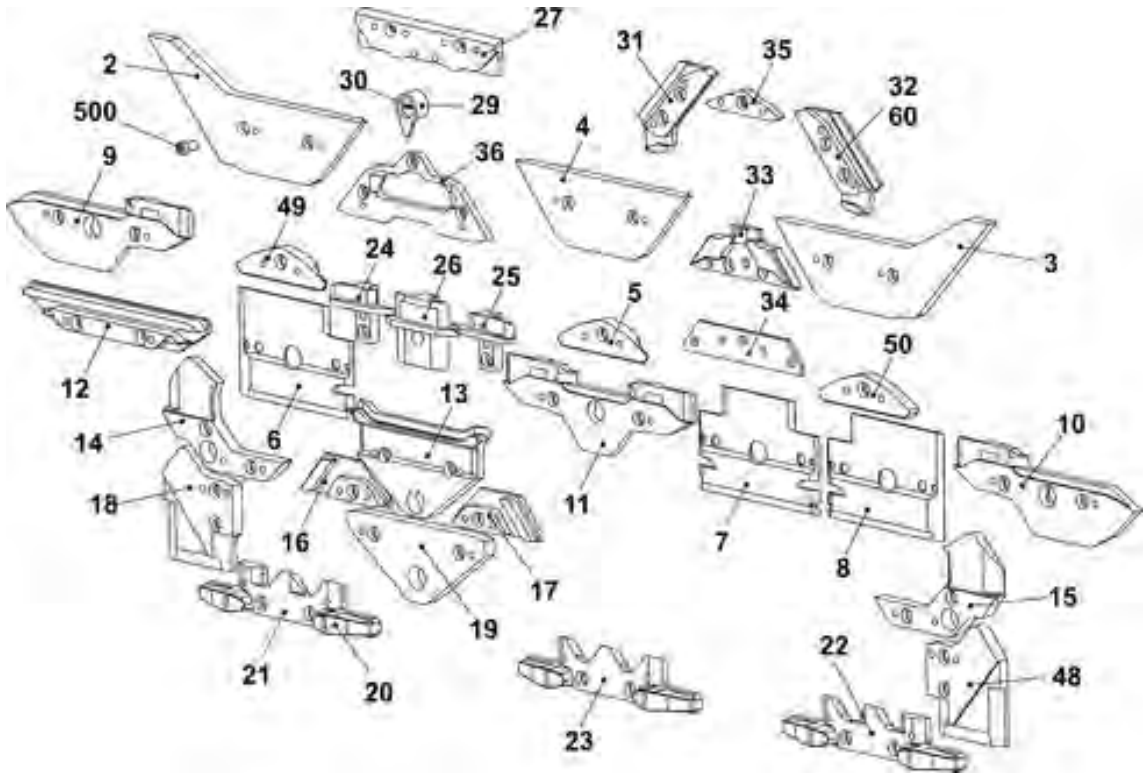
Pos	Designation		Id		Pos	Designation		Id
Σ	Cam box complete E14		250 313					
1	Cam plate		250 177		42	Switching piece		240 281
37	Stitch forming cam on the right complete E5-10		214 088		51	Shoulder screw		239 626
38	Stitch forming cam on the left complete E5-10		214 089		505	Shim 0,03x11x80		022 828
39	Rod guide element on the left		211 165		506	Shim 0.05x12x75		022 829
40	Rod guide element in the middle		211 166		507	Shim 0.1x12x75		022 830
41	Rod guide element on the right		211 168		508	Shim 0,2x12x75		022 831
	402	Spring rod	209 791		509	Countersunk screw M6x10		023 142
	541	Washer 4,3x7x0,5	022 153					
	542	Circlip 3.2	021 019					
	543	Spring	023 344					



5.7 Cam box E14 | E14/12

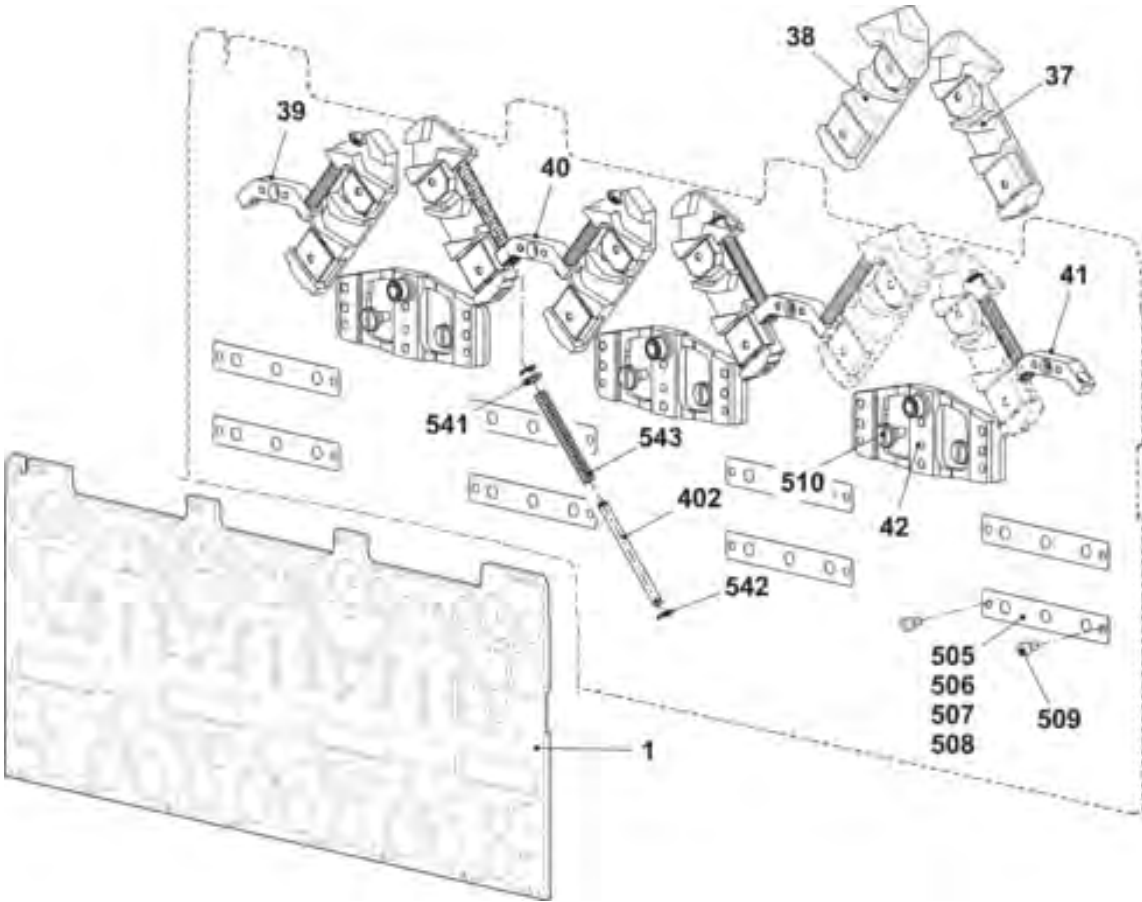
5.7.1 Continuation cam box E14 | E14/12

Pos	Designation	Id	Pos	Designation	Id
Σ	Cam box complete E14	250 313			
2	Entry cam on the left	243 595	22	Selector cam on the right	212 947
3	Entry cam on the right	243 597	23	Selector cam	212 946
4	Entry cam in the middle	243 596	24	Pressure part take-over on the left	239 848
5	Entry cam at the bottom -1,5 E10-14	216 328	25	Pressure part take-over on the right	239 849
6	Plate on the left	230 988	26	Tuck pressure part	239 621
7	Plate in the middle	231 035	27	Limit cam 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 on 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.	236 319
12	Cam	227 923	33	Tuck limit 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 on the right E5-14	212 266	36	Raising cam without split E14	236 767
16	Cam on the left	236 192		Raising cam with split E14	214 212
17	Cam on the right	236 193		Accessory	
18	Cam on the left E5-14	212 274	48	Cam on the right E5-14	212 275
19	Cam	210 252	49	Entry cam on the left -1,5 E10-14	216 329
20	Offering cam	210 185	50	Entry cam on the right -1,5 E10-14	216 330
21	Selector cam on the left	212 944	500	Cap screw M6x16	020 091



5.8 Cam box E16 | E18

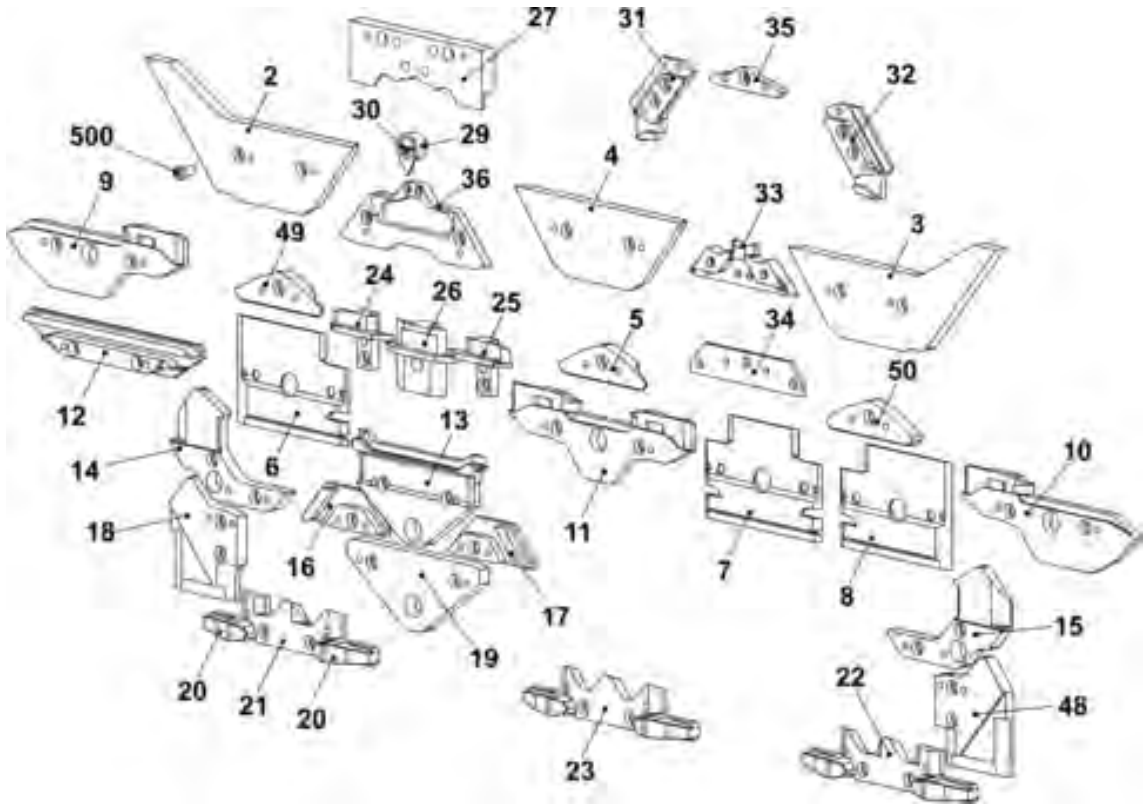
Pos	Designation		Id		Pos	Designation		Id	
Σ	Cam box complete E16 - E18		256 972		42	Switching piece		240 281	
1	Cam plate		250 177		505	Shim 0,03x11x80		022 828	
37	Stitch forming cam on the right complete E16-20		221 123		506	Shim 0.05x12x75		022 829	
38	Stitch forming cam on the left complete E16-20		221 124		507	Shim 0.1x12x75		022 830	
39	Rod guide element on the left		211 165		508	Shim 0,2x12x75		022 831	
40	Rod guide element in the middle		211 166		509	Countersunk screw M6x10		023 142	
41	Rod guide element on the right		211 168		510	Shoulder screw		239 626	
	402	Spring rod	209 791						
	541	Washer 4,3x7x0,5	022 153						
	542	Circlip 3.2	021 019						
	543	Spring	023 344						



5.8 Cam box E16 | E18

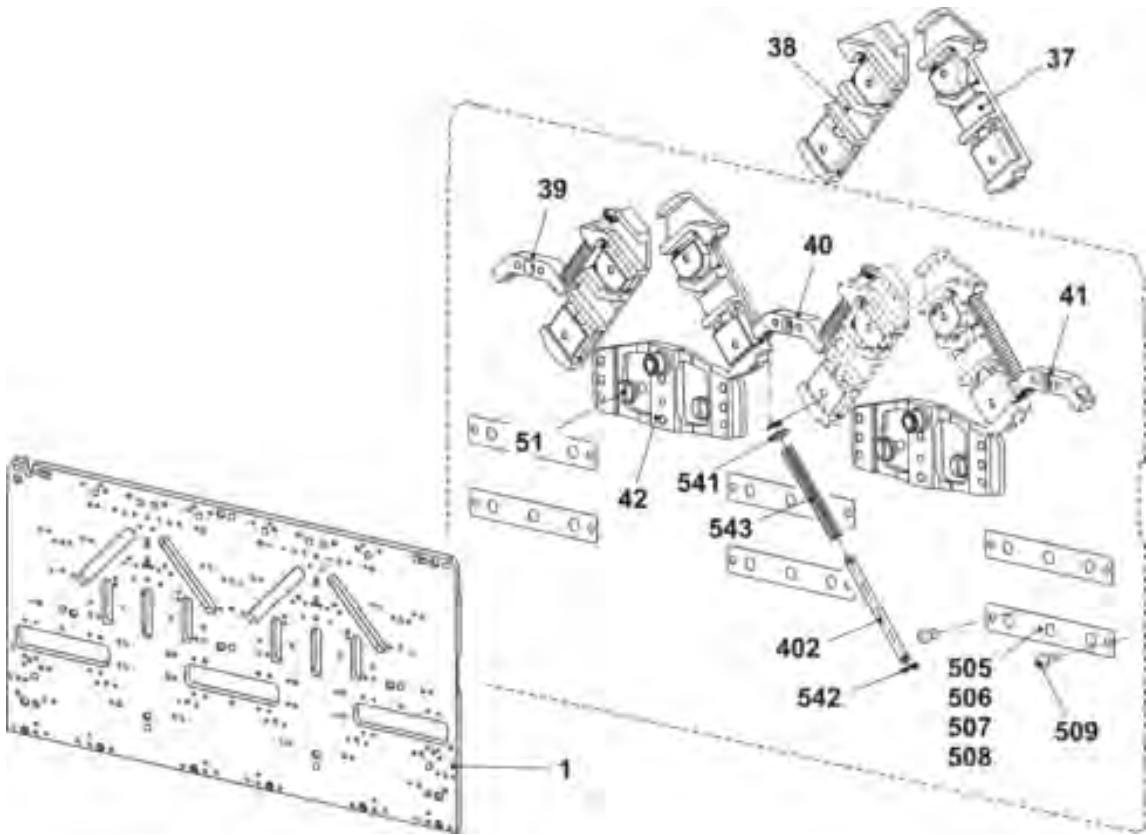
5.8.1 Continuation cam box E16 | E18

Pos	Designation	Id		Pos	Designation	Id
Σ	Cam box completeE16-18	256 972		22	Selector cam on the right	212 947
2	Entry cam on the left	243 595		23	Selector cam	212 946
3	Entry cam on the right	243 597		24	Pressure part take-over on the left	239 848
4	Entry cam in the middle	243 596		25	Pressure part take-over 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	Limit 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 on the right	231 041		32	Stitch cam on the right E16-20	220 871
11	Cam part at the center	231 040		33	Tuck limit cam E7-8	239 936
12	Cam	227 923		34	Raising cam plate E4-12	204 372
13	Cam	210 254		35	Receiving cam E16-20	220 863
14	Cam on the left E5-14	212 265		36	Raising cam without split E16-18	239 457
15	Cam on the right E5-14	212 266			Raising cam with split E16–E18 ((Accessory)	239 742
16	Cam on the left	236 192		48	Cam on the right E5-14	212 275
17	Cam on 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	210 252		500	Cap screw M6x16	020 091
20	Offering cam	210 185				
21	Selector cam on the left	212 944				



5.9 Cam box E6.2

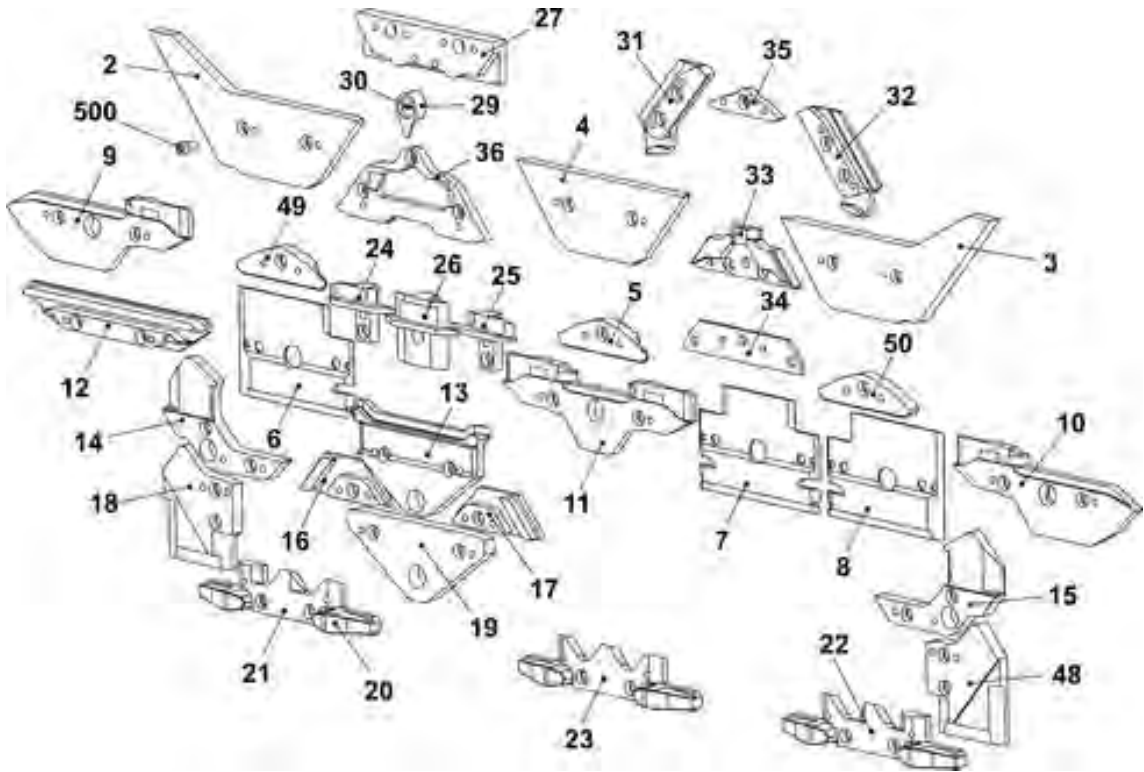
Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Cam box complete E6.2	250 990	42	Switching piece	240 281
1	Cam plate	250 177	51	Shoulder screw	239 626
37	Stitch forming cam on the right complete E12-14	214 088	505	Shim 0.03x12x75	022 828
38	Stitch forming cam on the left complete E12-14	214 089	506	Shim 0.05x12x75	022 829
39	Rod guide element on the left	211 165	507	Shim 0.1x12x75	022 830
40	Rod guidance part middle	211 166	508	Shim 0,2x12x75	022 831
41	Rod guide element on the right	211 168	509	Countersunk screw	023 142
402	Spring rod	209 791			
541	Washer 4,3x7x0,5	022 153			
542	Circlip 3.2	021 019			
543	Spring	023 344			



5.9 Cam box E6.2

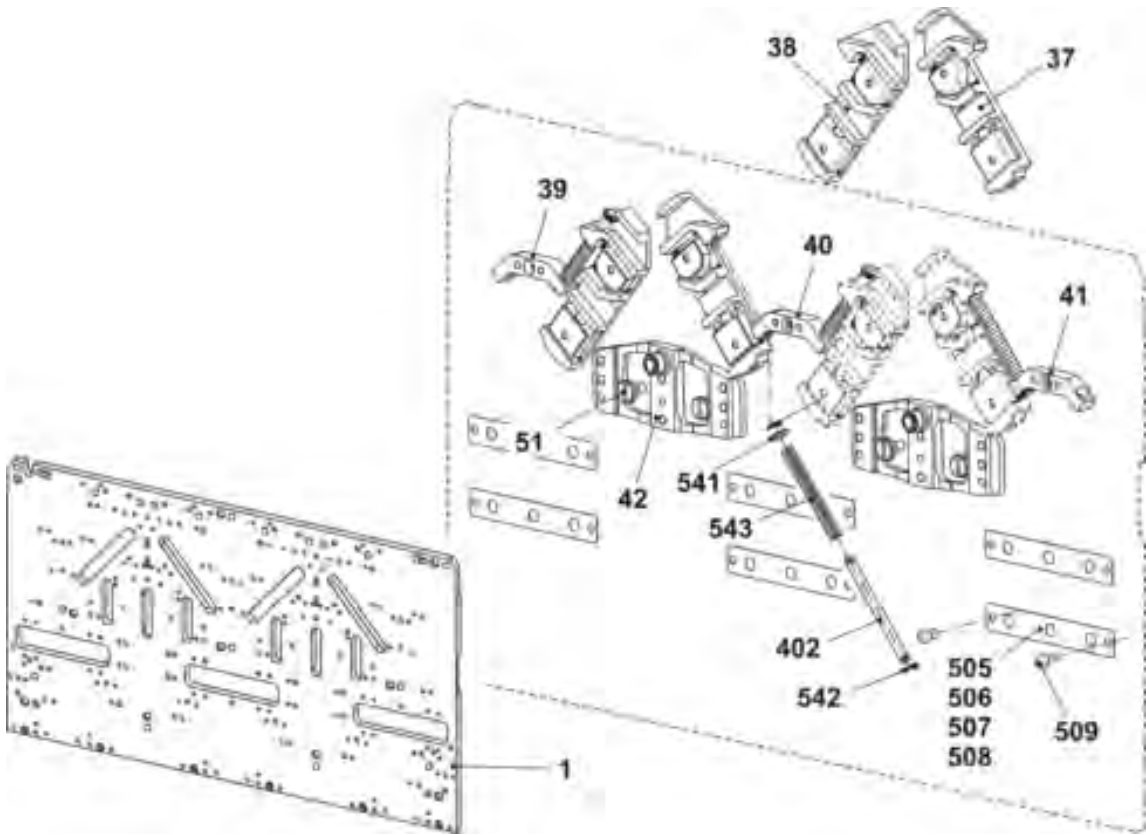
5.9.1 Continuation cam box E6.2

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 take-over on the left	239 848
5	Entry cam at the bottom - 1.5 E10 - E14	216 328		25	Pressure part take-over on the right	239 849
6	Plate on the left	230 988		26	Tuck pressure part	239 621
7	Plate in the middle	231 035		27	Limit cam 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 limit 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 on the right E5 - E14	212 266		36	Raising cam without split-stitch E6.2	236 766
16	Cam on the left	236 192			Raising cam with split-stitch E6.2	237 948
17	Cam part at the right	236 193			Accessories	
18	Cam on the left E5 - E14	212 274		48	Cam on the right E5-14	212 275
19	Cam part	210 252		49	Entry cam on the left -1.5 E10	216 329
20	Offering cam	210 185		50	Entry cam on the right -1.5 E10 - E14	216 330
				500	Cap screw M4x8	020 091



5.10 Cam box E7.2

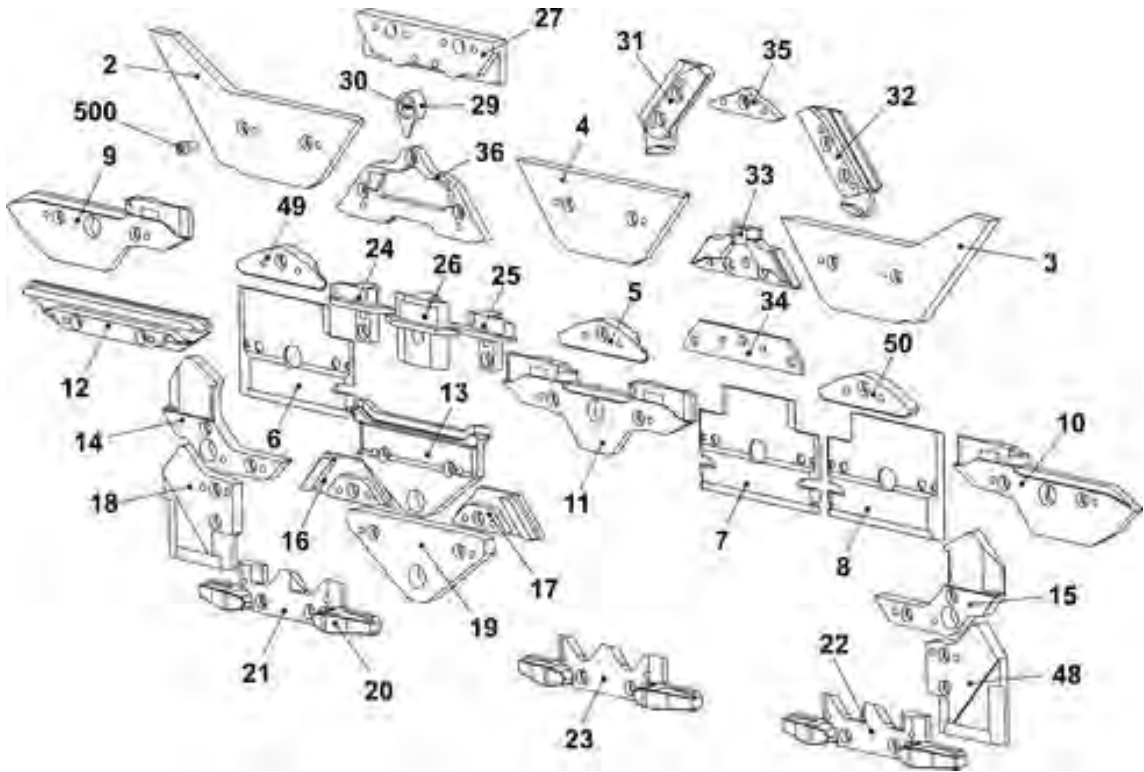
Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Cam box complete E7.2	256 057	42	Switching piece	240 281
1	Cam plate	250 177	51	Shoulder screw	239 626
37	Stitch forming cam on the right complete E12-14	214 088	505	Shim 0.03x12x75	022 828
38	Stitch forming cam on the left complete E12-14	214 089	506	Shim 0.05x12x75	022 829
39	Rod guide element on the left	211 165	507	Shim 0.1x12x75	022 830
40	Rod guidance part middle	211 166	508	Shim 0,2x12x75	022 831
41	Rod guide element on the right	211 168	509	Countersunk screw	023 142
402	Spring rod	209 791			
541	Washer 4,3x7x0,5	022 153			
542	Circlip 3.2	021 019			
543	Spring	023 344			



5.10 Cam box E7.2

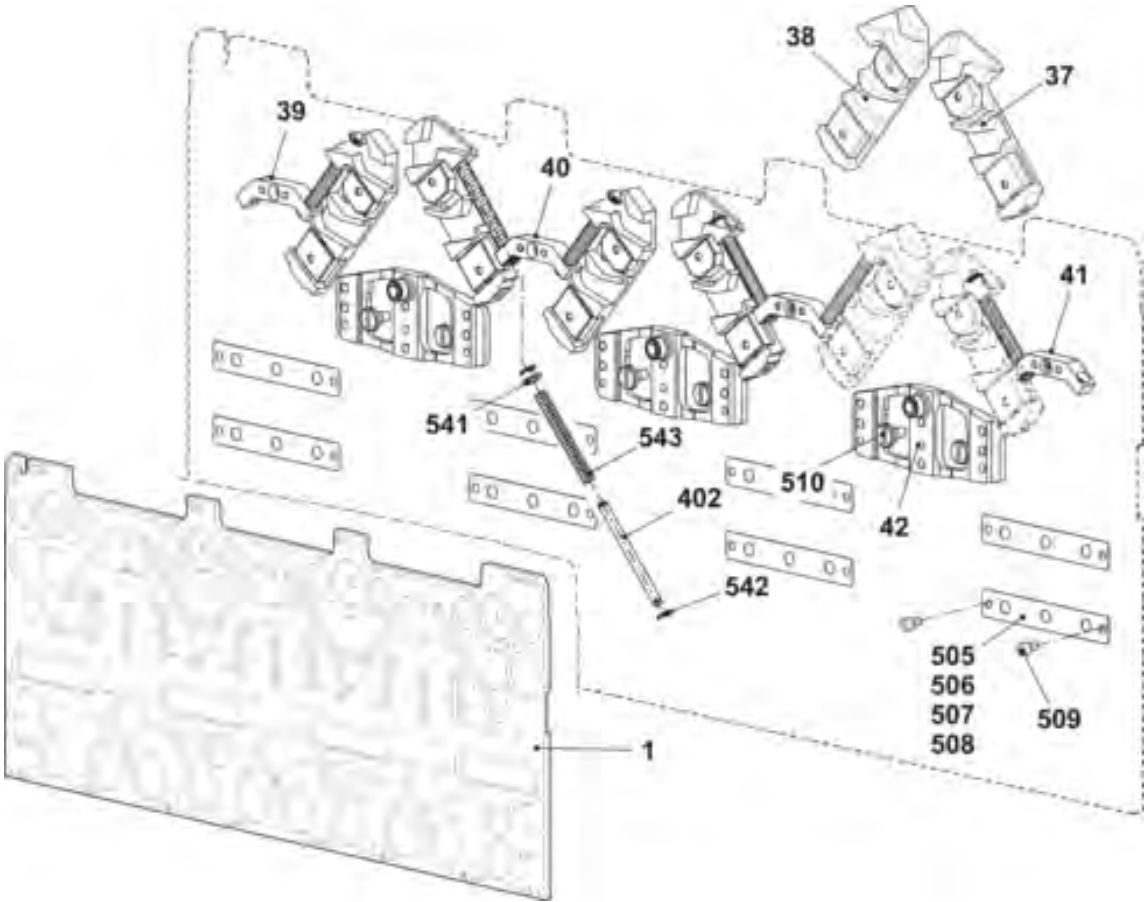
5.10.1 Continuation cam box E6.2

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 take-over on the left	239 848
5	Entry cam at the bottom -1,5 E10-14	216 328	25	Pressure part take-over on the right	239 849
6	Plate on the left	230 988	26	Tuck pressure part	239 621
7	Plate in the middle	231 035	27	Limit cam 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 limit 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 on the right E5-14	212 266	36	Raising cam without split-stitch E7.2	237 993
16	Cam on the left	236 192		Raising cam with split-stitch E7.2	213 300
17	Cam part at the right	236 193		Accessories	
18	Cam on the left E5-14	212 274	48	Cam on the right E5-14	212 275
19	Cam part	210 252	49	Entry cam on the left -1,5 E10-14	216 329
20	Offering cam	210 185	50	Entry cam on the right -1,5 E10-14	216 330
			500	Cap screw M4x8	020 091



5.11 Cam box E8.2

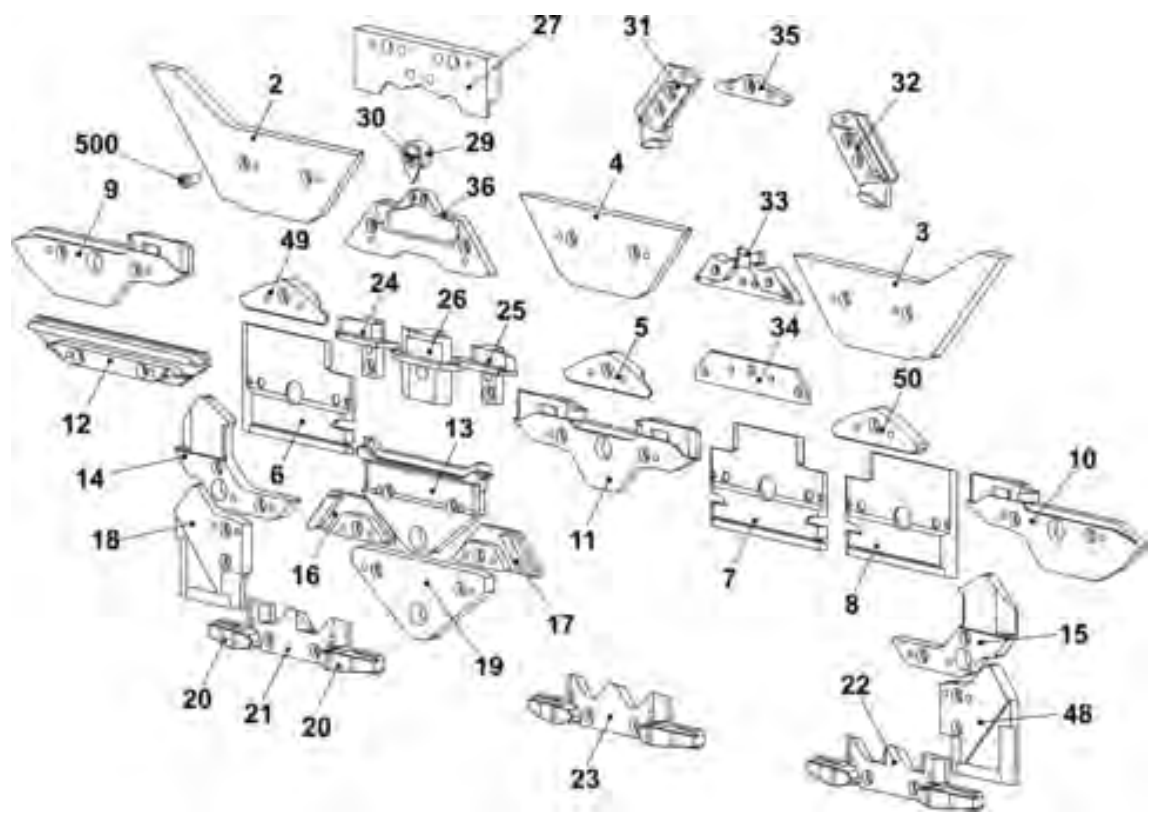
Pos	Designation		Id		Pos	Designation	Id	
Σ	Cam box complete E8.2		256 973		42	Switching piece	240 281	
1	Cam plate		250 177		505	Shim 0,03x12x75	022 828	
37	Stitch forming cam on the right complete E16-20		221 123		506	Shim 0,05x12x75	022 829	
38	Stitch forming cam on the left complete E16-20		221 124		507	Shim 0.1x12x75	022 830	
39	Rod guide element on the left		211 165		508	Shim 0,2x12x75	022 831	
40	Rod guide element in the middle		211 166		509	Countersunk screw M3x4	023 142	
41	Rod guide element on the right		211 168		510	Shoulder screw	239 626	
	402	Spring rod	209 791					
	541	Washer 6.1x9x0.5	022 153					
	542	Circlip 3.2	021 019					
	543	Spring	023 344					



5.11 Cam box E8.2

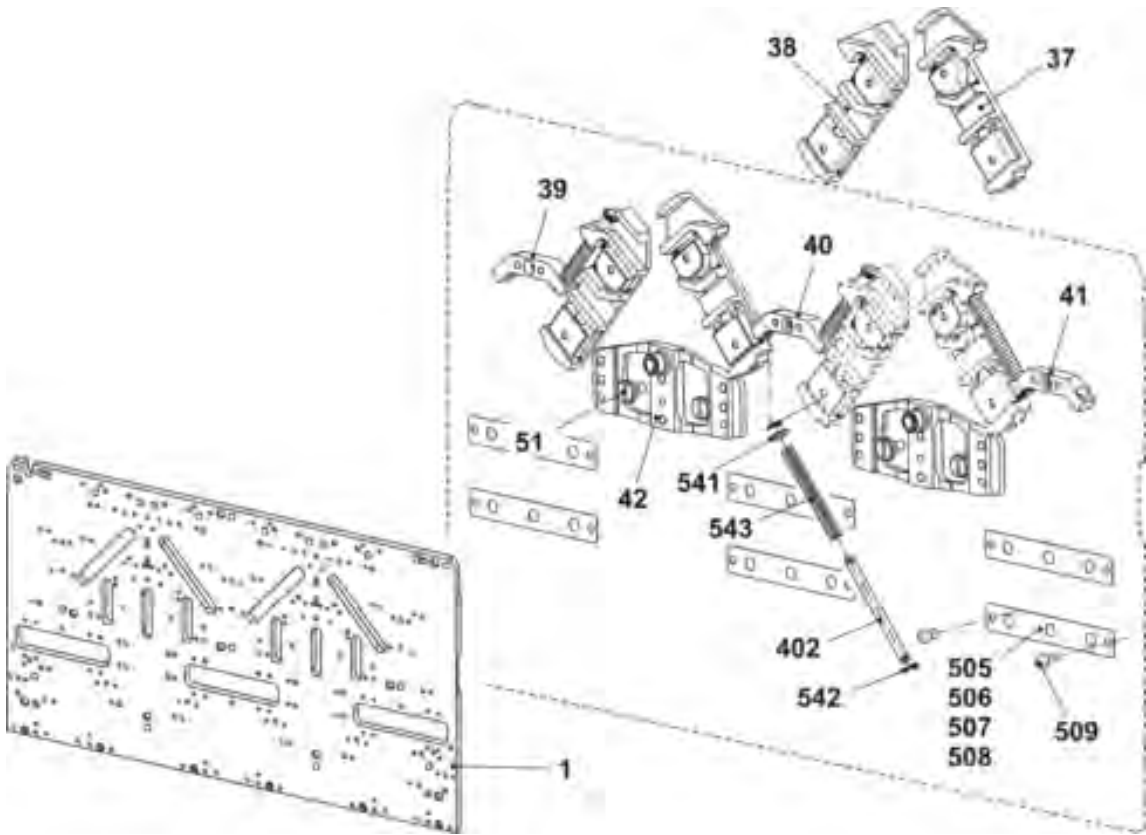
5.11.1 Continuation cam box E8.2

Pos	Designation	Id		Pos	Designation	Id
Σ	Cam box complete E8.2	256 973		22	Selector cam on the right	212 947
2	Entry cam on the left	243 595		23	Selector cam	212 946
3	Entry cam on the right	243 597		24	Pressure part take-over on the left	239 848
4	Entry cam in the middle	243 596		25	Pressure part take-over 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	Limit 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 on the right	231 041		32	Stitch cam on the right E16-20	220 871
11	Cam in the middle	231 040		33	Tuck limit cam E9.2	239 458
12	Cam	227 923		34	Raising cam plate E4-12	204 372
13	Cam	210 254		35	Receiving cam E9.2	228 977
14	Cam on the left E5-14	212 265		36	Raising cam without split E16-18	239 457
15	Cam on the right E5-14	212 266			Raising cam with split E16-E18 ((Accessory))	239 742
16	Cam on the left	236 192		48	Cam on the right E5-14	212 275
17	Cam on 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	210 252		500	Cap screw M4x8	020 091
20	Offering cam	210 185				
21	Selector cam on the left	212 944				



5.12 Cam box E12m.10

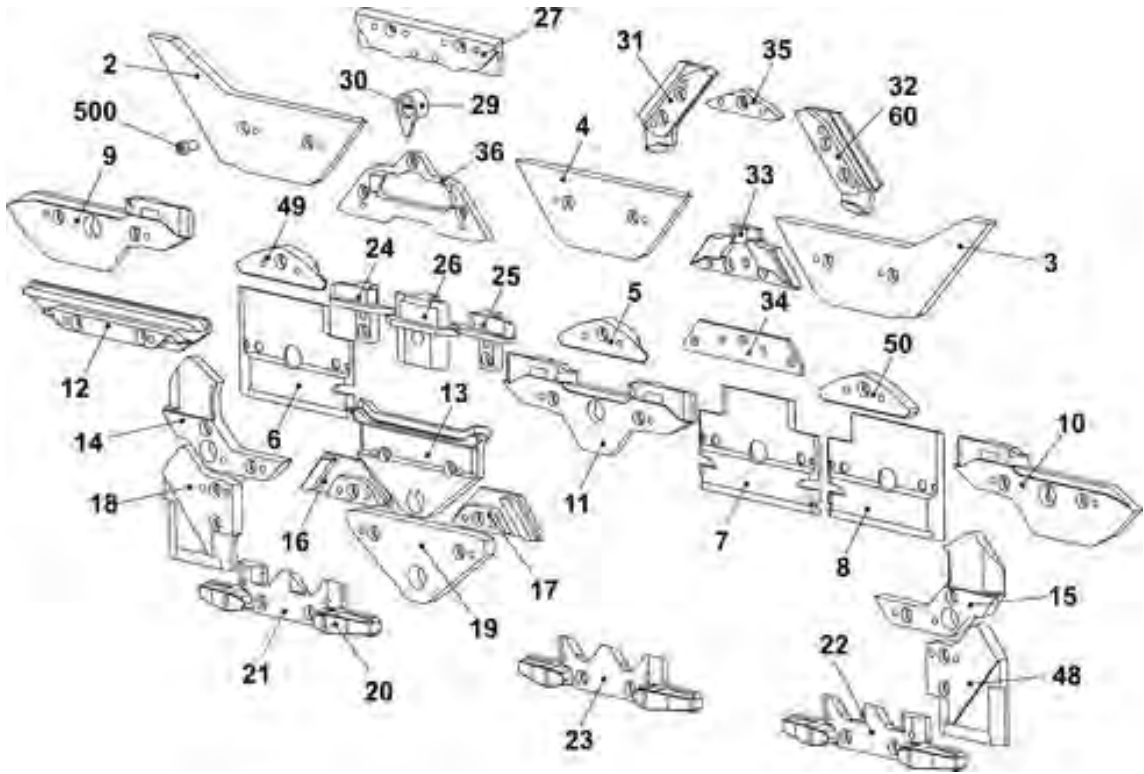
Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Cam box set complete E12m.10	250 985	42	Switching piece	240 281
1	Cam plate	250 177	51	Shoulder screw	239 626
37	Stitch forming cam on the right complete E12-14	214 088	505	Shim 0,03x12x75	022 828
38	Stitch forming cam on the left complete E12-14	214 089	506	Shim 0,05x12x75	022 829
39	Rod guide element on the left	211 165	507	Shim 0.1x12x75	022 830
40	Rod guide element in the middle	211 166	508	Shim 0,2x12x75	022 831
41	Rod guide element on the right	211 168	509	Countersunk screw M3x4	023 142
402	Spring rod	209 791			
541	Washer 6.1x9x0.5	022 153			
542	Circlip 3.2	021 019			
543	Spring	023 344			



5.12 Cam box E12m.10

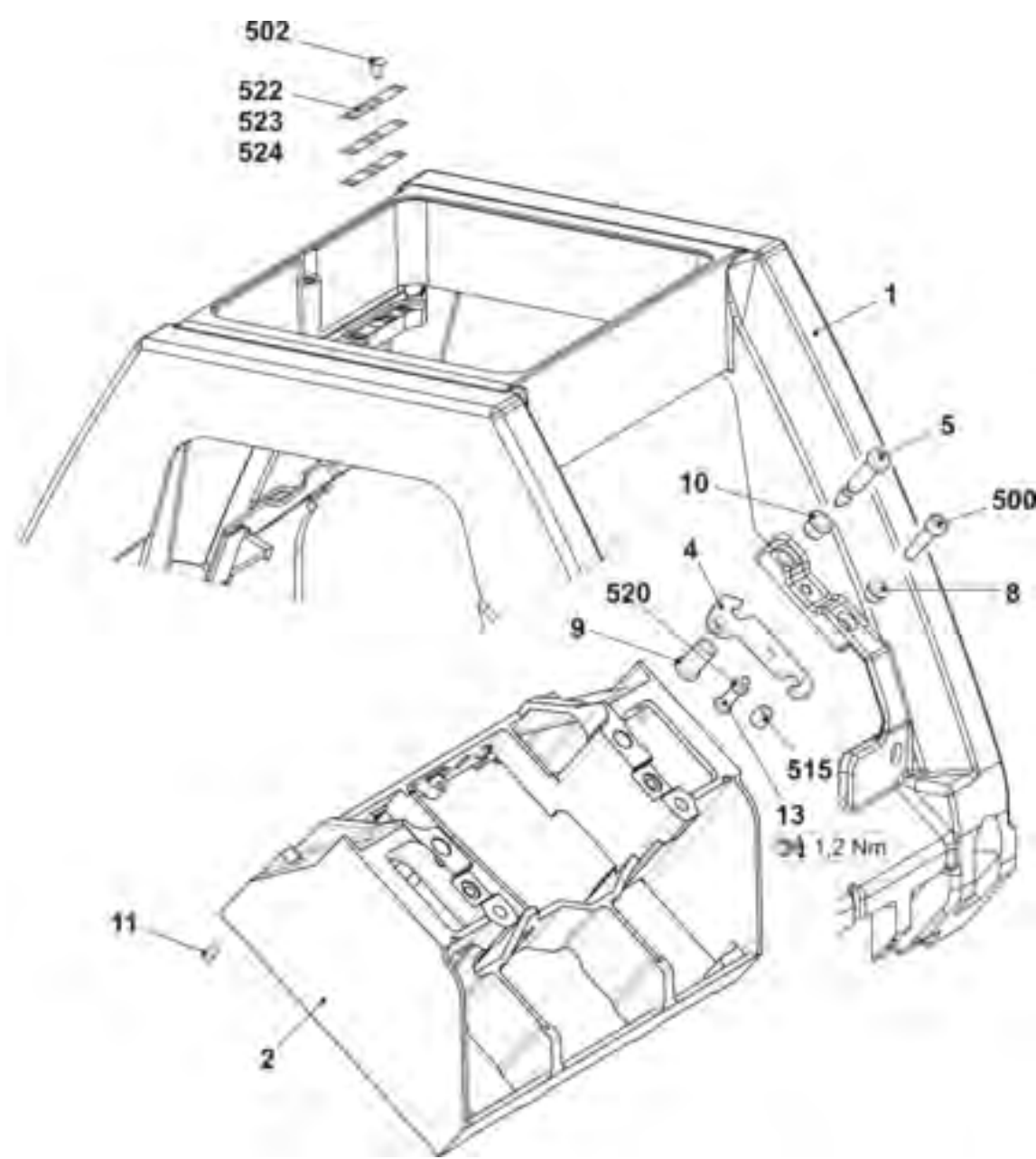
5.12.1 Continuation cam box E12m.10

Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Cam box set complete E12m.10	250 985		22	Selector cam on the right	212 947
2	Entry cam on the left	243 595		23	Selector cam	212 946
3	Entry cam on the right	243 597		24	Pressure part take-over on the left	239 848
4	Entry cam at the top	243 596		25	Pressure part take-over 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	Limit 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 on the right	231 041		32	Stitch cam on the right E10-14 + E7.	236 319
11	Cam part at the center	231 040		33	Tuck limit 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 E10-12	237 993
15	Cam on the right E5-14	212 266			Raising cam with split E10 – E12 Accessory	213 300
16	Cam on the left	236 192		48	Cam on the right E5-14	212 275
17	Cam on 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 - E-12	236 320
21	Selector cam on the left	212 944				



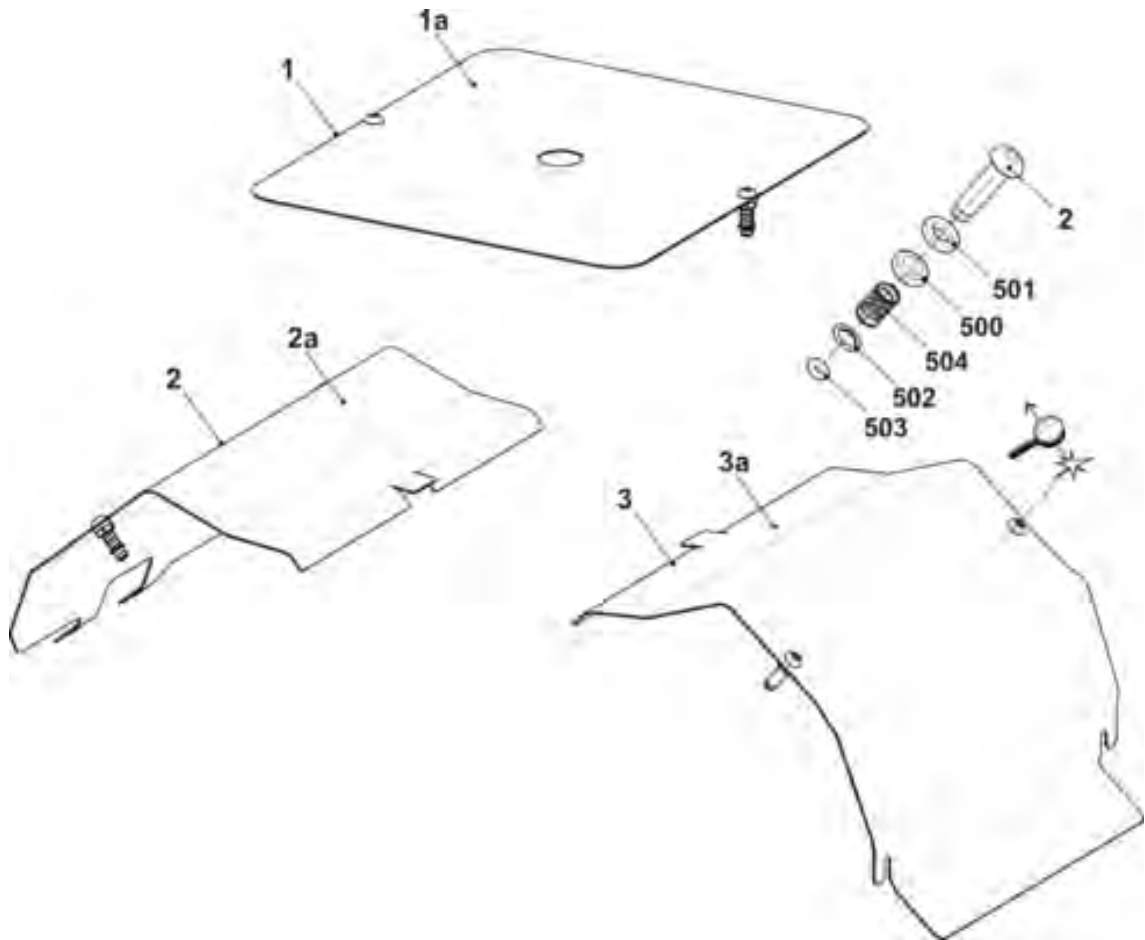
5.13 Carriage

Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Carriage assembly 2 cam boxes complete 502	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 screw M8x30	020 143
4	Shim	225 312		502	Countersunk screw M6x10	023 183
5	Dowel screw	211 750		520	Circlip 6	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



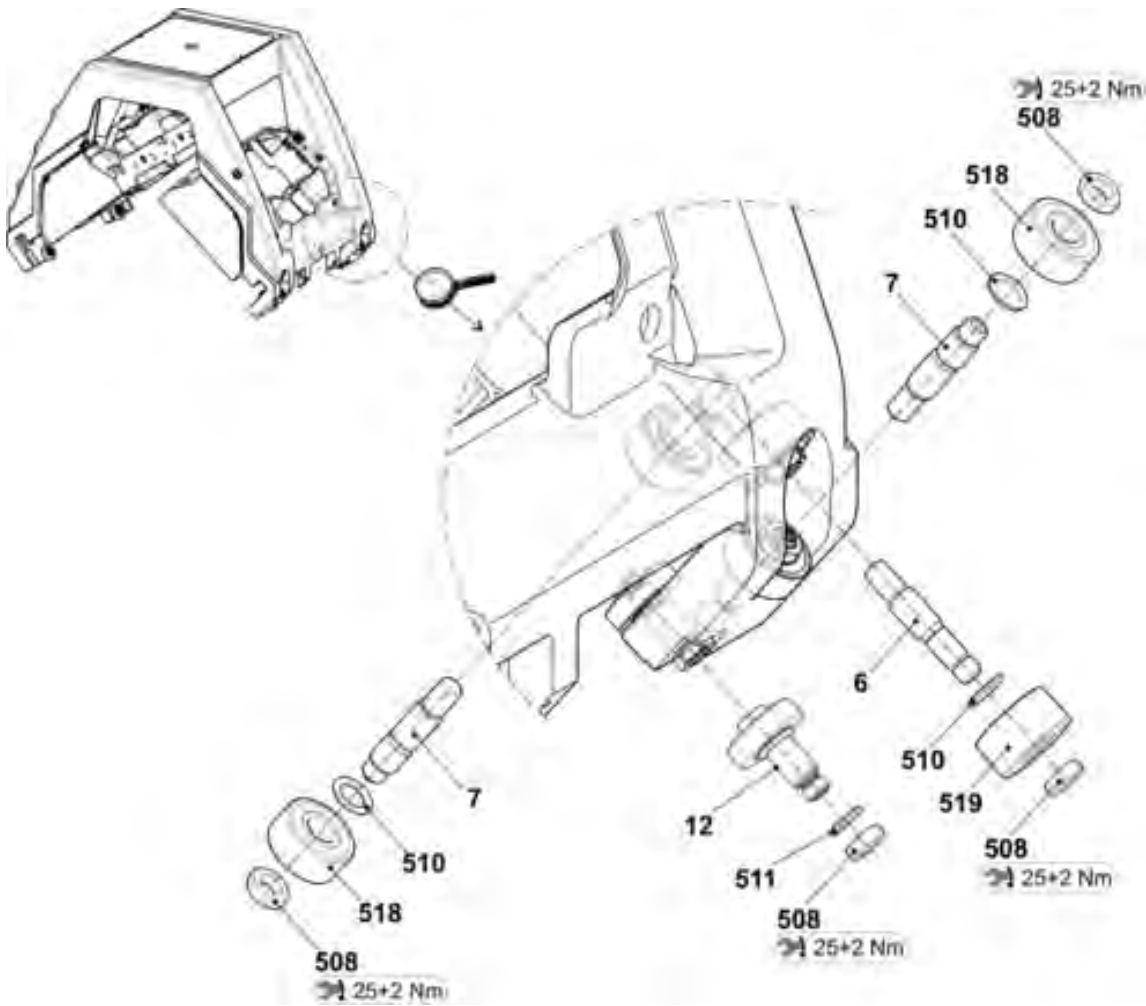
5.14 Carriage cover

Pos	Designation	Id		Pos	Designation	Id
1	Carriage cover at the top 2 cam boxes complete	257 099		10	Fixing bolt	242 382
	1a Carriage cover at the top 2 cam boxes	256 509		500	Hexagon nut M6	257 088
2	Carriage cover at the rear complete 2 cam boxes	257 159		501	U-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



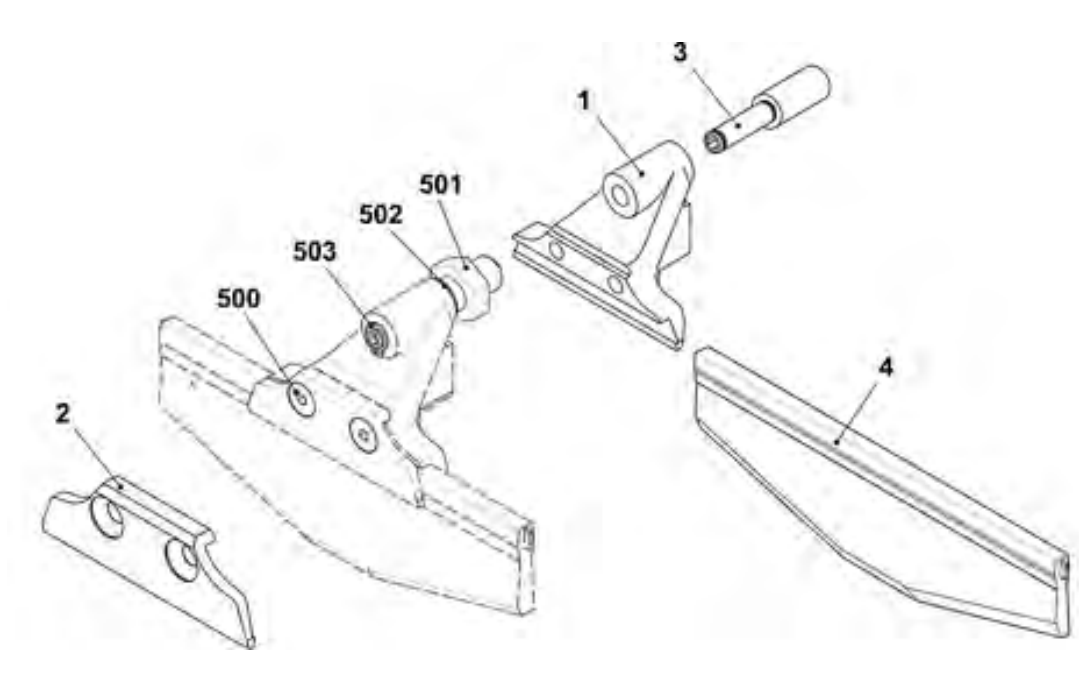
5.15 Carriage guide

Pos	Designation	ID No.		Pos	Designation	ID No.
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 12x18x1	023 260
12	Bolt pre-assembled	244 283		518	Grooved ball bearing 62201-2RS	241 408
508	Nut M10	023 316		519	Grooved ball bearing 62300-2RS1	242 070



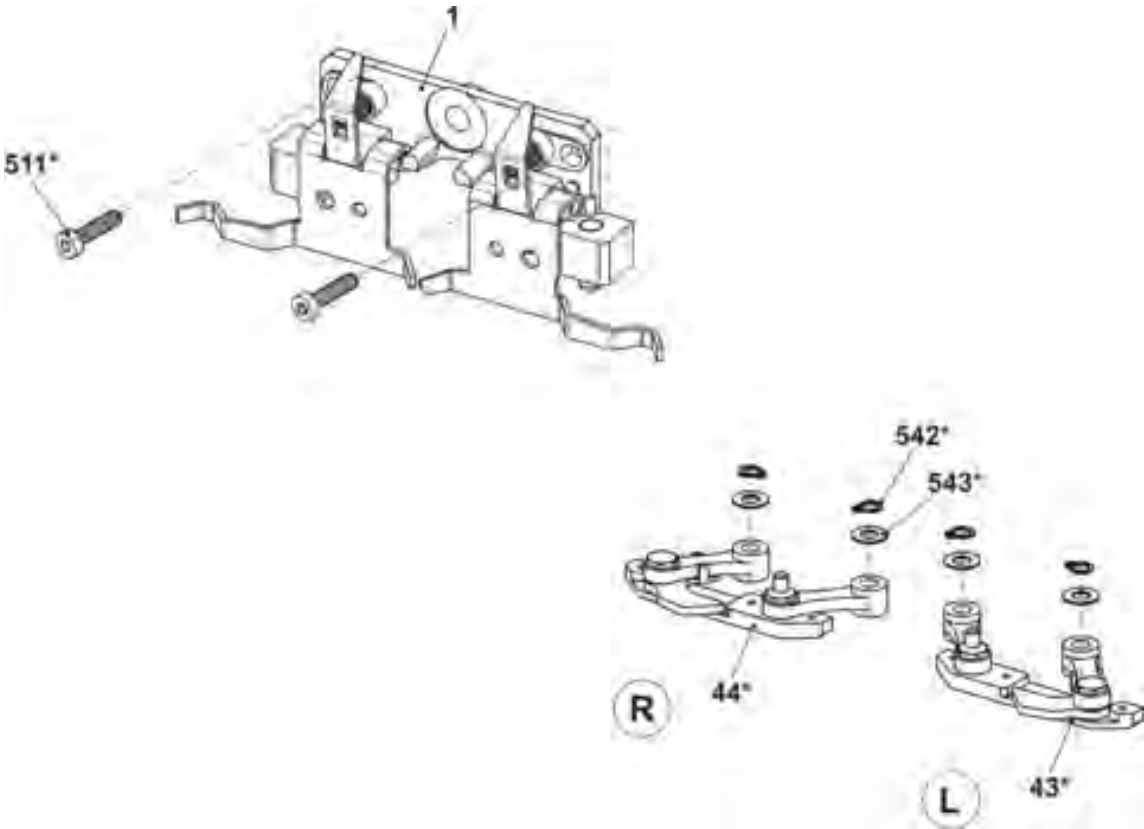
5.16 Brush holder

Pos	Designation	ID No.		Pos	Designation	ID No.
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	Adjusting washer 5x10x0.5	023 348
				503	Locking ring 68x2.5	023 347



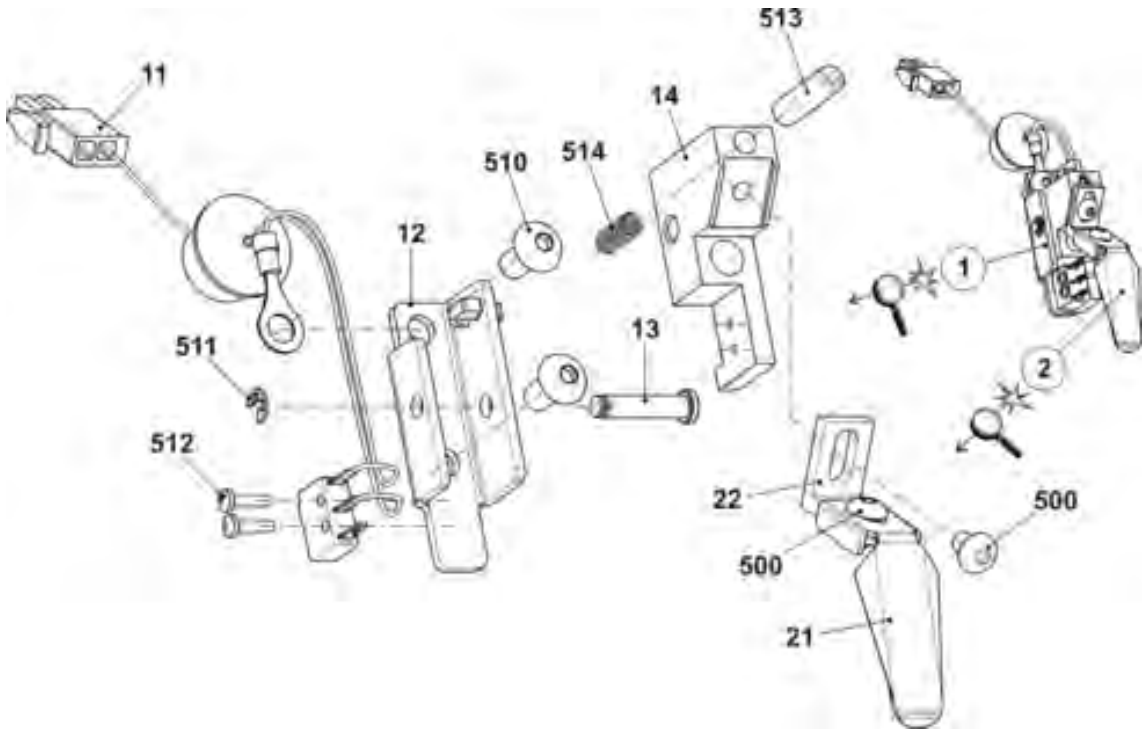
5.17 Holding-down jack control and slider

Pos	Designation	Id		Pos	Designation	Id
1	Holding-down jack control	213 266		Σ	Slider complete	
511*	Cap screw M5X16	023 141		43	Slider on the left complete E5-8 E7m.5 E3,5.2 E7.2	212 611
		Slider on the left complete E12-14 E6.2(12m.10) E7.2(14/12) E6.2			213 056	
		Slider on the left complete E16-18, E8.2			250 139	
		44		Slider on the right complete E5-8 E7m.5 E3,5.2 E7.2	212 610	
				Slider on the right complete E12-14 E6.2(12m.10) E7.2(14/12) E6.2	213 055	
				Slider on the right complete E16-18, E8.2	250 140	
		542*		Locking ring 68x2.5	023 347	
		543*		Shim ring 5x10x0.5	023 348	

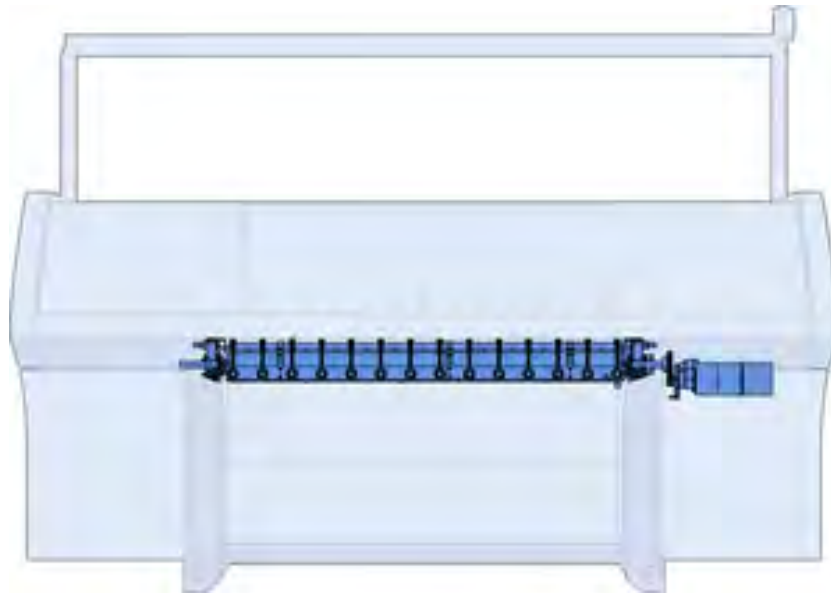


5.18 Needle detector

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



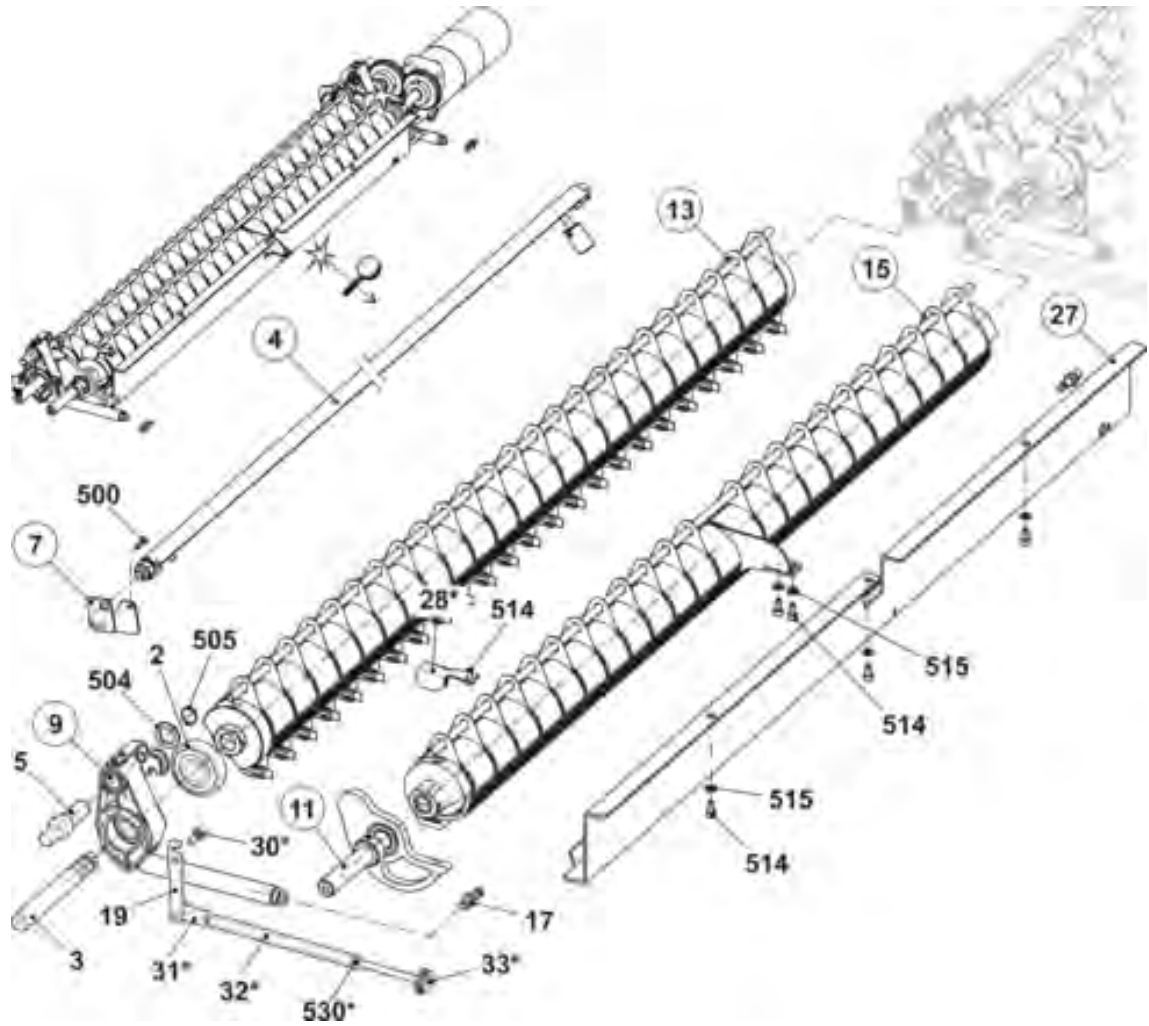
6 Main take-down



6.1 Take-down rollers and left bearing

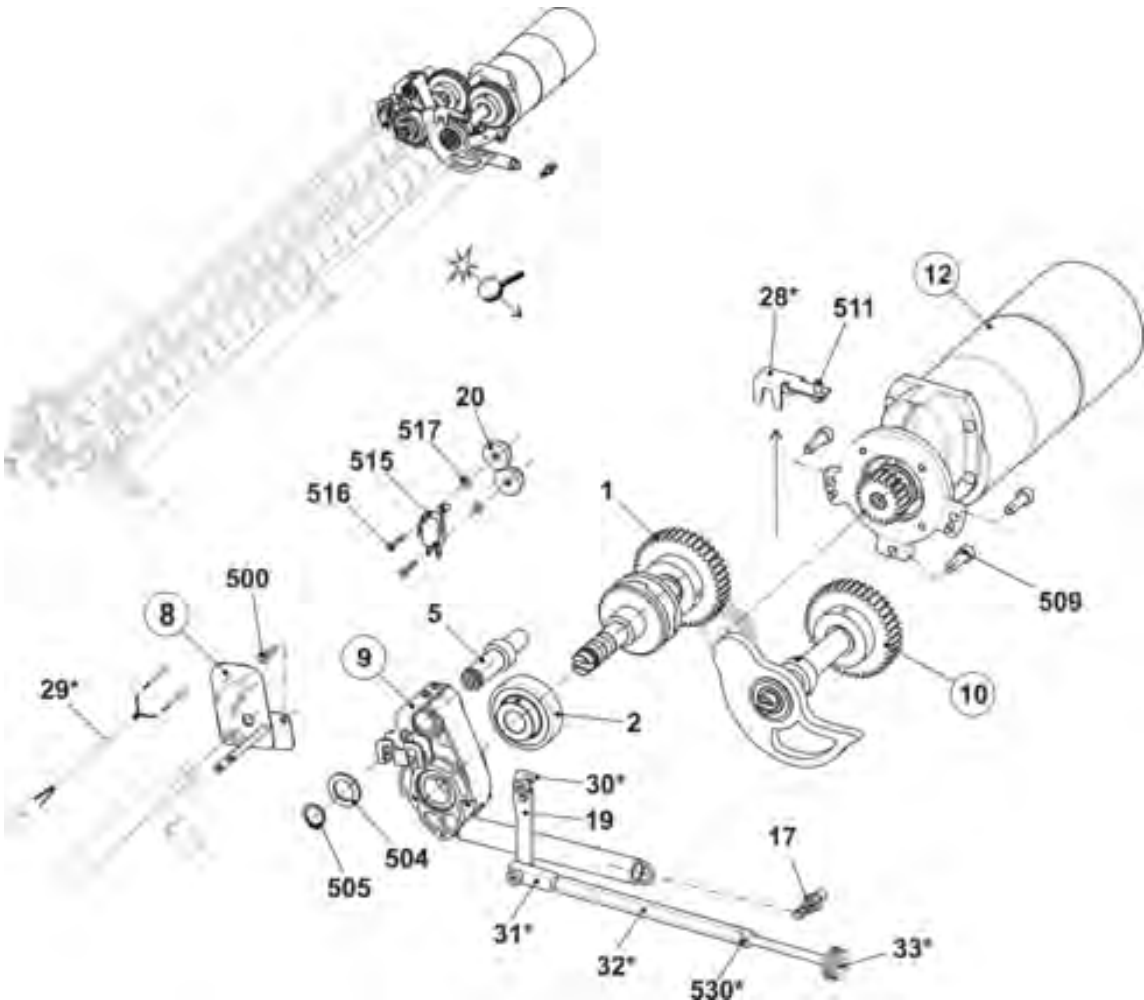
6.1 Take-down rollers and left bearing

Pos	Designation	ID No.		Pos	Designation	ID No.
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	U-washer 18	023 295
5	Bolt	208 538		505	Locking ring 18x1.2	020 955
7	Mounting plate on the left complete	231 725		514	Cap screw M6X12	020 134
9	Swivel-mounted bearing	251 761		515	U-washer 6	022 431
11	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 complete E16-18	251 681		33*	Knurled screw	250 608
17	Spring bolt	221 143		530*	Hexagon nut M8-6	020 838



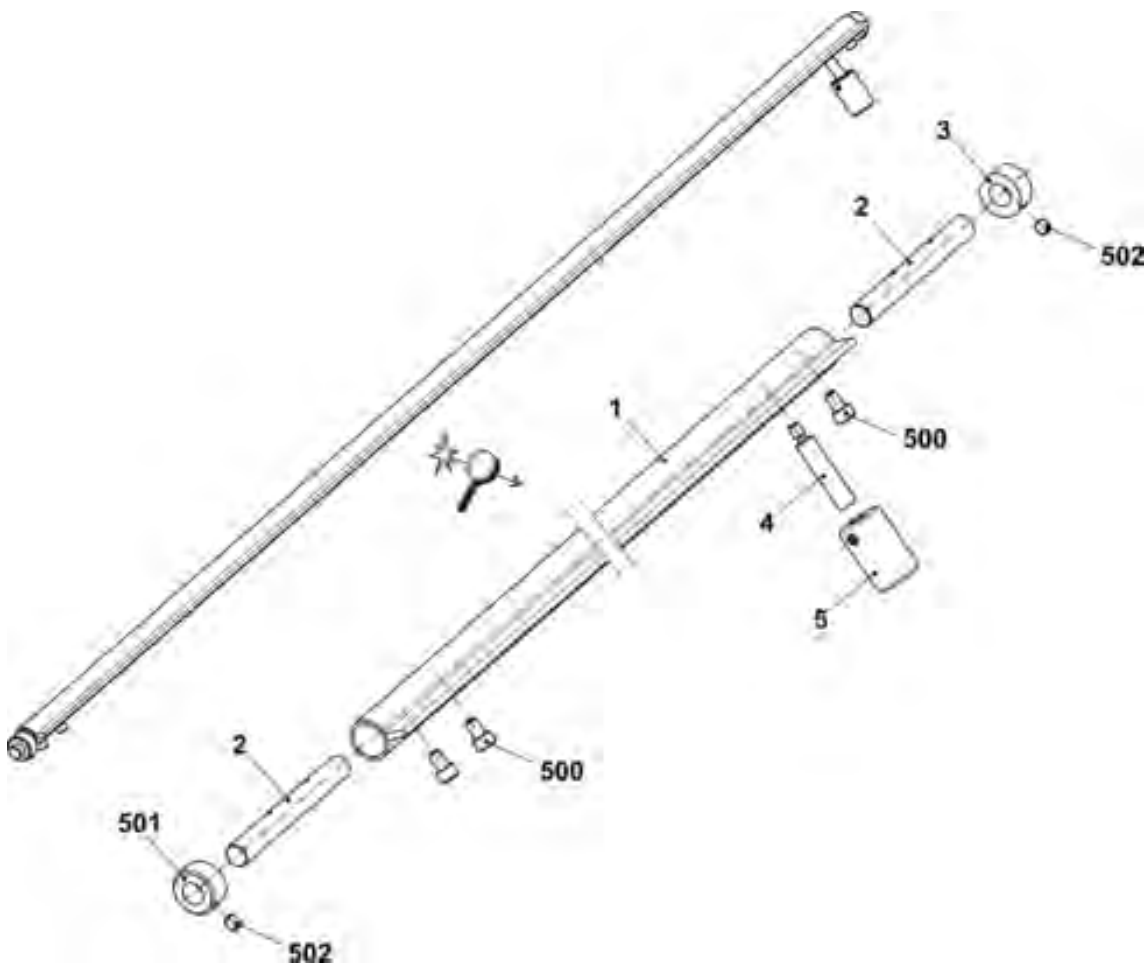
6.2 Take-down motor and right bearing

Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Main take-down complete		505	Locking ring 18x1.2	020 955
1	Clutch set	251 677	509	Cap screw M8x25-12.9	020 142
2	Bearing race complete	244 459	511	Cap screw M6X12	020 134
5	Bolt	208 538	515	Microswitch	210 510
8	Mounting plate on the right complete	240 069	516	Cap screw M3X20	023 221
9	Swivel-mounted bearing	251 761	517	U-washer 3	023 657
10	Floating axle on the right	251 985	28*	Sheet metal support on the right	251 765
12	Motor take-down + comb	214 279	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 bushing	222 522	32*	Connecting rod	256 998
500	Screw 50x15	251 728	33*	Knurled screw	250 608
504	U-washer 18	023 295	530*	Hexagon nut M8-6	020 838



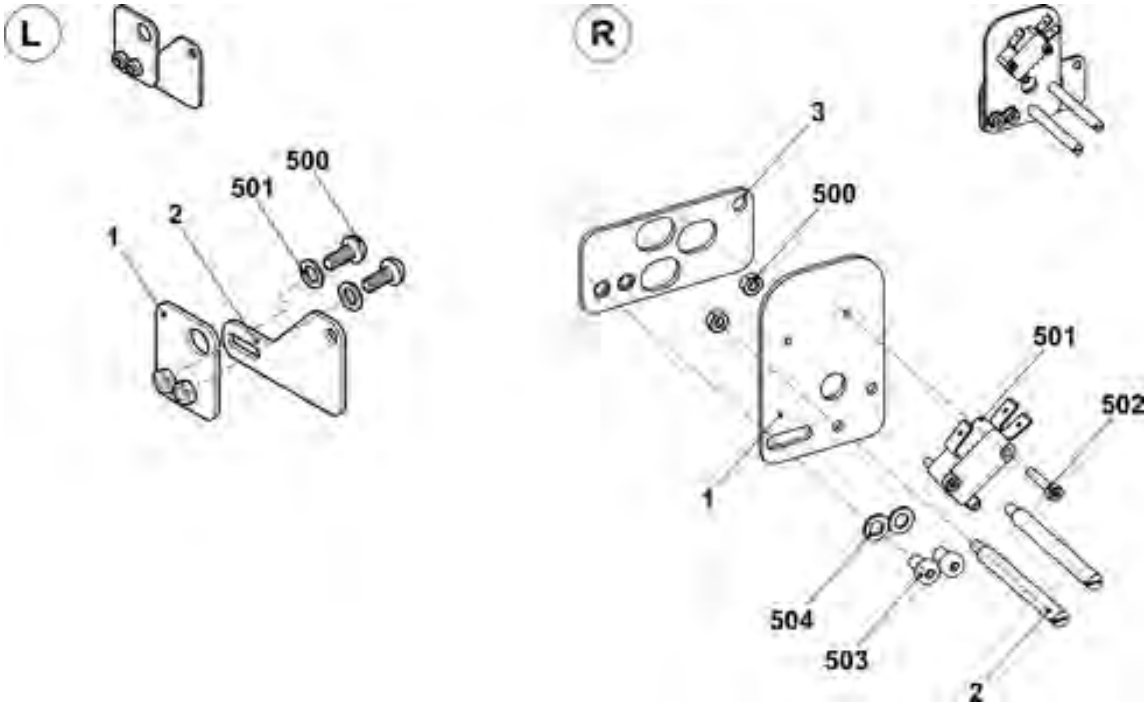
6.3 Stripper angle

Pos	Designation	ID No.		Pos	Designation	ID No.
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	Bolt	228 310		502	Set screw M5x6	022 738



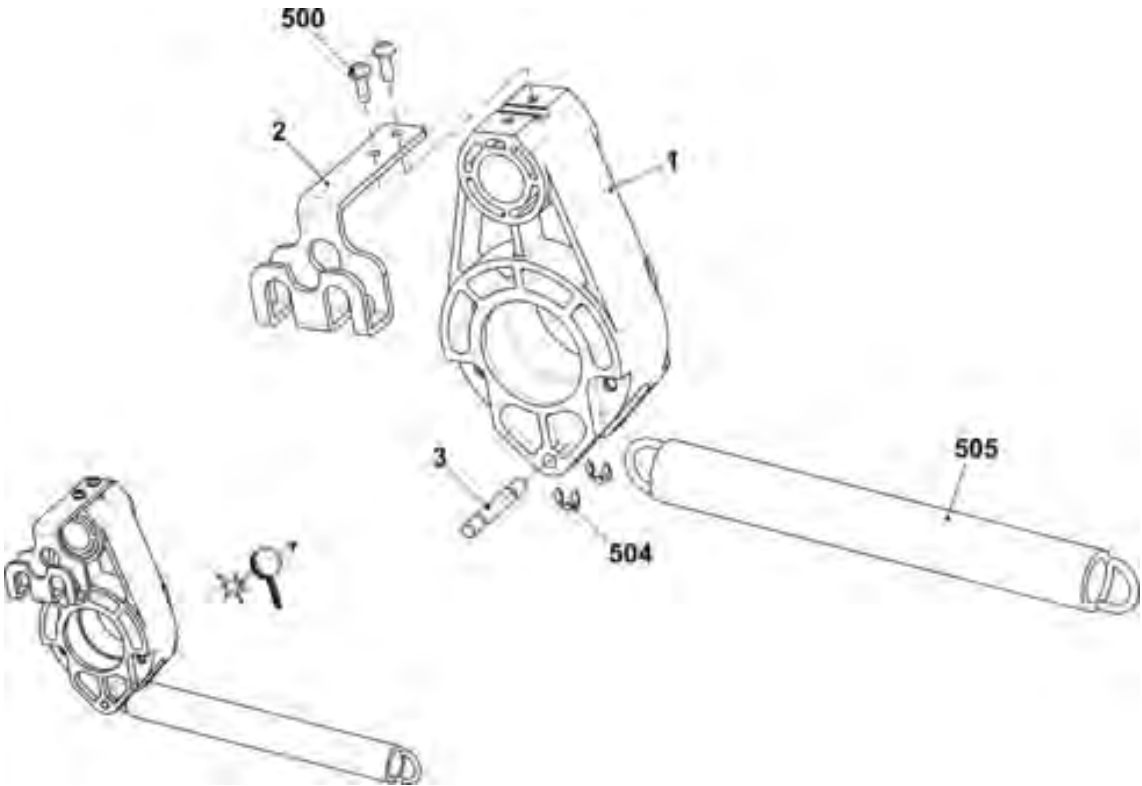
6.4 Mounting plate

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	Setscrew	240 067
500	Countersunk screw M5x10	023 247		3	Retaining plate on the right	240 066
501	Serrated lock washer J6.4	022 489		500	Hexagon nut M4-6	022 536
				501	Microswitch	026 259
				502	Cap screw M3X16	022 583
				503	Cap screw M5x8	244 278
				504	U-washer 5-200	020 871



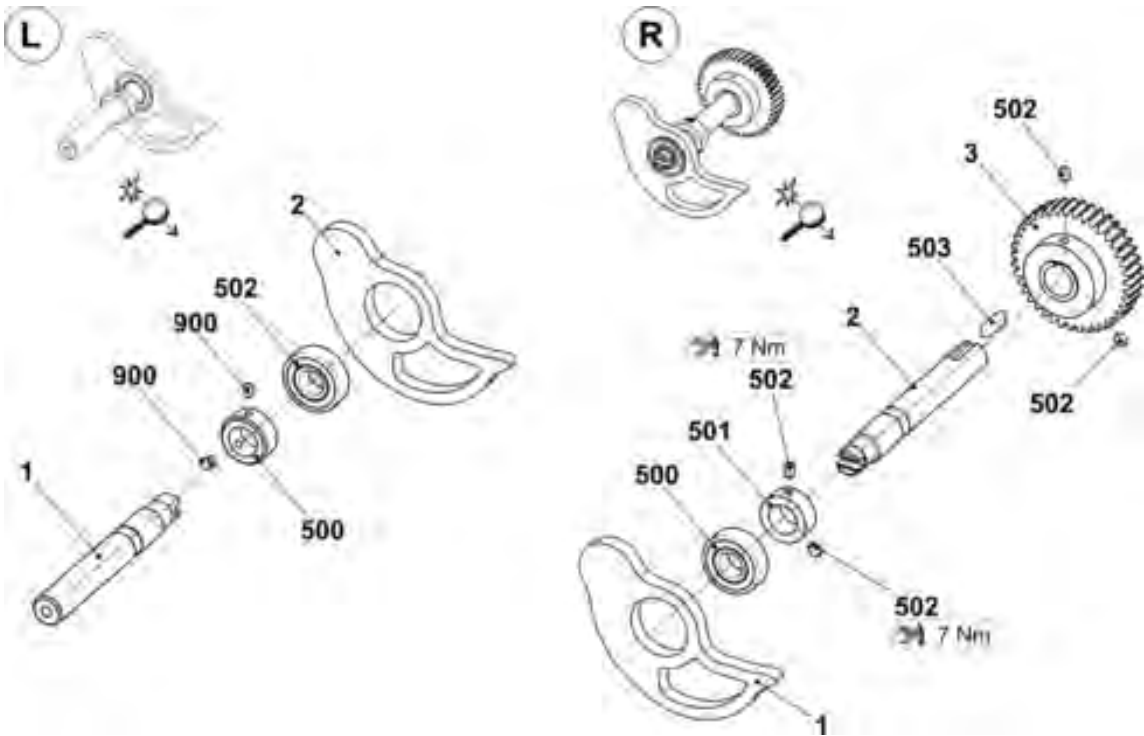
6.5 Swivel-mounted bearing

Pos	Designation	Id		Pos	Designation	Id
Σ	Swivel-mounted bearing	251 761				
1	Swivel-mounted bearing	241 996		500	Screw M35x10	251 729
2	Sheet metal support	251 749		504	Circlip 4	021 020
3	Axle	251 758		505	Tension spring 8x0.9x75	240 217



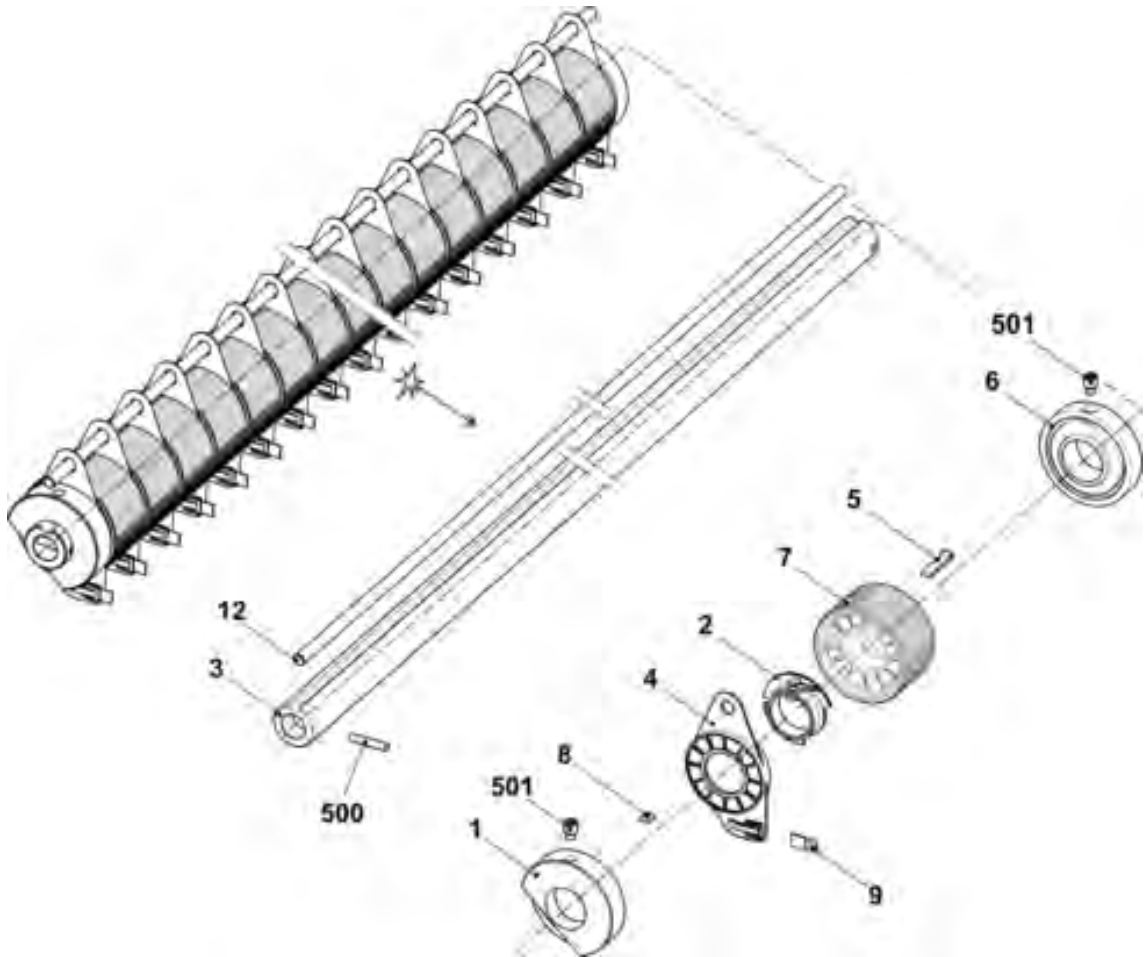
6.6 Floating axle

Pos	Designation	Id		Pos	Designation	Id
Σ L	Floating axle on the left	251 984		Σ R	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	Set screw M6x8	022 684		501	Set collar	020 938
				502	Set screw M6x8	022 684
				503	Feather key A 6x6x25	023 017



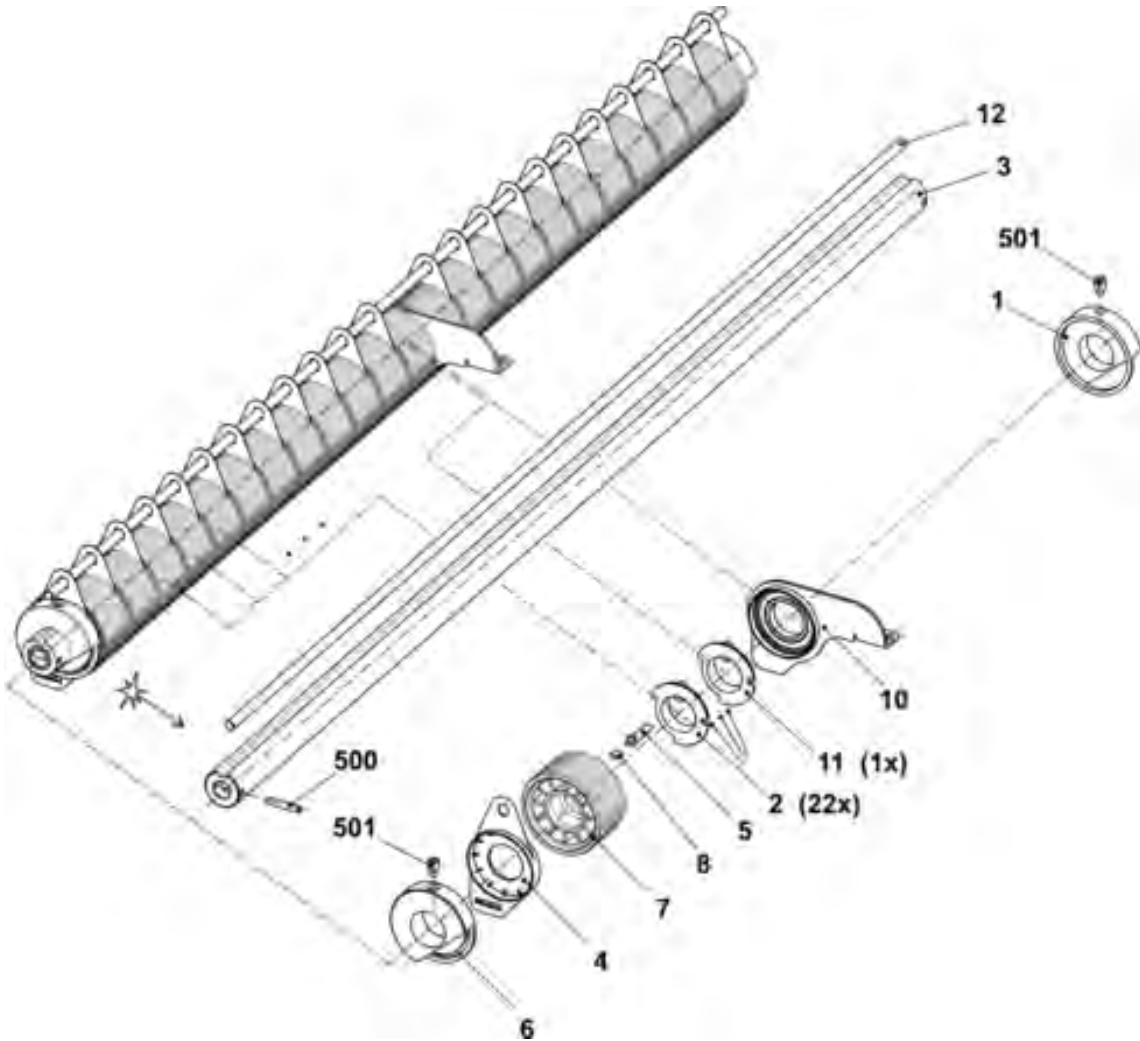
6.7 Rear take-down roller

Pos	Designation	ID No.		Pos	Designation	ID No.
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	250 573		7	Roller (E16 – E18)	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	Setting pin 6x32	020 685
6	Ring on the right	250 574		501	Set screw M10x15	020 635



6.8 Front take-down roller

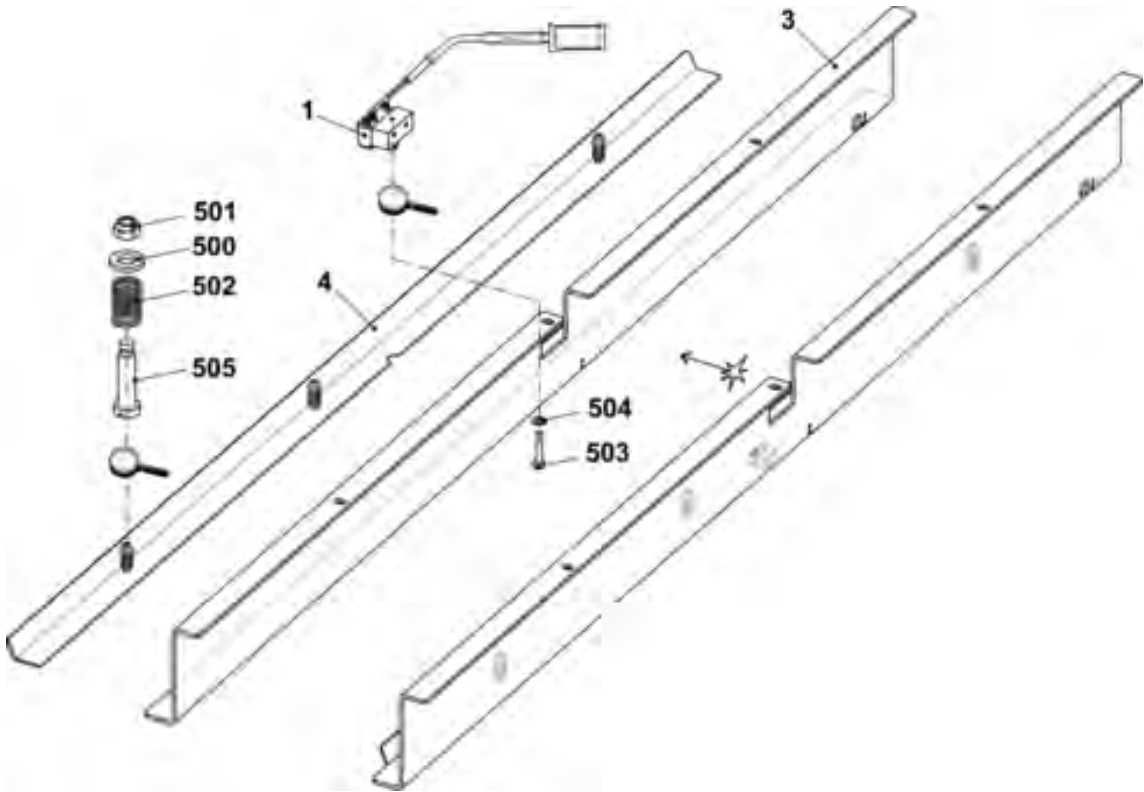
Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Take-down roller at the front complete	251 681	7	Roller	206 770
1	Ring on the left	250 573	8	Spacer slide	222 062
2	Stop ring on the left	204 369	10	Support	252 506
3	Shaft	251 680	11	Stop ring on the left	222 910
4	Stripper	241 612	12	Rod	251 769
5	Spacer slide	240 104	500	Setting pin 6x32	020 685
6	Ring on the right	250 574	501	Set screw M10x15	020 635



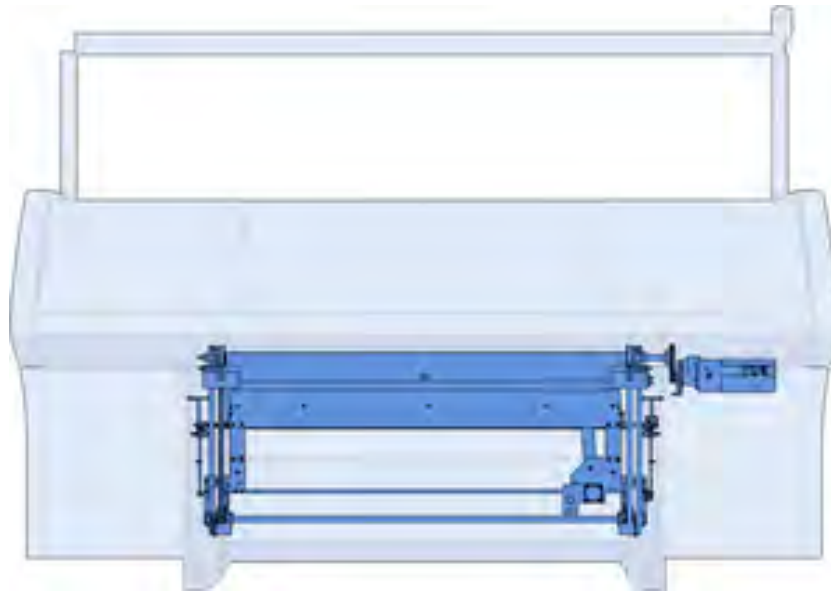
6.9 Angle rail

6.9 Angle rail

Pos	Designation	ID No.		Pos	Designation	ID No.
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 screw M2X12	023 522
4	Winding plate	251 549		504	U-washer 2	022 908
500	U-washer 6	022 431		505	Shoulder screw M5x20x5	023 675

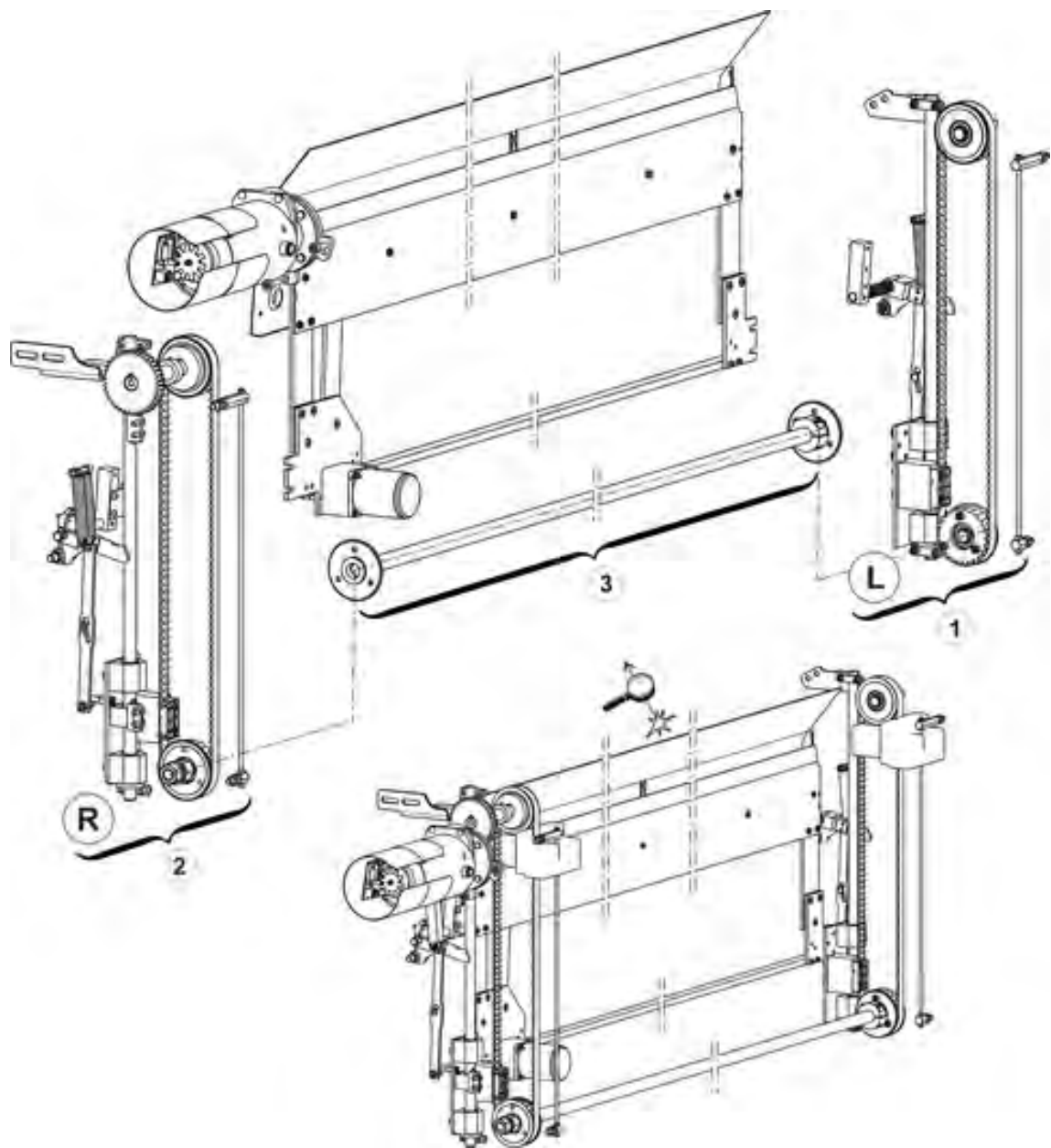


7 Comb take-down



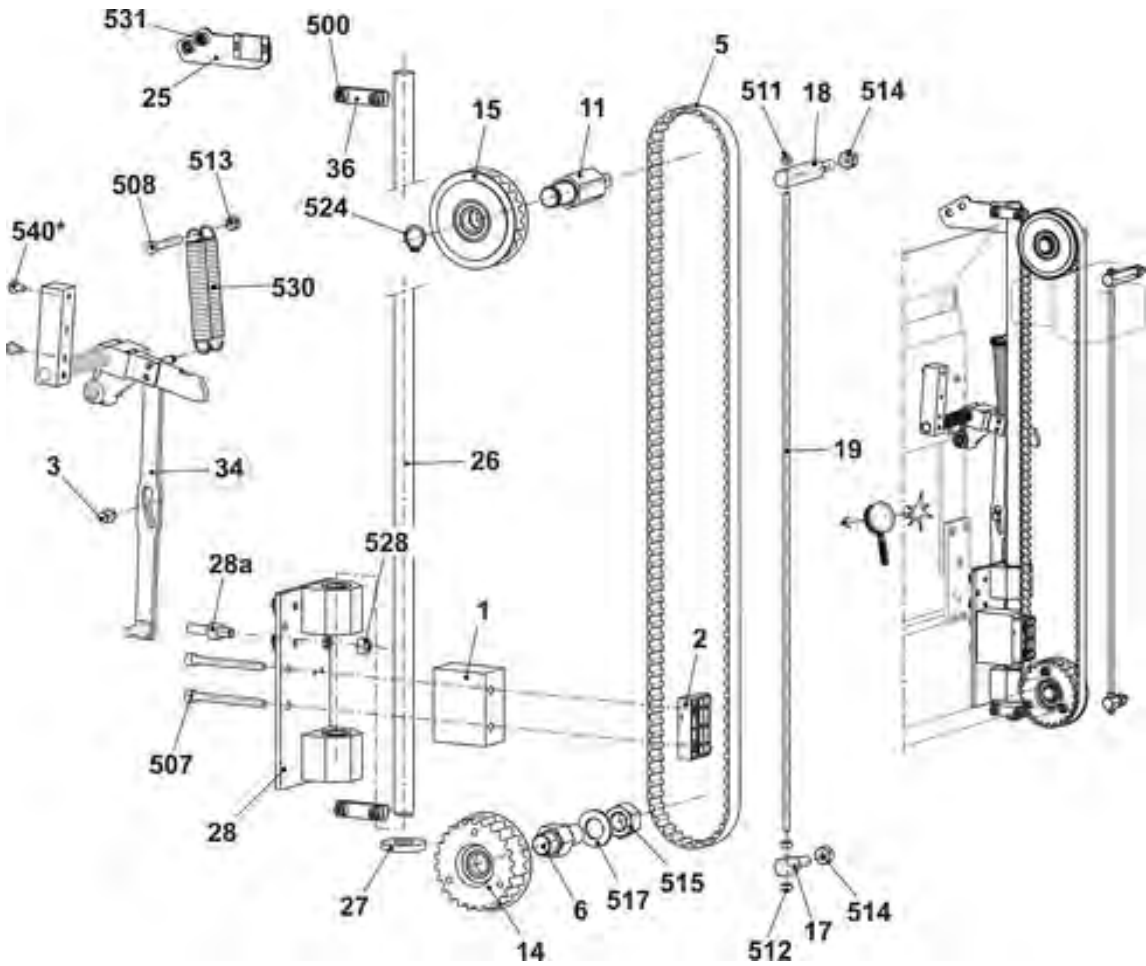
7.1 Comb take-down

Pos	Designation	ID No.	Pos	Designation	ID No.
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



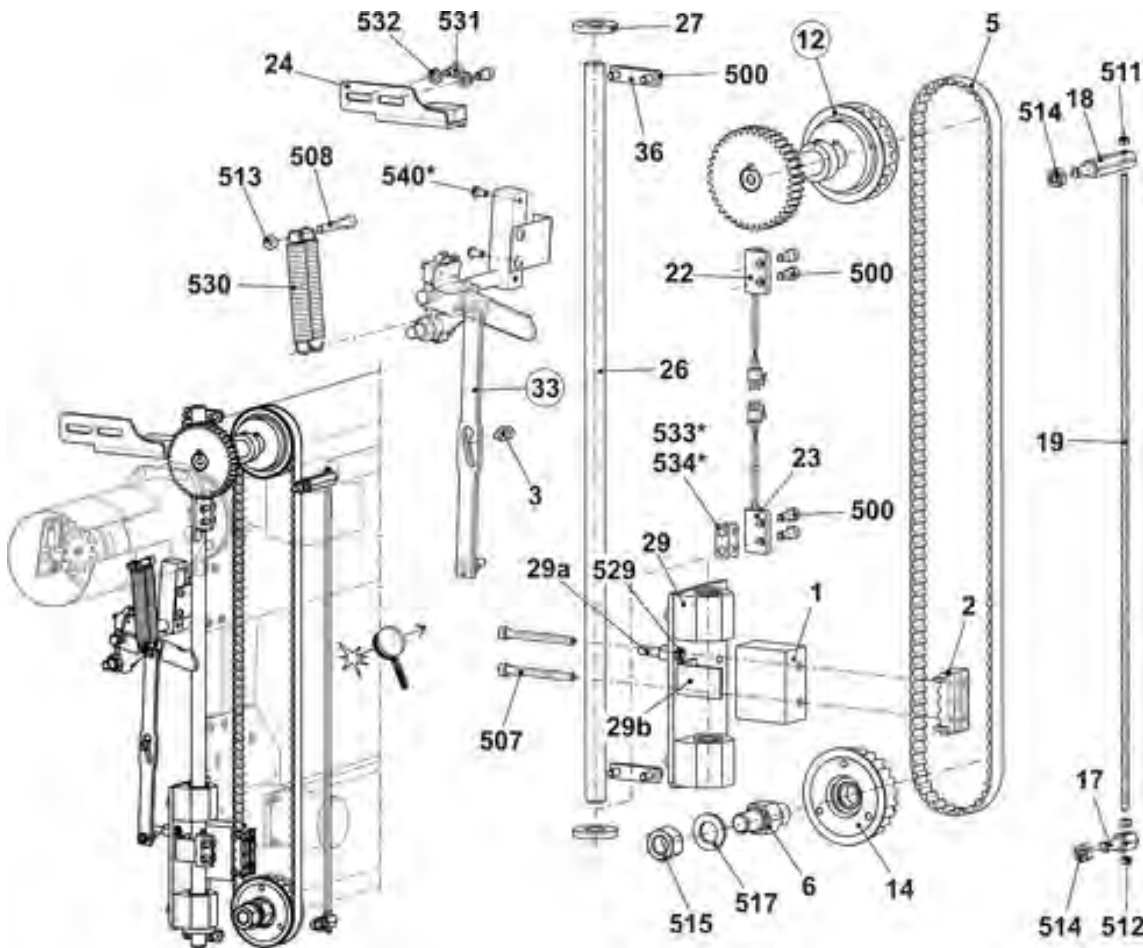
7.2 Comb take-down on the left

Pos	Designation	Ident No.	Pos	Designation	Ident No.
Σ	Comb take-down on the left	256 836			
1	Clamping part	209 379	528	Hexagon nut M8-6	020 838
2	Presser plate	241 967	34	Swivel lever on the left	252 859
3	Bolt	222 152	36	Clamping plate	227 159
5	Toothed belt 16T10/1300	240 065	500	Cap screw M6x16	020 135
6	Eccentric pin	222 320	507	Cap screw M6X65	240 162
11	Bolt	207 689	508	Cap screw M6X45	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	U-washer 16	020 876
26	Guide bar C35	206 560	524	Locking ring 17x1	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 screw M6X12	020 134
28a	Driving bolt	255 427	540*	Countersunk screw M5x10	023 247



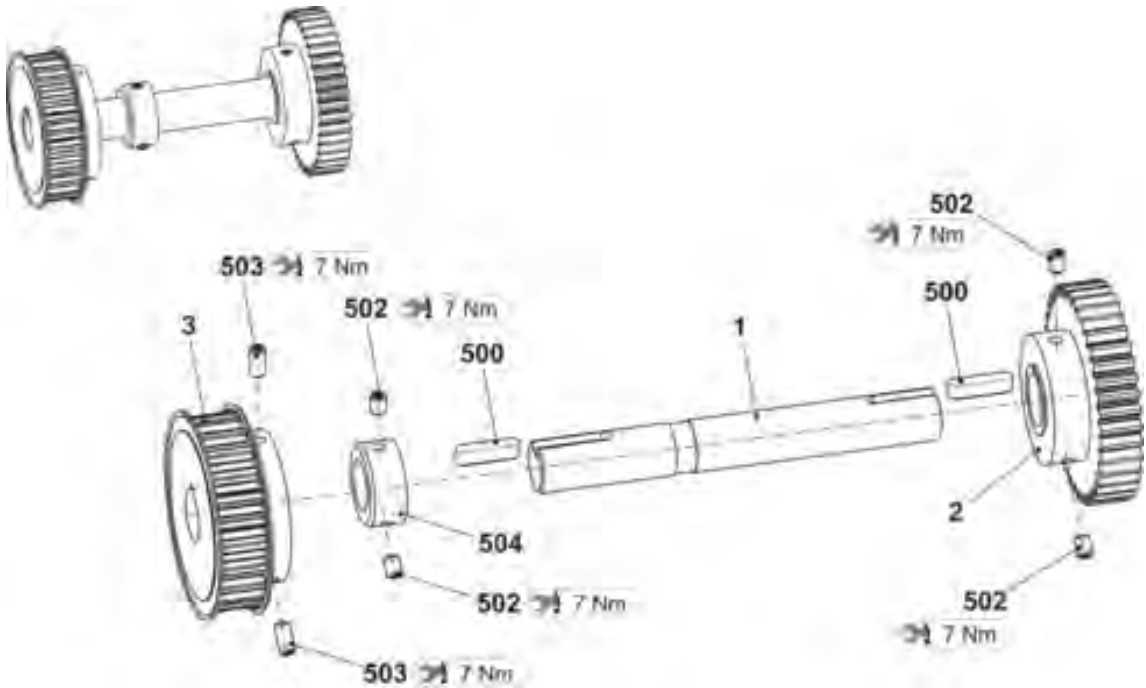
7.3 Comb take-down on the right

Pos	Designation	Ident No.	Pos	Designation	Ident No.
Σ	Comb take-down on the right	256 837			
1	Clamping part	209 379	529	Hexagon nut M8-6	020 838
2	Presser plate	241 967	33	Swivel lever on the right	252 858
3	Bolt	222 152	36	Clamping plate	227 159
5	Toothed belt 16T10/1300	240 065	500	Cap screw M6x16	020 135
6	Eccentric pin	222 320	507	Cap screw M6X65	240 162
12	Drive shaft comb complete	214 583	508	Cap screw M6X45	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	U-washer 16	020 876
24	Photoelectric sensor complete	256 825	530	Tension spring 15x1.50x70.94	251 614
26	Guide bar C35	206 560	531	Cap screw M6X12	020 134
27	Rubber buffer	206 561	532	U-washer 6	020 872
29	Comb guide on the right	255 424	533*	Shim 0,2x12x75	023 735
29a	Driving bolt	255 427	534*	Shim 0,5x12x75	023 736
29b	Angle	240 112	540*	Countersunk screw M5x10	023 247



7.3.1 Drive shaft of comb

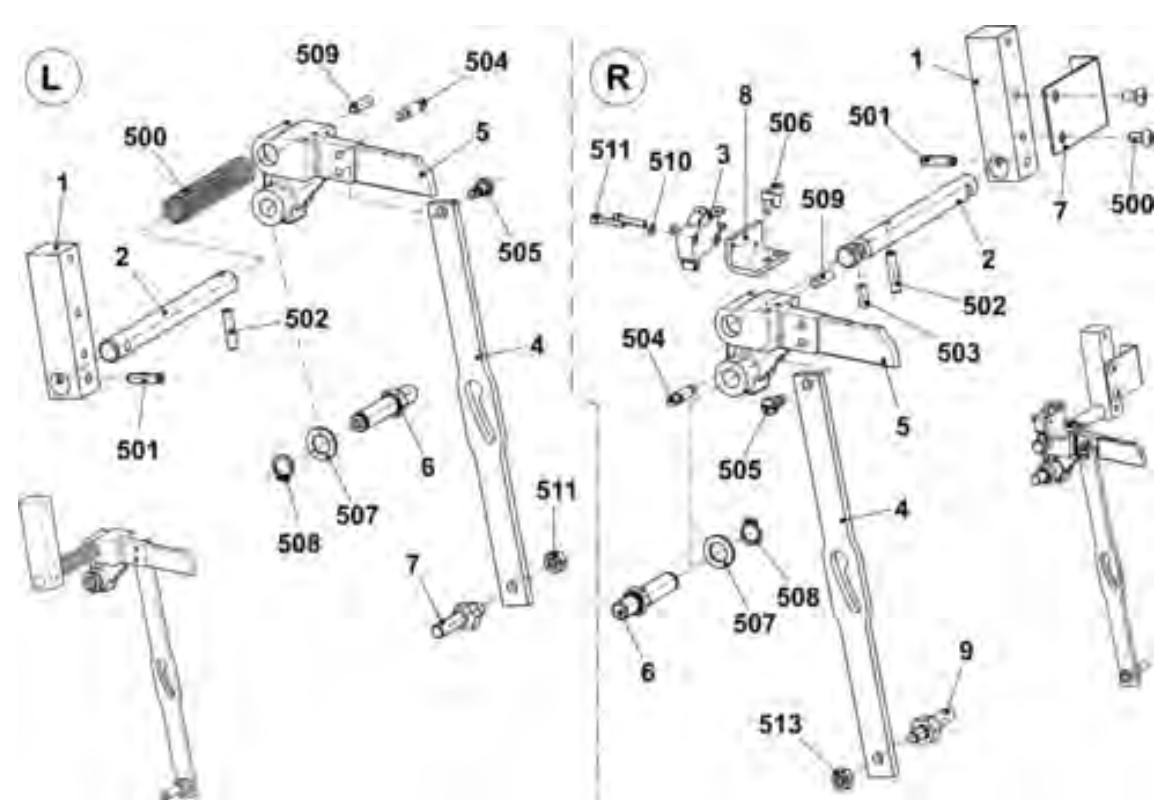
Pos	Designation	Id		Pos	Designation	Id
Σ	Drive shaft comb complete	214 583				
1	Shaft	213 969		500	Feather key A 6x6x25	023 017
2	Gear wheel Z=40, M=2	213 744		502	Setscrew M6x8	022 684
	Always order position 502 additionally			503	Setscrew M6x12	023 898
3	Toothed belt disc at the top	206 394		504	Set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



7.3 Comb take-down on the right

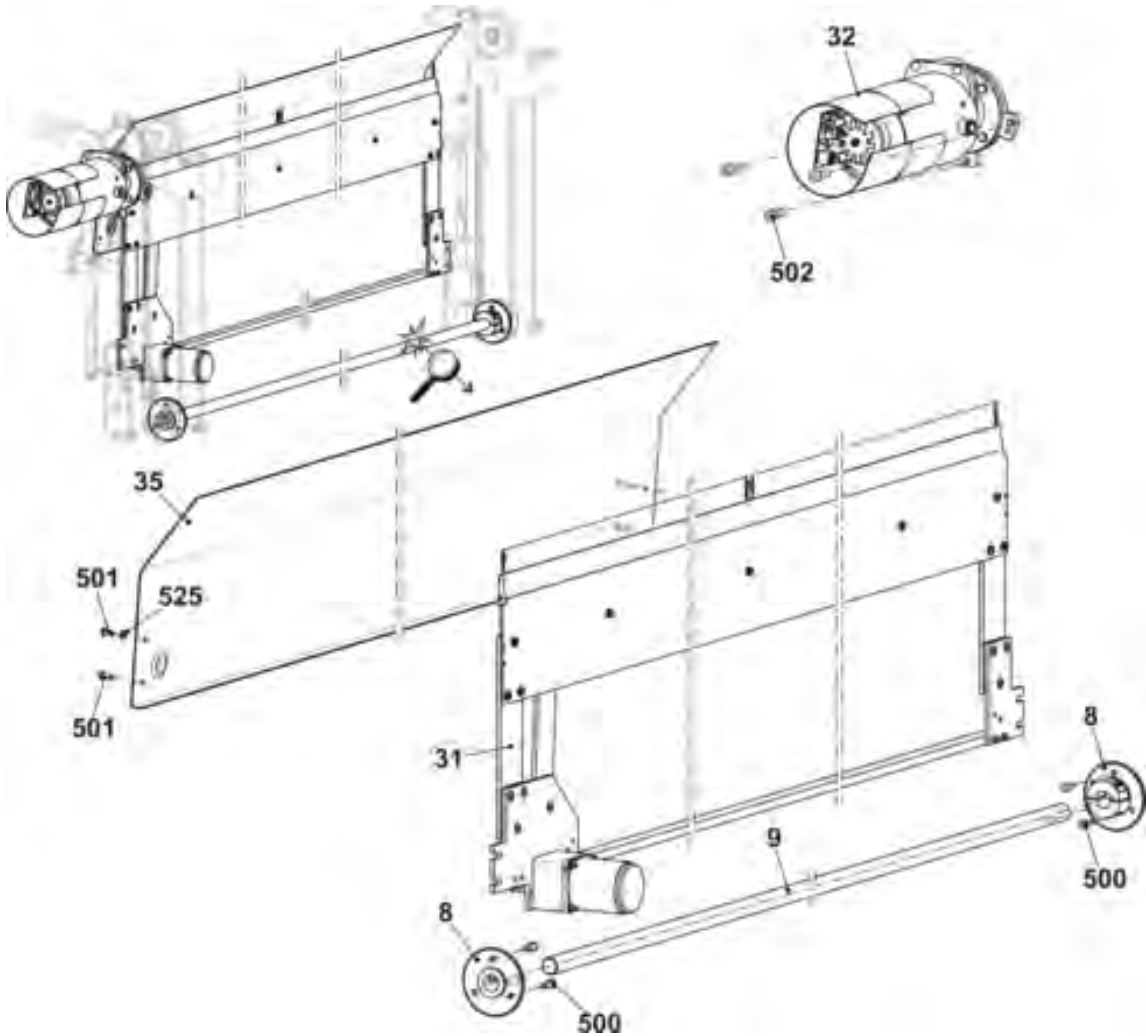
7.3.2 Swivel lever comb take-down

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	Countersunk screw M5x10	023 247
505	Shoulder screw M5x5.8x6.2	023 365		501	Spring dowel sleeve 5x20	020 794
507	U-washer 10	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 screw M4x8	022 501
				507	U-washer 10	020 884
				508	Locking ring 10x1	020 950
				509	Shoulder screw M5x12x18	020 539
				510	Shoulder screw M3x16	022 583
				511	U-washer 3	020 877
				513	Hexagon nut M8-6	020 838



7.4 Comb take-down in the middle

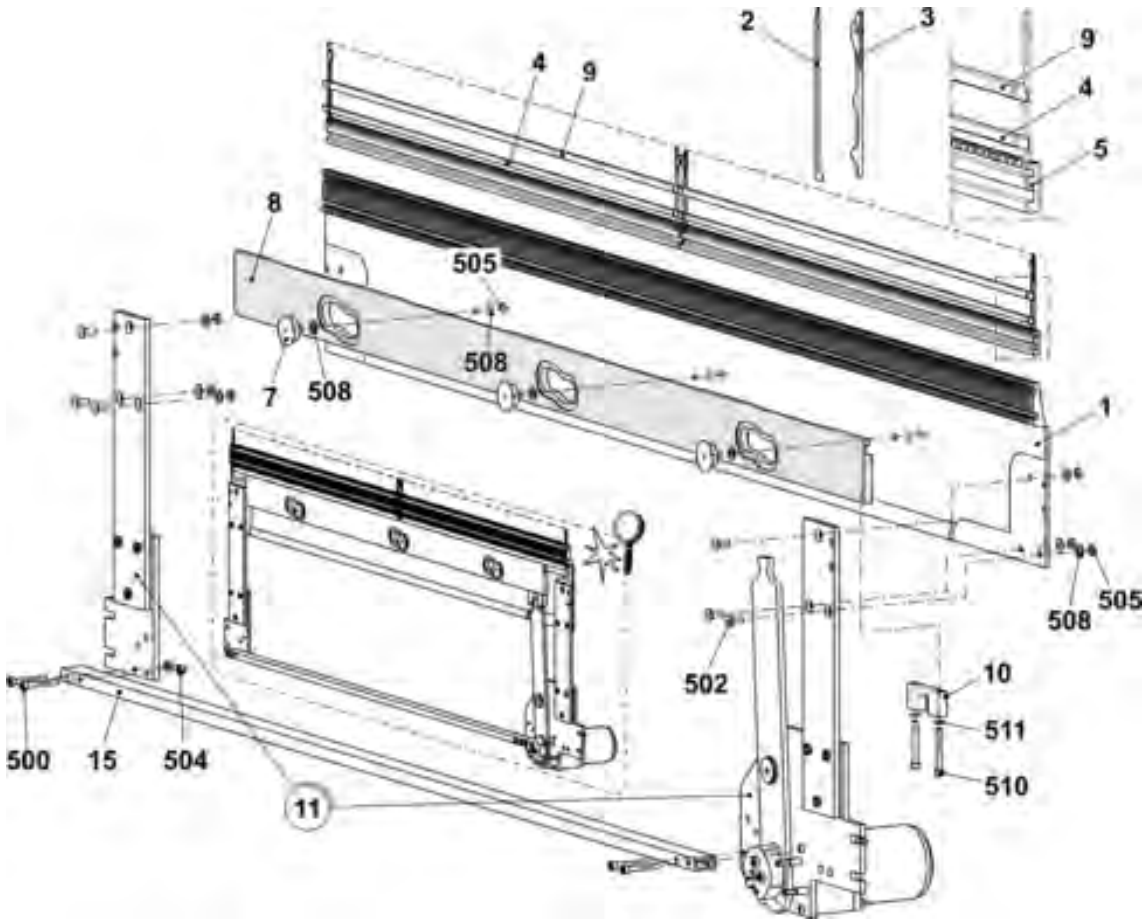
Pos	Designation	Id		Pos	Designation	Id
Σ	Comb take-down in the middle			31	Comb unit	
	E5	253 951			E5	253 948
	E7 E3,5.2 E7m.5	253 839			E7 E3,5.2 E7m.5	252 622
	E12 E6.2 E6.2(12m.10)	253 789			E12 E6.2 E6.2(12m.10)	252 065
	E14 E7.2 E7.2(14/12)	253 840			E14 E7.2 E7.2(14/12)	252 567
	E16 E8.2	257 020			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 screw M6x16	020 135		502	Cap screw M8x25	020 142
501	Countersunk screw M5x10	023 247		525	Serrated lock washer J5.3	022 489



7.4 Comb take-down in the middle

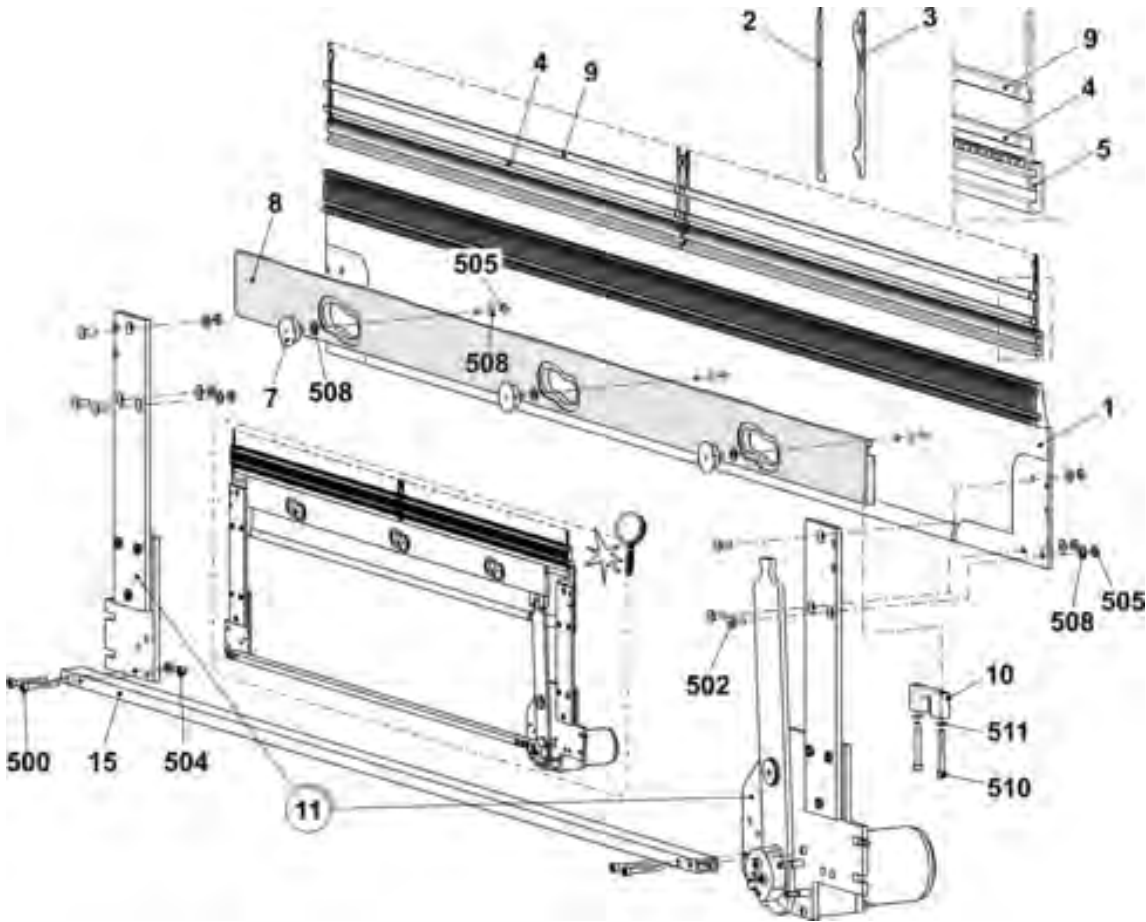
7.4.1 Comb unit E5 | E7 | E12 | E3,5.2 | E7m.5 | E6.2E6.2(12m.10)

Pos	Designation	ID No.		Pos	Designation	ID No.
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	Switch 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	U-washer 5	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

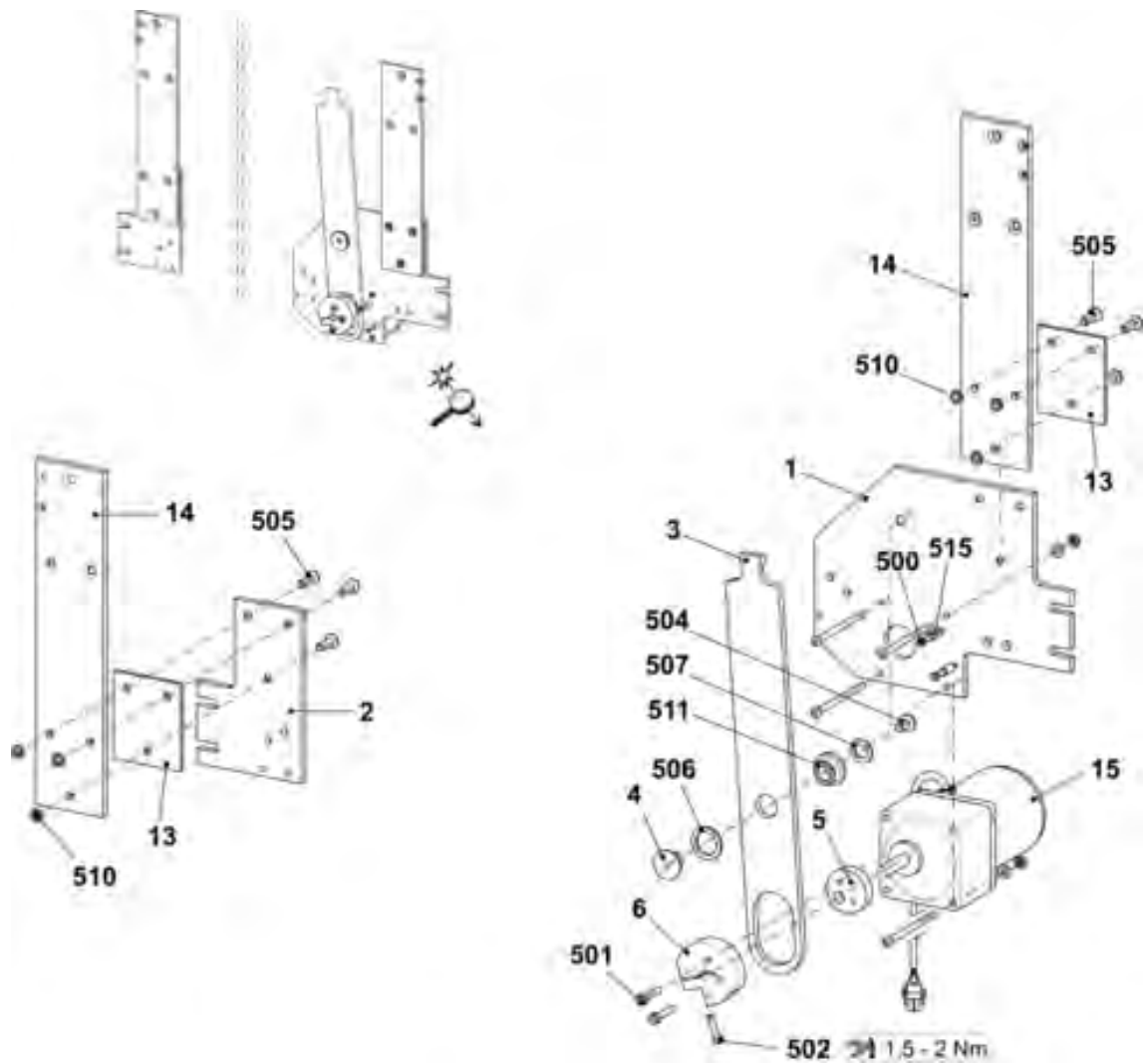
Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Comb unit			5	Hook slider	
	E14 E7.2 E7.2(14/12)	252 567			E14 E7.2 E7.2(14/12)	251 708
	E16 E8.2	257 017			E16 E8.2	251 709
	E18	257 019			E18	257 016
1	Hook bed			7	Collar bolt complete	211 036
	E14 E7.2 E7.2(14/12)	251 707		8	Cross slider	251 701
	E16 E8.2	257 014		9	Cover rail	251 702
	E18	257 015		10	Plunger	205 678
2	Closer			11	Switch 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	U-washer 5	020 871
4	Cover rail	251 696		510	Cap screw M4X35	023 550
500	Cap screw M4x30	023 290		511	Circlip	022 774



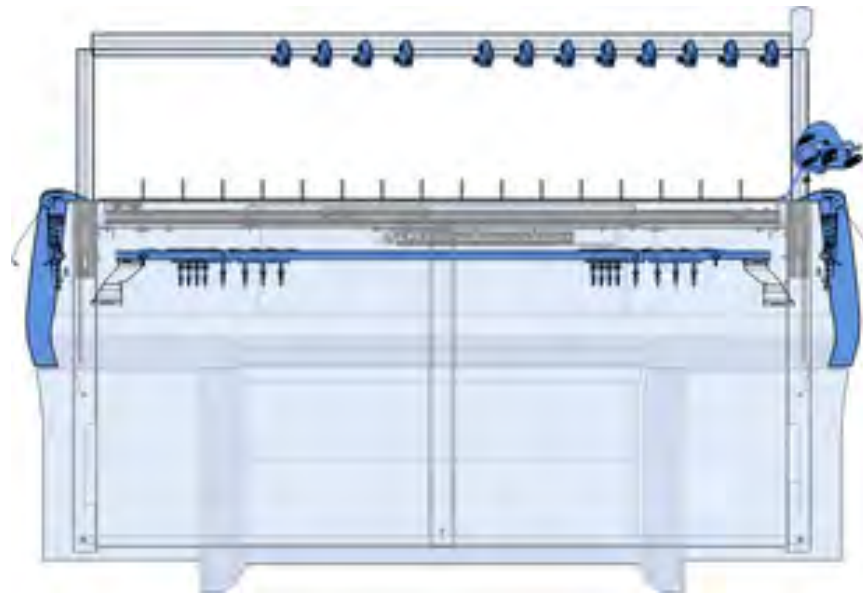
7.4 Comb take-down in the middle

7.4.3 Switch lever comb take-down

Pos	Designation	Id		Pos	Designation	Id
Σ	Switch lever complete	235 690		500	Cap screw M3x25	023 093
1	Screwing plate on the right	232 968		501	Cap screw M4x20	023 171
2	Screwing plate on the left	240 059		502	Cap screw M4x16	023 123
3	Lever	215 228		504	Countersunk screw M6x12	023 435
4	Bearing bolt	215 675		505	Countersunk screw M5x16	023 417
5	Eccentric	205 681		506	Adjusting washer 16x22x2	023 449
6	Tension lifter	215 287		507	Shim ring 4x8x1	023 260
13	Intermediate plate	213 980		510	Hexagon nut M5	020 854
14	Retaining plate	218 977		511	Collar bearing 10x16x22	022 841
15	Motor comb hook with 2 phases	244 635		515	Threaded spacer	210 488



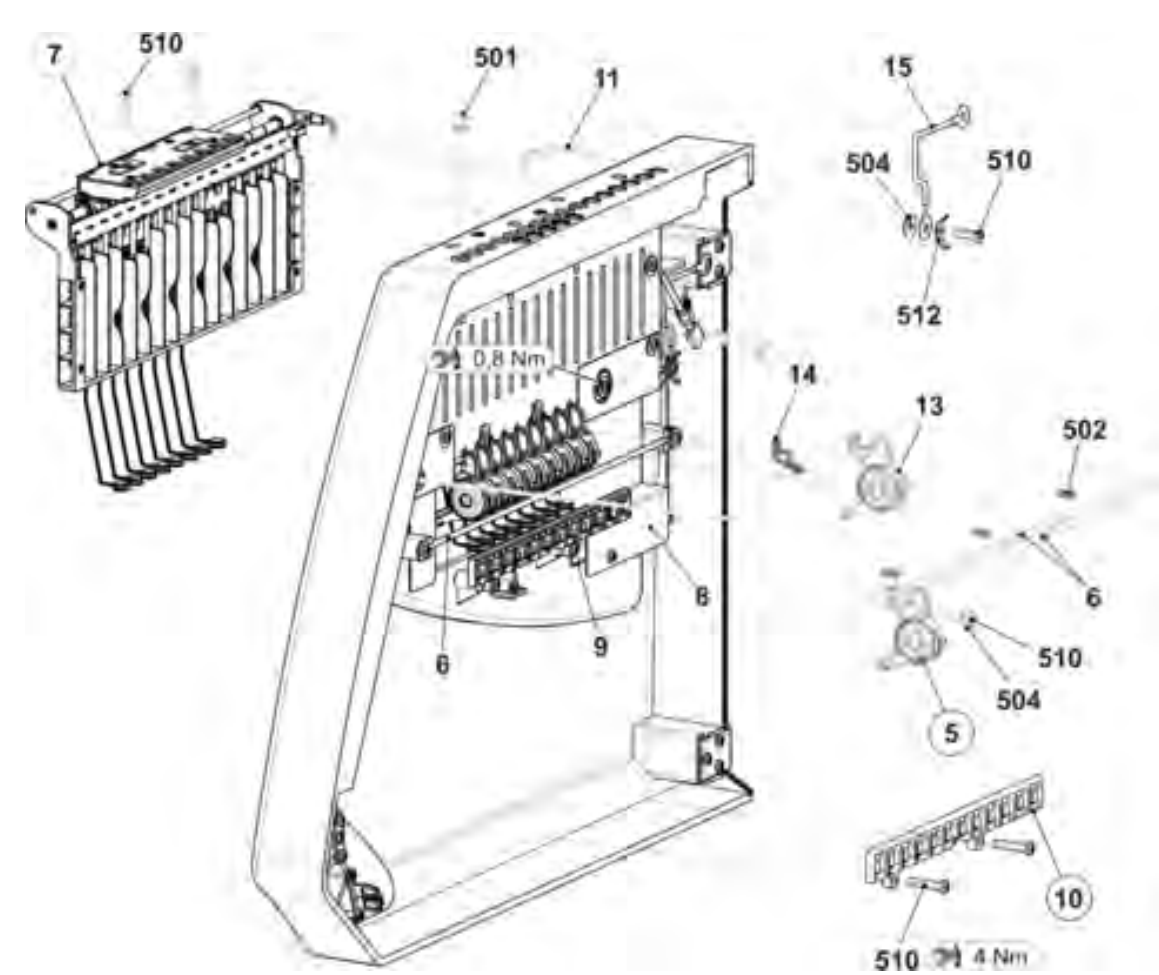
8 Yarn delivery device



8.1 Yarn guide system with 12 FKE

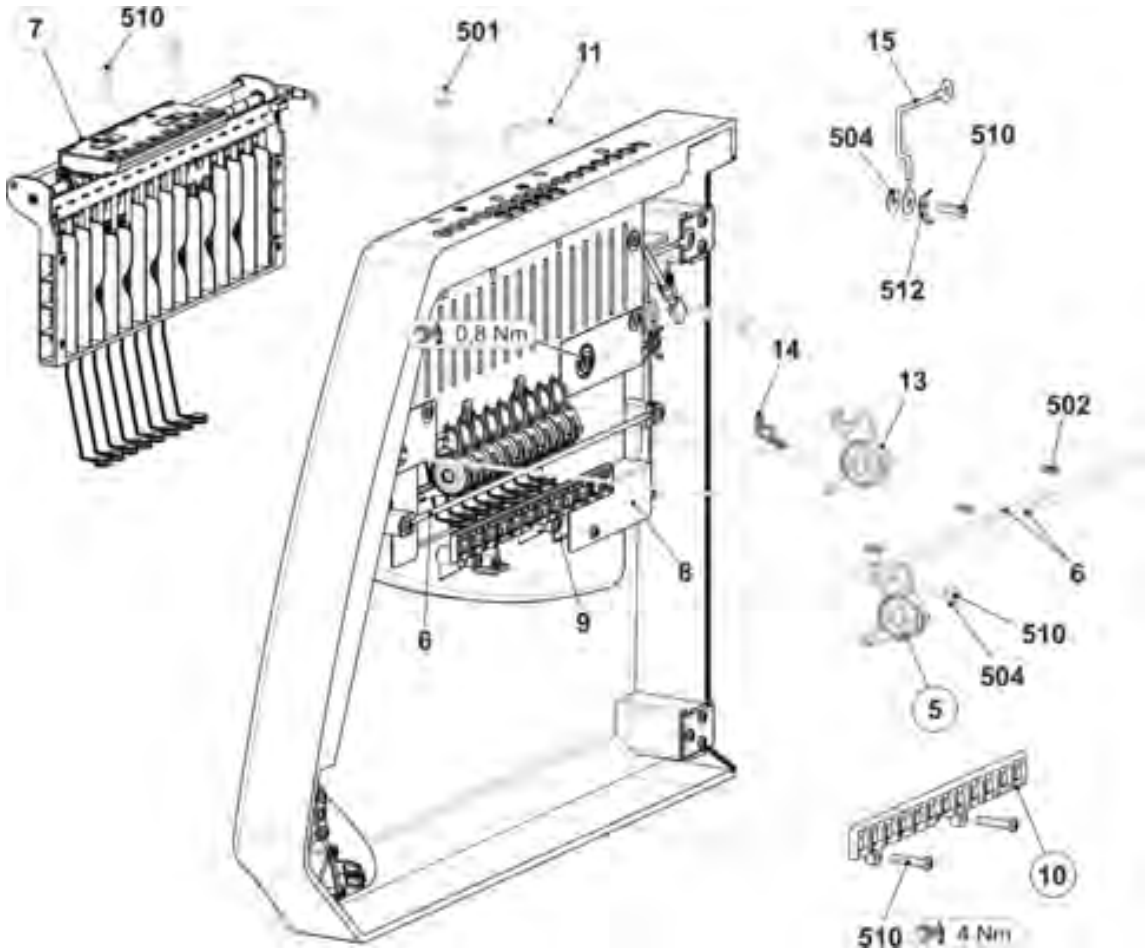
8.1 Yarn guide system with 12 FKE

Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Yarn guide system 12 FKE	256 929		8	Support	243 792
1	Support	251 628		9	Sliding block	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	Ribbed lock washer M6-10	023 414
5	Support on the right	251 629		503	U-washer 6	022 431
6	Yarn guide bracket complete	241 581		504	Pan-head screw M4x25	023 113
7	Yarn guide bar	251 631		505	Serrated lock washer	023 388



8.2 Left yarn guide

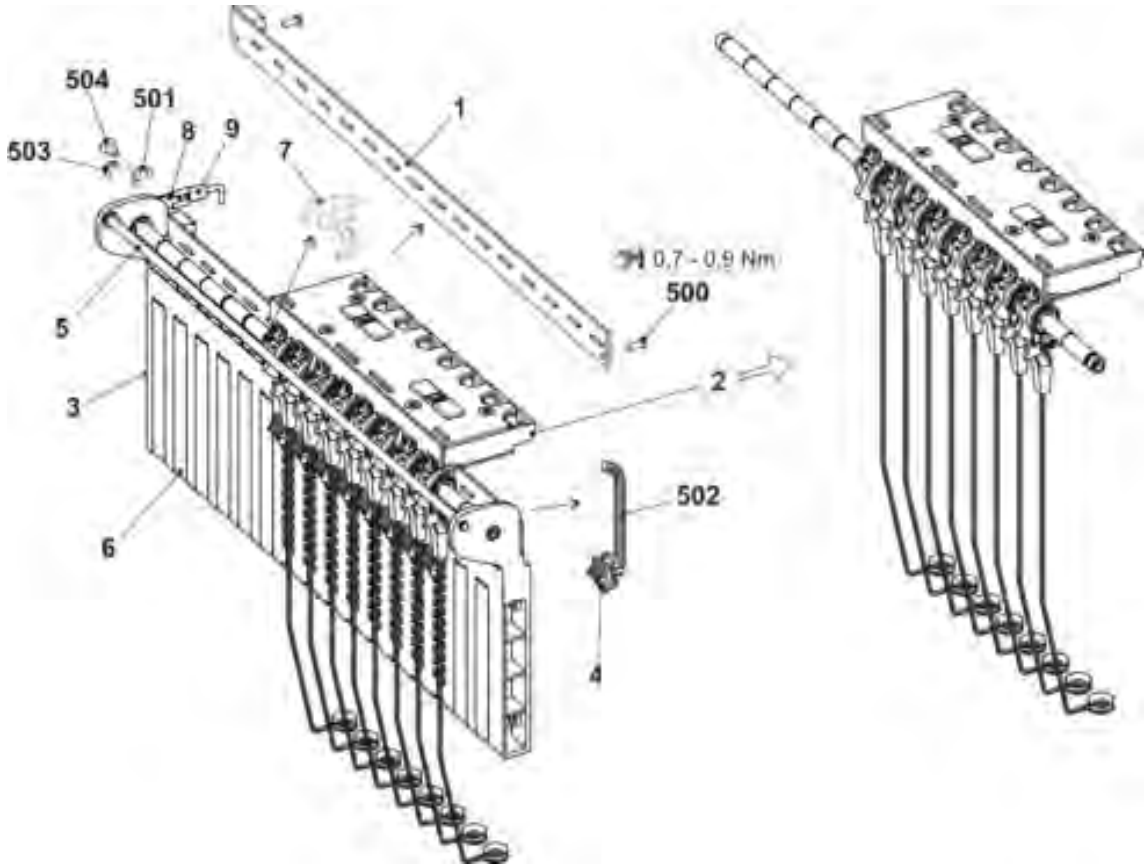
Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Safety cover on the left complete		9	Wire bow on the left	241 370
	E5 E3,5.2 E7m.5	256 904	10	Yarn deflector	242 011
	E7 E6.2	256 905	11	Connection cable yarn E10 + E12 + E14 + E16 + E18 + E7.2 + E8.2 + E9.2 + 10m.12 + E6.2(12m.10) + E14/12tensioner OKC	240 808
	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		501	Ceramic eyelet	240 640
	E5 E3,5.2 E7m.5	256 897	502	Compression spring 0.90x5.40x13.60	241 360
	E7 E6.2	256 898	504	U-washer 6	022 537
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	256 899	510	Screw KB60 x 20	237 682
8	Cover	240 783	512	Flat connector 2x45° M6	243 117



8.2 Left yarn guide

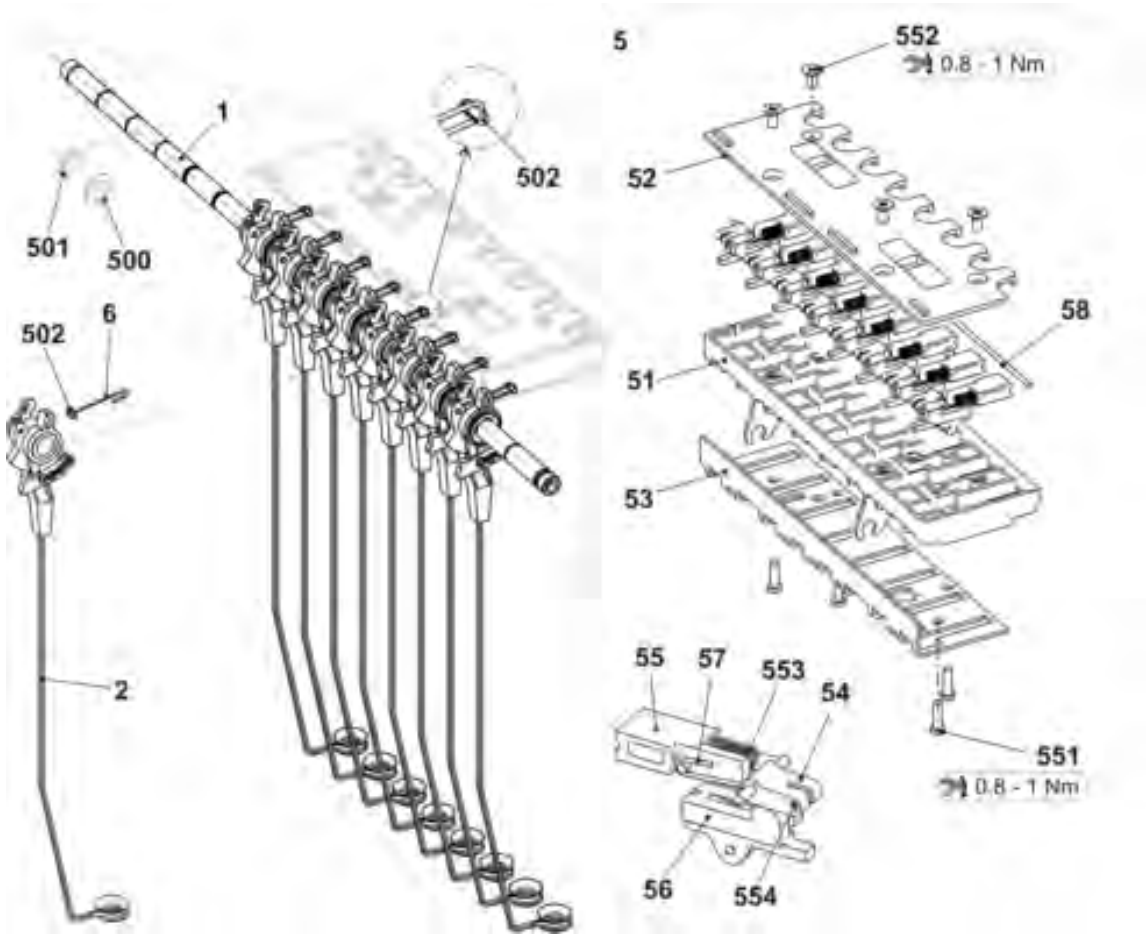
8.2.1 Left yarn tensioner

Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Yarn tensioner on the left complete			7	Spacer	242 048
	E5 E3,5.2 E7m.5	256 897		8	Grounding sheet metal of tension axle	243 121
	E7 E6.2	256 898		9	Ground cable yarn tensioner OKC	243 105
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	256 899		500	Screw KB 30x8	236 228
1	Card yarn tensioner 16-fold on the left	241 345		501	Circlip	021 022
2	Tension axle on the left complete			502	Tension spring 5,05x0,55x53 E5 E3,5.2 E7m.5	023 502
	E5 E7 E3,5.2 E6.2 E7m.5	256 892			Tension spring 4,9x0,5x53 E7 E6.2	023 503
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	256 893			Tension spring 4,9x0,45x53 E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	023 504
3	Housing	241 367		503	Circlip	021 020
4	Slider	241 694		504	Countersunk screw M4x12	241 914
5	Stop point	241 368				
6	Cover	242 268				



8.2.1.1 Left tension axle

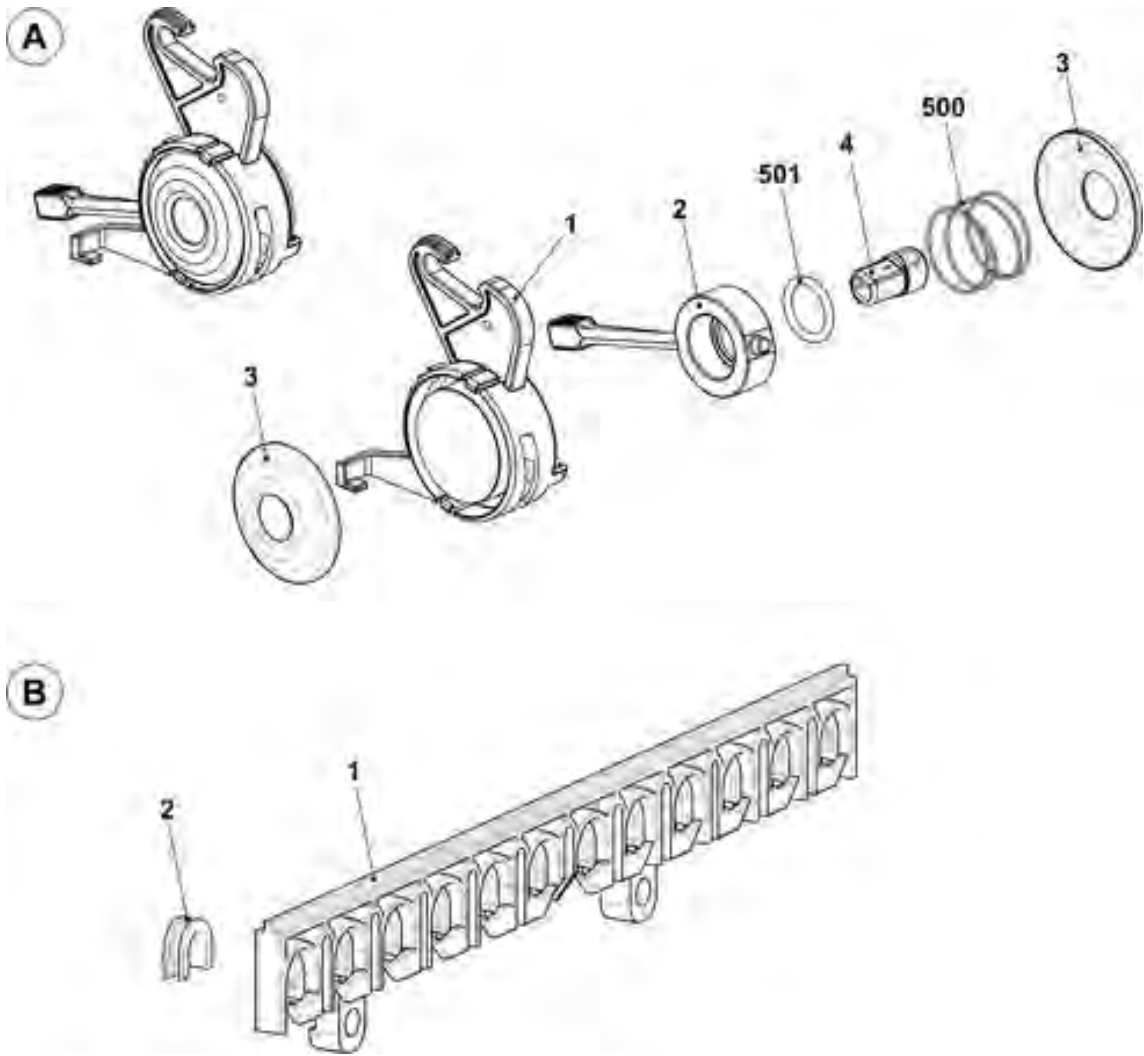
Pos	Designation	Id		Pos	Designation	Id
Σ	Tension axle on the left complete			5	Thread clamp AKF	238 695
	E5 E7 E3,5.2 E6.2 E7m.5	256 892		51	Housing AKF	238 689
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	256 893		52	Cover AKF	237 926
1	Axle	243 107		53	Sheet metal at the bottom (housing AKF)	240 719
2	Tension arm pre-assembled			54	Lever AKF	238 692
	E5 E7 E3,5.2 E6.2 E7m.5	242 770		55	Thrust piece AKF	238 690
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	242 771		56	Slider AKF	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

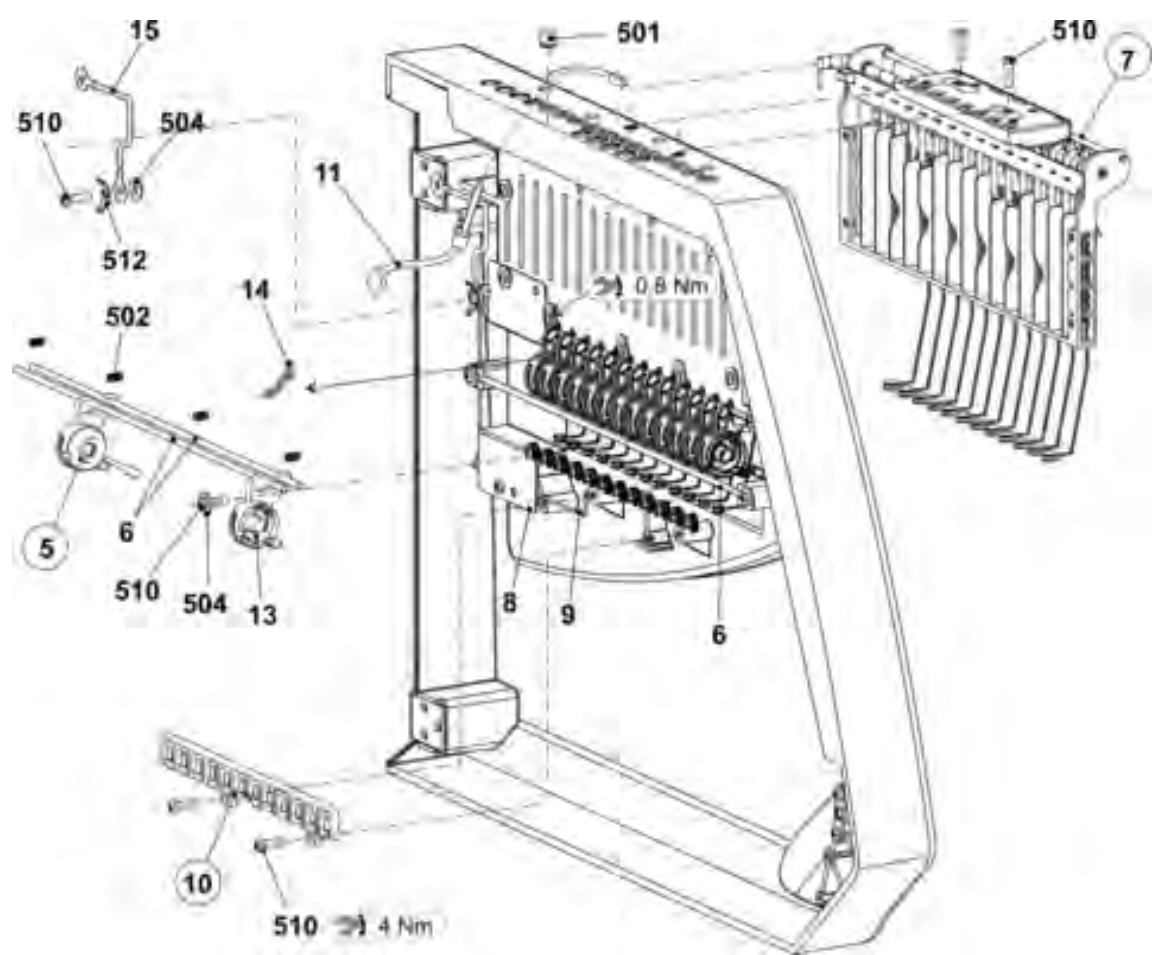
8.2.2 Yarn brake and yarn deflector

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



8.3 Right yarn guide

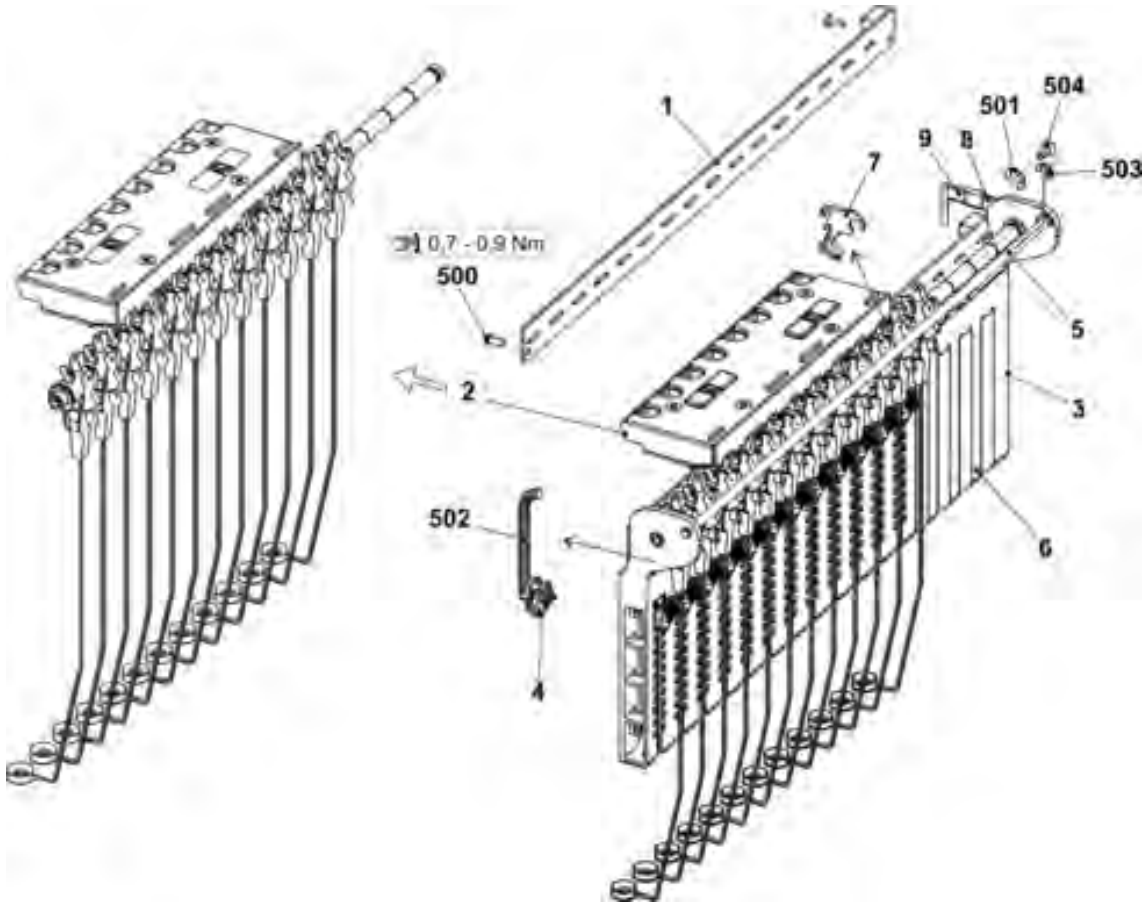
Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Safety cover on the right complete		9	Wire bow on the right	241 369
	E5 E3,5.2 E7m.5	241 274	10	Yarn deflector	242 011
	E7 E6.2	241 275	11	Connection cable yarn E10 + E12 + E14 + E16 + E18 + E7.2 + E8.2 + E9.2 + 10m.12 + E6.2(12m.10) + E14/12tensioner OKC	240 808
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	241 276	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		501	Ceramic eyelet	240 640
	E5 E3,5.2 E7m.5	241 382	502	Compression spring 0.90x5.40x13.60	241 360
	E7 E6.2	241 383	504	U-washer	022 537
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	241 384	510	Screw KB60 x 20	237 682
8	Cover	240 783	512	Flat connector 2x45° M6	243 117



8.3 Right yarn guide

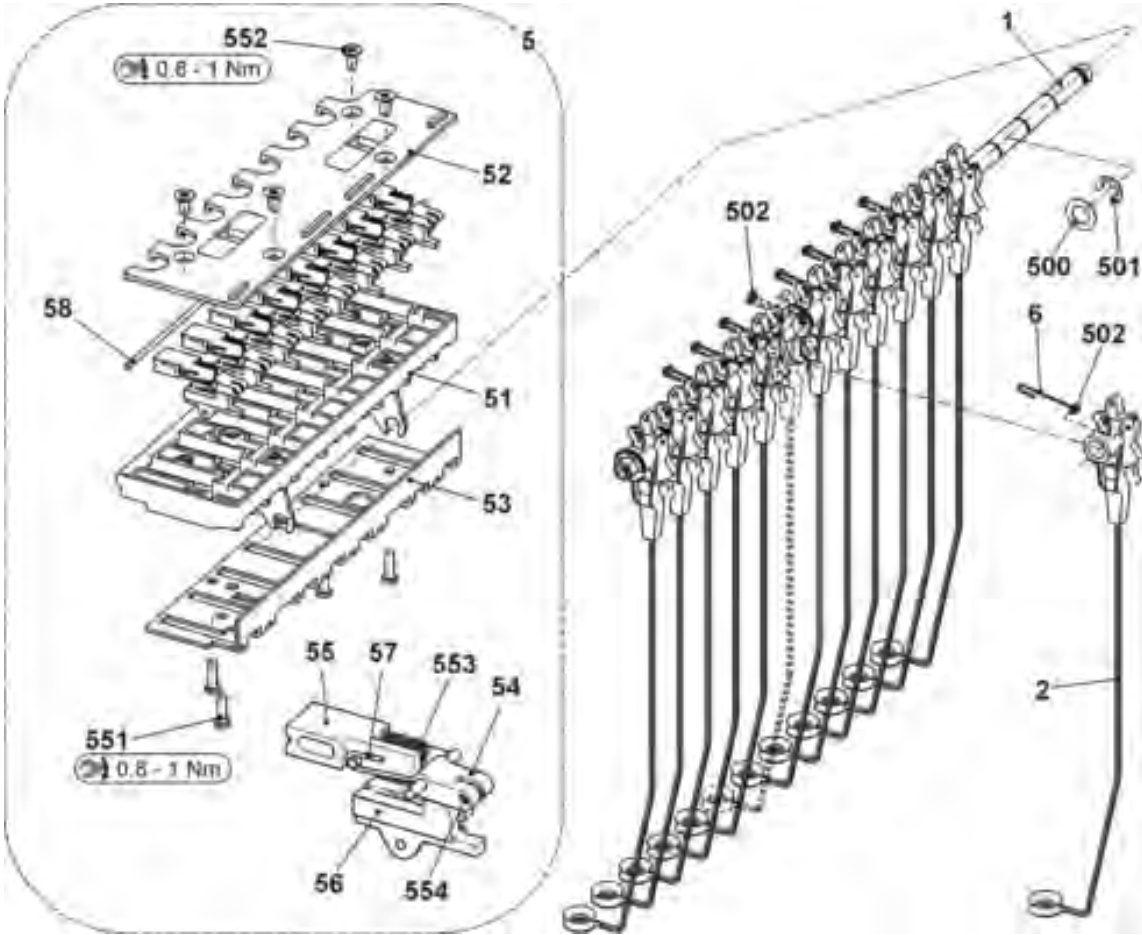
8.3.1 Right yarn tensioner

Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn tensioner on the right complete			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	243 105
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	241 384		500	Screw KB 30x8	236 228
1	Card yarn tensioner 16-fold on the right	241 346		501	Circlip	021 022
2	Tension axle on the right complete			502	Tension spring 5,05x0,55x53 E5 E3,5.2 E7m.5	023 502
	E5 E7 E3,5.2 E6.2 E7m.5	241 379			Tension spring 4,9x0,5x53 E7 E6.2	023 503
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	241 380			Tension spring 4,9x0,45x53 E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	023 504
3	Housing	241 367		503	Circlip	021 020
4	Slider	241 694		504	Countersunk screw M4x12	241 914
5	Stop point	241 368				
6	Border	242 268				



8.3.1.1 Right tension axle

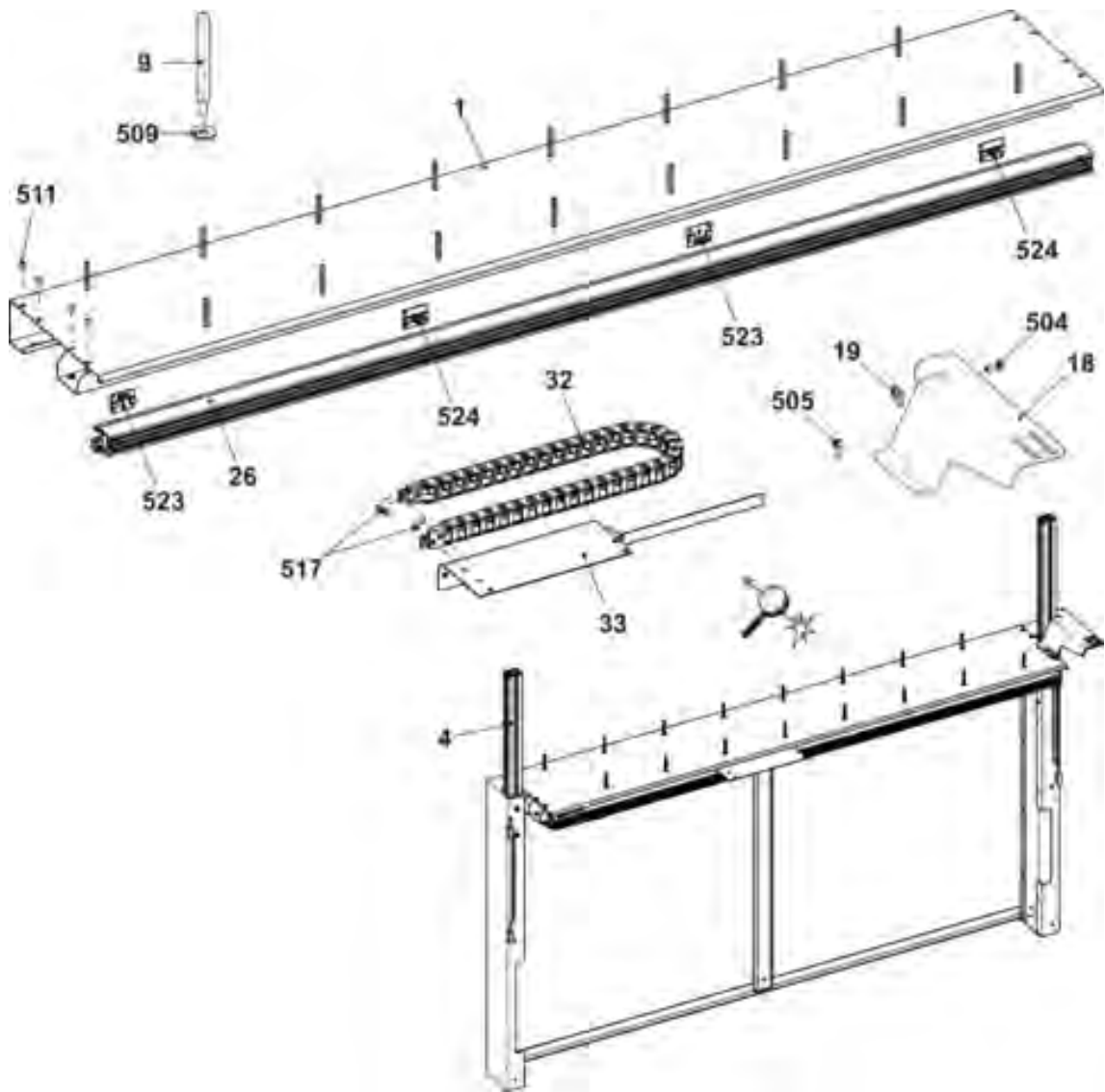
Pos	Designation	Id		Pos	Designation	Id
Σ	Tension axle on the right complete			5	Thread clamp AKF	238 695
	E5 E7 E3,5.2 E6.2 E7m.5	241 379		51	Housing AKF	238 689
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	241 380		52	Cover AKF	237 926
				53	Sheet metal at the bottom (housing AKF)	240 719
1	Axle	243 107		54	Lever AKF	238 692
2	Tension arm pre-assembled			55	Pressure peace AKF	238 690
	E5 E7 E3,5.2 E6.2 E7m.5	242 770		56	Slider AKF	238 691
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	242 771		57	Wire bow	238 694
6	Wire bow	238 694		58	Wire	237 940
500	Shim ring 8x14x0.5	023 501		551	Screw KB 35x12	237 681
501	Circlip	021 022		552	Screw KB 40x8	236 227
502	Grooved pin 2x6	243 172		553	Compression spring 0.30x4.50x18.50	241 437
				554	Grooved pin 2x6	243 172



8.4 Bobbin board

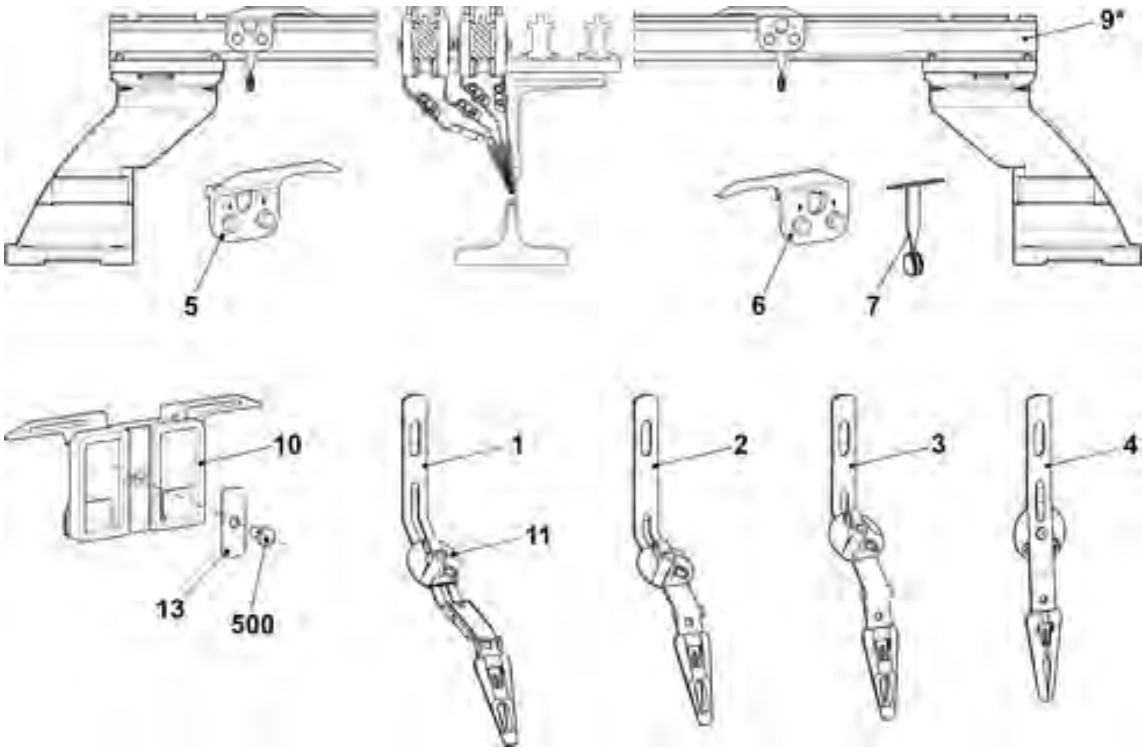
8.4 Bobbin board

Pos	Designation	ID No.		Pos	Designation	ID No.
Σ	Table complete 45"	256 933		33	Angle complete	253 887
1	Table	256 788		504	Countersunk screw M8x18	251 331
4	Support element	228 594		505	Countersunk screw M8x16	023 113
9	Positioning pin	204 819		509	U-washer	020 901
18	Support of right feed wheel	250 967		511	Countersunk screw M8x10	241 930
19	Sliding block	228 851		517	Cap screw M8x25	023 411
26	Guide rail at the top	256 817		523	Magnet switches protective hood	219 983
32	Energy chain	253 888		524	Magnet switches protective hood	220 159



8.5 Yarn carrier and guide rails

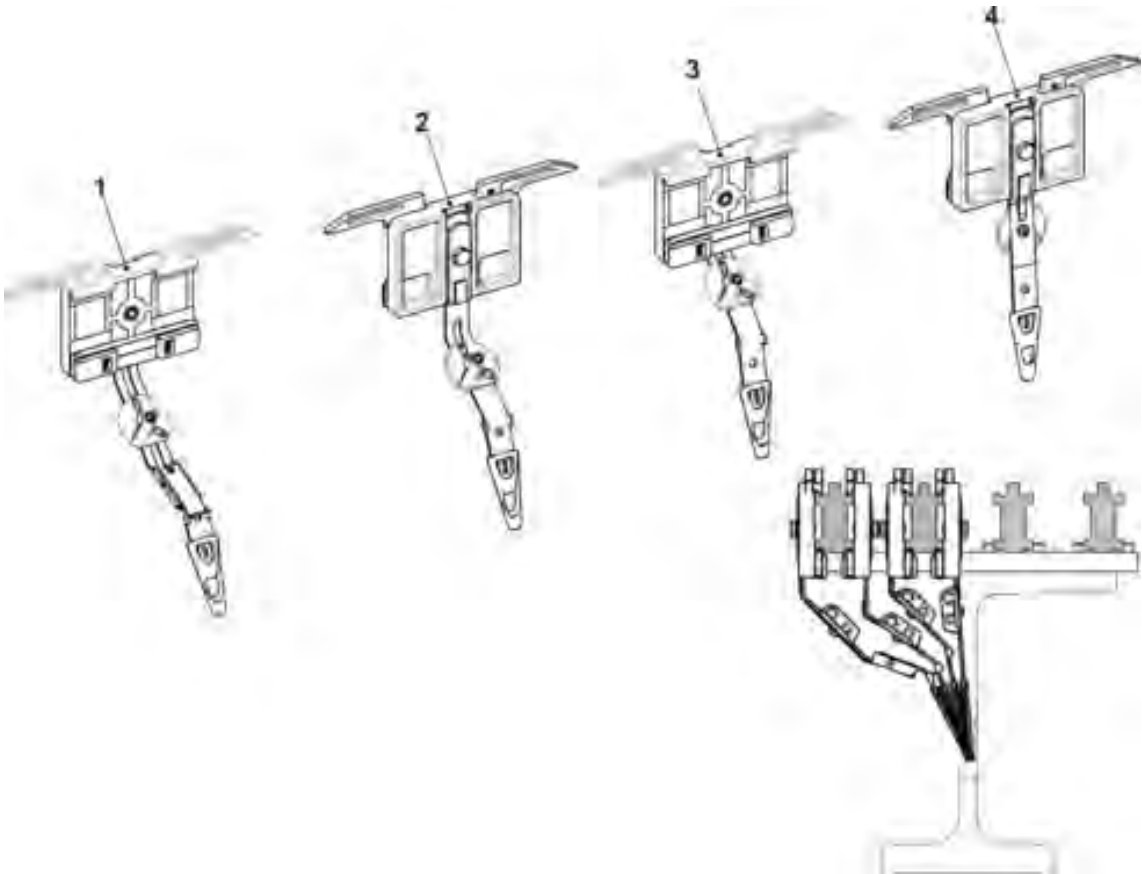
Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Yarn guide complete		E5 E3,5.2 E7m.5		
	E5 E3,5.2 E7m.5	253 830	1	YC bow 1+8 complete E5	212 990
	E7 E6.2	253 831	2	YC bow 2+7 complete E5	212 992
	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2	253 832	3	YC bow 3+6 complete E5	212 991
5	Limiter on the left complete	244 099	4	YC bow 4+5 complete E5	212 993
6	Limiter on the right complete	244 098	E7 E6.2		
7	Slider with eyelet	230 709	1	YC bow 1+8 complete E7-8	212 892
9*	Yarn carrier rail	252 012	2	YC bow 2+7 complete E7-8	212 914
10	YC carriage complete	243 062	3	YC bow 3+6 complete E7-8	212 925
11	Yarn guide wheel complete	209 257	4	YC bow 4+5 complete E7-8	212 910
13	Shim	213 035	E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2		
500	Hexagonal screw M5x10	020 351	1	YC bow 1+8 complete E10-14	212 994
			2	YC bow 2+7 complete E10-14	212 996
			3	YC bow 3+6 complete E10-14	212 995
			4	YC bow 4+5 complete E10-14	212 997



8.6 Complete yarn carriers

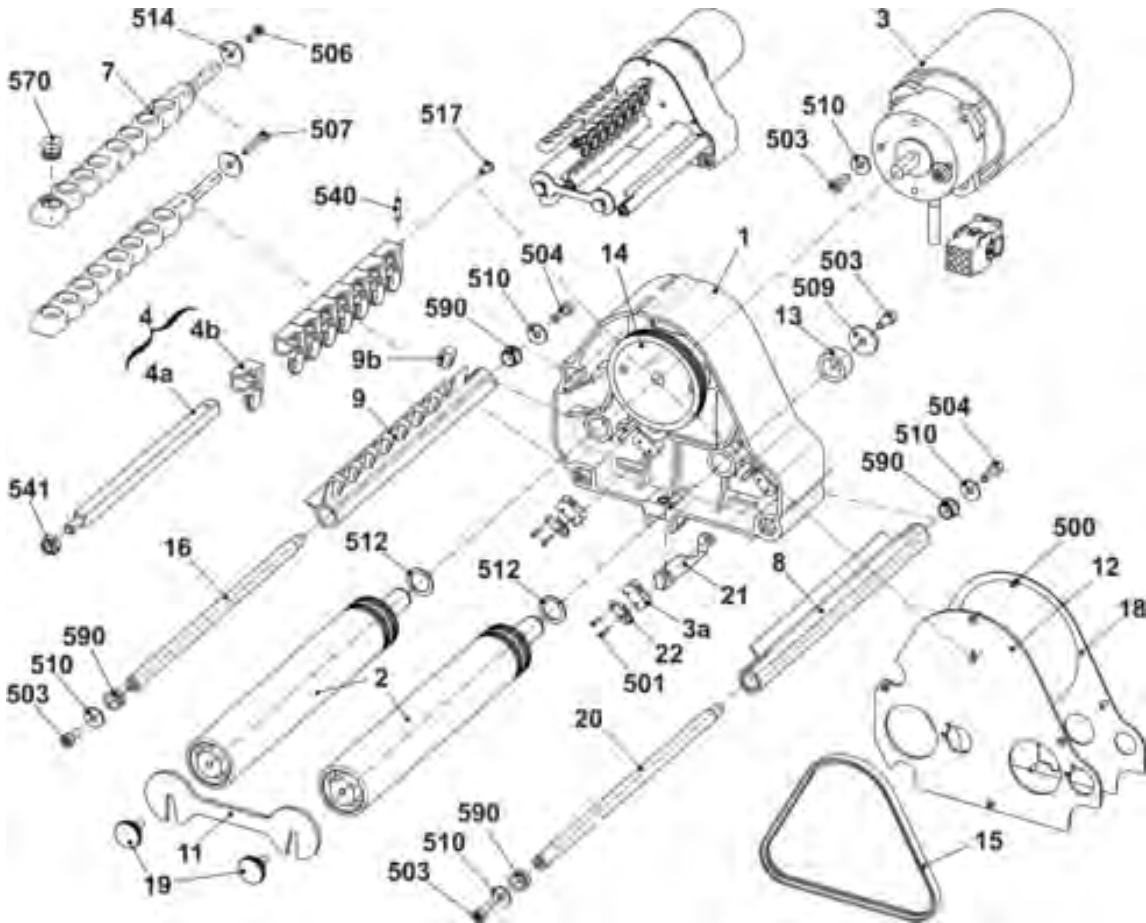
8.6 Complete yarn carriers

Pos	Designation	Track	ID No.		Pos	Designation	Track	ID No.
E5 E3,5.2 E7m.5					E12 E14 E7.2 E6.2(12m.10) E7.2(14/12) E16 E18 E8.2			
1	YC carriage complete E5	1+8	243 935		1	YC carriage complete E10-14	1+8	243 943
2	YC carriage complete E5	2+7	243 934		2	YC carriage complete E10-14	2+7	243 942
3	YC carriage complete E5	3+6	243 933		3	YC carriage complete E10-14	3+6	243 941
4	YC carriage complete E5	4+5	243 932		4	YC carriage complete E10-14	4+5	243 940
E7 E6.2								
1	YC carriage complete E7-8	1+8	243 939					
2	YC carriage complete E7-8	2+7	243 938					
3	YC carriage complete E7-8	3+6	243 937					
4	YC carriage complete E7-8	4+5	243 936					



8.7 Right friction feed wheel

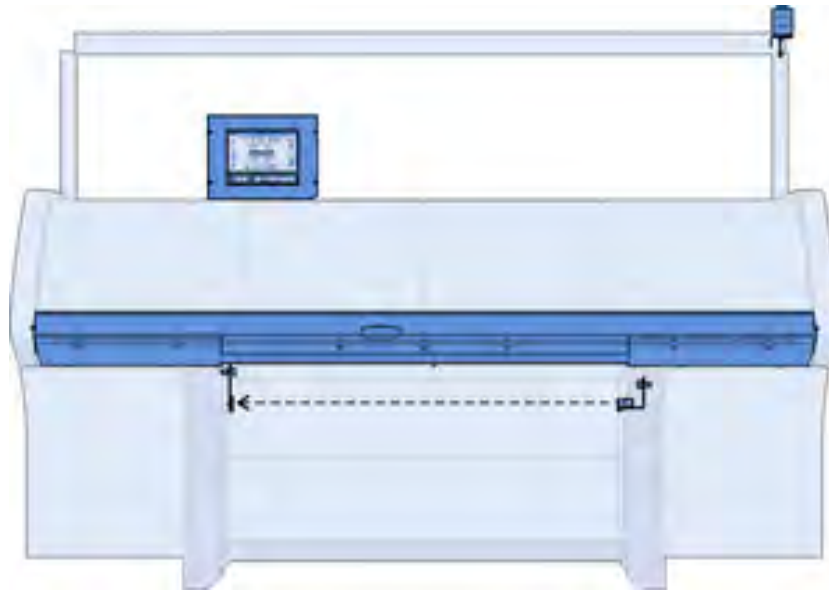
Pos	Designation		Id	Pos	Designation		Id
Σ	Friction feed wheel on the right complete		243 572	14	Ribbed V-belt pulley		221 268
1	Housing		240 368	15	Ribbed V-belt pulley V3J 406		206 927
2	Friction roller complete		231 704	16	Rod		221 319
3	Three-phase A.C. motor complete		219 800	18	Cover		230 758
	3a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



8.7 Right friction feed wheel

Notes:

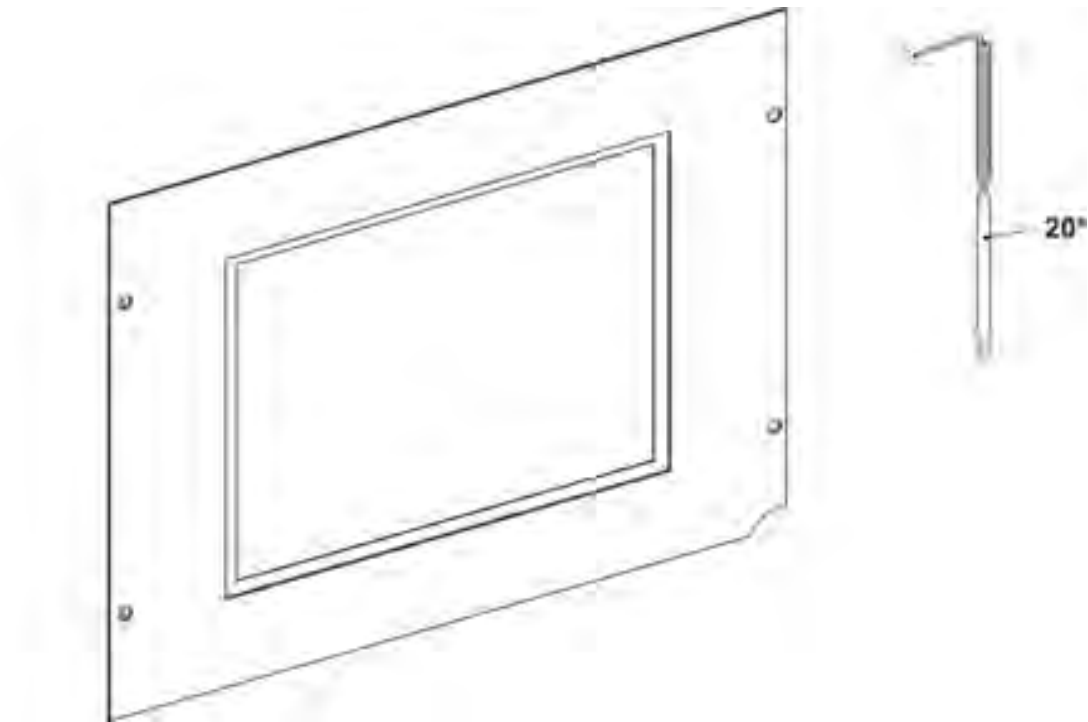
9 Operation and control



9.1 Input unit

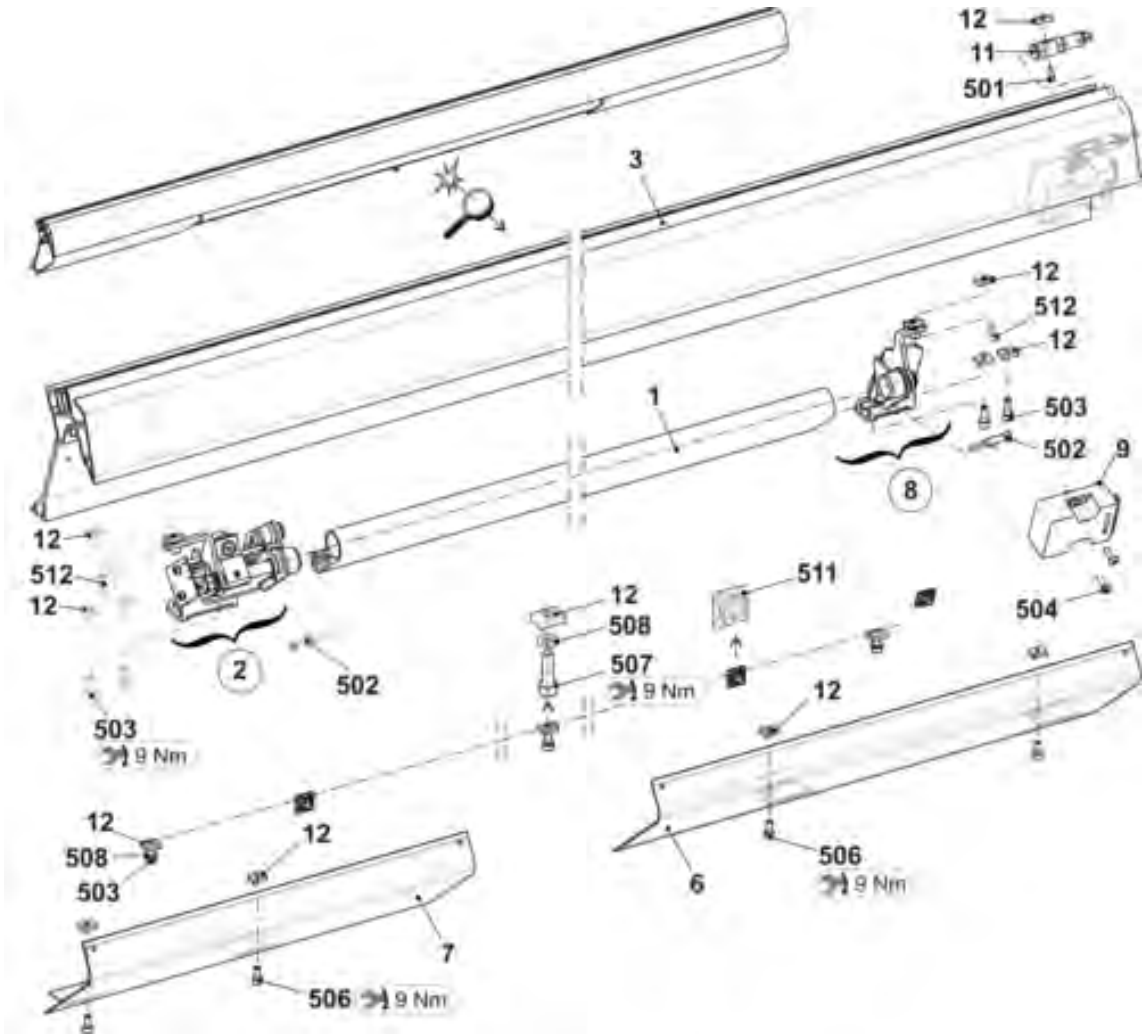
9.1 Input unit

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



9.2 Starting unit

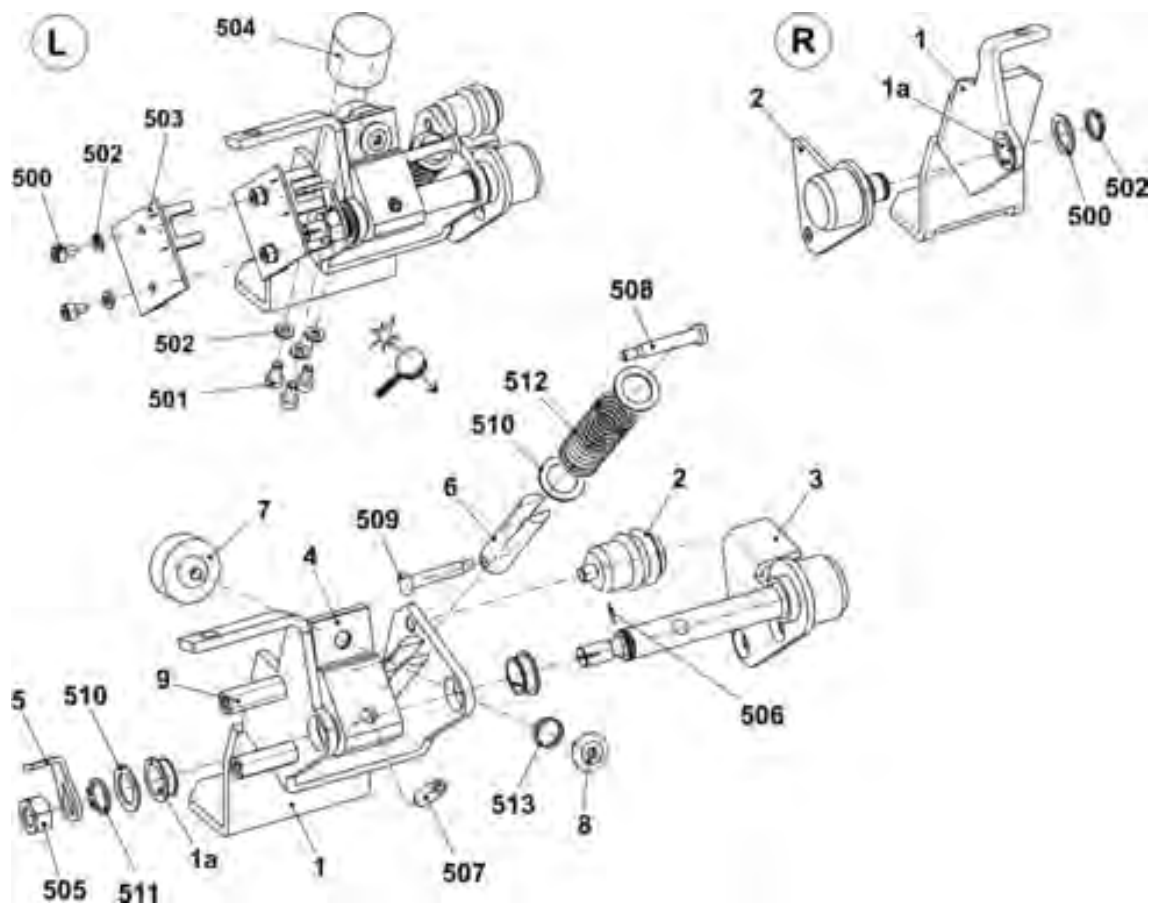
Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Starting unit	256 914	501	Cap screw M4X10	023 136
1	Engaging rod	251 686	502	Screw M6x25	023 510
2	Bearing on the left complete	250 071	503	Cap screw M6x16	020 135
3	Guide rail at the bottom pre-assembled	256 915	504	Countersunk screw M5x14	023 588
6	Cover plate on the right	251 691	506	Cap screw M6X12	020 134
7	Cover plate on the left	251 690	507	Cap screw M6x20-12.9	020 136
8	Bearing on the right complete	252 964	508	U-washer 6	020 872
9	Cable switch protective hoods	223 350	511	Adhesive base	243 055
11	Fixing bolt	219 107	512	Cap screw M6X10	023 690
12	Sliding block	225 099	513	Countersunk screw M5x10	023 247



9.2 Starting unit

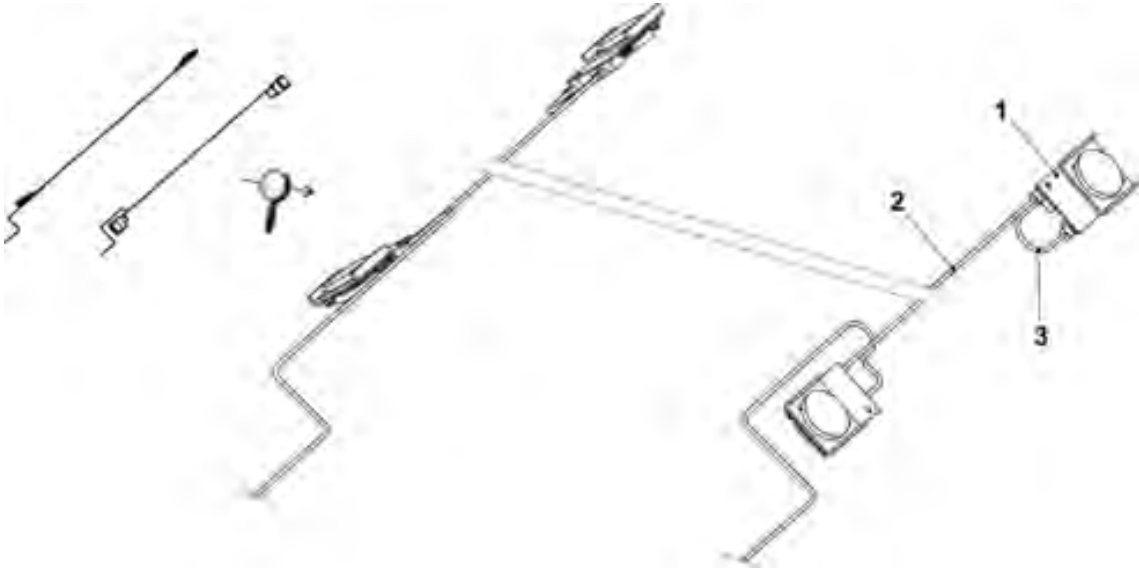
9.2.1 Bearing of the engaging rod

Pos	Designation	ID No.		Pos	Designation	ID No.
L	Bearing on the left complete	250 071		505	Hexagon nut M8-6	020 838
1	Bearing on the left	245 218		506	Dowel pin 1.5x8	236 923
1a	Clip bearing MCM 12-04	023 639		507	Spring dowel sleeve 6x20	023 719
2	Support buffer	220 561		508	Shoulder screw M4x24.8x7.7	240 299
3	Shaft on the left	245 219		509	Shoulder screw	251 316
4	Rotor	253 776		510	Adjusting washer 12x18x1	023 315
5	Switch flag	245 220		511	Locking ring 12x1	020 951
6	Spring mandrel	251 340		512	Compression spring 1.25x15x98.2	023 609
7	Disc	245 222		513	Compression spring 0.5x11x12	251 369
8	Shoulder screw	254 528				
9	Distance bolt	240 287		R	Bearing on the right complete	252 964
500	Cap screw M4X6	023 067		1	Bearing on the right	240 230
501	Cap screw M4x8	022 501		1a	Clip bearing MCM 12-04	023 639
502	Shim ring 4x8x1	023 369		2	Shaft on the right	242 888
503	Card engaging OKC	240 167		500	Adjusting washer 12x18x1	023 315
504	Adhesive magnet direct current	026 233		502	Locking ring 12x1	020 951



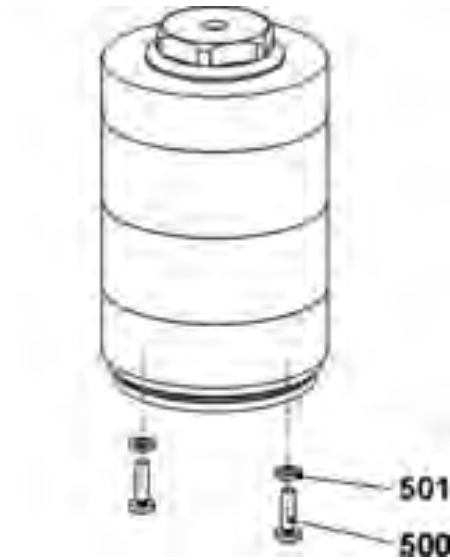
9.3 Shock stop motion

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				



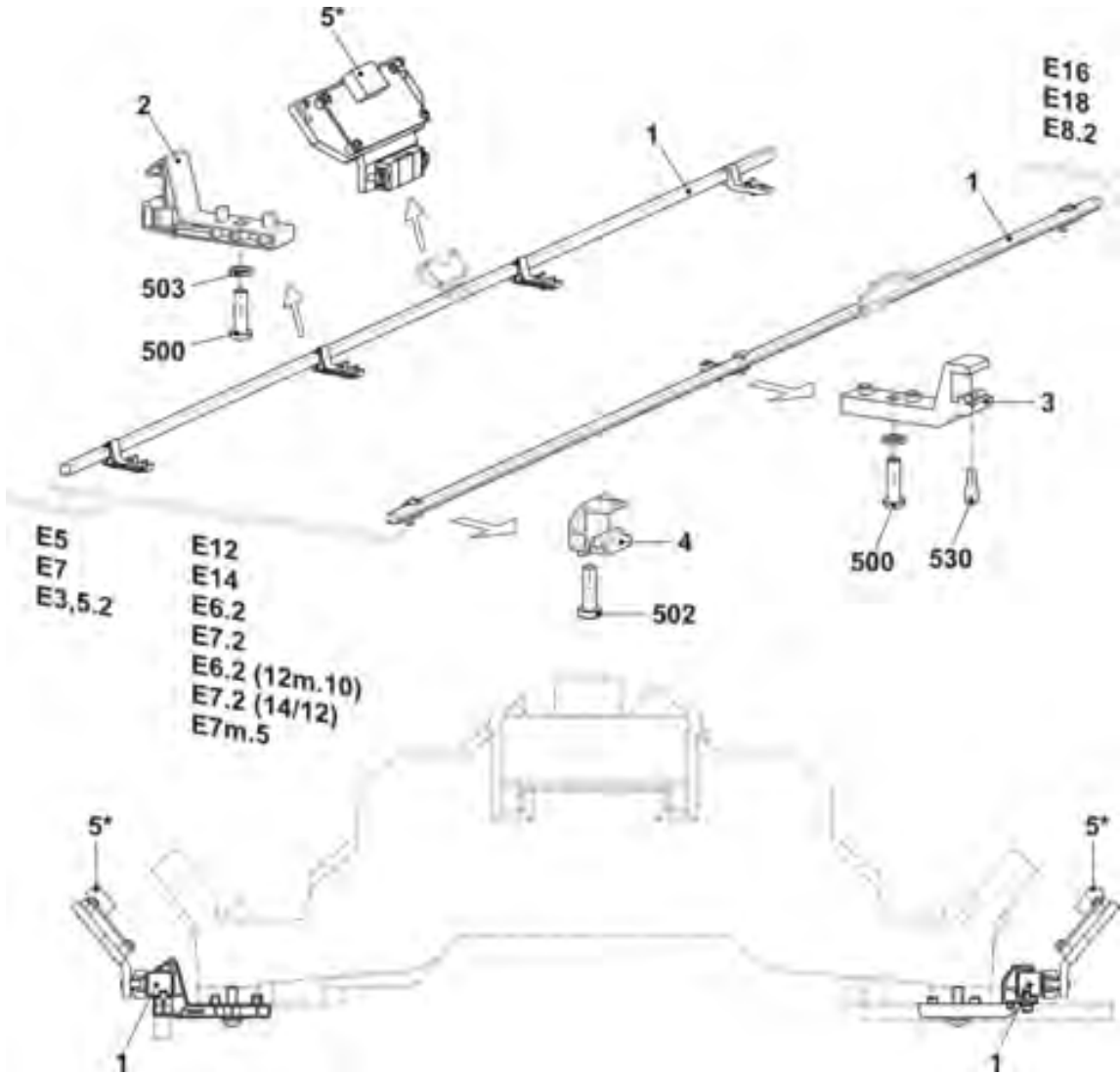
9.4 Signal light

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



9.5 Measuring device

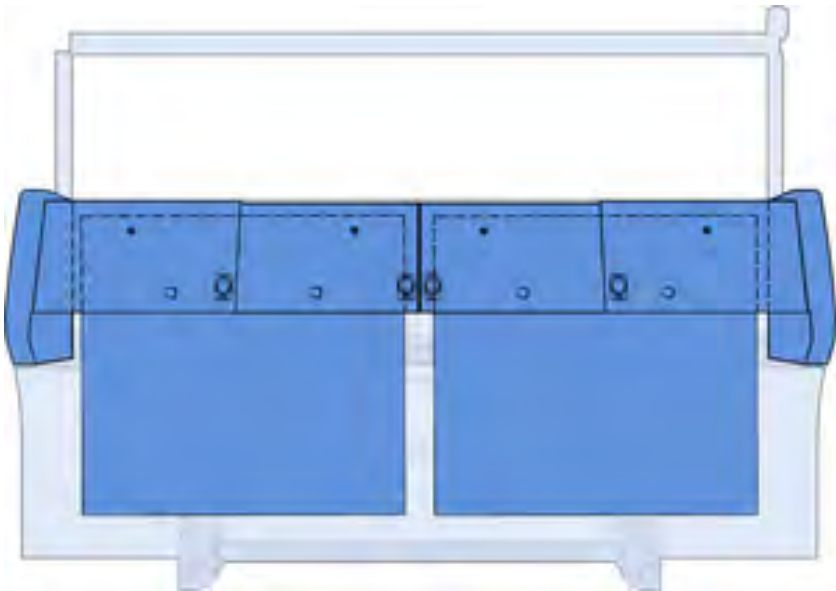
Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Measuring device				
1	Measuring bar E5-14	256 872	4	Guidance exterior	251 605
	Measuring bar E16-18	256 866	5*	Measuring head	240 562
2	Guidance	251 676	500	Countersunk screw M6x20	241 603
3	Guidance	240 672	502	Screw 60x20	243 625
	530 Set screw	230 803	503	U-washer 6	020 881



9.5 Measuring device

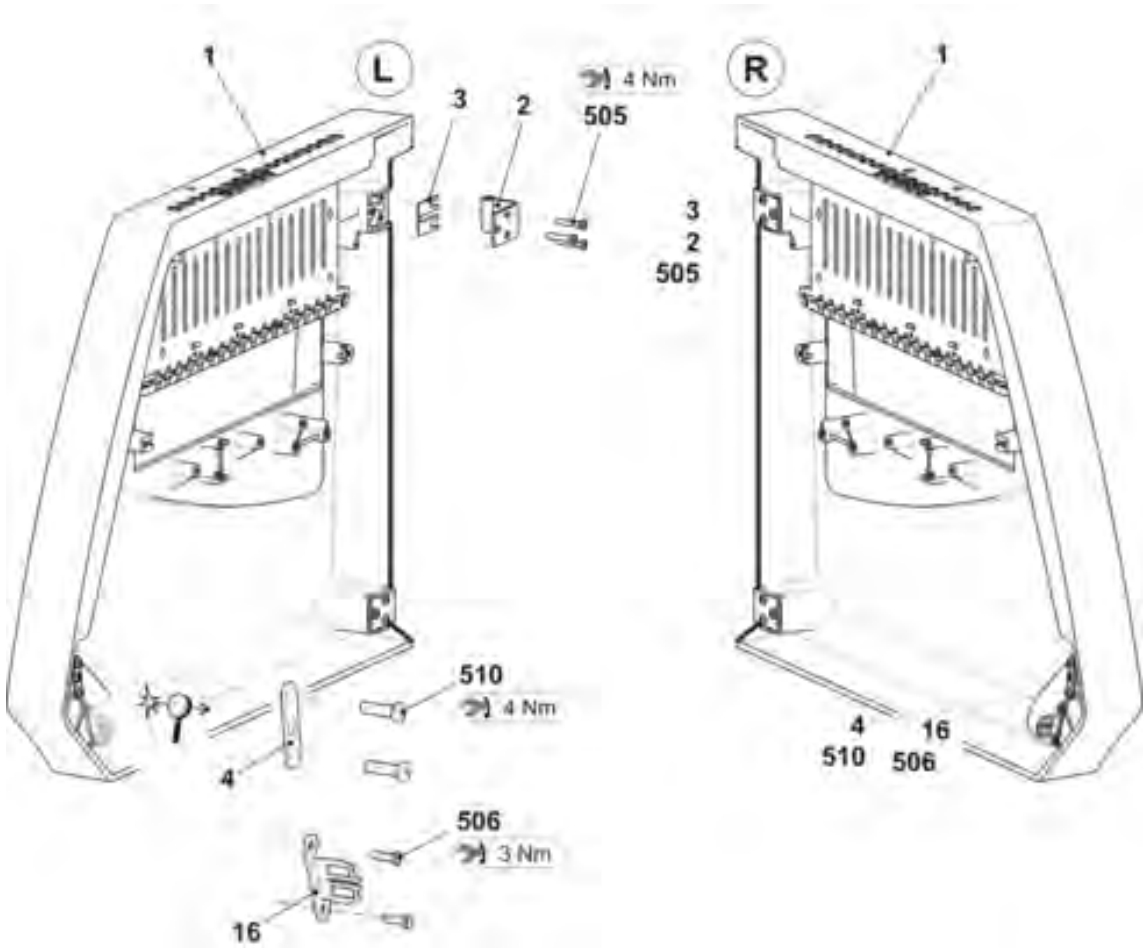
Notes:

10 Protective units



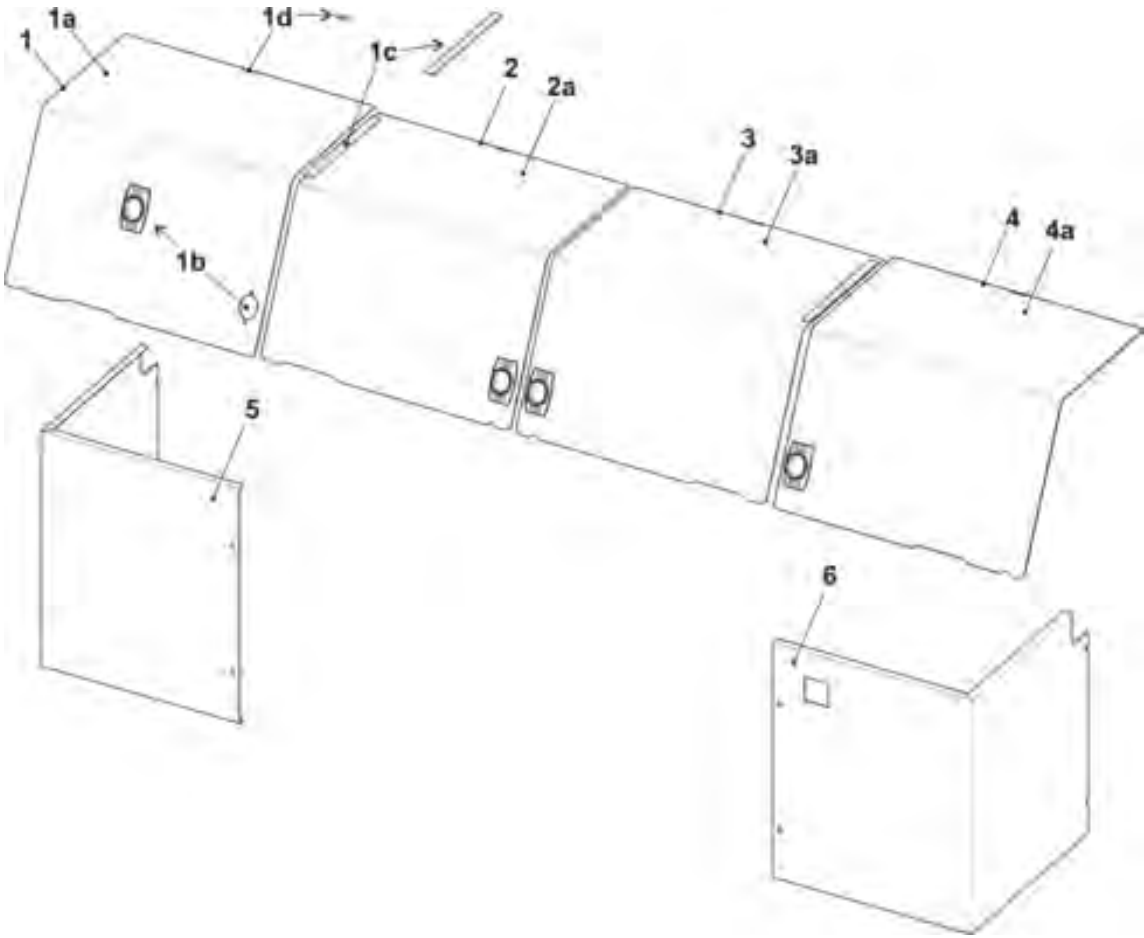
10.1 Lateral safety covers

Pos	Designation	Id		Pos	Designation	Id
Σ	Safety cover on the left			Σ	Safety cover on the right	
1	Safety cover on the left	250 562		1	Safety cover on the right	250 563
2	Hinge	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	Operator AZ 15/16	255 492		16	Operator AZ 15/16	255 492
505	Screw KB 60x30	237 683		505	Screw KB 60x30	237 683
506	Screw KB40x14	241 358		506	Screw KB40x14	241 358
510	Screw KB 60x20	237 682		510	Screw KB 60x20	237 682



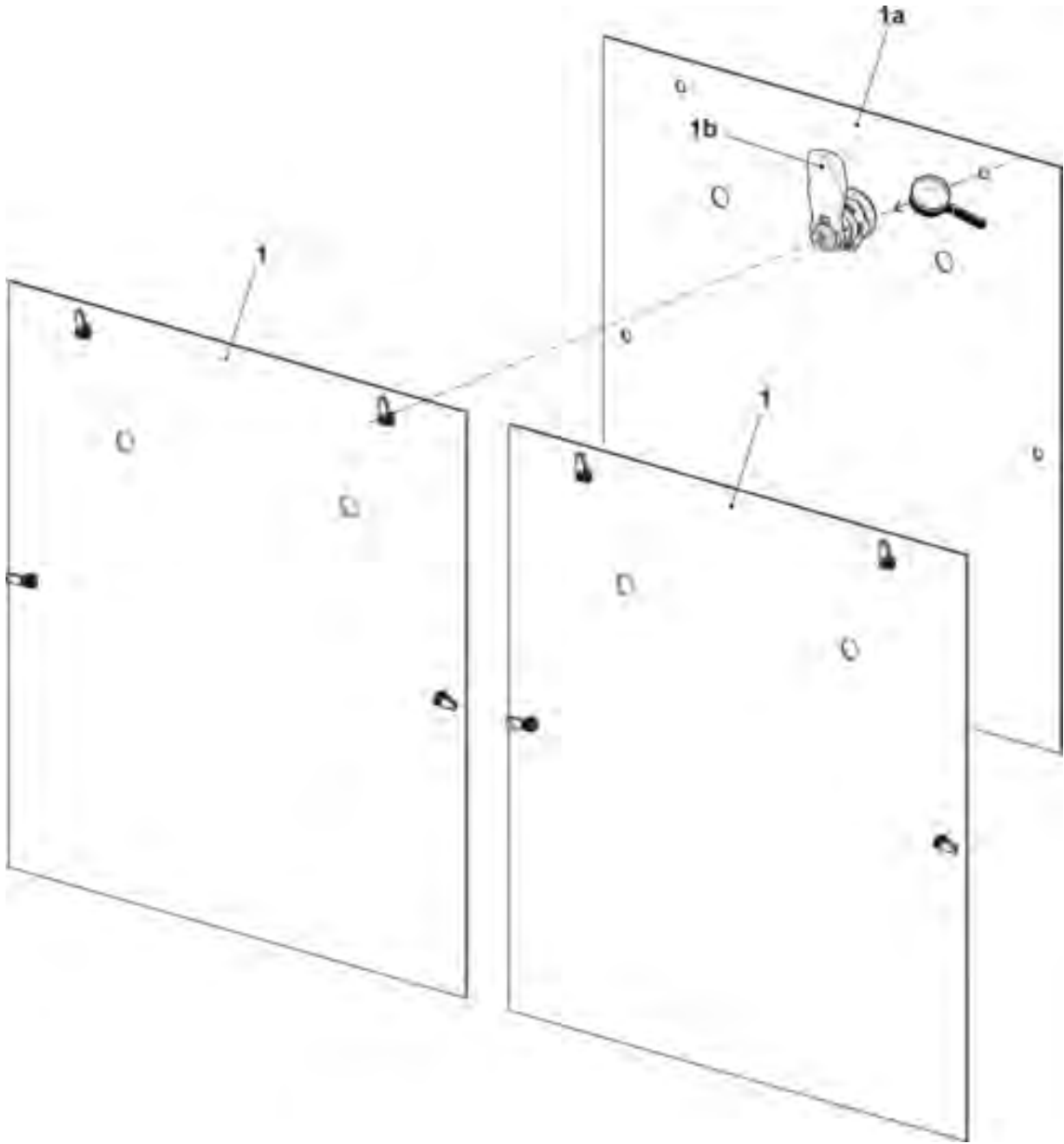
10.2 Panelling

Pos	Designation		ID No.		Pos	Designation		ID No.
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

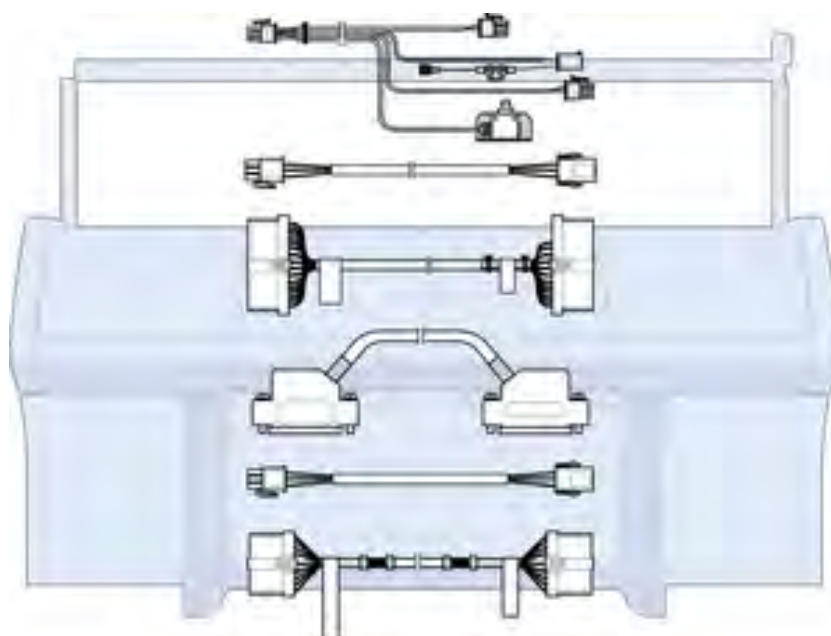


10.3 Rear panel

Pos	Designation	Ident No.		Pos	Designation	Ident No.
1	Rear panel	257 667		1a	Rear panel	257 661
				1b	Safety sash fastener complete	243 052



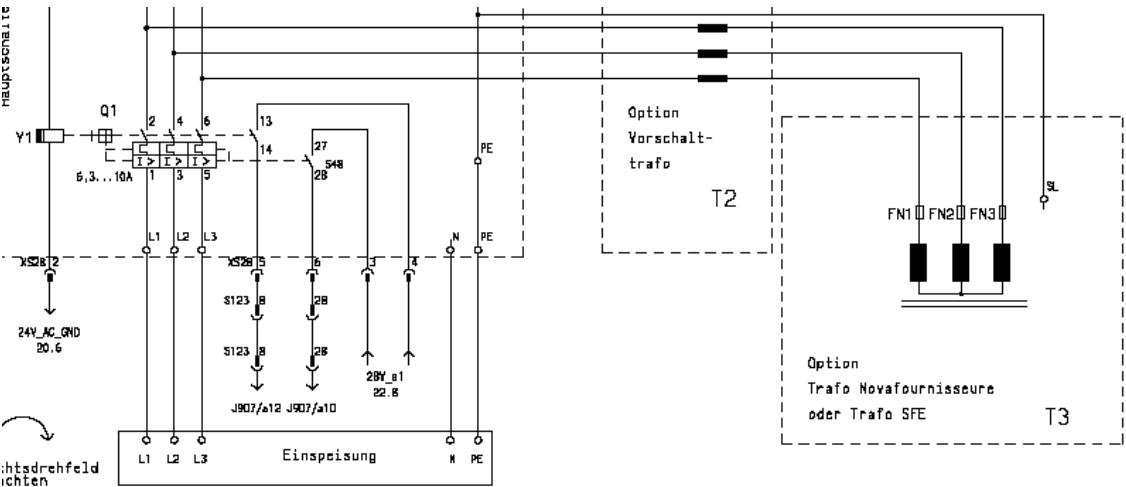
11 Electrical equipment



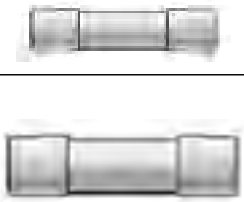
11.1 Circuit diagram (222) as PDF

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 257 157

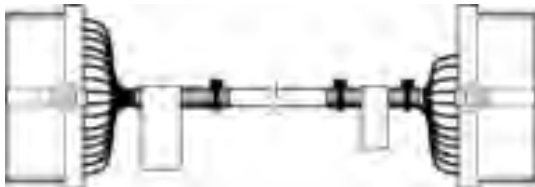


11.2 Fuses

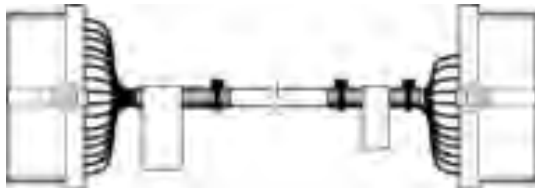
Designation		Ident No.
	Fuse 1.0A F 5x20	008 748
	Fuse 3.15A T/440V 6.3x32	025 261
	Fuse 10A T/440V 6.3x32	025 258
	Fuse 2.5A T/440V 6.3x32	217 465
	Fuse 1.6A T/440V 6.3x32	236 229
	Fuse 6.3A T/440V 6.3x32	026 809
	Fuse 8A T/440V 6.3x32	241 866
	Fuse 12.5A T/440V 6.3x32	232 367

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

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

Designation	ID No.		Designation	ID No.
Trailing cable set 420 1 IMP E2-8	253 077			
Cable carriage at the back XR332 420 ECO2	252 007		Cable impulse giver at the rear XR136	252 060
Cable carriage at the back XR333	252 008			
				
Cable yarn carrier 420 XR161 ECO2	252 059			
				

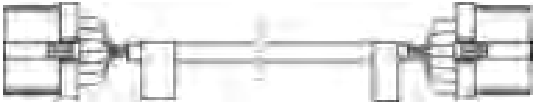
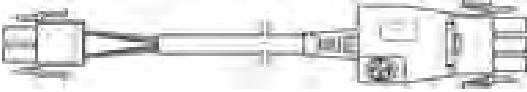
11.4 Trailing cable E12 | E14 | E16 | E18 | E6.2(12m.10)
| E7.2(14/12) | E6.2 | E7.2 | E8.2

Designation	ID No.		Designation	ID No.	
Trailing cable set 420 E10-18	252 006				
Cable carriage at the back XR332 420 ECO2	252 007		Cable impulse giver at the rear XR136	252 060	
Cable carriage at the back XR333	252 008		Cable impulse giver at the front XR137	252 061	
					
Cable yarn carrier 420 XR161 ECO2	252 059				
					

11.5 Cable set installation

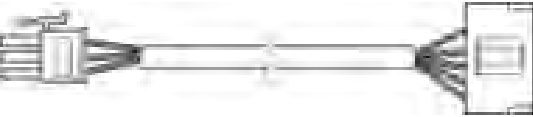
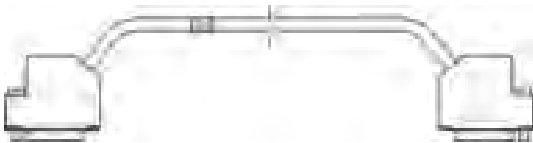
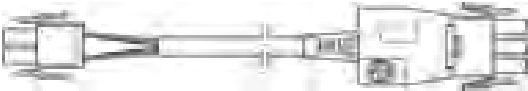
Designation			Designation		
Σ	Cable set installation	253 618			
1	Loom of cables base 2	253 619	3	Loom of cables	253 621
2	Loom of cables base 2	240 257	4	Loom of cables comb	240 259
6	Cable switch main take-down 50"	252 541	7	Cable mains supply FKE lamp	252 587
					

11.5.1 Loom of cables base 1

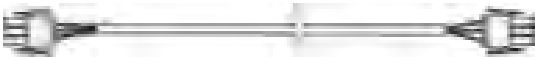
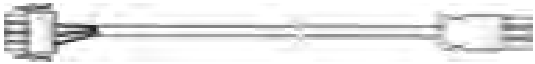
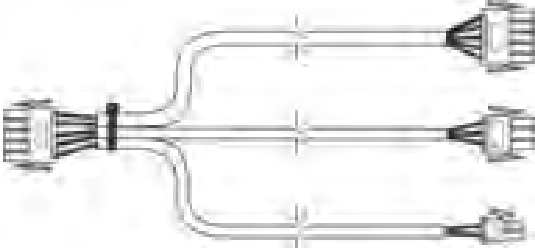
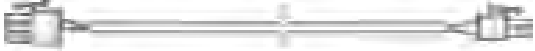
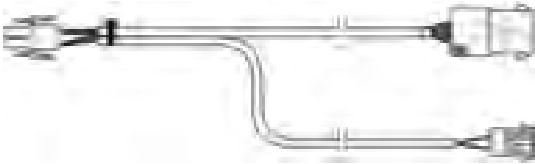
Designation		Id	Designation		Id
Σ	Loom of cables base 1 OKC	253 619			
	Cable Engaging rod	252 538		Cable protective unit on the left	253 620
					
	Cable Feed wheel on the left 50"	240 464			
					

11.5 Cable set installation

11.5.2 Loom of cables base 2

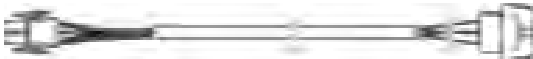
Designation		Id	Designation		Id
Σ	Loom of cables base 2	240 257			
	Cable motor HAAB	240 291		Cable resolver drive	240 296
					
	Cable limit switch racking	240 292		Cable Racking motor	240 297
					
	Cable ventilator drive	240 293		Cable resolver racking	240 298
					
	Cable Feed wheel on the right	240 294		Cable protective unit on the right	253 441
					
	Cable Drive motor	240 295			
					

11.5.3 Loom of cables 5XX

Designation		Id	Designation		Id
Σ	Loom of cables	253 621			
	Cable motor HIAB 50"	240 467		Cable power supply unit of mains supply	240 505
					
	Cable impulse giver HIAB 50"	240 468		Cable power supply lighting	236 572
					
	Cable power supply WAZ/F 50"	240 469		Cable switch auxiliary take-down	240 472
					
	Cable power supply Servo 50"	240 502		Cable power supply FLENT 50"	251 231
					

11.5 Cable set installation

11.5.4 Loom of cables comb

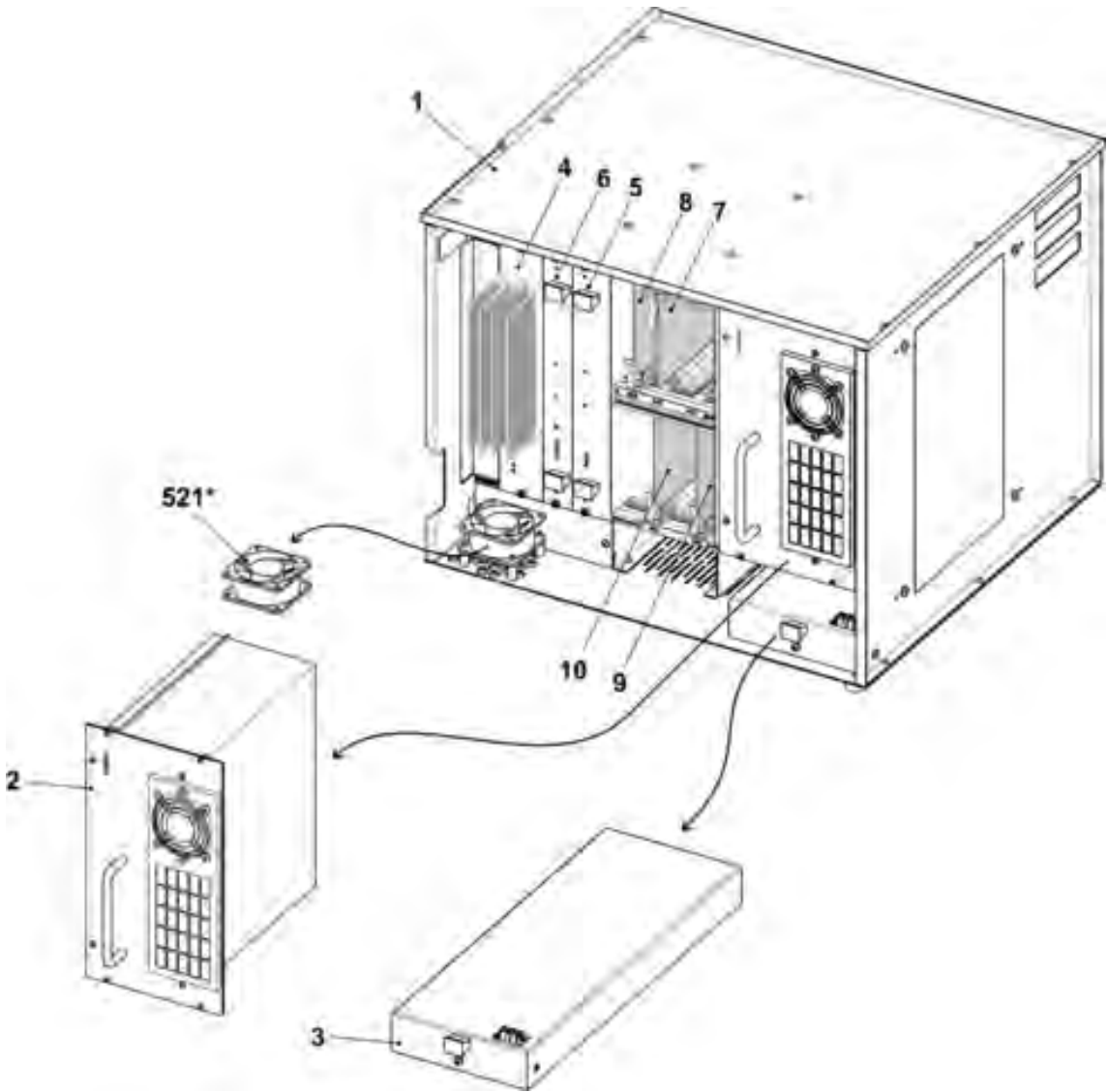
Designation		Id	Designation		Id
Σ	Loom of cables comb	240 259			
	Cable motor comb hook	240 308		Cable switch comb	240 311
					
	Cable switch KAHA	240 309		Cable switch HAAB	240 312
					
	Cable motor comb	240 310			
					

12 Control electronics



12.1 Control cabinet

Pos	Designation	Id		Pos	Designation	Id
Σ	Control unit on the right complete 520	254 852		6	Card BIO	301 007
1	Control unit without equipment	254 854		7	Card amplifier 4SM 7TE	300 943
2	Power supply unit CG54 with single channel	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	301 006		521*	Axial blower Servo 5	229 059



13 Deliverable accessories

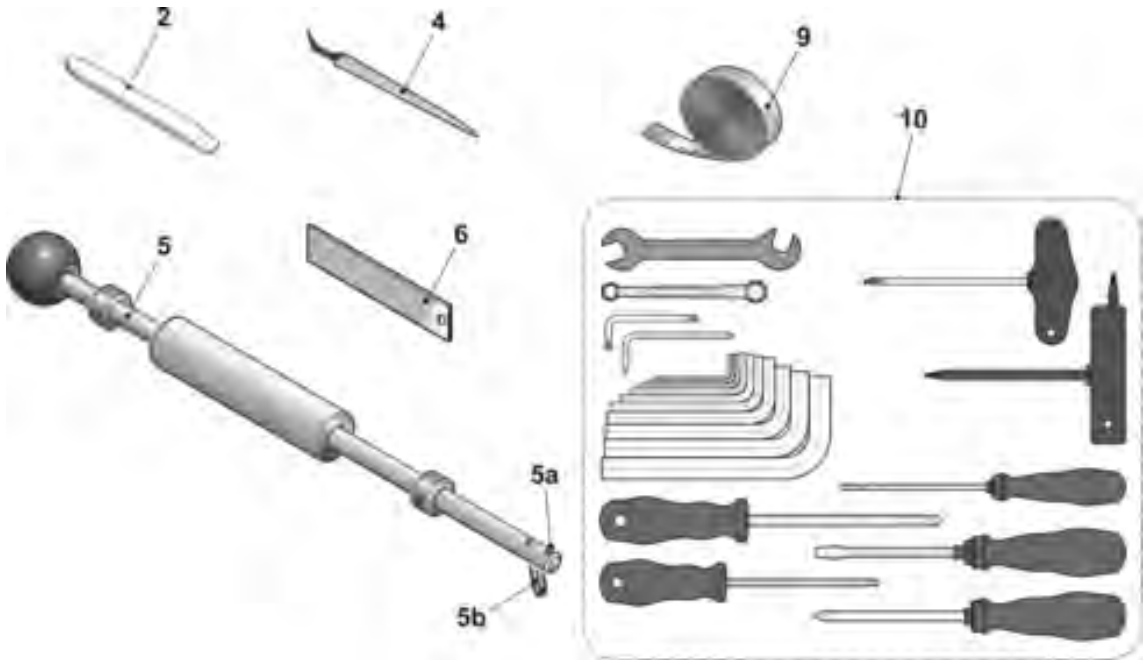


You can order the following tools, lubricants and expendables.
The following list does not correspond to the scope of delivery of the knitting machine.

13.1 Tool

13.1 Tool

Pos	Designation		ID No.	Pos	Designation		ID No.
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	Pin	232 022				



13.2 Lubricating stuff

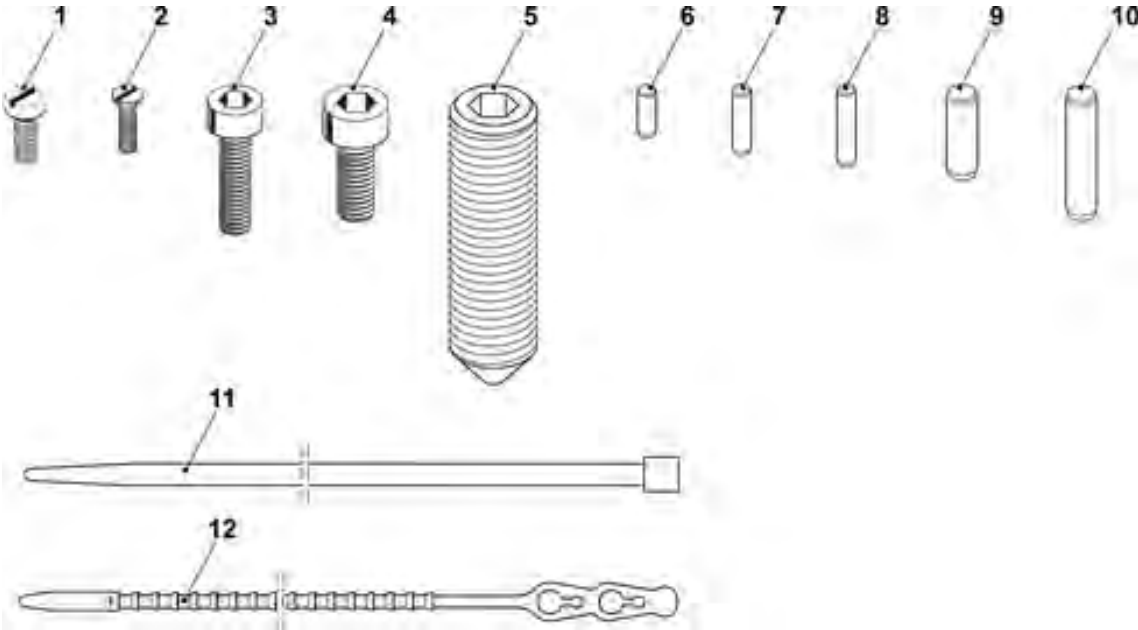
Pos	Designation	ID No.		Pos	Designation	ID No.
1	Textile machines oil T46, 1l	230 614		4	Oil combifix no. 8/10 group 10	216 732
3	Grease OKS 475, 150g	005 351		5	White grease paste OKS270	229 372



13.3 Mechanical parts

13.3 Mechanical parts

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



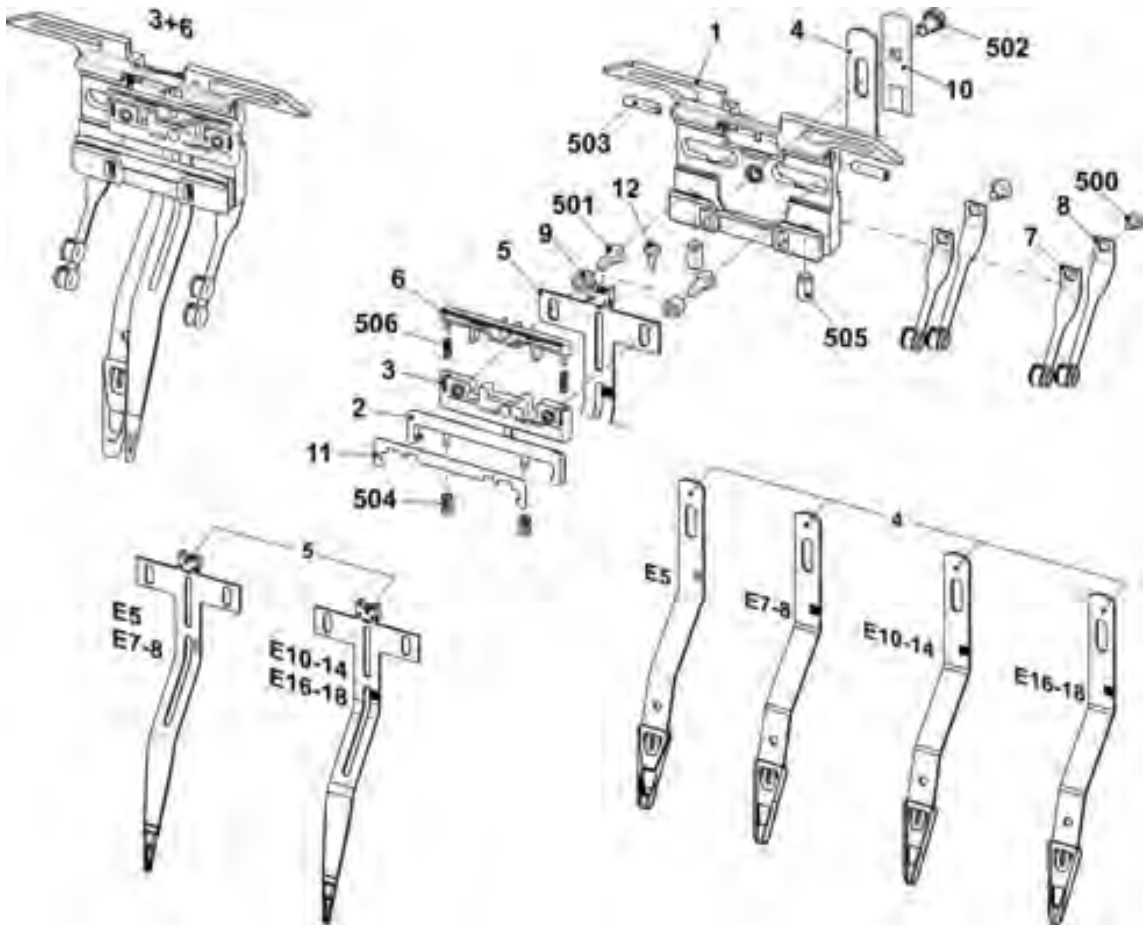
14 Special attachments



14.1 Plating yarn carrier 3+6

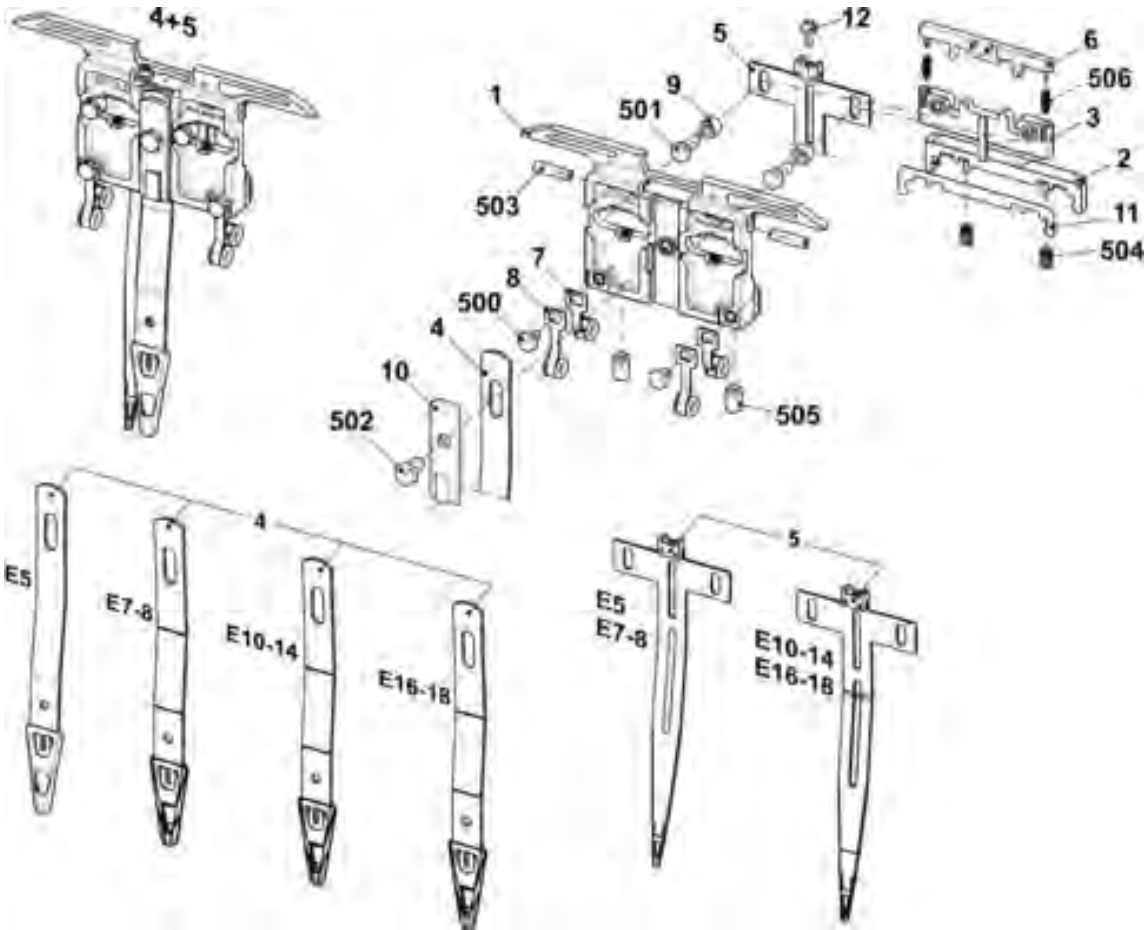
14.1 Plating yarn carrier 3+6

Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Plating yarn carrier carriage 3+6 co.				
	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	Spacer	252 796
1	Plating yarn carrier carriage	252 806	10	Shim	213 035
2	Sliding piece	212 583	11	Shim	216 143
3	Slider	252 798	12	Adjusting screw	253 436
4	Plating yarn carrier bow 3+6		500	Hexagon screw M5x10	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	Set screw 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

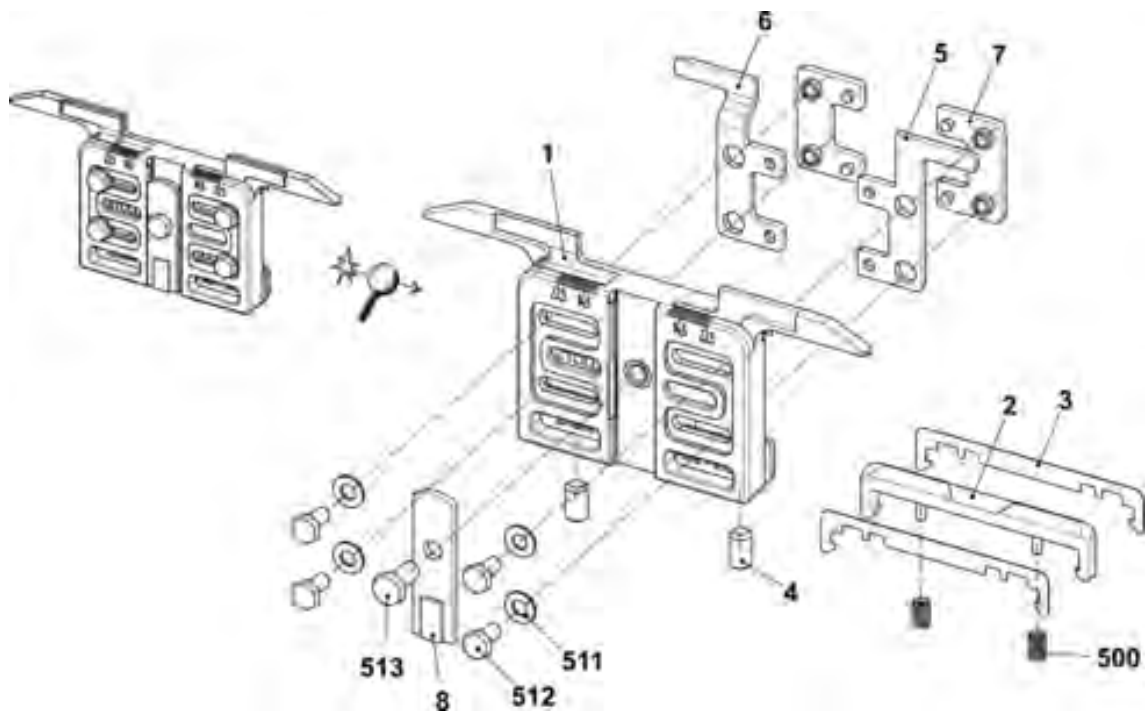
Pos	Designation	ID No.	Pos	Designation	ID No.
Σ	Plating yarn carrier carriage 4+5 complete.				
	E5 (E3,5.2+E7m.5)	252 781	7	Eyelet holder complete	252 815
	E7 (E6.2)	252 783	8	Eyelet holder complete	252 816
	E10-14 (E6.2(12m.10)+E7.2+E7.2(14/12)	252 785	9	Spacer	252 796
1	Plating yarn carrier carriage	252 806	10	Shim	213 035
2	Sliding piece	212 583	11	Shim	216 143
3	Slider	252 798	12	Adjusting screw	253 436
4	Plating yarn carrier bow 4+5		500	Hexagon screw M5x10	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	Set screw 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)

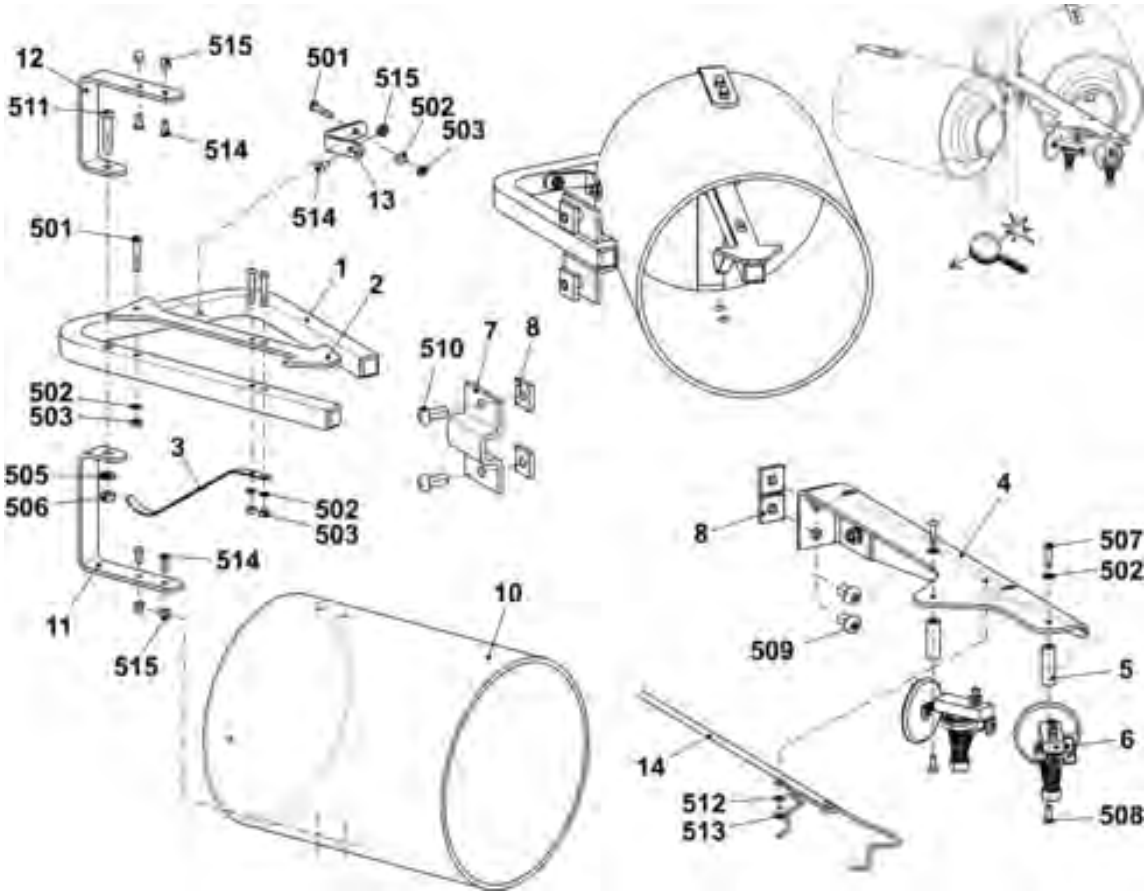
14.3 Carriage of plating yarn carrier (adjustable)

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



14.4 Bobbin holder on the right

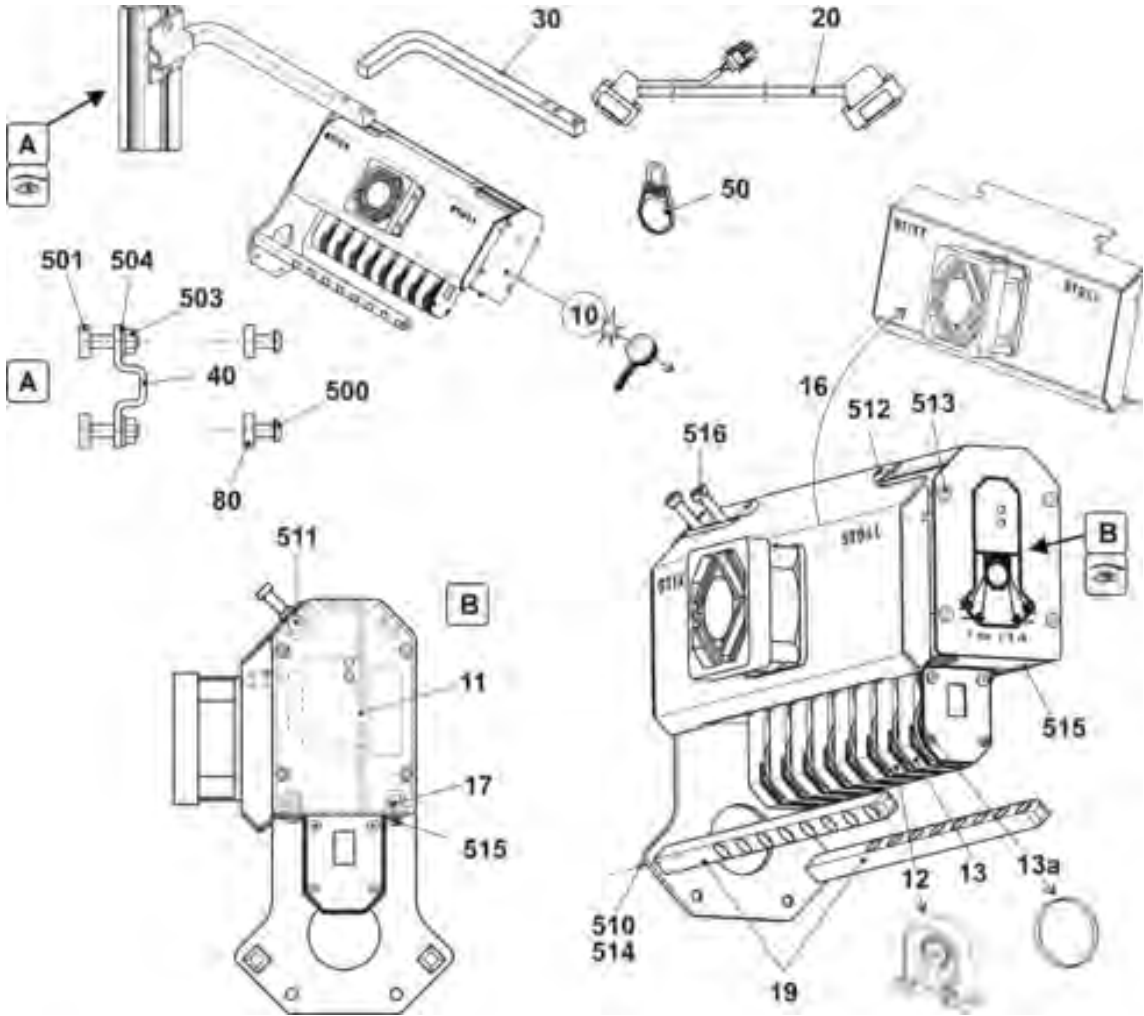
Pos	Designation	Id	Pos	Designation	Id
Σ	Bobbin holder on the right	253 966	501	Countersunk screw M4x25	023 511
1	Support	253 969	502	U-washer 4	022 481
2	Support	252 769	503	Hexagon nut M4-6	022 536
3	Leaf spring	253 350	505	U-washer 6	022 431
4	Support right	253 348	506	Hexagon nut M6-6	022 899
5	Spacer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



14.5 Yarn length measuring device

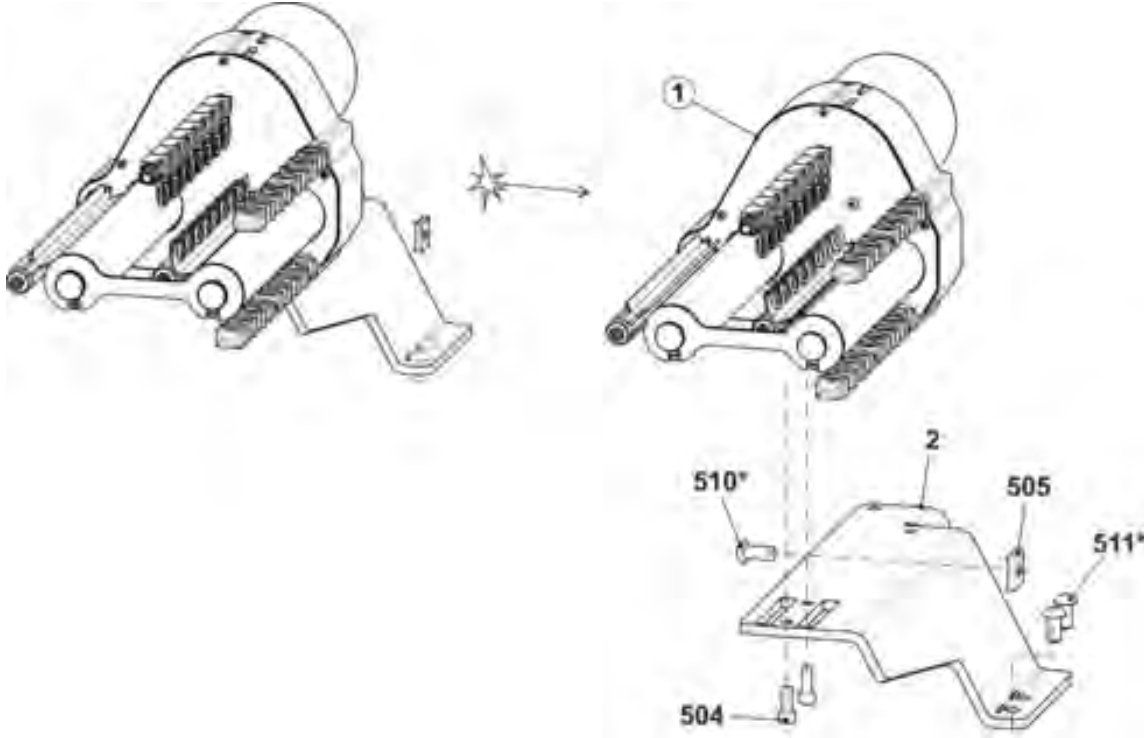
14.5 Yarn length measuring device

Pos	Designation	Id	Pos	Designation	Id
Σ	Yarn length measuring device complete	228 943	10	Yarn length measuring device 3	236 275
20	Cable length measuring device	236 718	11	Card FLM CPU	300 934
30	Support	223 029	12	Sensor	211 354
40	Clamp	228 583	13	Sensor complete	212 406
50	Adjustment weight	212 241	13a	Rubber running ring	258 582
80	Threaded strip	200 223	16	Fan complete	212 255
500	Countersunk screw M8x16	023 113	17	Threaded strip	211 801
501	Hammer head bolt M8x25	022 866	19	Yarn guide rod	211 352
503	Hexagon nut M4-6	020 838	510	Pan-head screw M5x10	023 247
504	U-washer 8,4	023 248	511	Spring nut M5	022 873
			512	Pan-head screw M5x6	023 246
			513	Sheet metal screw ST3.5x13	022 940
			514	Spring washer A5	022 454
			515	Oval head screw with washer M3x10	023 380
			516	Cap screw M5X22	023 193



14.6 Friction feed wheel on the left

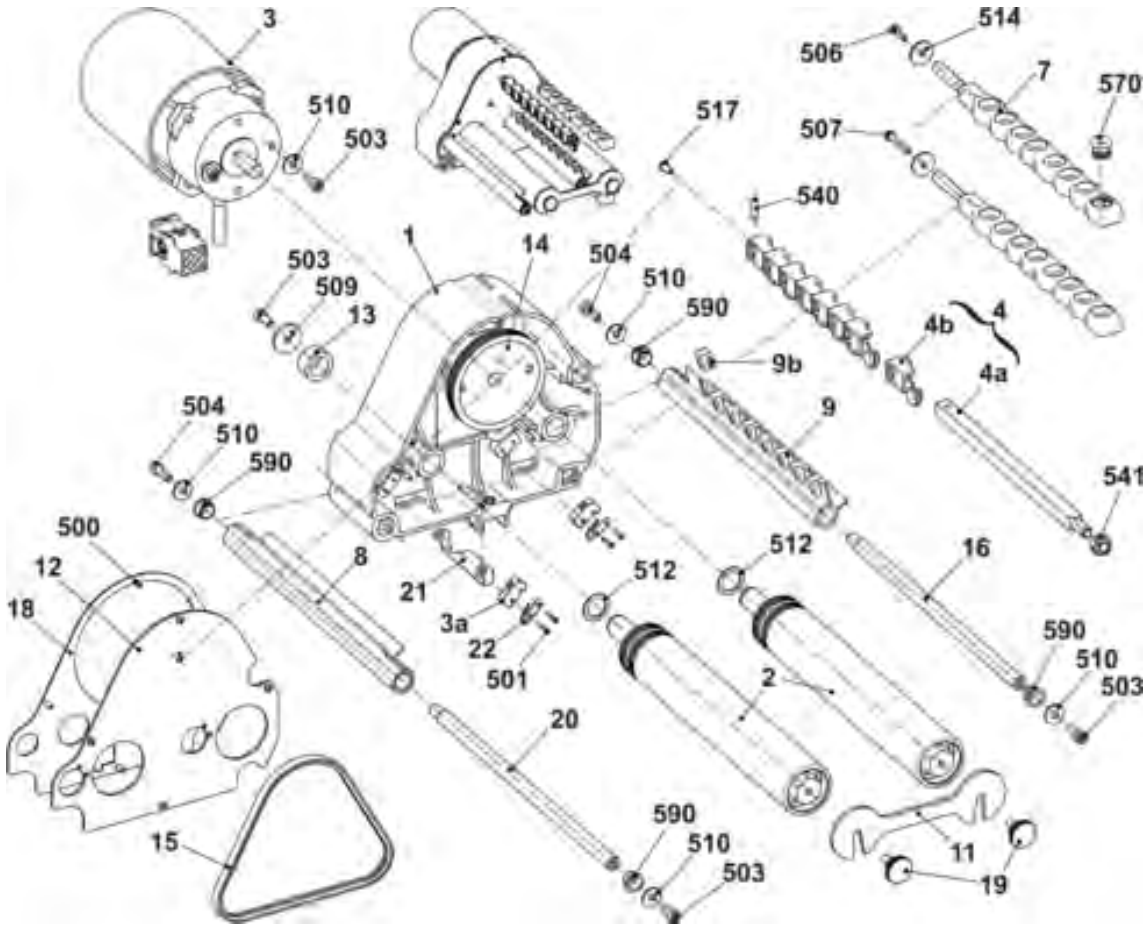
Pos	Designation	Id		Pos	Designation	Id
ΣL	Friction feed wheel on the left complete	243 573				
1	Friction feed wheel on the left	243 571		505	Sliding block	228 851
2	Support of left feed wheel	250 966		510*	Countersunk screw M8x18	251 331
504	Cap screw M6x16	020 135		511*	Countersunk screw M8x16	023 113



14.6 Friction feed wheel on the left

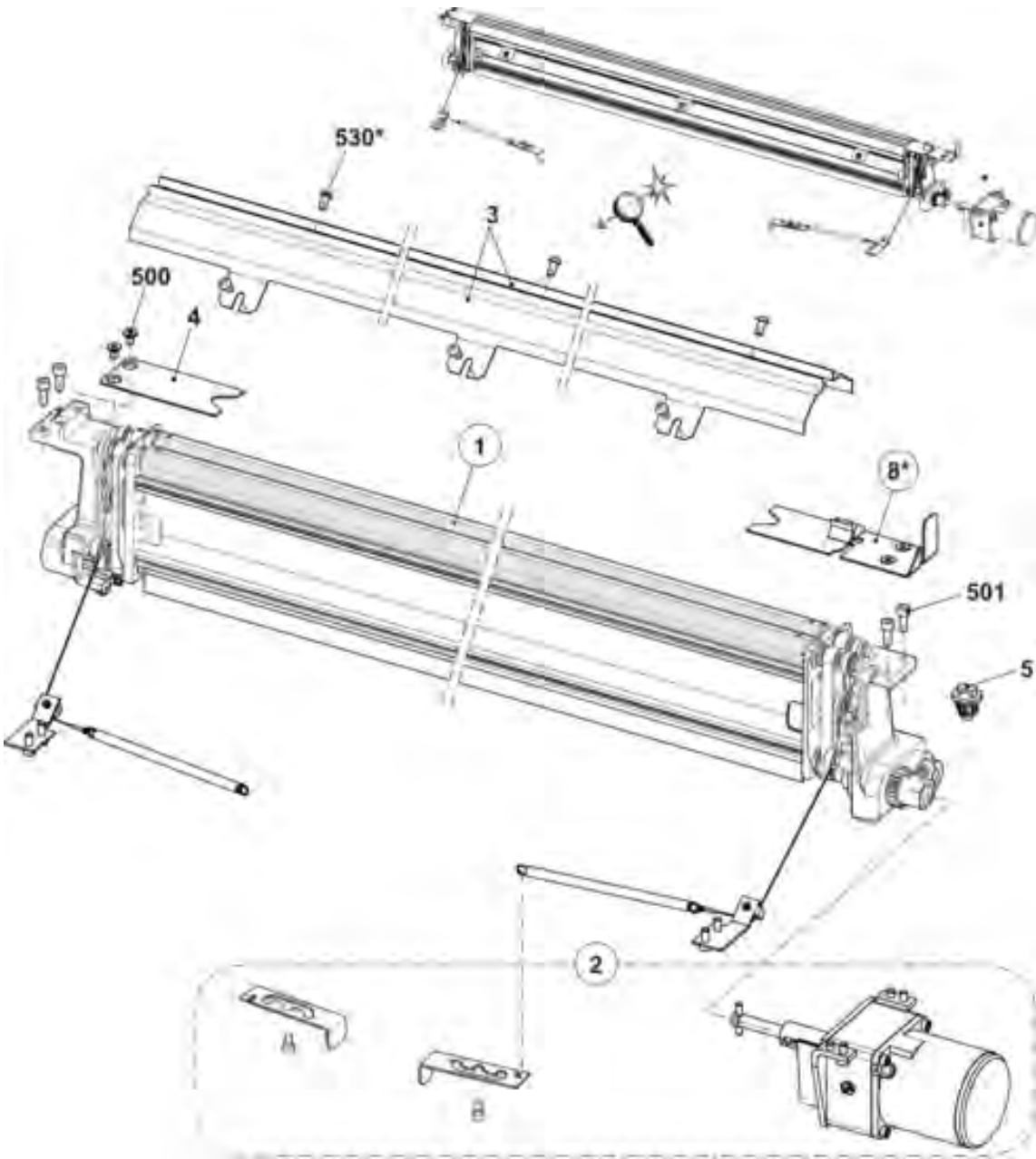
14.6.1 Left friction feed wheel

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



14.7 Additional take-down, Retrofit kit

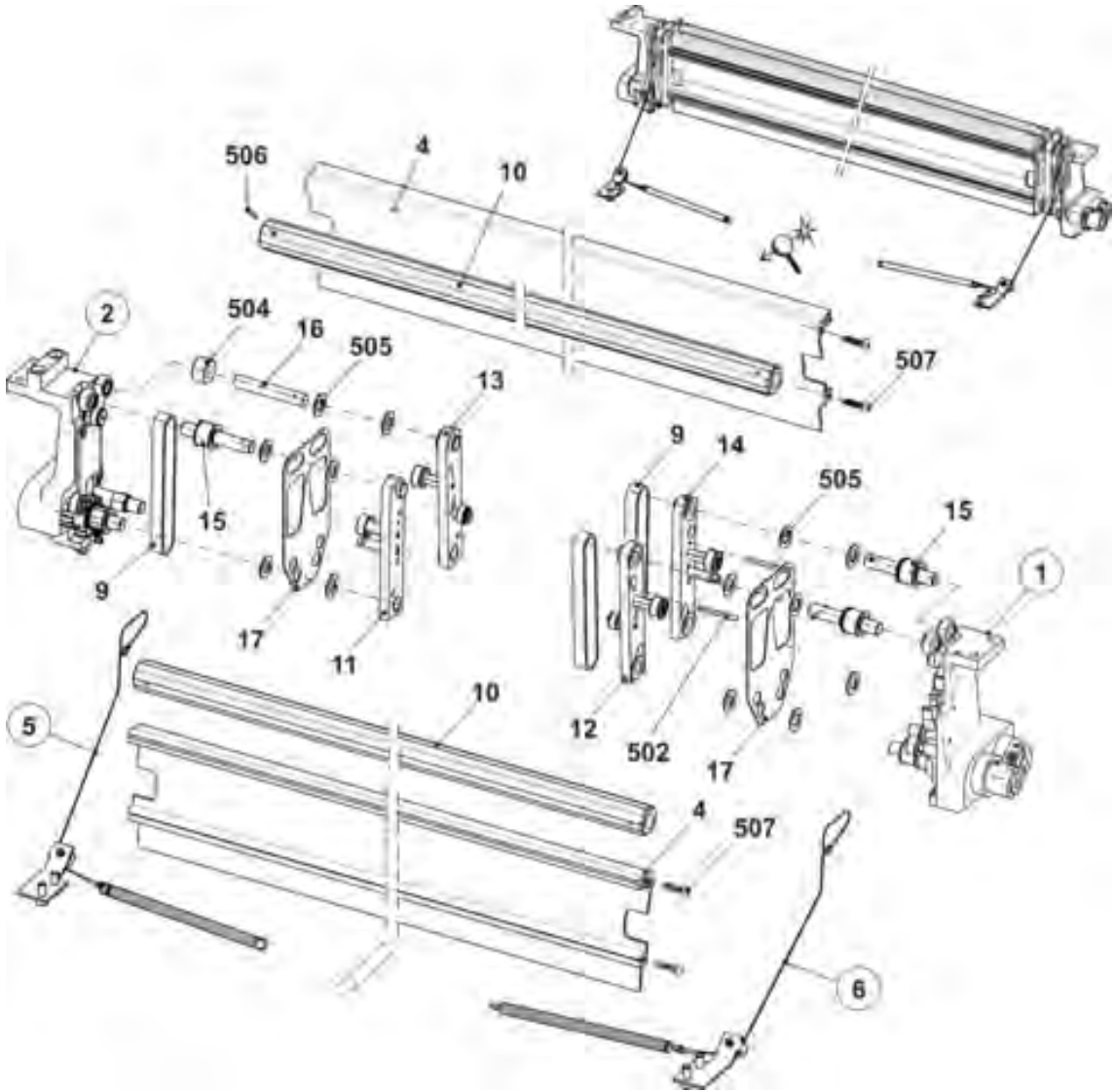
Pos	Designation	Id		Pos	Designation	Id
Σ	Additional take-down complete, Retrofit kit	257 032		5	Assembling element	209 543
1	Auxiliary take-down pre-assembled	257 008		8*	Yarn brake on the right	240 021
2	Auxiliary take-down in the middle	254 062		500	Countersunk screw M6x10	023 016
3	Guide plate	256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



14.7 Additional take-down, Retrofit kit

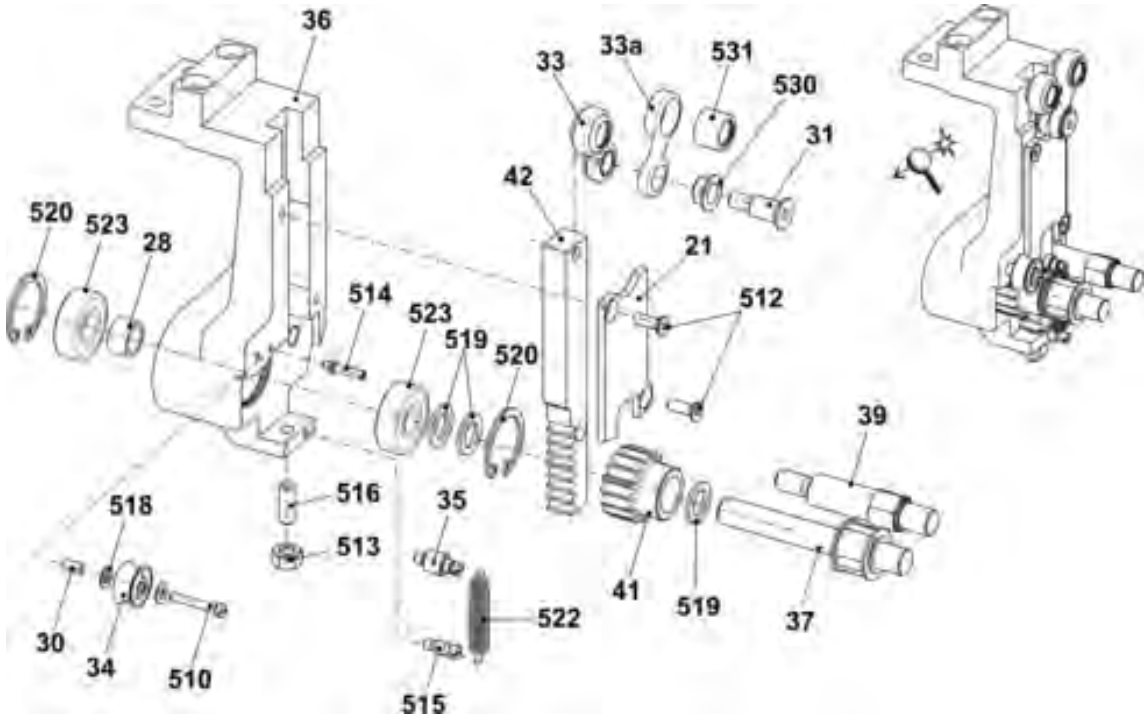
14.7.1 Auxiliary take-down pre-assembled

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 disk complete	226 708
4	Guiding 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 belt 10T5/260	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



14.7.1.1 Left bearing of the auxiliary take-down

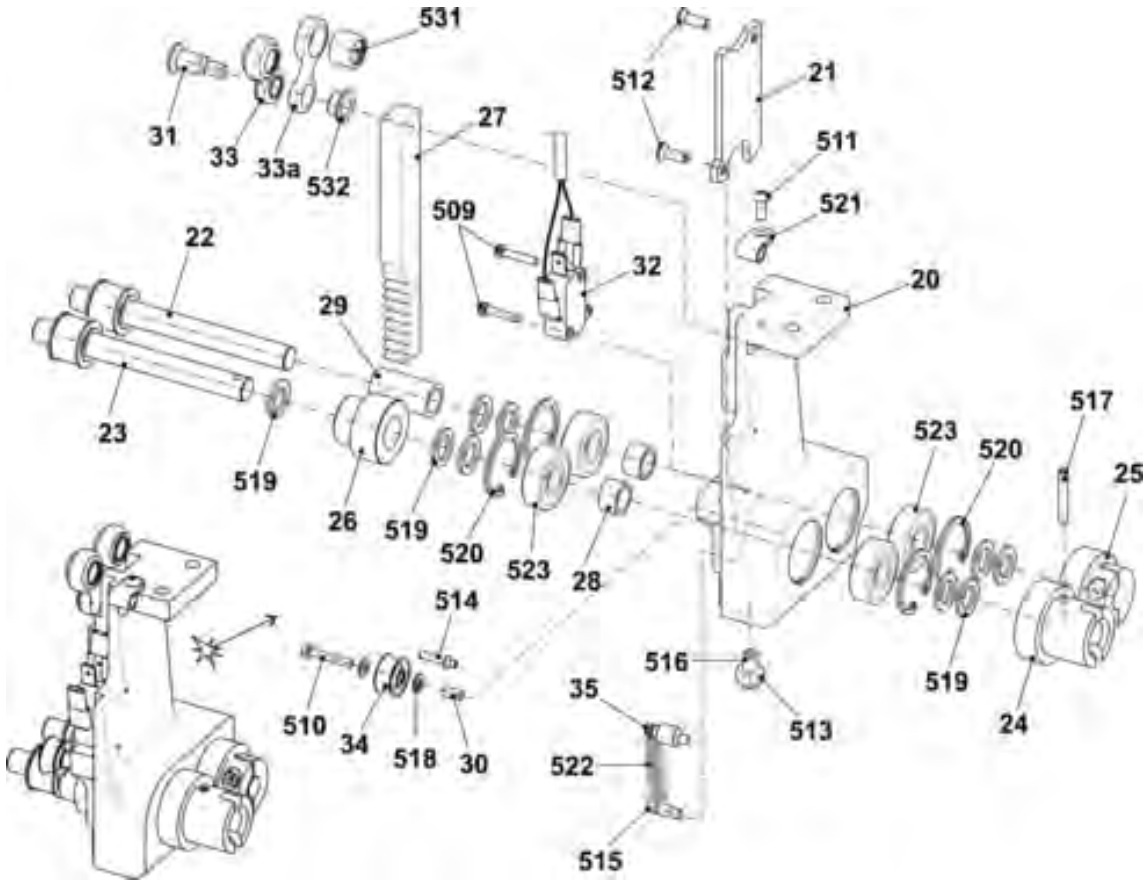
Pos	Designation	Id	Pos	Designation	Id
Σ	Bearing on the left				
21	Cover	224 881	41	Gear wheel on the left complete	218 523
28	Spacer	229 683	42	Gear rack on the left	239 216
30	Sleeve	239 997	510	Cap screw M3x20	022 448
31	Collar bolt	210 551	512	Countersunk head screw M4x12	023 062
33	Connecting rod complete		513	Hexagon nut M6-6	020 836
	33a	Connecting rod	514	Threaded bolt with shoulder	243 226
	530	Slide bearing GFM-081014-06	515	Shoulder screw M4x9x14	020 602
	531	Needle roller bearing HK1010	516	Set screw M6x16-45	023 092
34	Roller deflector	218 805	518	Adjusting washer 4x8x0.5	023 384
35	Shoulder screw	239 215	519	Adjusting washer 10x16x1.5	023 261
36	Bearing block on the left	240 001	520	Locking ring 26x1.2	023 359
37	Drive shaft complete	227 887	522	Tension spring 7.5x0.7x28	023 595
39	Bolt	226 705	523	Grooved ball bearing 6000-2	022 599



14.7 Additional take-down, Retrofit kit

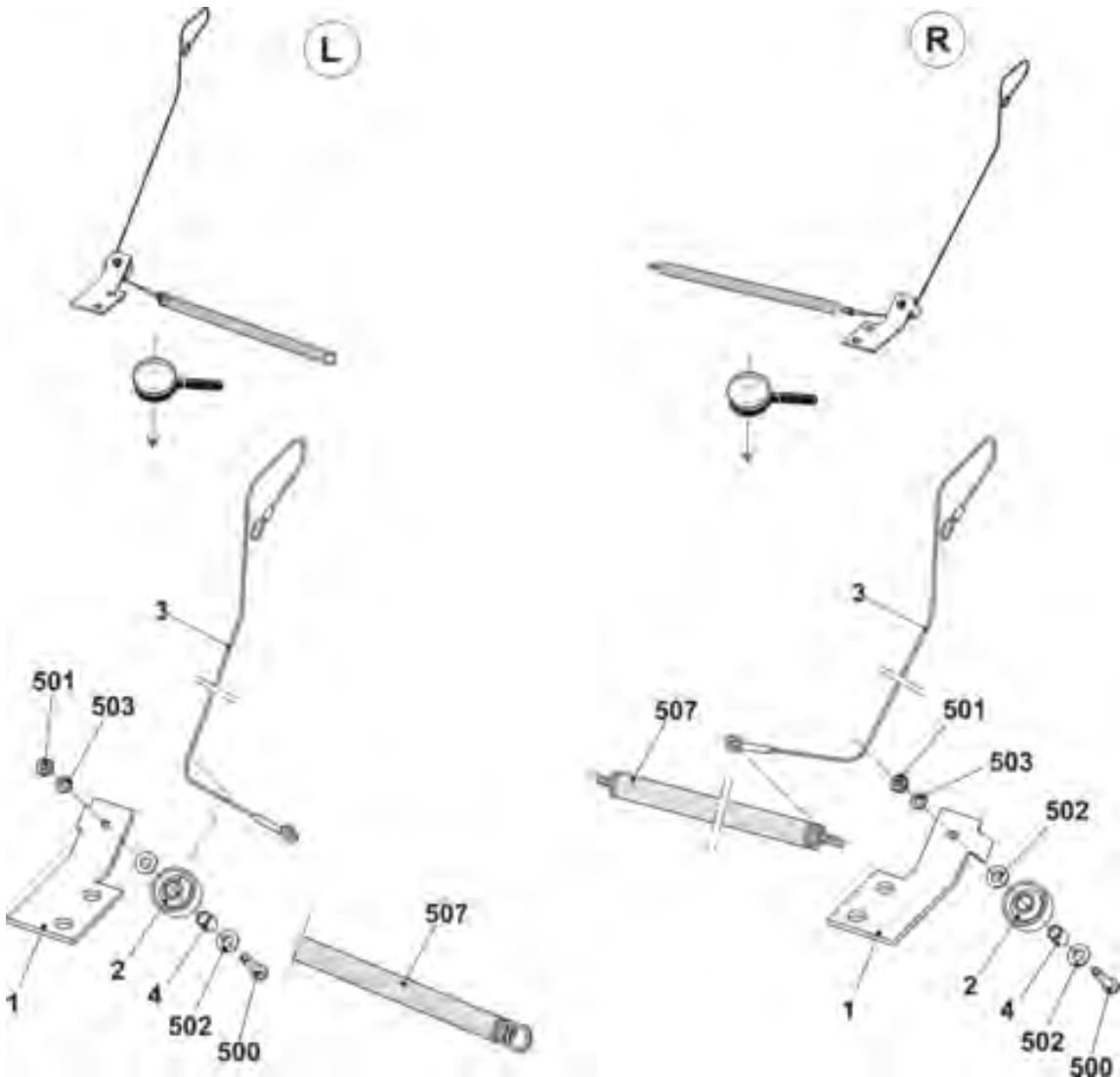
14.7.1.2 Right bearing of the auxiliary take-down

Pos	Designation	Id	Pos	Designation	Id
Σ	Bearing on the right complete				
20	Bearing block on the right	239 967	34	Roller deflector	218 805
21	Cover	224 881	35	Shoulder screw	239 215
22	Drive shaft complete	227 857	500	Shoulder screw M3x16	022 560
23	Drive shaft complete	227 853	510	Cap screw M3x20	022 448
24	Gear wheel M=1.5, Z=20	213 880	511	Countersunk screw M4x10	023 450
25	Gear wheel M=1.5, Z=20	210 504	512	Countersunk head screw M4x12	023 062
26	Gear wheel on the right complete	218 524	513	Hexagon nut M6-6	020 836
27	Gear rack on the right	239 218	514	Threaded bolt with shoulder	243 226
28	Spacer	229 683	515	Shoulder screw M4x9x14	020 602
29	Sleeve	227 257	516	Set screw M6x16-45	023 092
30	Sleeve	239 997	517	Spiral pin 4x24	023 544
31	Collar bolt	210 551	518	Adjusting washer 4x8x0.5	023 384
32	Cable with switch auxiliary take-down	243 142	519	Adjusting washer 10x16x1.5	023 261
33	Connecting rod complete	226 710	520	Locking ring 26x1.2	023 359
	33a Connecting rod	226 696	521	Cable clip 225/5.2	008 335
	531 Needle roller bearing HK1010	023 664	522	Tension spring 7.5x0.7x28	023 595
	532 Slide bearing GFM-081014-06	023 358	523	Grooved ball bearing 6000-2	022 599



14.7.1.3 Angular sheet metal on the left and right complete

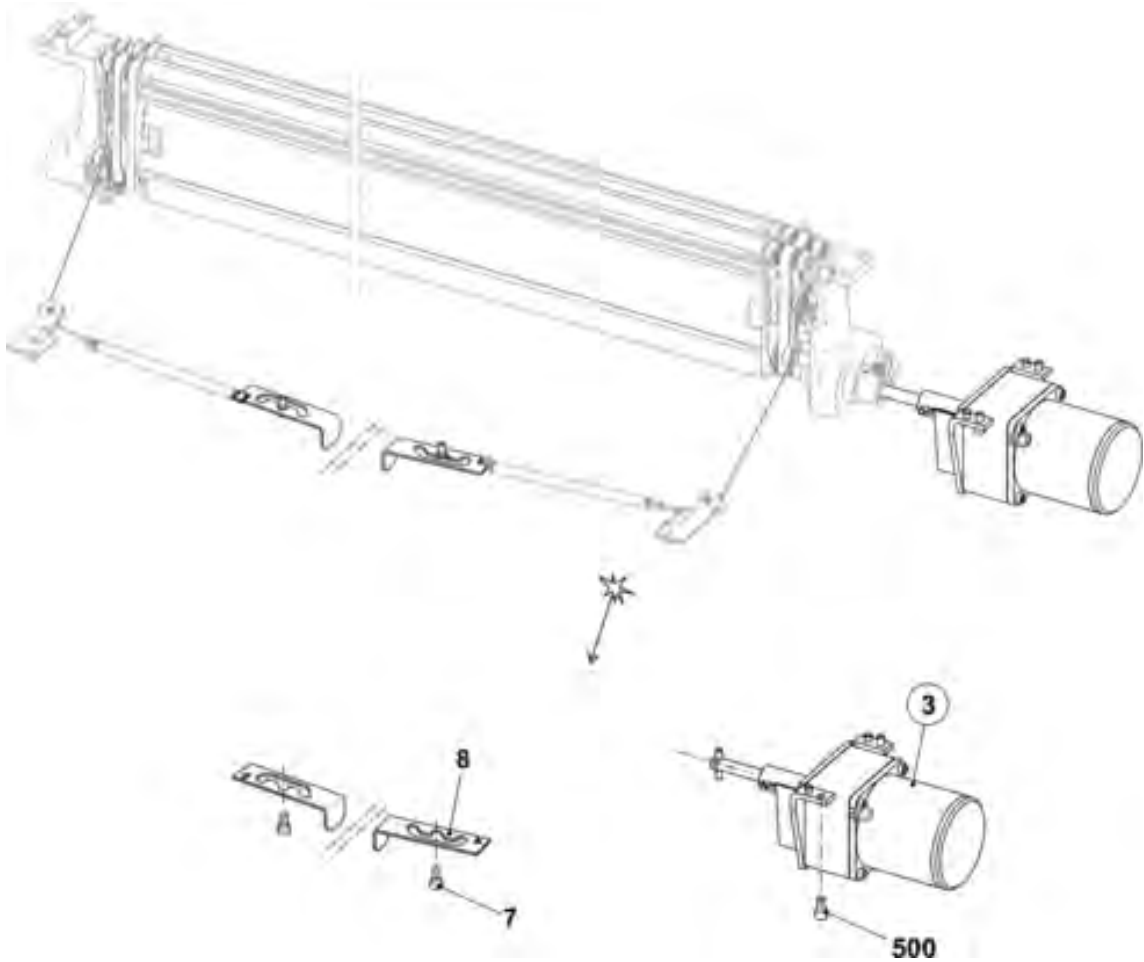
Pos	Designation	Id		Pos	Designation	Id
Σ L	Angular sheet metal on the left complete	225 013		Σ R	Angular sheet metal on the right complete	225 014
1	Angular sheet metal on the left	224 920		1	Angular sheet metal on the right	224 931
2	Roller deflector	218 805		2	Roller deflector	218 805
3	Fine rope	224 977		3	Fine rope	224 977
4	Sleeve	227 867		4	Sleeve	227 867
500	Shoulder screw M3x16	022 560		500	Shoulder screw M3x16	022 560
501	Hexagon nut M3-6	022 564		501	Hexagon nut M3-6	022 564
502	Adjusting washer 4x8x0.5	023 384		502	Adjusting washer 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



14.7 Additional take-down, Retrofit kit

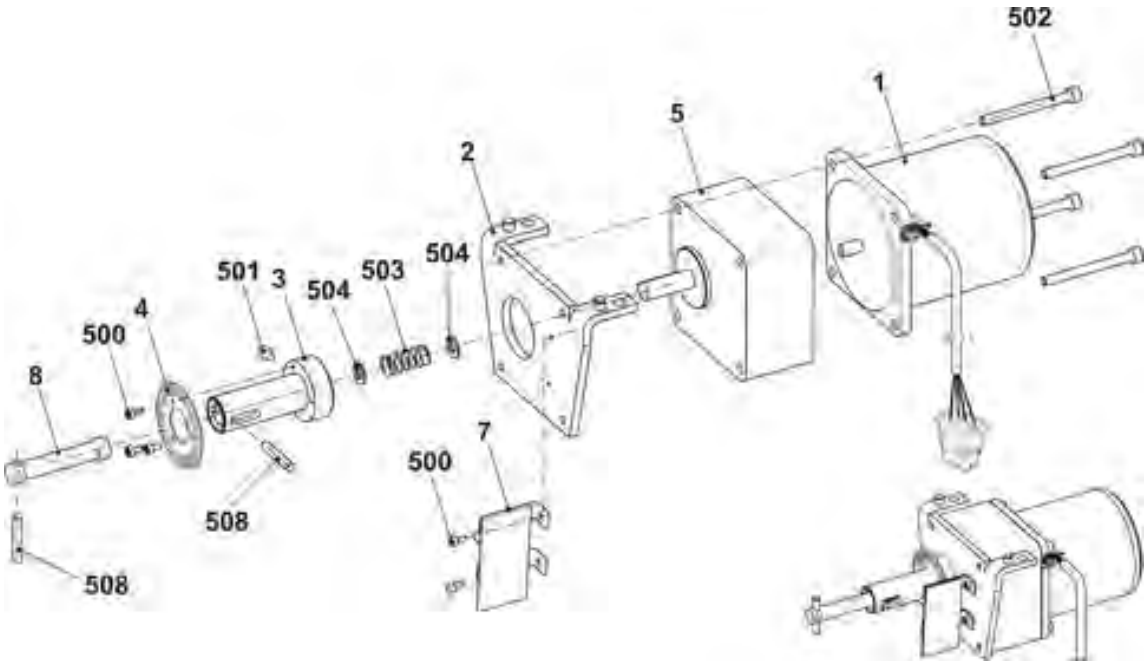
14.7.2 Take-down in the middle

Pos	Designation	Id		Pos	Designation	Id
Σ	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 screw M6x12	020 134



14.7.2.1 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 screw M3x6	022 589
2	Motor bracket	218 040		501	Set screw M6x10	023 543
3	Drive sleeve	219 024		502	Cap screw M5x55	023 321
4	Impulse disc	218 449		503	Compression spring 0.63x10.97x40	023 500
5	Gear 4GN36K	220 353		504	Adjusting washer 6x12x1	023 444
7	Photoelectric sensor Auxiliary take-down	217 462		508	Dowel pin 5x28	241 686



14.7 Additional take-down, Retrofit kit

14.7.3 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 screw M4x8	022 501
2	Clamping piece	232 165		510*	Countersunk screw M6x10	023 046

