



# Spare-parts catalog

CMS 520C (Type 629)

Component type 001

E3|E3,5|E4



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# 1 Introduction

## Imprint

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## Notes for the order

This catalog serves to order spare parts.

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

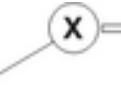
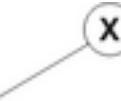
When ordering spare parts we imperatively ask for the following indications as otherwise a delivery of spare parts is not possible:

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

Only genuine STOLL spare parts may be used for repairs.

## 1.1 Search help

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

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

## 1.2 Torques

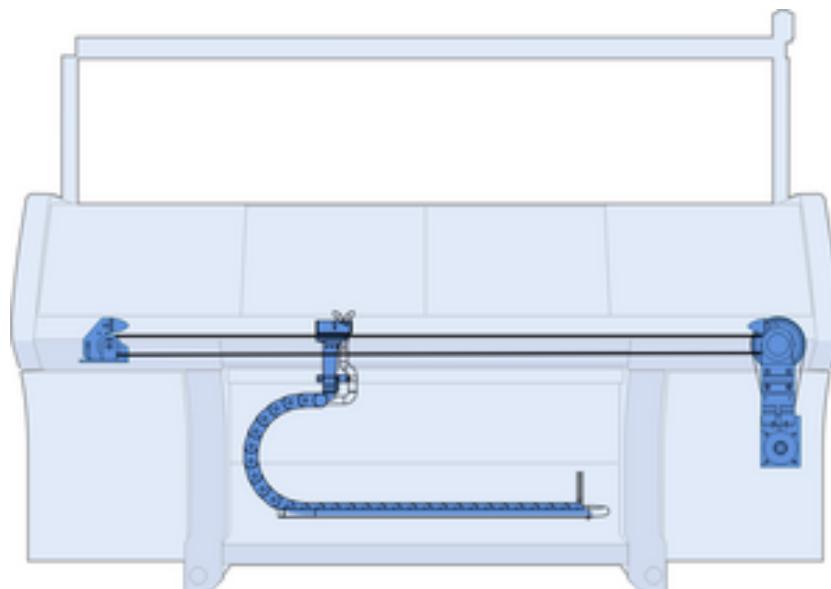
Drehmomente Torques Couples Coppias Momentos de rotación		Festigkeitsklassen Property class Classes de résistance Classi di resistenza Clasas de resistencia		
[Nm] ± 10 % (für $\mu_{ges} = 0,12$ )		4,8	8,8	12,9
Regelgewinde Coarse-pitch thread Filetage à pas gros Filetto regolatore Filete regolador	M3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

Preferential row of screw torques

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

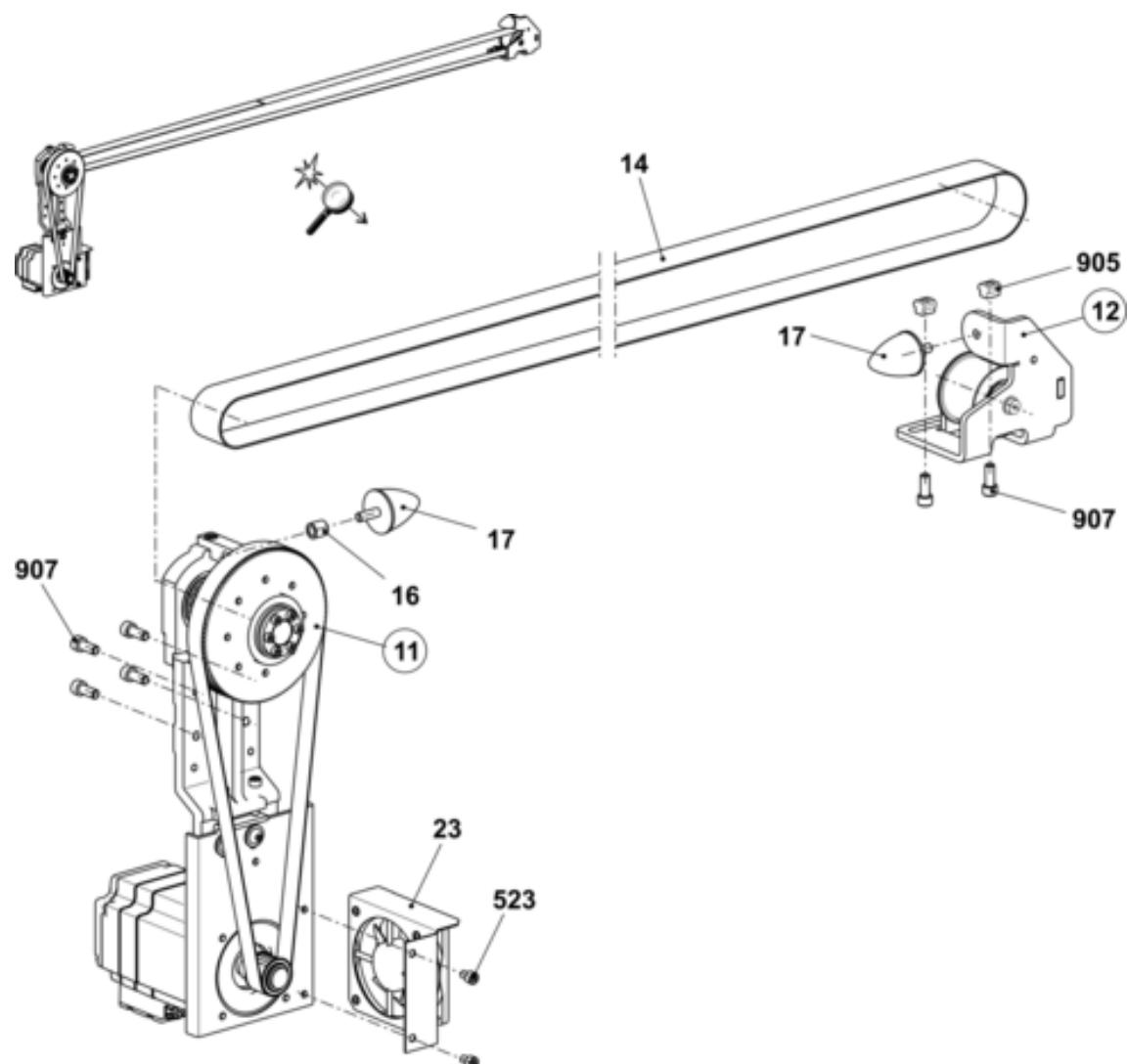
Notes:

## 2 Carriage drive



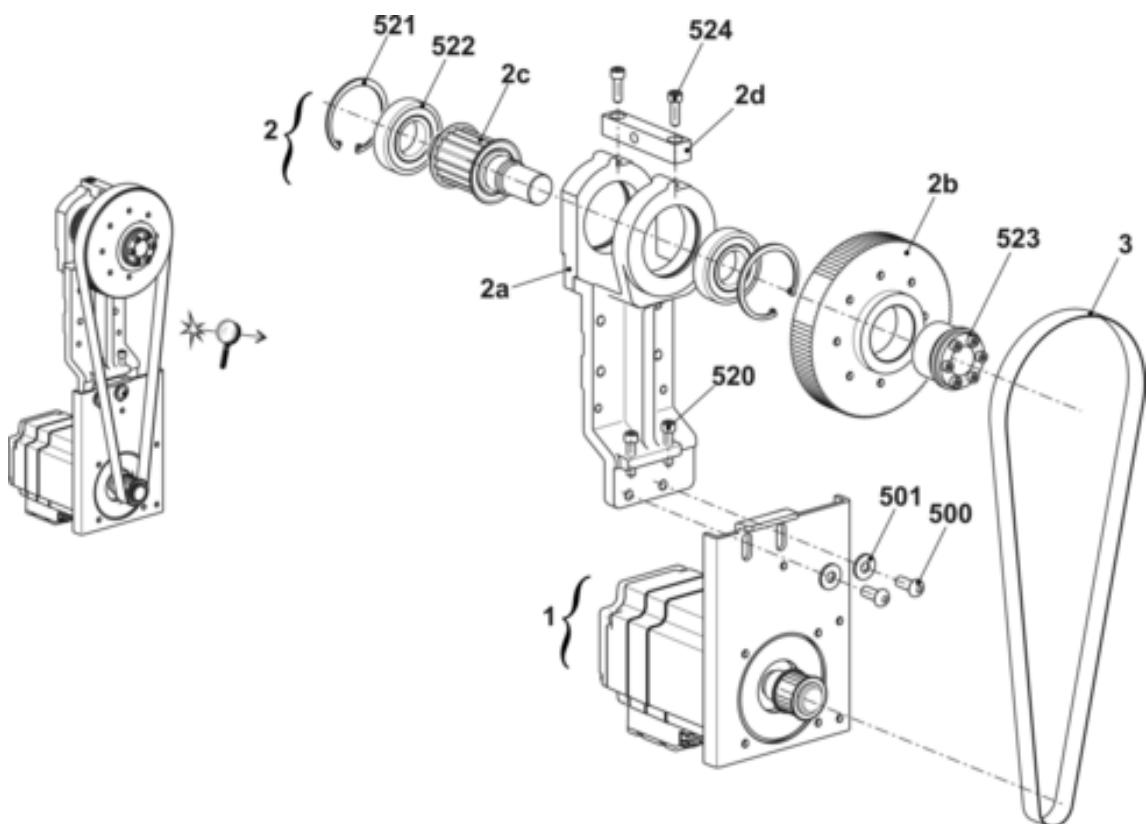
## 2.1 Drive

Pos	Designation	Id		Pos	Designation	Id
$\Sigma$	Drive unit			17	Parabolic spring	200 661
11	Drive unit complete	253 877		23	Fan complete	253 692
12	Tension bearing complete	251 581		523	Cap screw M8x12	023 138
14	Toothed belt50AT10/4670	253 890		905	NutM10x12	023 471
16	Spacer pipe	222 099		907	Cap screw M10x25	020 157



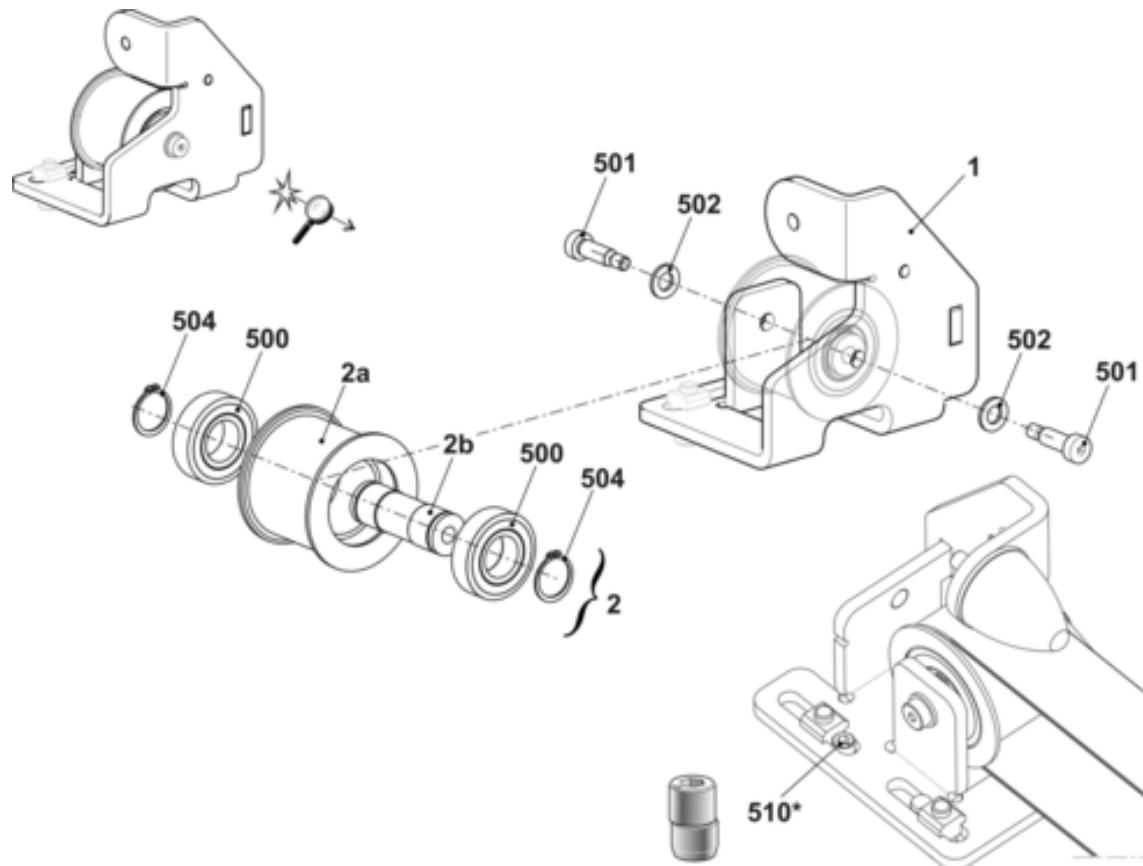
## 2.1.1 Motor and belt drive

Pos	Designation	Id		Pos	Designation	Id
<b>Σ</b>	Drive unit complete	253 877				
1	Drive unit	258 188		521	Locking ring 68x2.5	022 914
2	Drive bearing complete	255 005		522	Grooved ball bearing 6207-2RS	022 915
2a	Drive bearing	252 634		523	Tension set 30X55	023 208
2b	Toothed belt pulley	240 616		524	Cap screw M8X25 12.9	020 142
2c	Pinion 57 AT10 18	242 039		3	Toothed belt	252 594
2d	Support of buffer	222 100		500	Pan-head screw M10X25	023 684
520	Cap screw M8X35	020 144		501	Disk 10,5X25X2,5	022 178



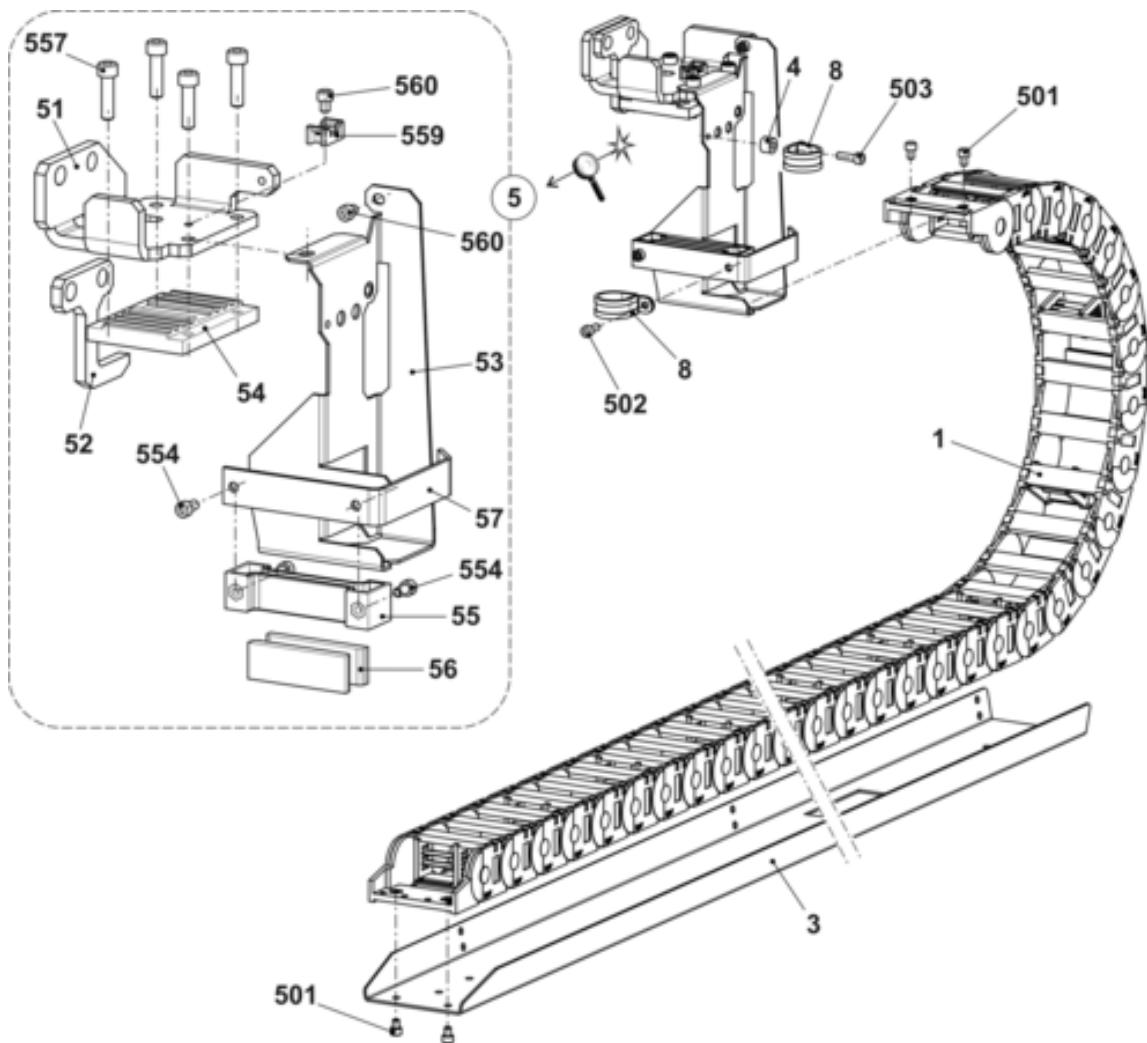
### 2.1.2 Tension bearing

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Tension bearing complete	251 581		2	500	Grooved ball bearing 625-6305-2RS
1	Tension bearing	251 560		504	Locking ring 471-25x1,2	251 617
2	Tension roller complete	256 640		501	Cap screw M10x25	023 751
2a	Tension roller	255 684		502	Washer	020 874
2b	Axle	251 579		510*	Eccentric	255 499



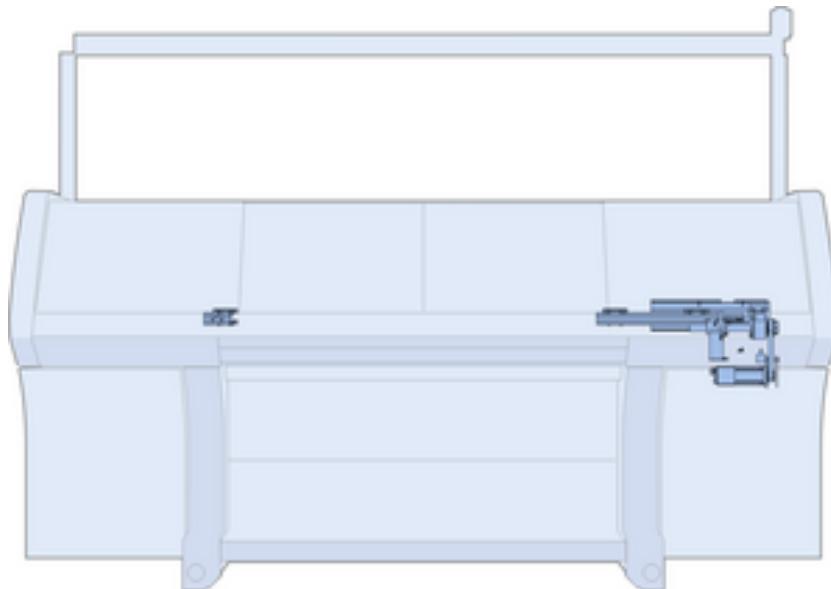
## 2.2 Energy chain and plunger

Pos	Designation	ID		Pos	Designation	ID
1	Energy chain 30 links	259 234		5	Continuation carriage driver complete	
3	Depositing gutter	259 275		53	Cable driver carriage driver	258 378
4	Threaded spacer	214 584		54	Clamping plate	252 592
8	Hose clip	214 653		55	Cable holder	204 688
501	Cap screw M6x8	023 411		56	Cellular caoutchouc black	202 597
502	Cap screw M6x16	020 135		57	Cover strip	258 379
503	Cap screw M6x20	020 136		554	Cap screw M6x12	020 134
5	Carriage driver complete	258 392		557	Cap screw M8x30	020 143
51	Carriage driver	258 380		559	Fixing element	026 489
52	Switch flag carriage driver	258 381		560	Cap screw M6x8	023 411



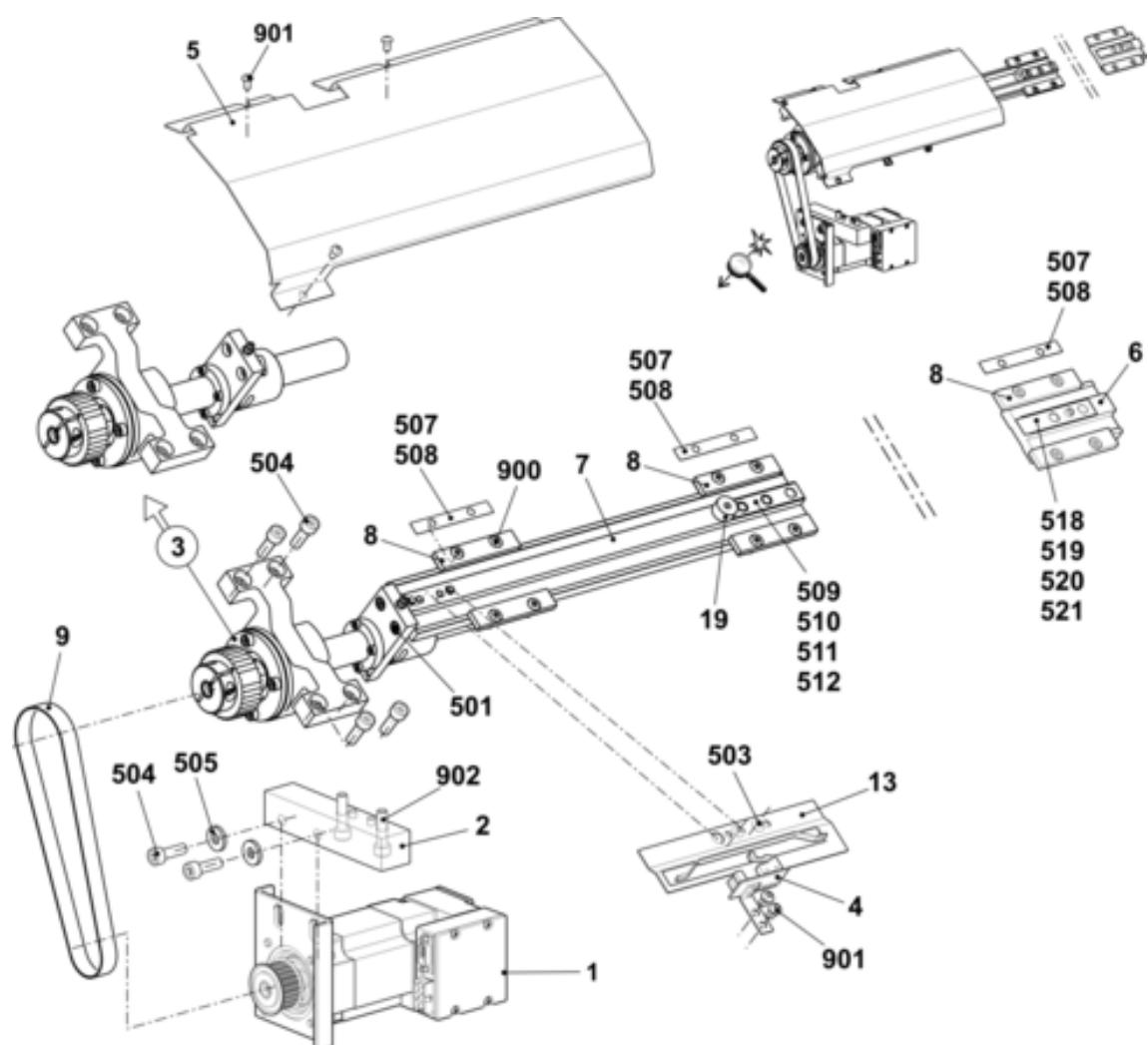
Notes:

## 3 Racking

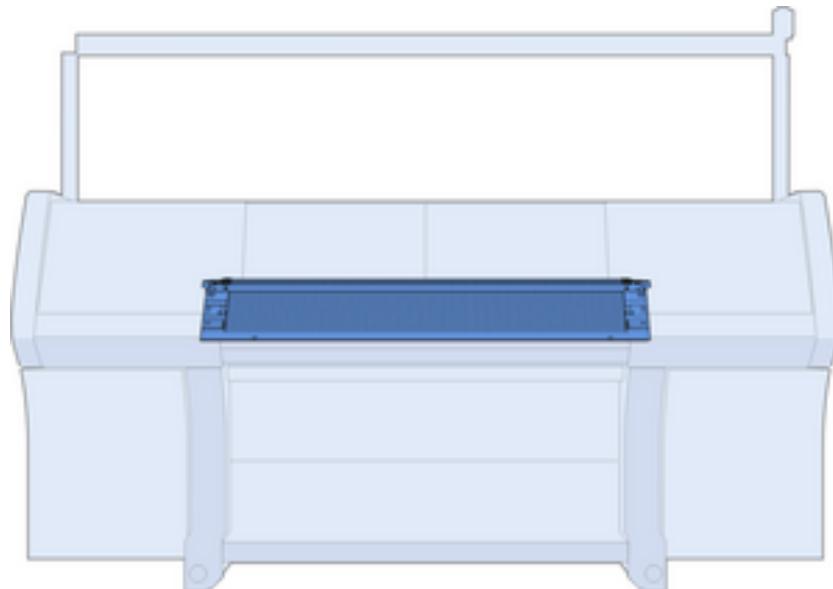


### 3.1 Racking drive

Pos	Designation	Id		Pos	Designation	Id
<b>Σ</b>	<b>Racking</b>					
1	Three-phase AC servo motor racking complete	258 192		505	Washer8,4X20X3	022 175
2	Bearing	227 605		507	Shim0,03x11x80	023 286
3	Spindle bearing	253 262		508	Shim0,05x11x80	023 287
4	Card racking limit switch	229 396		509	Shim0,03x15x85	023 162
5	Racking cover plate	240 721		510	Shim0,05x15x85	023 163
6	Racking strip on the left	240 696		511	Shim0,1x15x85	023 164
7	Racking strip	240 690		512	Shim0,2x15x85	023 170
8	Guide strip	206 382		518	Shim0,03x15x75	023 395
9	Toothed belt150 S 5M 490	229 281		519	Shim 0,05x15x7	023 396
13	Switch plate	240 722		520	Shim0,1x15x75	023 397
19	Stop screw	221 386		521	Shim0,2x15x75	023 398
501	Cap screw M6x16	023 116		900	Cap screw M6x12	022 795
503	Pan-head screw M6x10	023 183		901	Pan-head screw M6x10	023 183
504	Cap screw M8x25	020 142		902	Cap screw M8x30	020 143



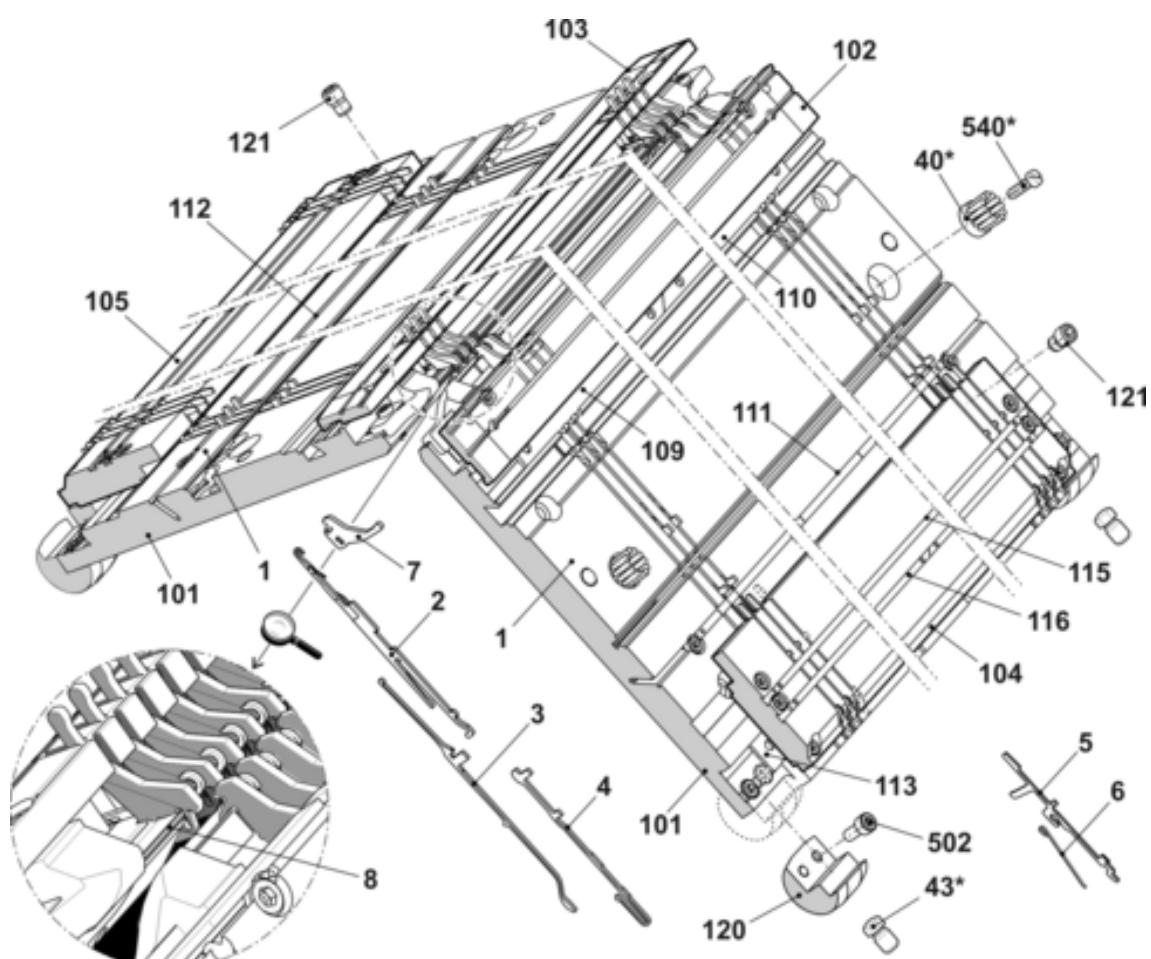
## 4 Needle beds



## 4.1 Needle bed E3

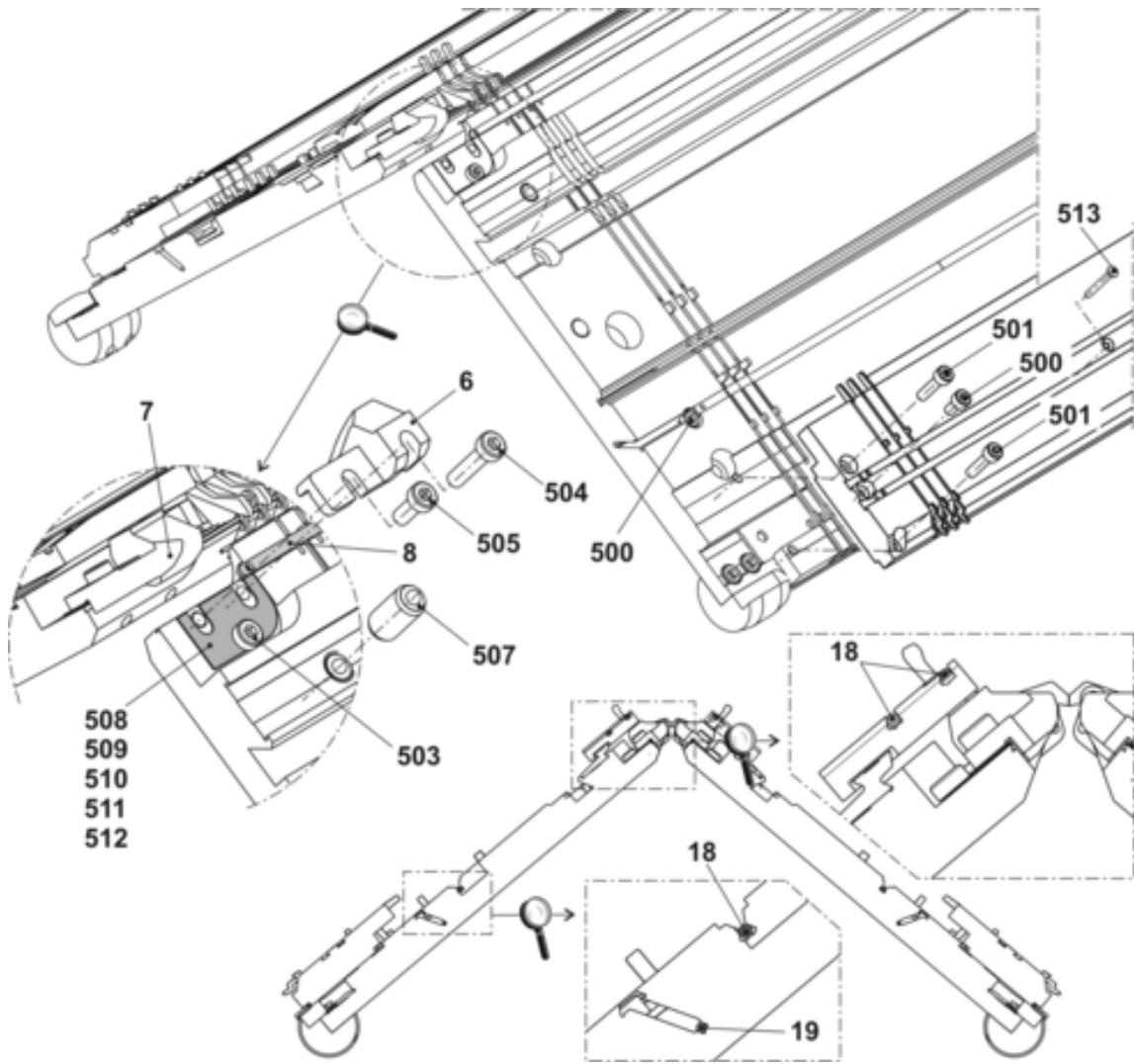
## 4.1 Needle bed E3

Pos	Designation	ID	Pos	Designation	ID
$\Sigma$	Needle bed complete at the front and rear E3	243 178			
1	Needle bed at the front and rear EPTE3	243 175	1	Support	241 339
101	Needle bed at the front + rear E3	243 144	120	Eccentric	204 603
102	Holding-down jack bed front E3	243 147	502	Cap screw M6x14	022 658
103	Holding-down jack bed rear E3	243 150	2	Needle E3-4	213 389
104	Selection jack bed at the front E3	243 155	3	Coupling part E3-4	213 348
105	Selection jack bed at the rear E3	243 158	4	Intermediate slider E3-4	218 799
109	Needle bar on the left	213 998	5	Selection jack E3-4	213 372
110	Needle bar on the right	213 999	6	Selector spring E4-8	200 690
111	Cover rail at the front E3	213 724	7	Holding-down jack E3	206 894
112	Cover rail at the rear	213 981	8	Locating wire D=1,0 1294 mm	213 717
113	Spring slide	243 153	40*	Disk brush	235 612
115	Cover rail	213 762	43*	Adjusting bolt	240 765
116	Cover rail	213 763	540*	Cap screw M5x12	020 032



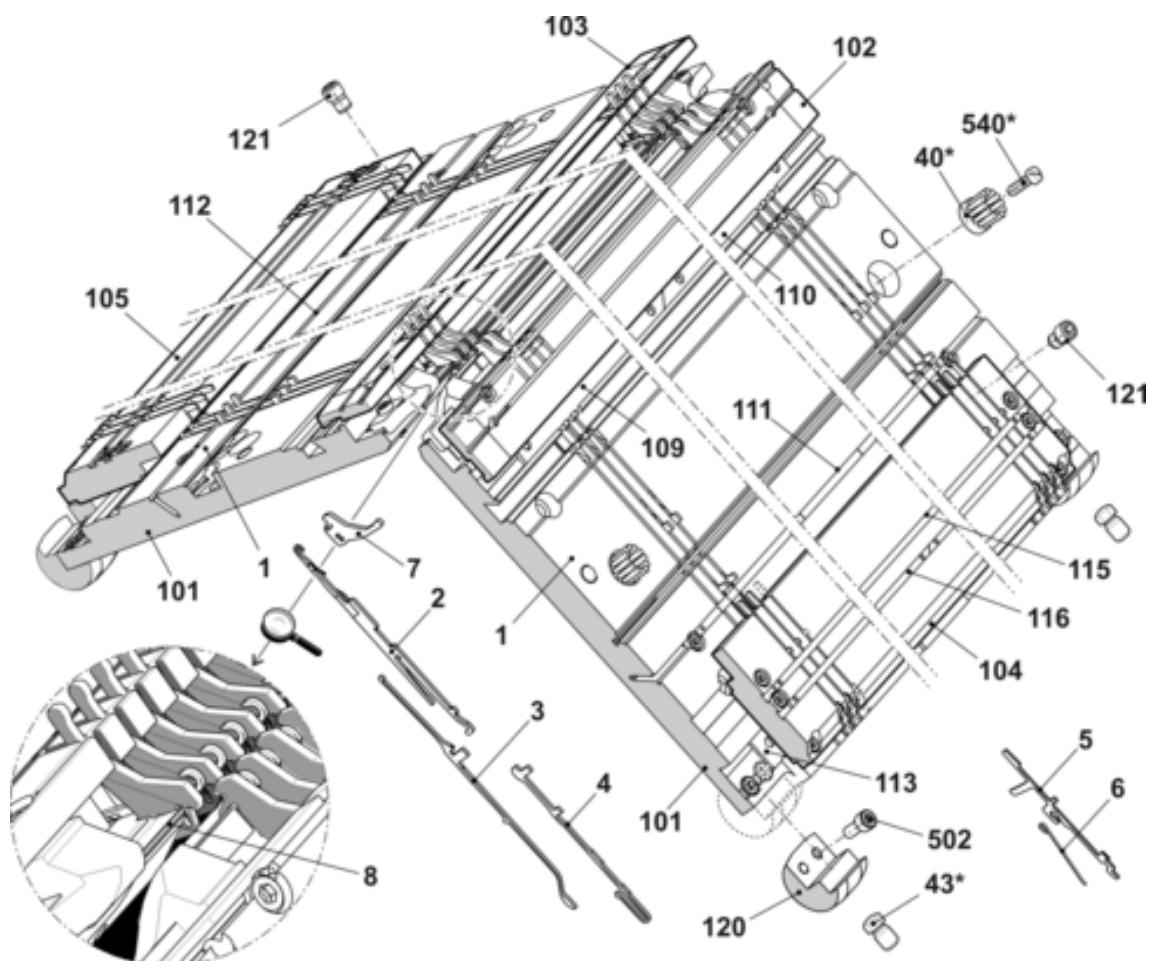
### 4.1.1 Continuation needle bed E3

Pos	Designation	ID	Pos	Designation	ID
<b>Σ</b>	Needle bed at the front and rear EPT E3	243 175	503 504 505 507 510 511 512 513	Cap screw M5x8-8.8	023 154
6	Limiter on the left E4-8	205 343		Cap screw M5x22	023 193
7	Limiter on the right E4-8	205 344		Cap screw M5x12-8.8	022 943
8	Holding-down jack slide	213 712		Springy thrust pieceB-M10	023 177
18	Locating wire D=2,8 1290 mm	213 983		Shim0,05x18,5x34	023 196
19	Spring steel wire D=2,0 1286 mm	213 996		Shim0,1x18,5x34	023 197
500	Cap screw M5x10	022 918		Shim0,2x18,5x34	023 253
501	Cap screw M5x20	020 133		Countersunk head screw M3x25-10.9	023 447



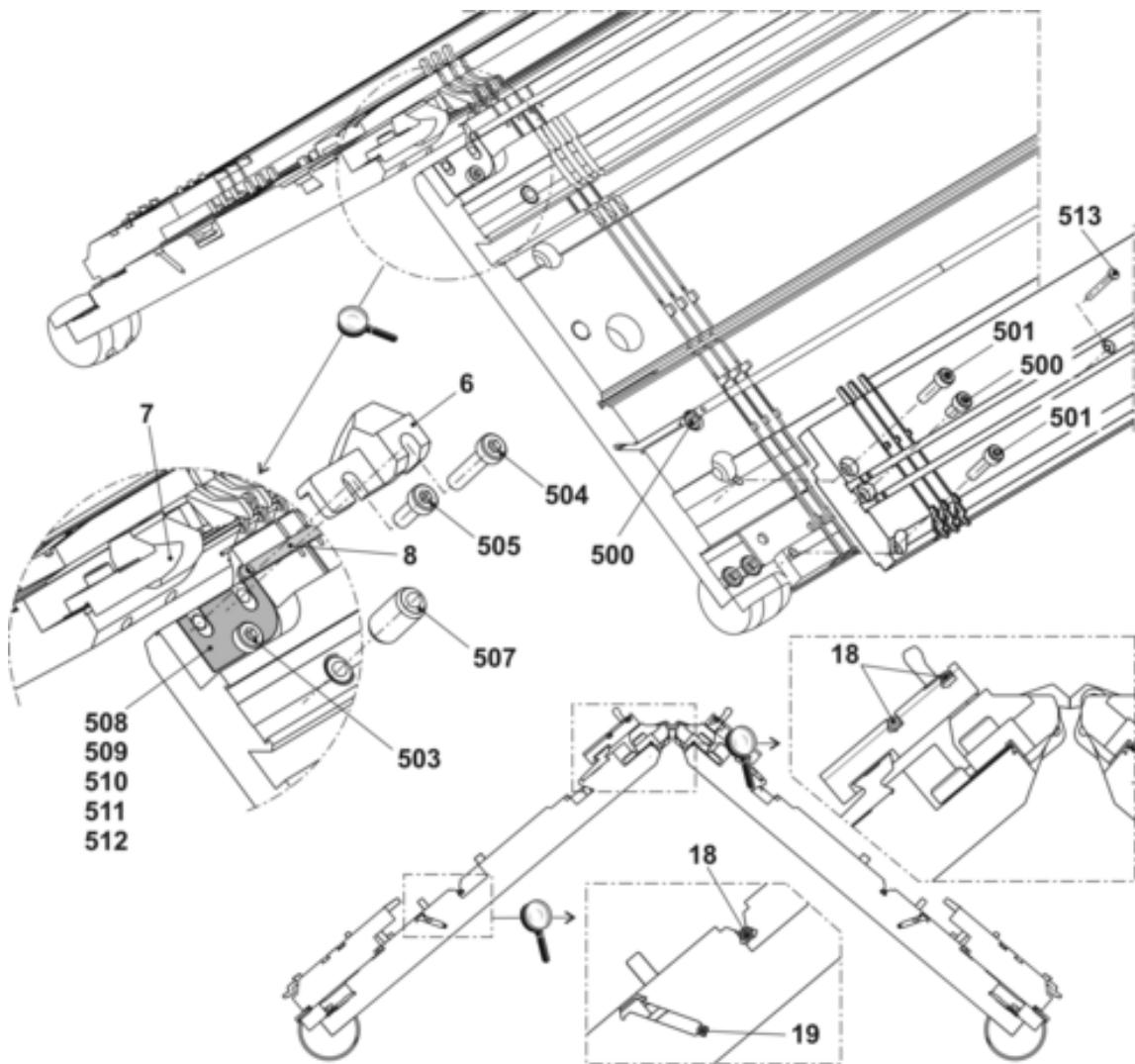
## 4.2 Needle bed E3,5

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Needle bed complete at the front and rear E3,5	243 179				
1	Needle bed at the front and rear EPTE3,5	243 176		1	120 Support	241 339
101	Needle bed at the front + rear E3,5	243 145		121 Eccentric		204 603
102	Holding-down jack bed front E3,5	243 148		502 Cap screw M6x14		022 658
103	Holding-down jack bed rear E3,5	243 151		2 Needle E3-4		213 389
104	Selection jack bed at the front E3,5	243 156		3 Coupling part E3-4		213 348
105	Selection jack bed at the rear E3,5	243 159		4 Intermediate slider E3-4		218 799
109	Needle bar on the left	213 998		5 Selection jack E3-4		213 372
110	Needle bar on the right	213 999		6 Selector spring E4-8		200 690
111	Cover rail at the front E3,5	213 725		7 Holding-down jack E3,5		205 089
112	Cover rail at the rear	213 981		8 Locating wire D=1,0 1294 mm		213 717
113	Spring slide	243 153		40* Disk brush		235 612
115	Cover rail	213 762		43* Adjusting bolt		240 765
116	Cover rail	213 763		540* Cap screw M5x12		020 032



#### 4.2.1 Continuation needle bed E3,5

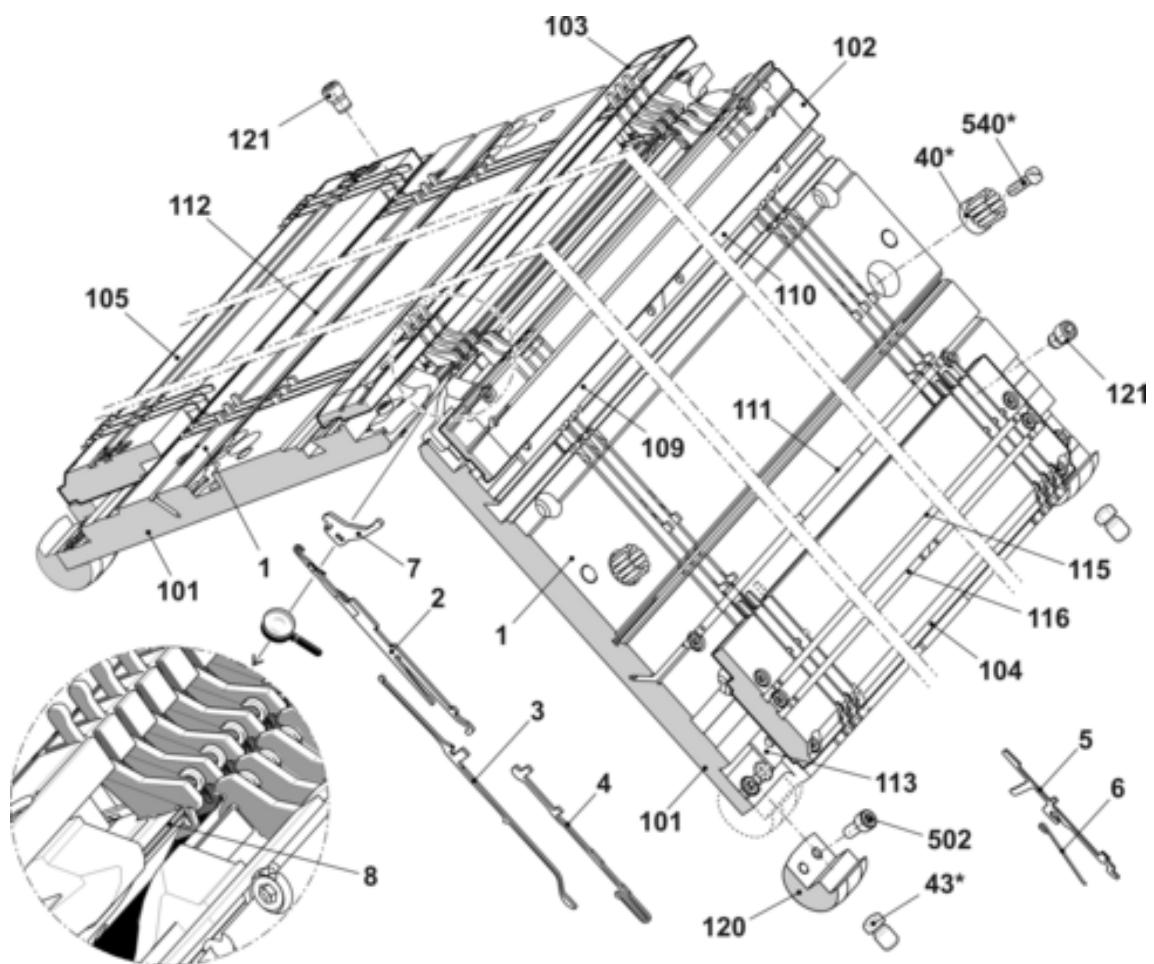
Pos	Designation	ID	Pos	Designation	ID
$\Sigma$	Needle bed at the front and rear EPT E3,5	243 176	503 504 505 507 510 511 512 513	Cap screw M5x8-8.8	023 154
6	Limiter on the left E4-8	205 343		Cap screw M5x22	023 193
7	Limiter on the right E4-8	205 344		Cap screw M5x12-8.8	022 943
8	Holding-down jack slide	213 712		Springy thrust pieceB-M10	023 177
18	Locating wire D=2,8 1290 mm	213 983		Shim0,05x18,5x34	023 196
19	Spring steel wire D=2,0 1286 mm	213 996		Shim0,1x18,5x34	023 197
500	Cap screw M5x10	022 918		Shim0,2x18,5x34	023 253
501	Cap screw M5x20	020 133		Countersunk head screw M3x25-10.9	023 447



## 4.3 Needle bed E4

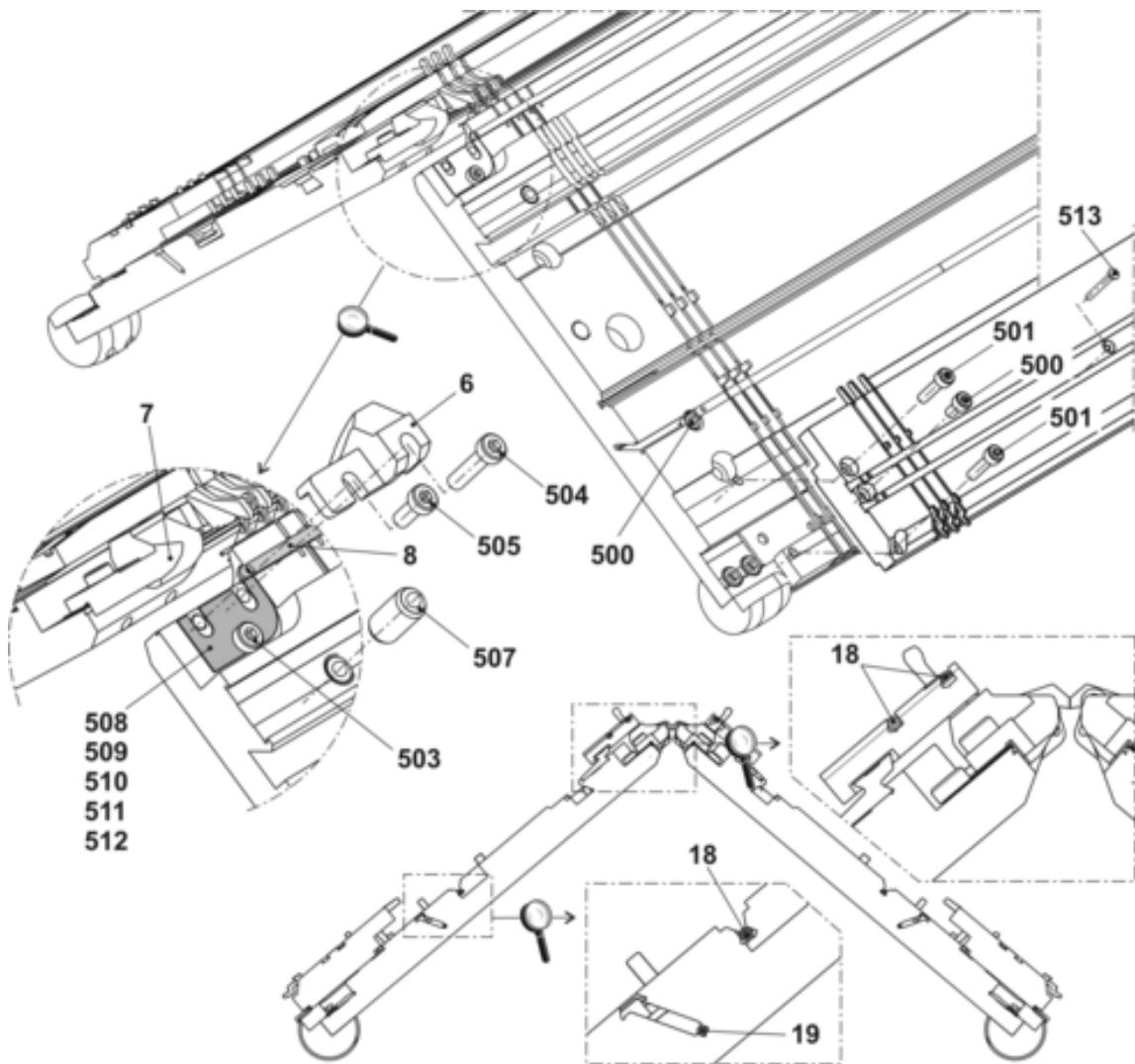
## 4.3 Needle bed E4

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Needle bed complete at the front and rear E4	243 180				
1	Needle bed at the front and rear EPTE4	243 177		1	Support	241 339
101	Needle bed at the front + rear E4	243 146		120	Eccentric	204 603
102	Holding-down jack bed front E4	243 149		502	Cap screw M6x14	022 658
103	Holding-down jack bed rear E4	243 152		2	Needle E3-4	213 389
104	Selection jack bed at the front E4	243 157		3	Coupling part E3-4	213 348
105	Selection jack bed at the rear E4	243 160		4	Intermediate slider E3-4	218 799
109	Needle bar on the left	213 998		5	Selection jack E3-4	213 372
110	Needle bar on the right	213 999		6	Selector spring E4-8	200 690
111	Cover rail at the front E4	213 726		7	Holding-down jack E4	205 090
112	Cover rail at the rear	213 981		8	Locating wire D=1,0 1294 mm	213 717
113	Spring slide	243 153		40*	Disk brush	235 612
115	Cover rail	213 762		43*	Adjusting bolt	240 765
116	Cover rail	213 763		540*	Cap screw M5x12	020 032

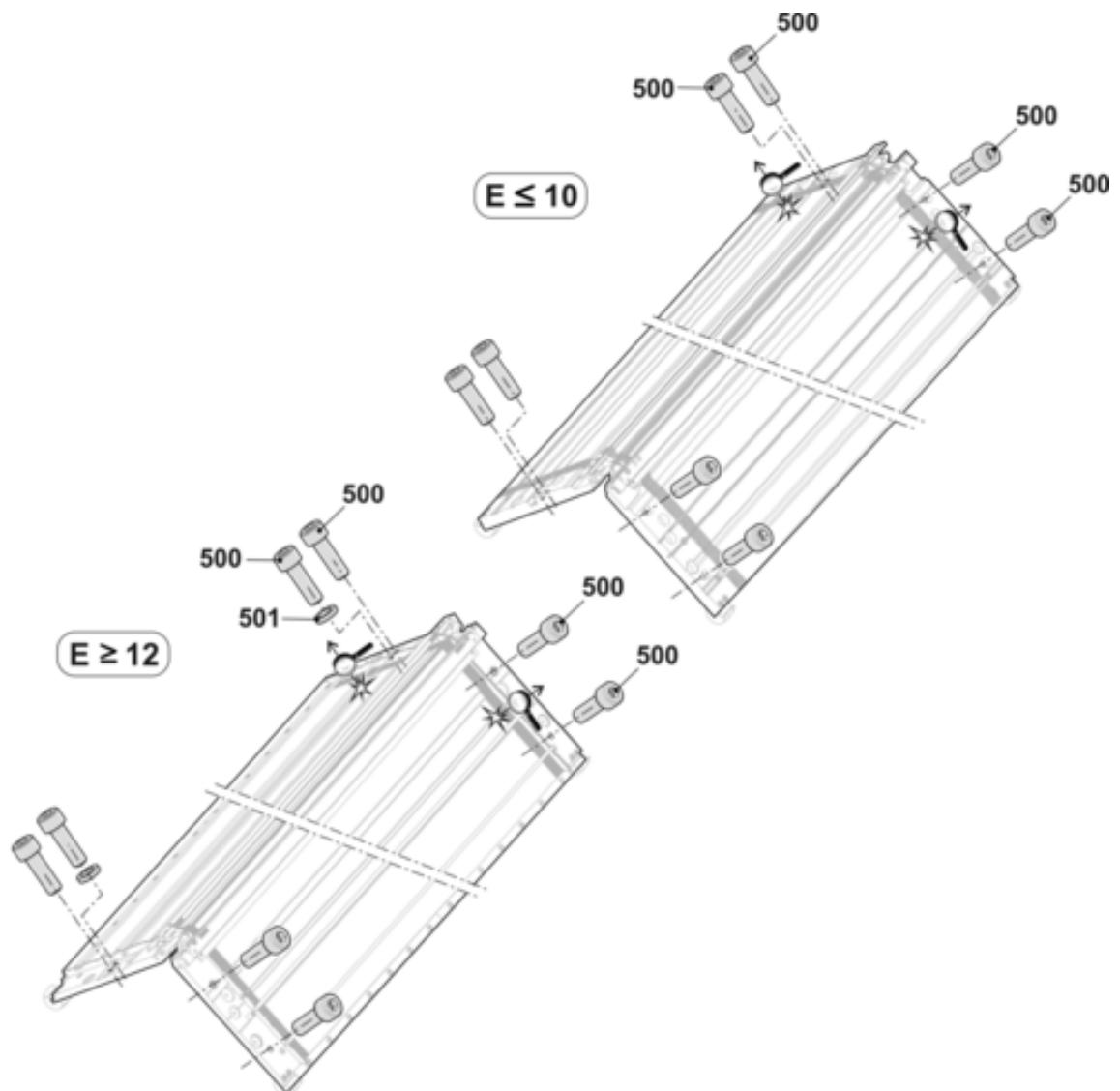


### 4.3.1 Continuation needle bed E4

Pos	Designation	ID	Pos	Designation	ID
<b>Σ</b>	Needle bed at the front and rear EPT E4	243 177	503 504 505 507 510 511 512 513	Cap screw M5x8-8.8	023 154
6	Limiter on the left E4-8	205 343		Cap screw M5x22	023 193
7	Limiter on the right E4-8	205 344		Cap screw M5x12-8.8	022 943
8	Holding-down jack slide	213 712		Springy thrust pieceB-M10	023 177
18	Locating wire D=2,8 1290 mm	213 983		Shim0,05x18,5x34	023 196
19	Spring steel wire D=2,0 1286 mm	213 996		Shim0,1x18,5x34	023 197
500	Cap screw M5x10	022 918		Shim0,2x18,5x34	023 253
501	Cap screw M5x20	020 133		Countersunk head screw M3x25-10.9	023 447

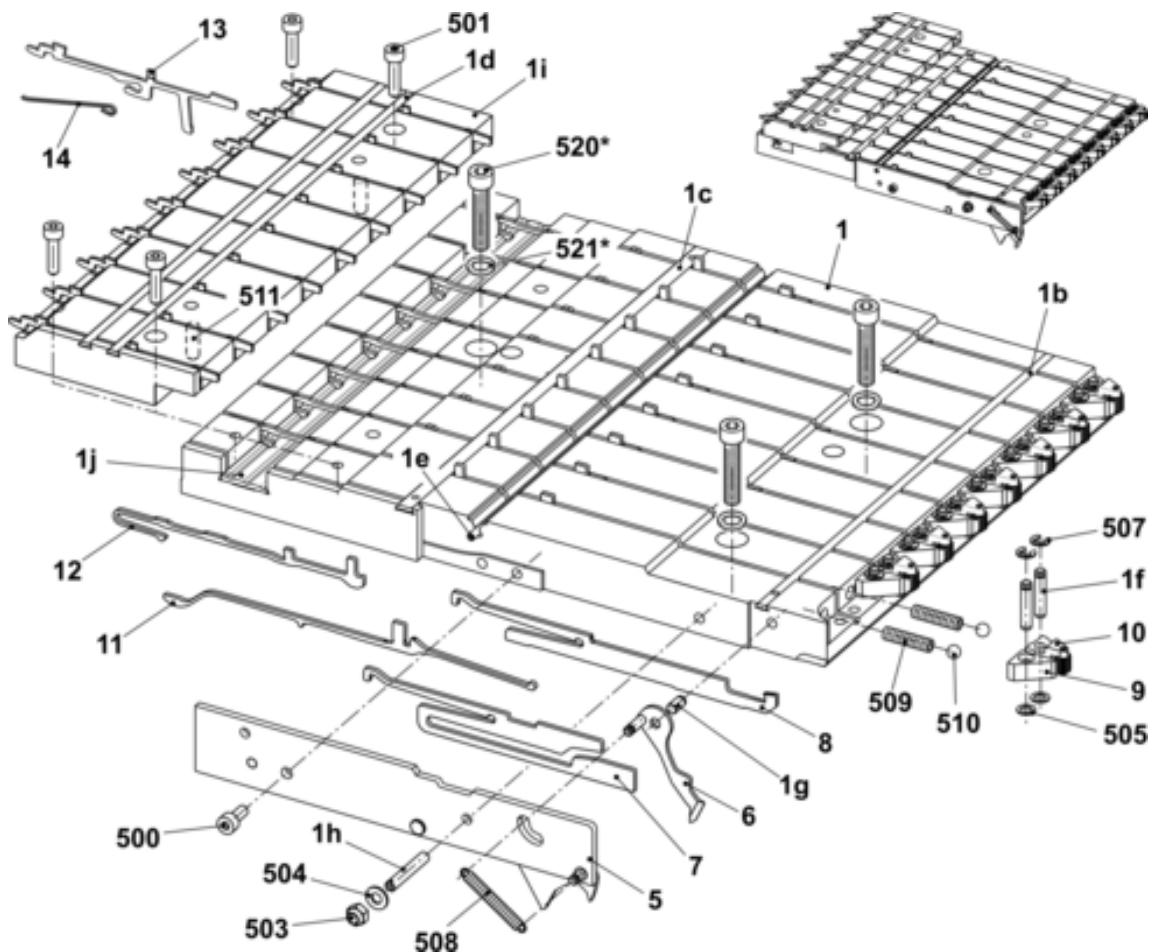


Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Fixing elements					
500	Cap screw M8x25	020 142		501	Washer	214 040



## 4.5 Left clamping/cutting bed

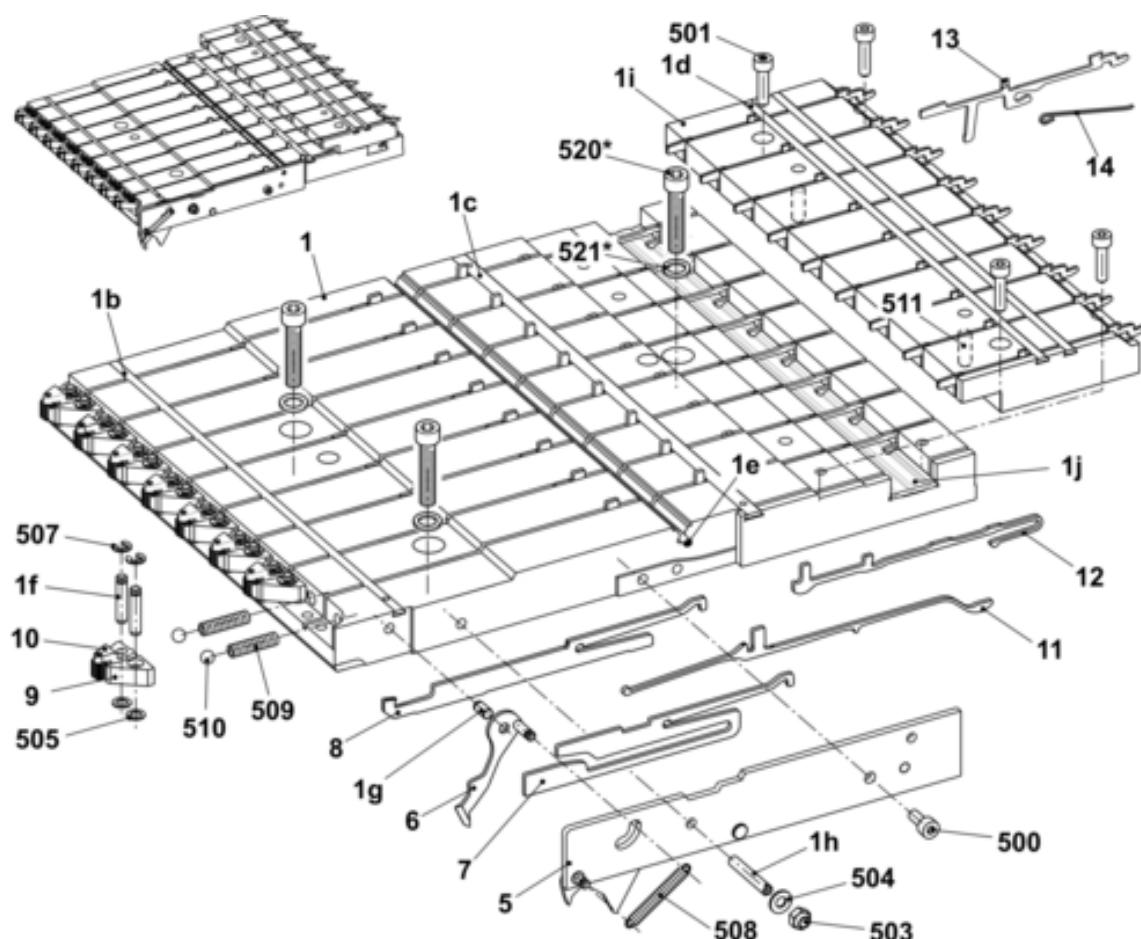
Pos	Designation	ID	Pos	Designation	ID
<b>Σ</b>	<b>Left clamping and cutting bed E3 E4</b>	<b>245 339</b>			
<b>1</b>	<b>Guide plate EPT on the left E3-4</b>	<b>245 345</b>	<b>10</b>	<b>Clamp on the left complete</b>	<b>210 462</b>
1b	Cover rail	211 358	11	Coupling part E3-4	213 348
1c	Cover rail	216 105	12	Intermediate slider E3-4	218 799
1d	Cover rail	209 224	13	Selection jack E3-4	213 372
1e	Locating wire	215 927	14	Selector spring E4-8	200 690
1f	Bolts	208 094	500	Cap screw M4x10	023 136
1g	Axle	211 349	501	Cap screw M4x16	020 131
1h	Guide pin	211 351	503	Hexagon nut M4	023 046
1i	Selection jack bed on the left E3-4	215 906	504	Washer4	020 870
1j	Spring slide	215 908	505	Washer4,3x7x0,5	022 153
511	Dowel pin 5x12	021 988	507	Circlip 3,2	021 019
5	Cover on the left complete E3-4	215 925	508	Tension spring 4x0,55x18,9	023 392
6	Catch hook on the left E3-4	215 887	509	Compression spring 0,8x4x26,3	023 333
7	Slider	215 827	510	Ball 5	023 309
8	Catch needle on the left E3-4	215 879	520*	Cap screw M6x25	023 335
9	Blade	210 422	521*	Washer7,6x11,6x1,5	023 334



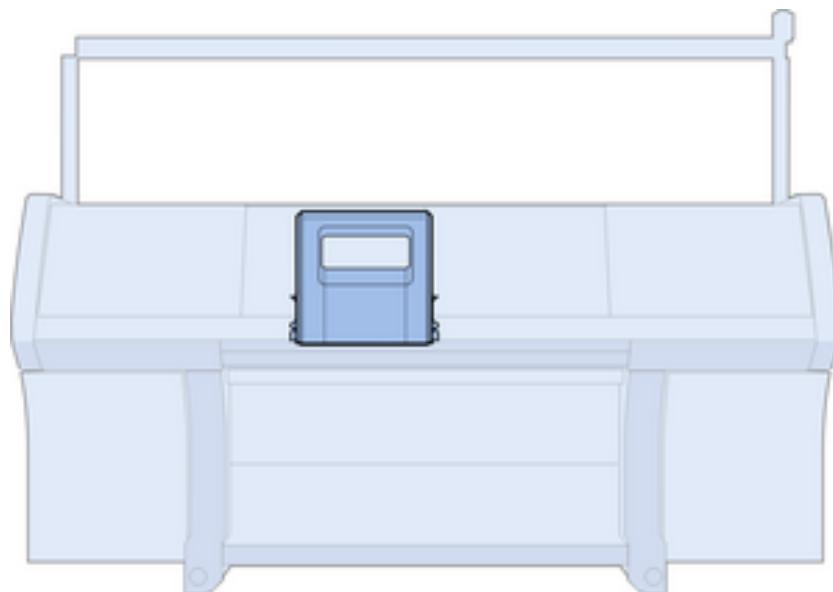
## 4.6 Clamping/cutting bed on the right

## 4.6 Clamping/cutting bed on the right

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Clamping and cutting bed on the right E3   E4	245 340		10	Clamp on the right complete	210 464
1	Guide plate EPT on the right E3-4	245 346		11	Coupling part E3-4	213 348
1b	Cover rail	211 358		12	Intermediate slider E3-4	218 799
1c	Cover rail	216 105		13	Selection jack E3-4	213 372
1d	Cover rail	209 224		14	Selector spring E4-8	200 690
1e	Locating wire	215 927		500	Cap screw M4x10	023 136
1f	Bolts	208 094		501	Cap screw M4x16	020 131
1g	Axle	211 349		503	Hexagon nut M4	023 046
1h	Guide pin	211 351		504	Washer4	020 870
1i	Selection jack bed on the right E3-4	215 907		505	Washer4,3x7x0,5	022 153
1j	Spring slide	215 908		507	Circlip 3,2	021 019
511	Dowel pin 5x12	021 988		508	Tension spring 4x0,55x18,9	023 392
5	Cover on the left complete E3-4	215 926		509	Compression spring 0,8x4x26,3	023 333
6	Catch hook on the right E3-4	215 888		510	Ball 5	023 309
7	Slider	215 827		520*	Cap screw M6x25	023 335
8	Catch needle on the right E3-4	215 874		521*	Washer7,6x11,6x1,5	023 334
9	Blade	210 422				



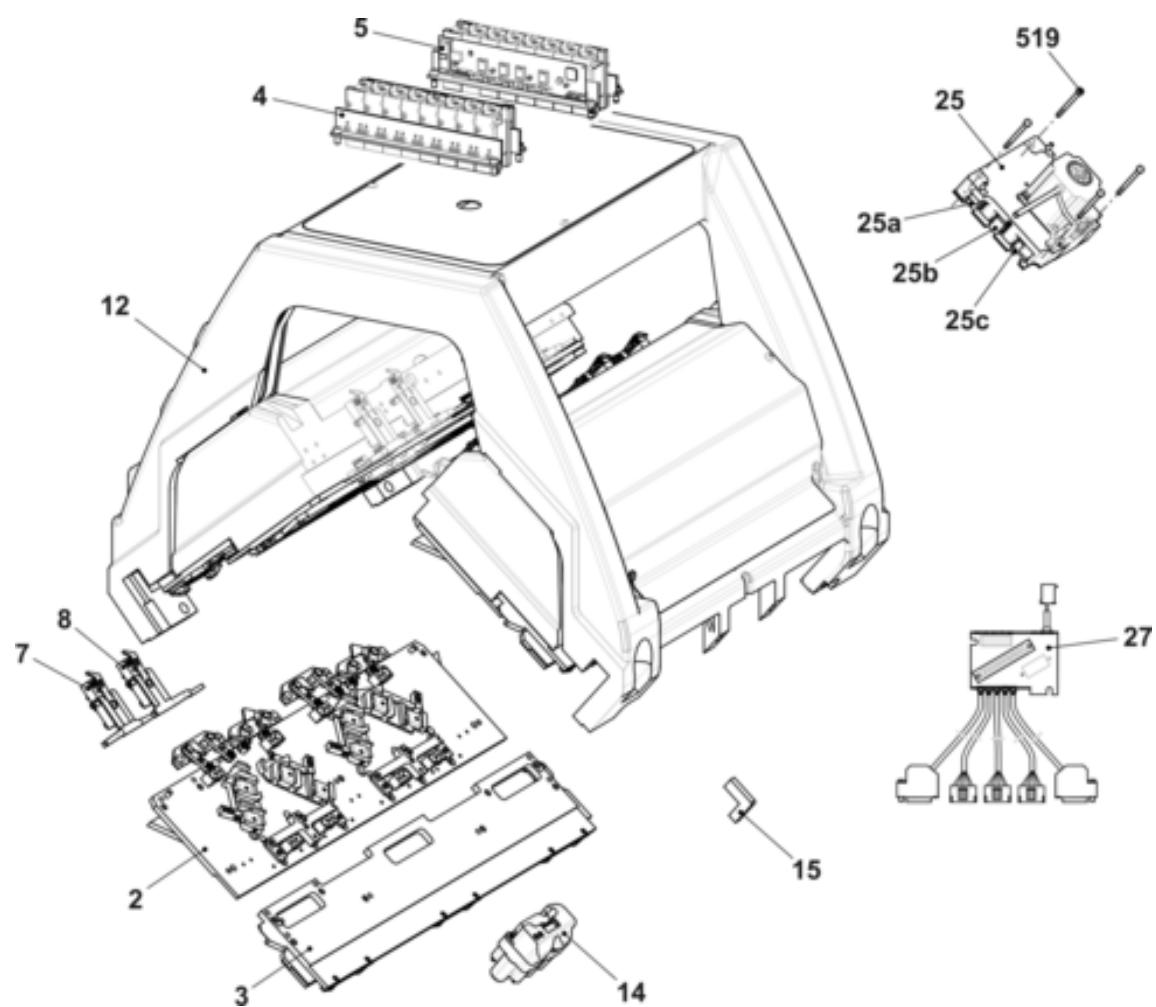
## 5 Carriage



## 5.1 Overview of carriage

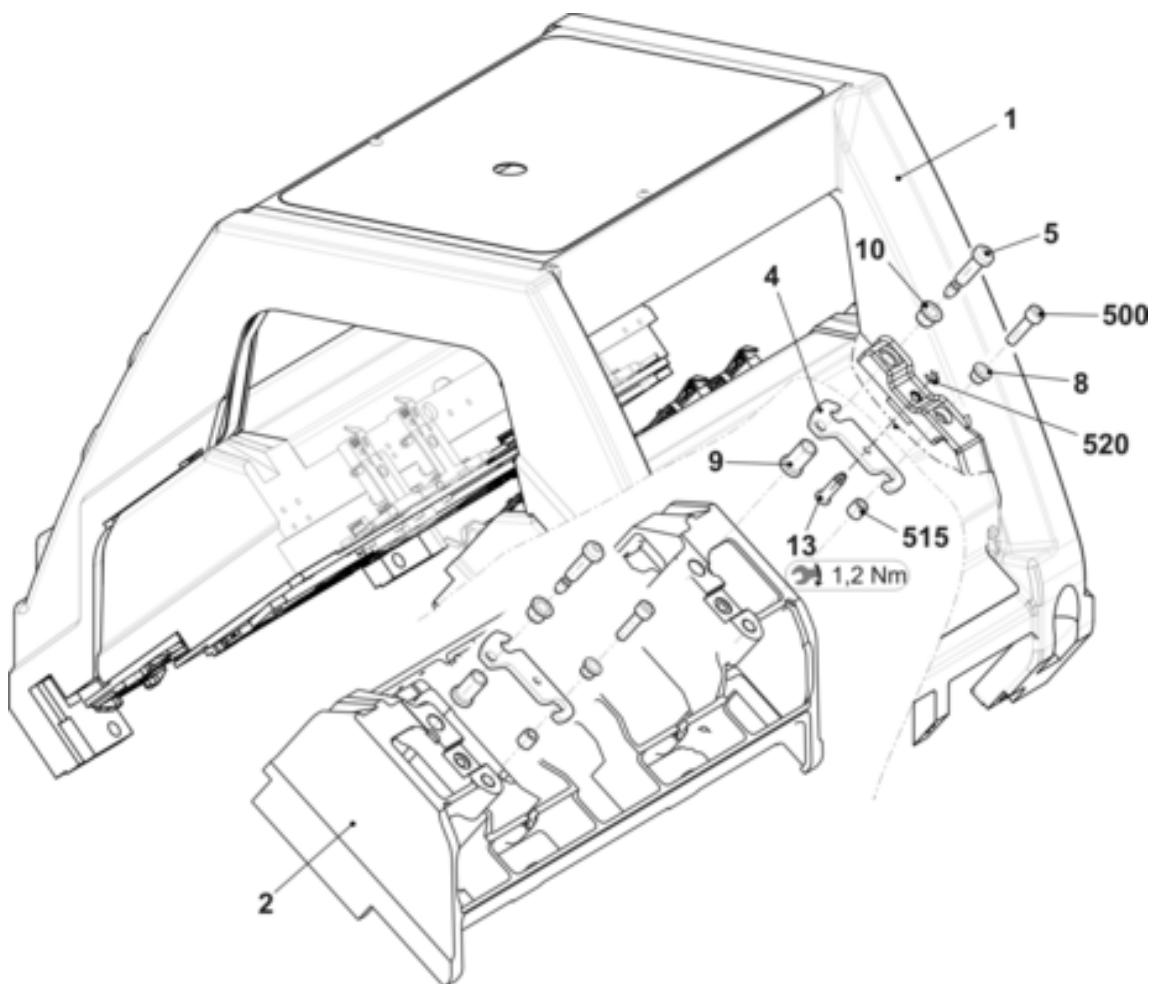
## 5.1 Overview of carriage

Pos	Designation	ID		Pos	Designation	ID
Σ	Carriage complete E3-4	256 647		14	Selection system complete E2-8	216 218
2	Needle cam complete	214 808		15	Wiper felt	241 411
3	Jack cam box complete	214 809		25	Motor unit complete (AT=714946)	214 946
4	Yarn carrier driving unit outside complete	241 080		25a	Gear rack at the top	214 290
5	Yarn carrier driving unit in the middle complete	241 081		25b	Gear rack in the middle	214 291
7	Holding-down jack control on the right	214 717		25c	Gear rack at the bottom	214 292
8	Holding-down jack control on the left	214 800		520	Screw M4x40	023 095
12	Carriage assembly 2 cam boxes complete	256 499		27	Distributor 520C	253 666



## 5.2 Carriage assembly

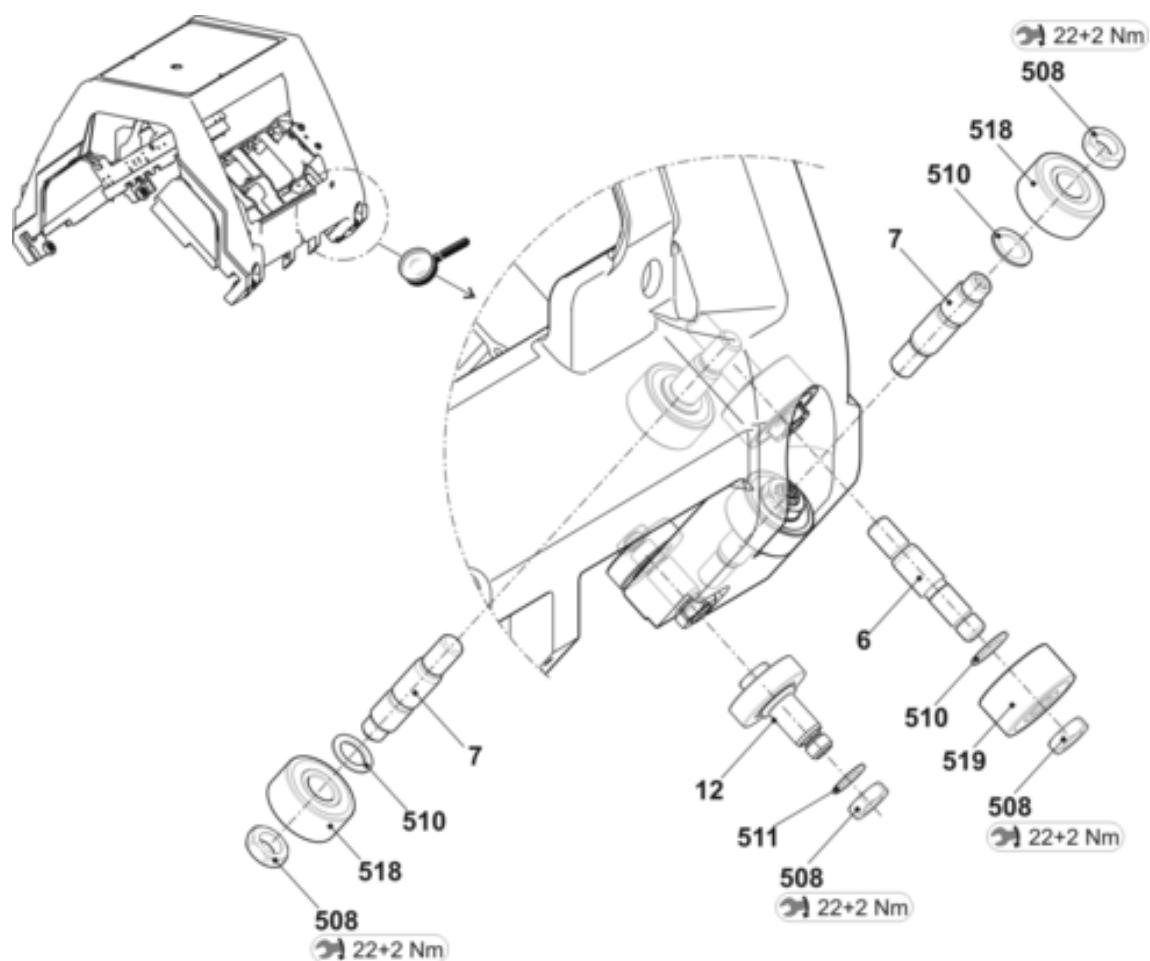
Pos	Designation	ID	Pos	Designation	ID
$\Sigma$	Carriage assembly 2 cam boxes 520C	256 499	9	Bush	209 275
1	Carriage frame, 2 cam boxes	259 016	10	Bush	209 274
2	Carriage part, 2 cam boxes	243 100	13	Locating bolt linking spot	244 179
4	Shim	225 312	500	Cap screw M8x30	020 143
5	Shoulder screw	211 750	515	Threaded bush	041 863
8	Bush	207 546	520	Circlip	021 022



## 5.3 Carriage guide

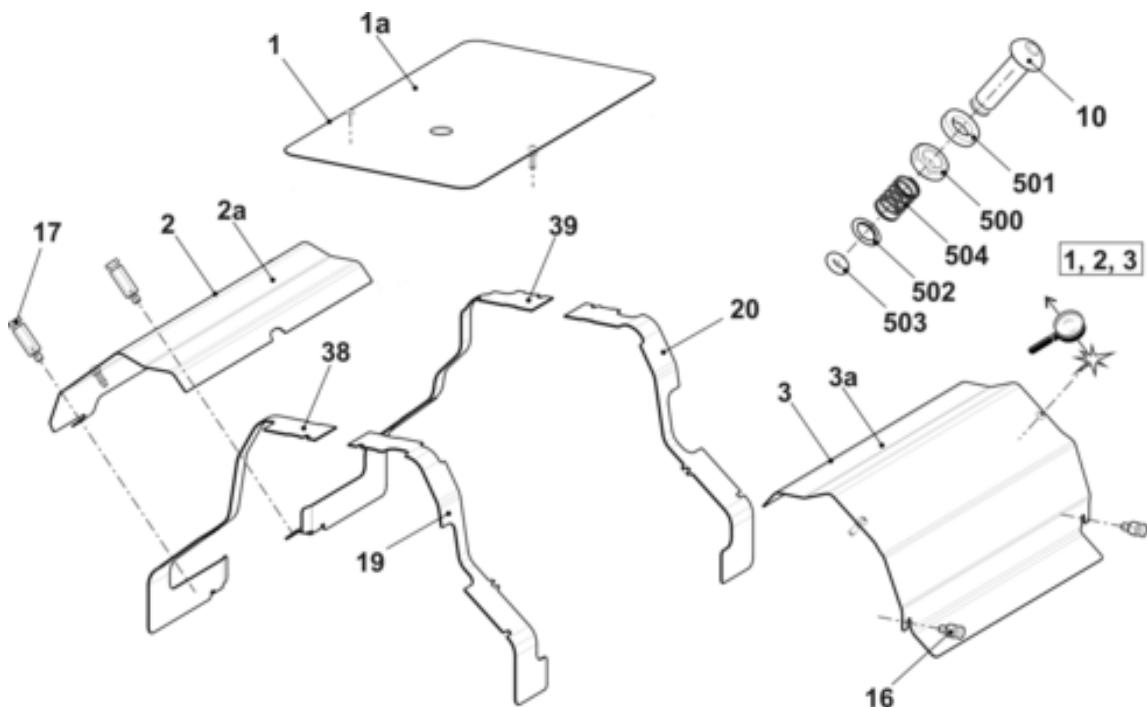
## 5.3 Carriage guide

Pos	Designation	ID		Pos	Designation	ID
6	Bearing bolt eccentric 0,5	242 060		508	NutM10	023 316
7	Bearing bolt eccentric 0,5	240 624		510	Shim ring 12x18x1	023 315
12	Bolt complete with bearing	244 283		511	Shim ring 10x16x1	023 260
525	Roller10X32X9	242 071		518	Grooved ball bearing 62201-2RS	241 408
526	Shim ring 10x16x2	023 600		519	Grooved ball bearing 62300-2RS1	242 070



## 5.4 Carriage cover

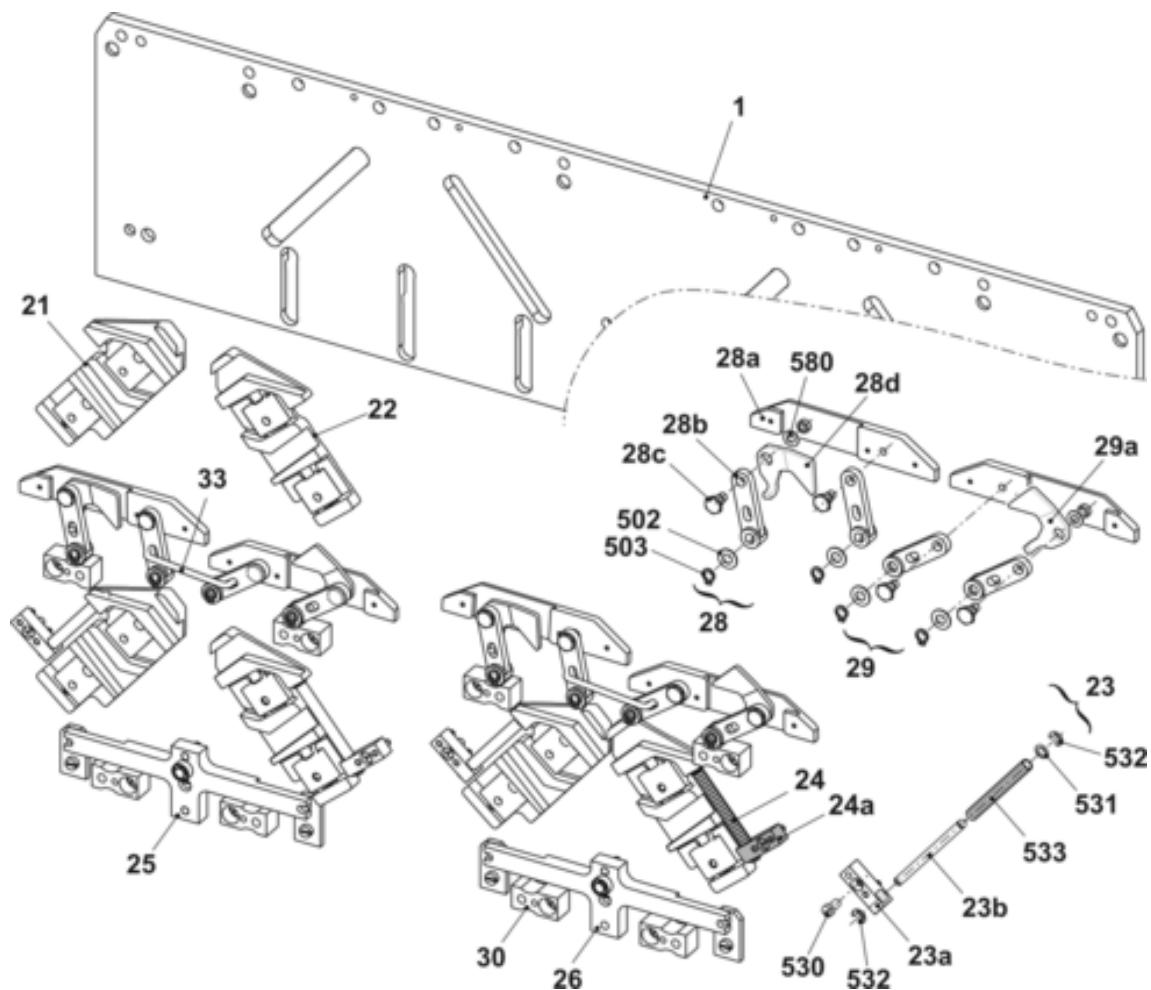
Pos	Designation	ID	Pos	Designation	ID
1	Carriage cover at the top 3 cam boxes complete	257 100	16		
1a	Carriage cover at the top 2 cam boxes 6Z	256 510		Bolts	212 392
2	Carriage cover at the rear complete	257 171	17	Bolt at the rear	243 171
2a	Carriage cover at the rear 520C	256 770		Cover plate on the left	250 274
3	Carriage cover at the front complete	257 170	19	Cover plate on the right	250 275
3a	Carriage cover at the front 520C	256 769		Guide plate at the rear on the left	245 323
1,2,3	Locating bolt	242 382	38	Guide plate at the rear on the right	245 324
	Hexagon nut M6	257 088		Compression spring 0,48x7,02x17,29	023 654
	Serrated lock washer 6,4	022 385	504		
	Washer 6,1x9x0,5	023 554			
	O-ring 3x2	242 420			



## 5.5 Needle cam

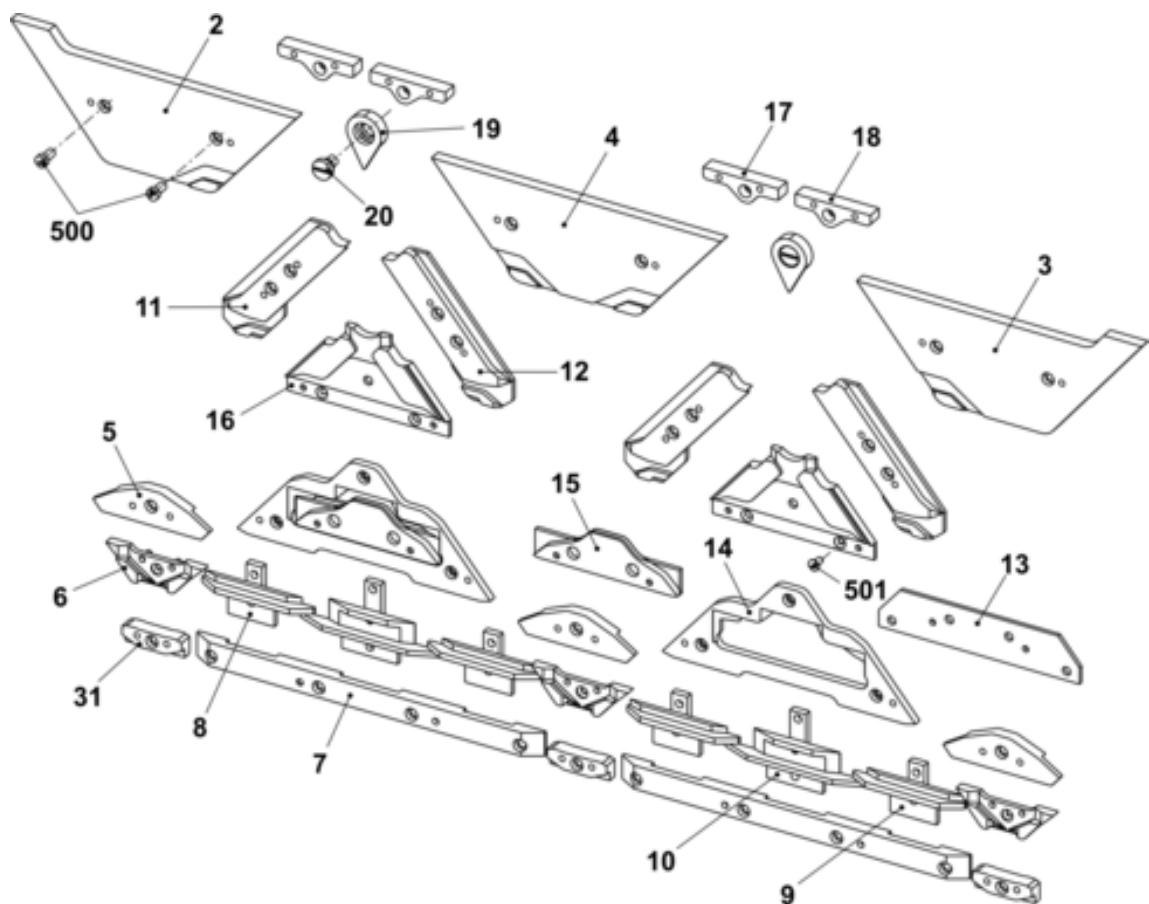
## 5.5 Needle cam

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Needle cam complete (at the top)	214 808		26	Slider	210 953
1	Needle cam plate E3-4	214 899		28	Slider on the left complete	214 248
21	Loop sinking cam on the left complete	214 657		28a	Slider on the left E3-4	241 758
22	Loop sinking cam on the right complete	214 656		28b	Connecting rod CMS320	214 186
23	Rod guide element on the left	214 477		28c	Axle	252 742
	23a	Rod guide element on the left	214 475	28d	Jack sheet metal on the left	214 193
	23b	Spring rod	214 476	580	Shim ring 4x8x0,5	023 384
	530	Cap screw M4x8	020 091	29	Slider on the right complete	214 271
	531	Washer 4,3x7x0,5	022 153	29a	Slider on the right E3-4	241 759
	532	Circlip 3,2	021 019	30	Spacer	214 603
	533	Compression spring 0,55x4,95x74,8	023 344	33	Bow E3-4	216 225
24	Rod guide element on the right	214 478		502	Shim ring 5x10x0,5	023 348
	24a	Rod guide element on the right	214 473	503	Locking ring 5x0,6	023 347
25	Switching piece	214 322				



## 5.6 Continuation needle cam box

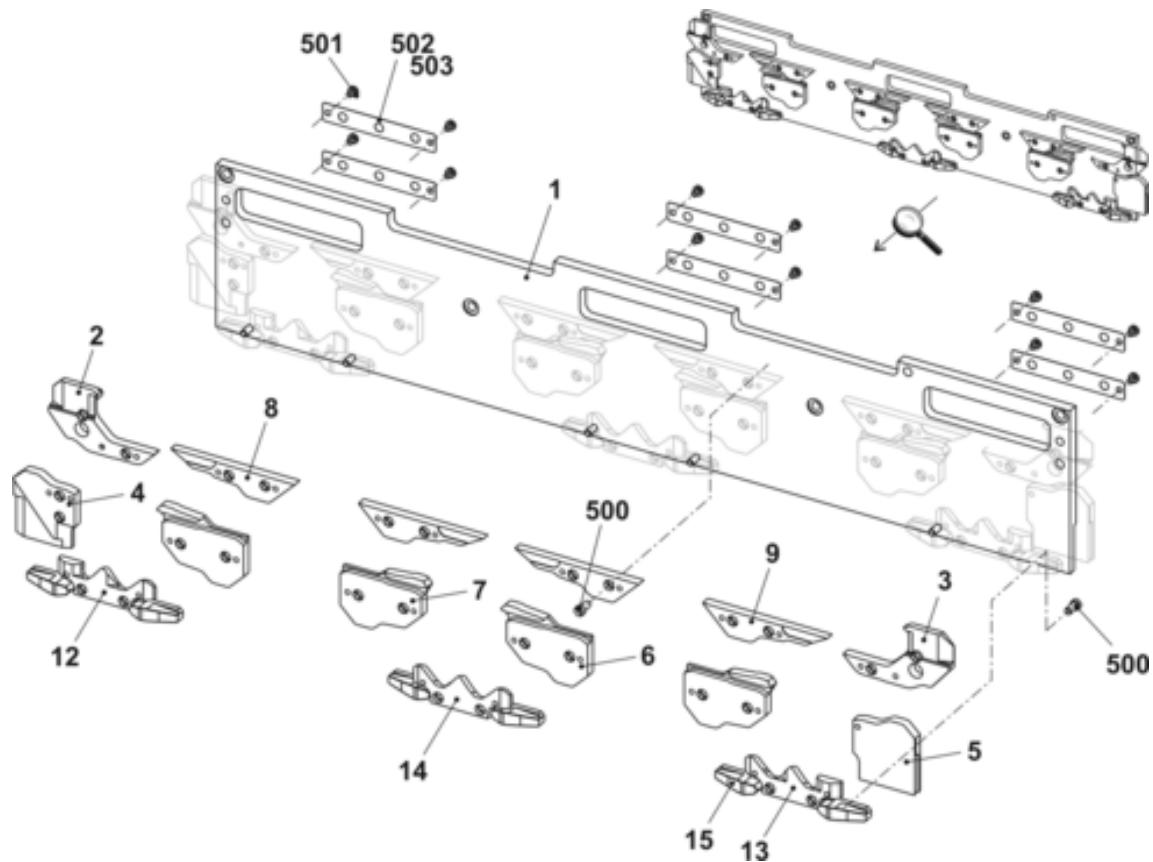
Pos	Designation	ID	Pos	Designation	ID
Σ	Needle cam box complete (at the bottom)	214 808	13	Raising cam plate	214 286
2	Entry cam on the left E3-4	214 850	14	Raising cam without split-stitch	216 012
3	Entry cam on the right E3-4	214 851		Raising cam with split-stitch (Accessories)	216 011
4	Entry cam in the middle E3-4	214 852	15	Receiving cam	214 190
5	Entry cam	214 579	16	Tuck limiting cam E3-4	218 047
6	Knitting position cam E3-4	220 179	17	Limiting cam on the left E3-4	218 048
7	Pressure strip E3-4	214 663	18	Limiting cam on the right E3-4	218 049
8	Pressure part receiving on the left E3-4	216 008	19	Pointer E3-4	218 050
9	Pressure part receiving on the right E3-4	216 009	20	Screw	214 576
10	Tuck pressure part E3-4	216 130	31	Limiting cam at the bottom E3-4	215 994
11	Stitch cam on the left E3-4	214 895	500	Cap screw M4x8	020 091
12	Stitch cam on the right E3-4	214 896	501	Countersunk screw M3x6-4.8	020 286



## 5.7 Jack cam box

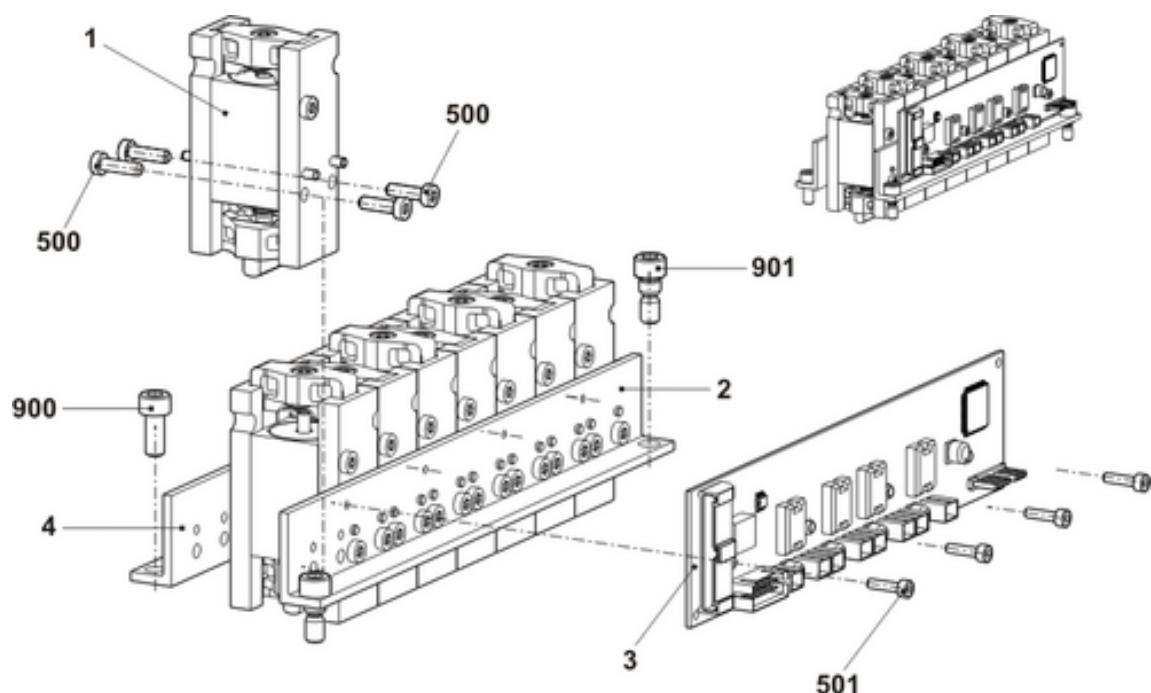
## 5.7 Jack cam box

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Jack cam box complete	214 809		9	Cam at the right E3-4	213 938
1	Jack cam box plate	214 900		12	Selection cam on the left	213 868
2	Cam on the left	214 594		13	Selection cam on the right	213 870
3	Cam part at the right	214 596		14	Selection cam	213 869
4	Cam on the left	214 586		15	Offering cam	210 185
5	Cam part at the right	214 587		500	Cap screw M4x8	020 091
6	Cam on the left E3-4	213 911		501	Pan-head screw M3x4	023 142
7	Cam at the right E3-4	213 915		502	Shim0,1x12x75	022 830
8	Cam on the left E3-4	213 920		503	Shim0,2x12x75	022 831



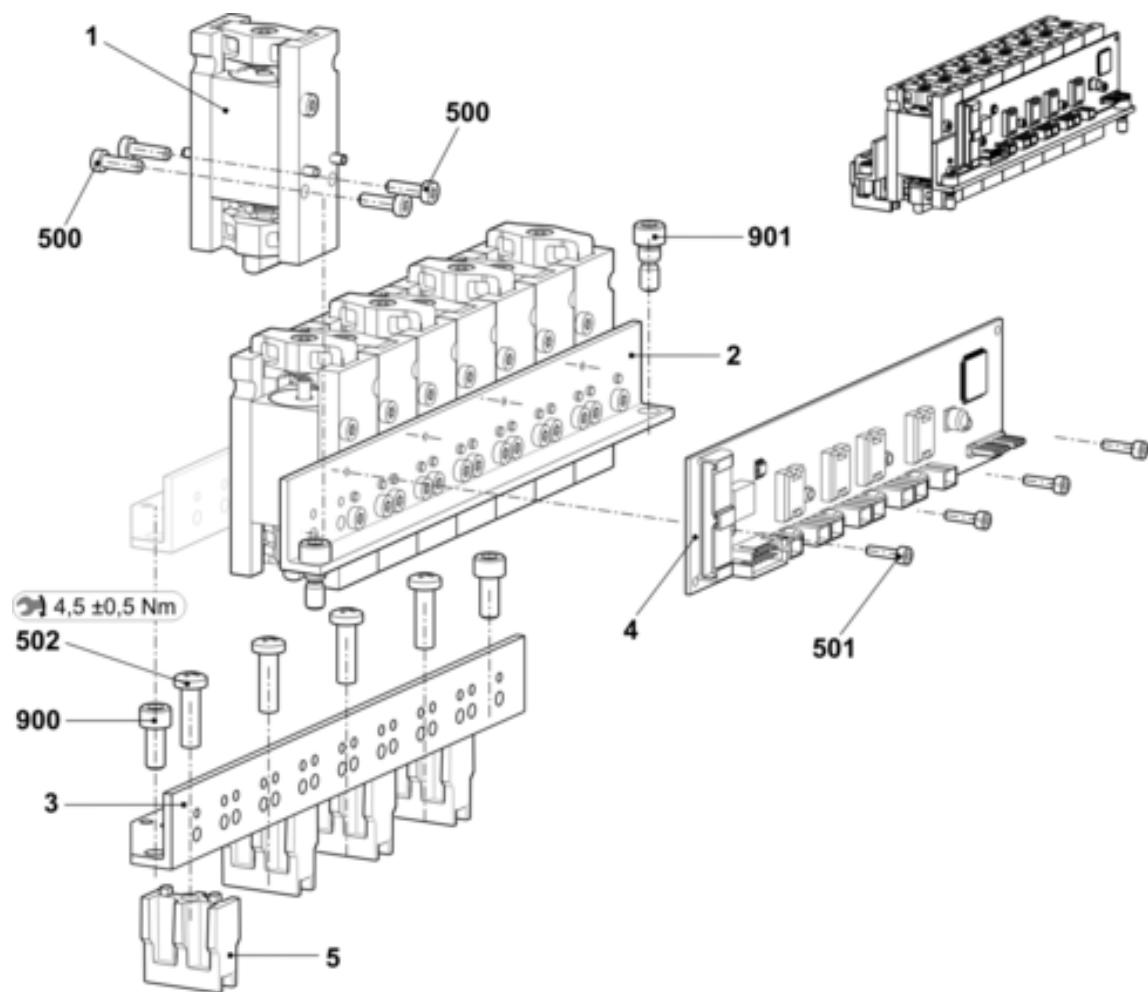
## 5.8 Yarn carrier driving without guide part

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



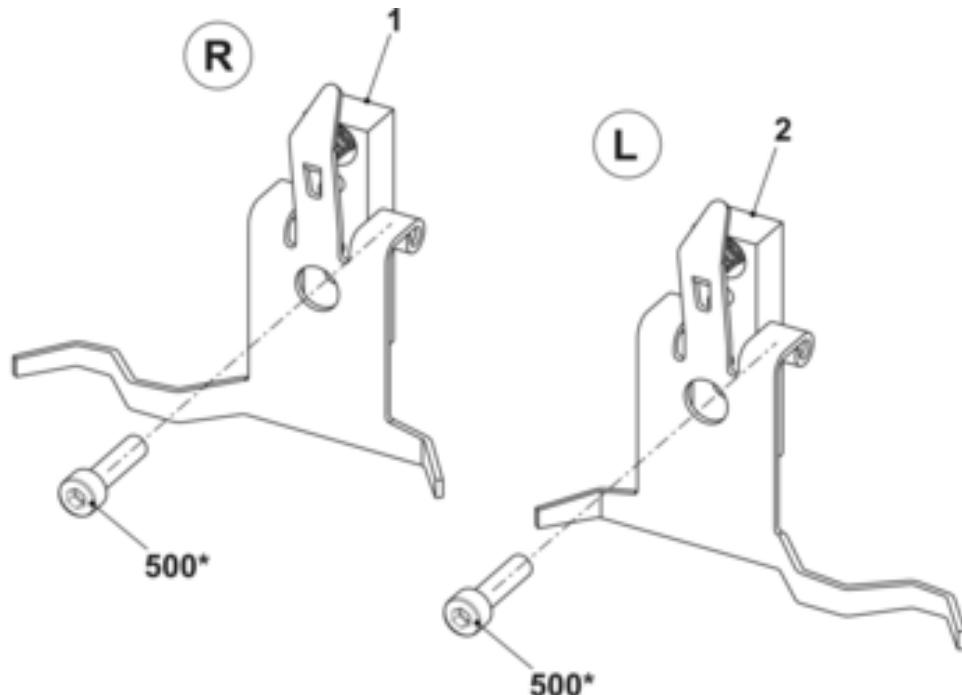
## 5.9 Yarn carrier driving with guide part

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



## 5.10 Holding-down jack control on the right and left

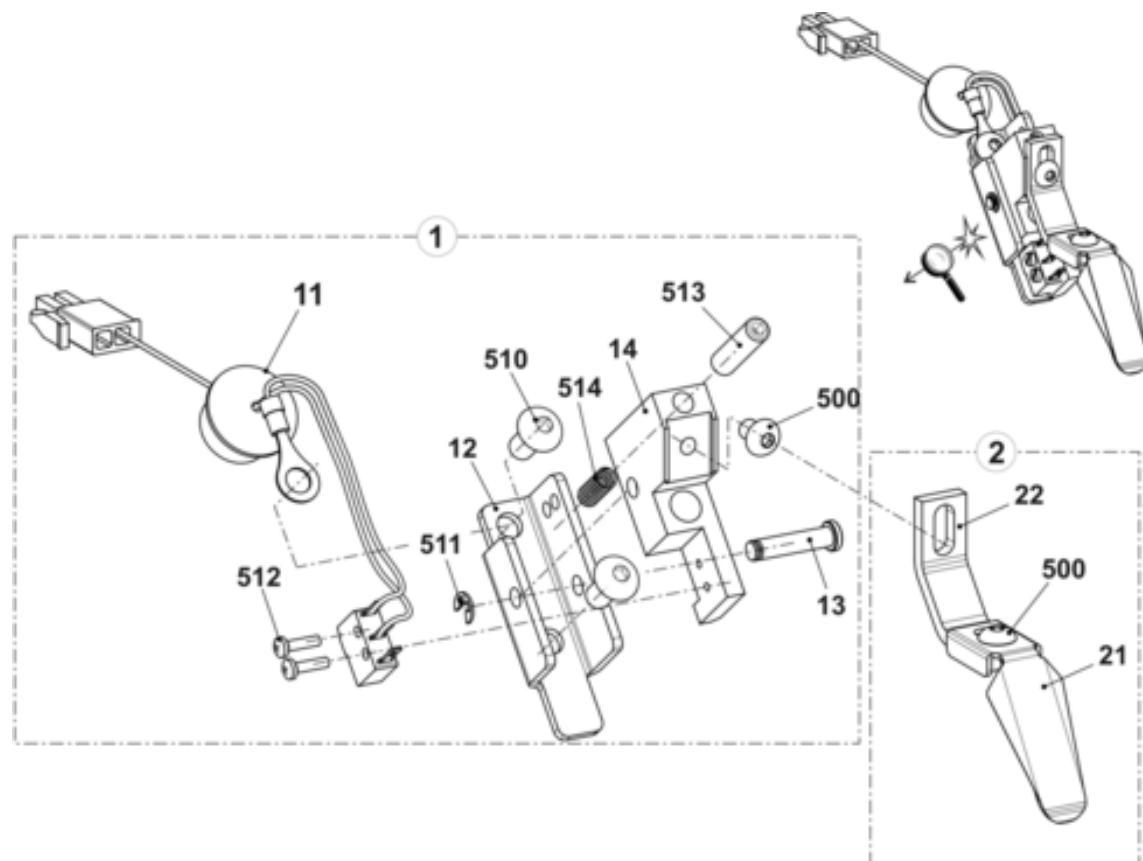
Pos	Designation	ID		Pos	Designation	ID
1	Holding-down jack control on the right	214 717		2	Holding-down jack control on the left	214 800
500*	Cap screw M5x20	020 133		500*	Cap screw M5x20	020 133



## 5.11 Needle detector

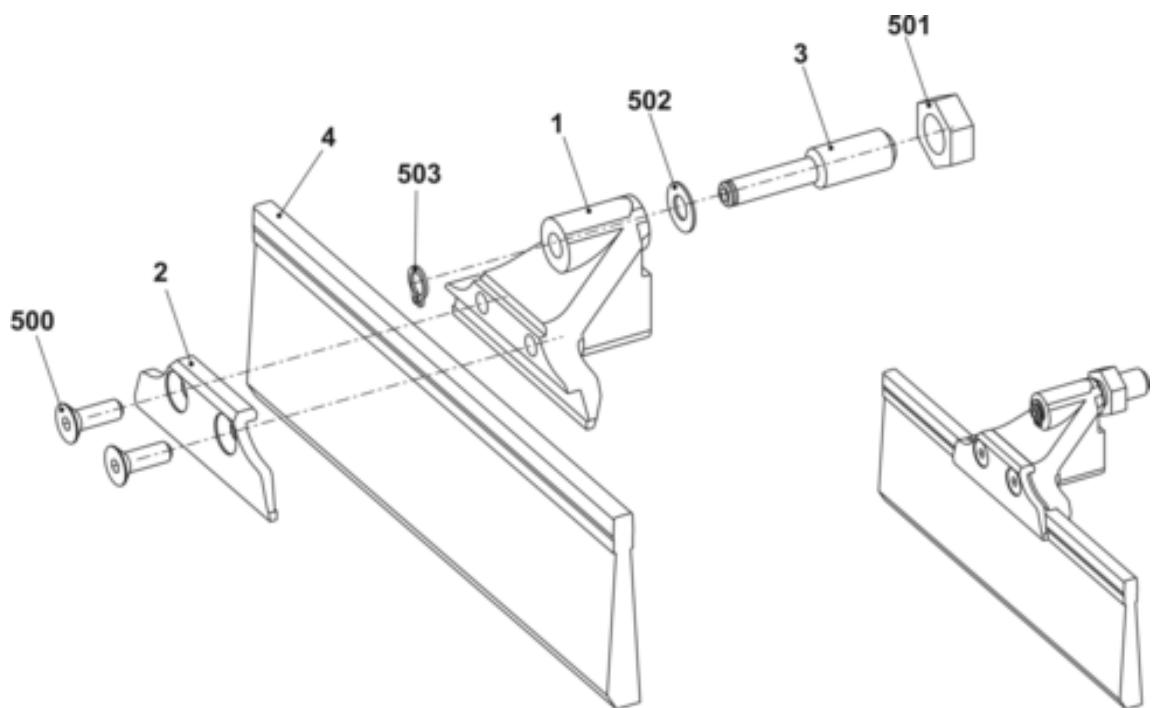
## 5.11 Needle detector

Pos	Designation	ID	Pos	Designation	ID
$\Sigma$	Needle detector E3   E4	237 675			
1	Needle detector pre-assembled	221 773	2	Sensor pre-assembled	237 674
	11 Cable of needle detector complete	221 207		21 Sensor	220 839
	12 Retainer	220 464		22 Angle	237 668
	13 Bolts	258 390		500 Pan-head screw M4x6	023 427
	14 Switch rocker	220 637		500 Pan-head screw M4x6	023 427
	510 Pan-head screw M5x10	023 247			
	511 Circlip	021 018			
	512 Pan-head screw M2x8	258 310			
	513 Setscrew M5x20	023 526			
	514 Compression spring 4,3x0,45x10	021 398			



## 5.12 Brush holder

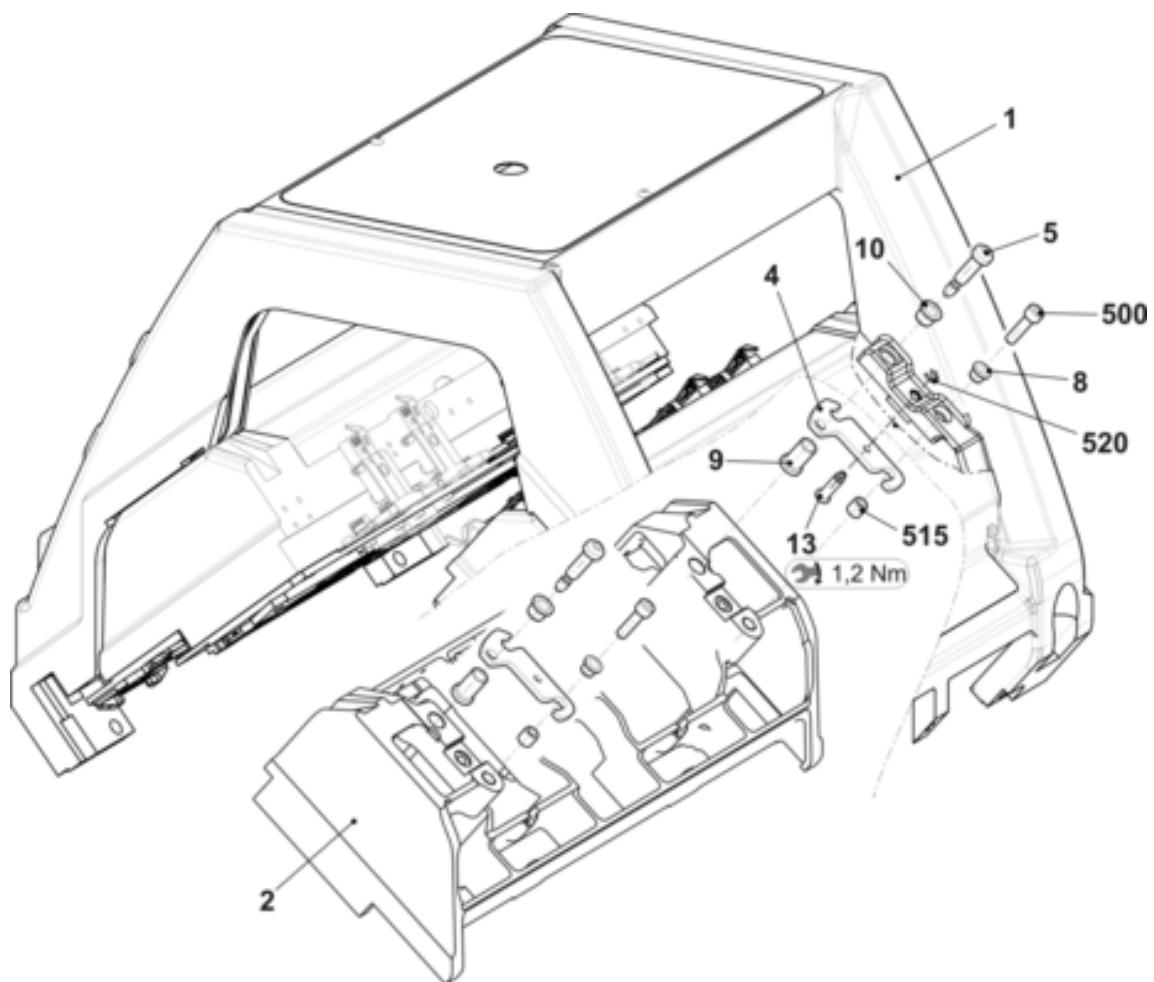
Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Brush holder complete	214 710				
1	Brush holder	213 009		500	Countersunk head screw M4x12	023 062
2	Brush clamp	213 010		501	Hexagon nut M8x5	023 750
3	Threaded rod	209 740		502	Shim ring 5x10x0,5	023 348
4	Needle brush E2-4	061 407		503	Locking ring 5x0,6	023 347



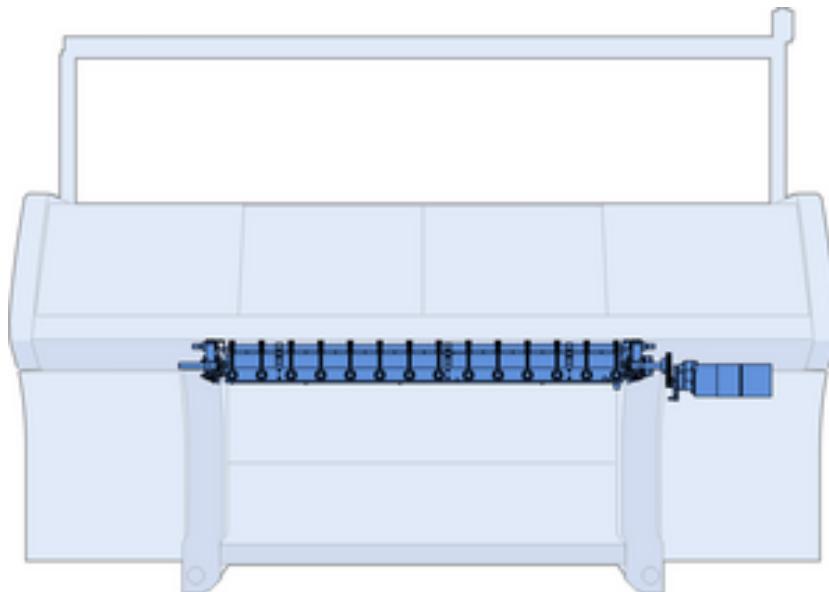
## 5.13 Carriage assembly

## 5.13 Carriage assembly

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Carriage assembly 2 cam boxes 520C	256 499		9	Bush	209 275
1	Carriage frame, 2 cam boxes	259 016		10	Bush	209 274
2	Carriage part, 2 cam boxes	243 100		13	Locating bolt linking spot	244 179
4	Shim	225 312		500	Cap screw M8x30	020 143
5	Shoulder screw	211 750		515	Threaded bush	041 863
8	Bush	207 546		520	Circlip	021 022



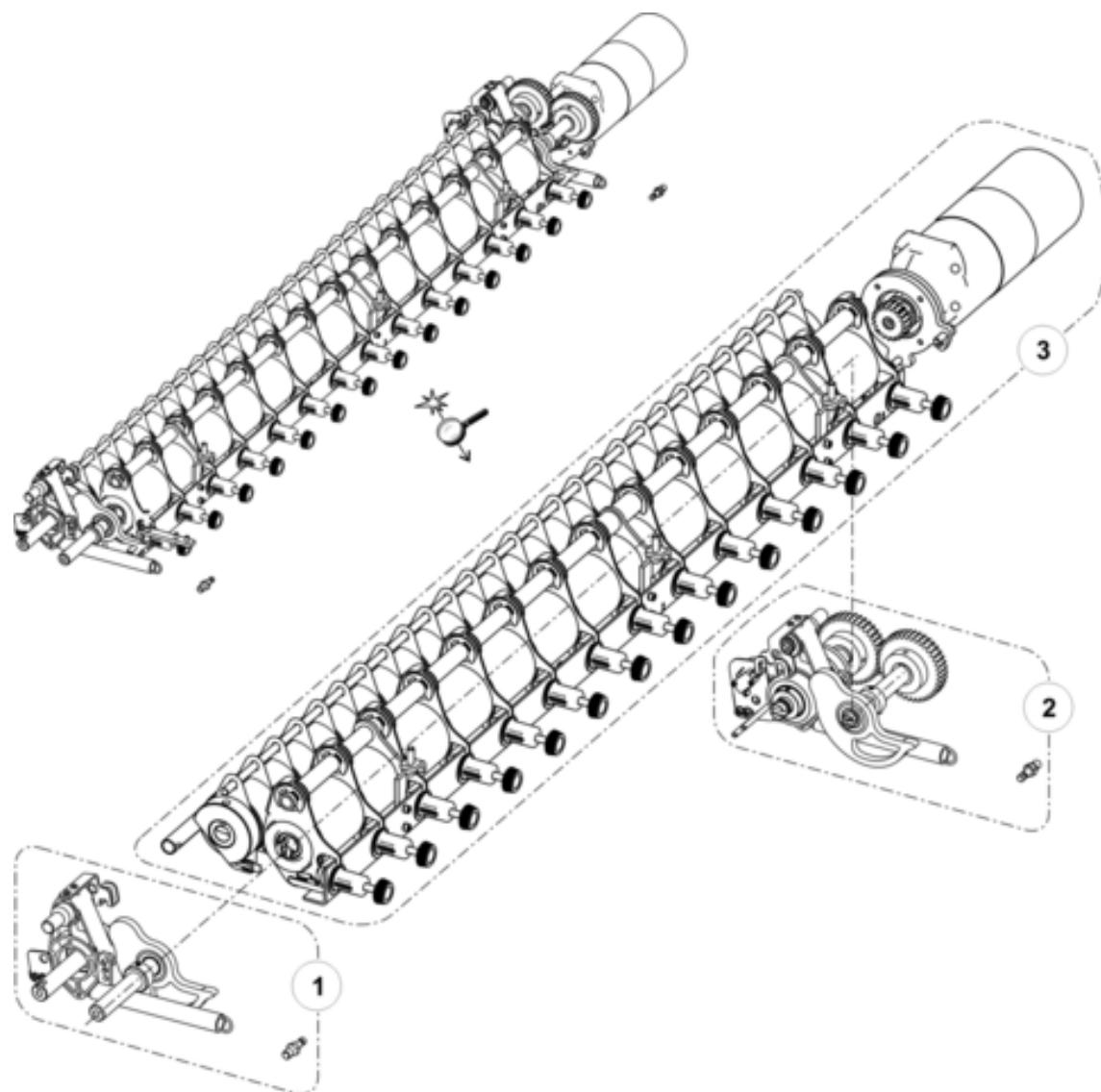
## 6 Main take-down



## 6.1 Main take-down

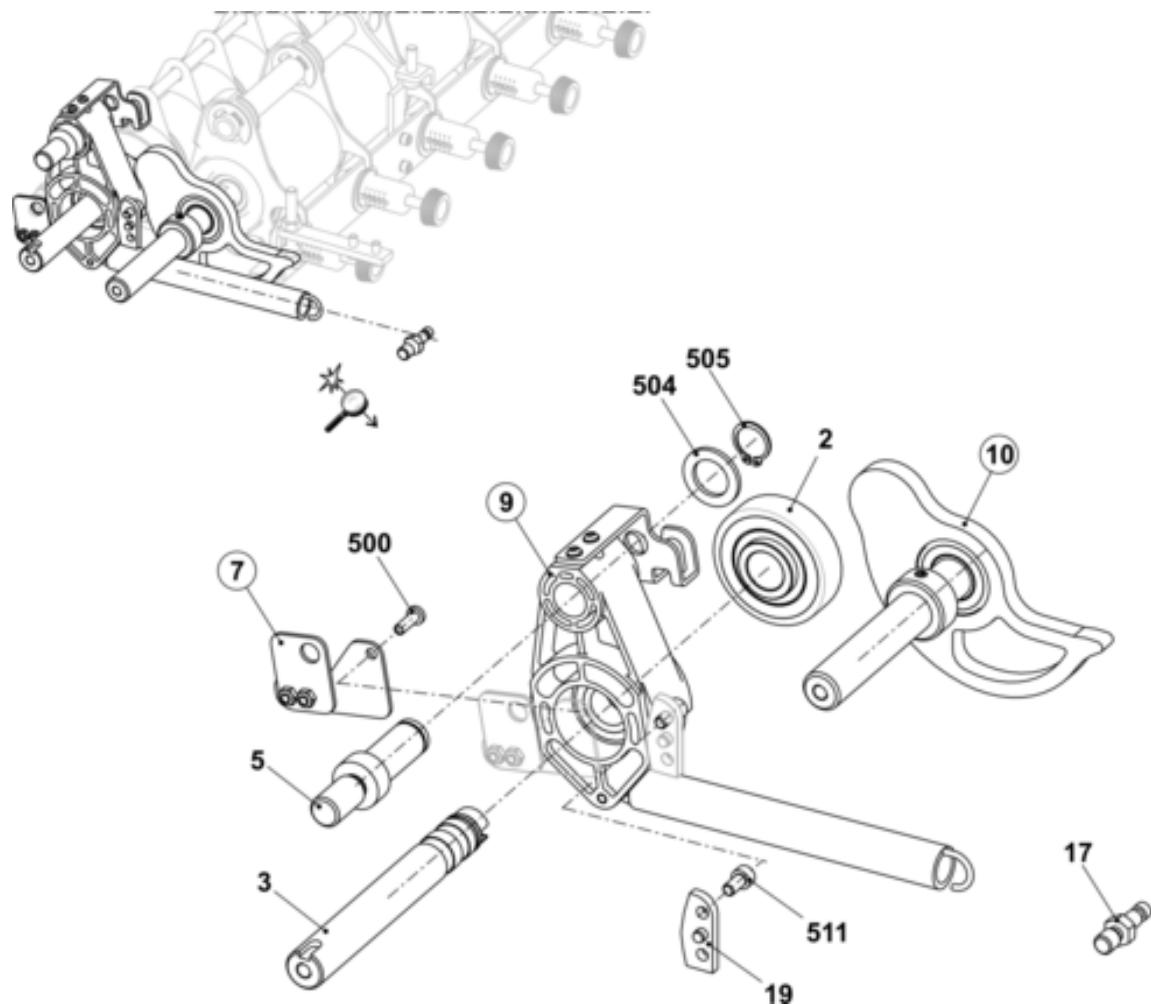
## 6.1 Main take-down

Pos	Designation	ID	Pos	Designation	ID
$\Sigma$	Main take-down		2	Main take-down on the right	253 852
1	Main take-down on the left	253 851	3	Main take-down in the middle E5-14	253 525



## 6.1.1 Main take-down on the left

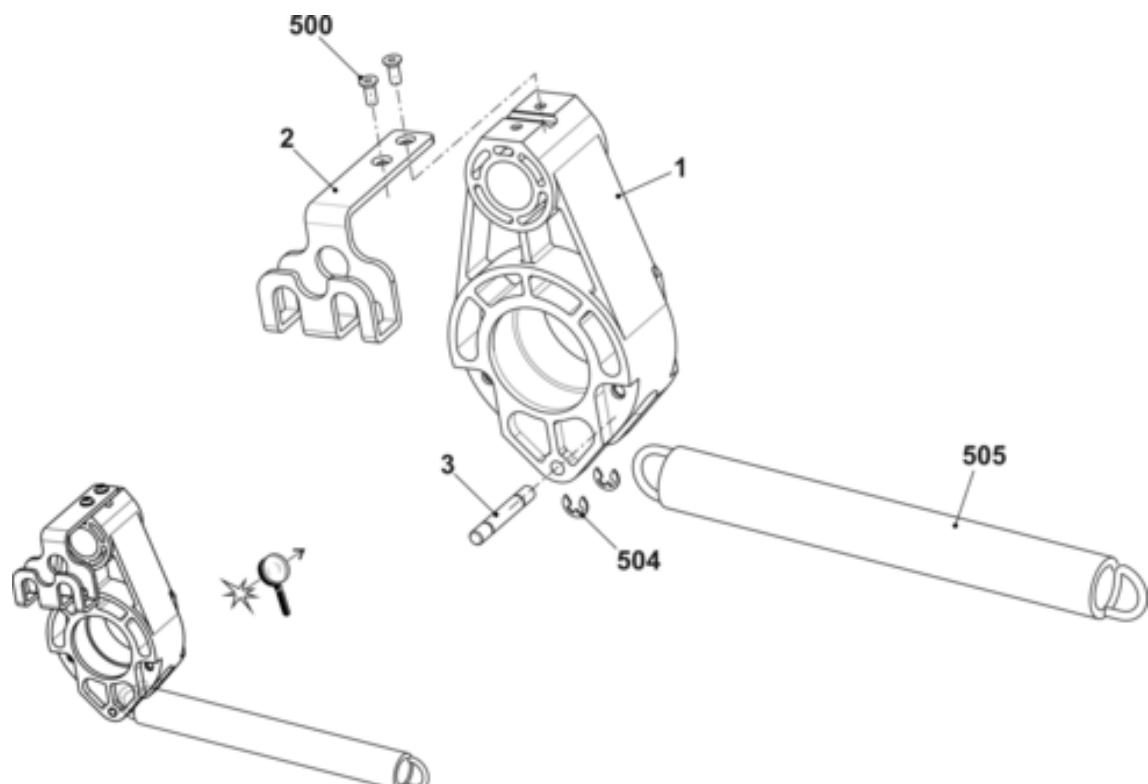
Pos	Designation	ID		Pos	Designation	ID
<b>Σ</b>	Main take-down on the left	253 851				
2	Bearing race complete	244 459		17	Spring bolt	221 143
3	Shaft on the left at the rear	221 012		19	Stop point	252 503
5	Bolts	208 538		500	Screw 50x15	251 728
7	Mounting plate on the left complete	231 725		504	Washer18	023 295
9	Swivel-mounted bearing	251 761		505	Locking ring18x1,2	020 955
10	Full floating axle on the left	251 984		511	Cap screwM6x12	020 134



## 6.1 Main take-down

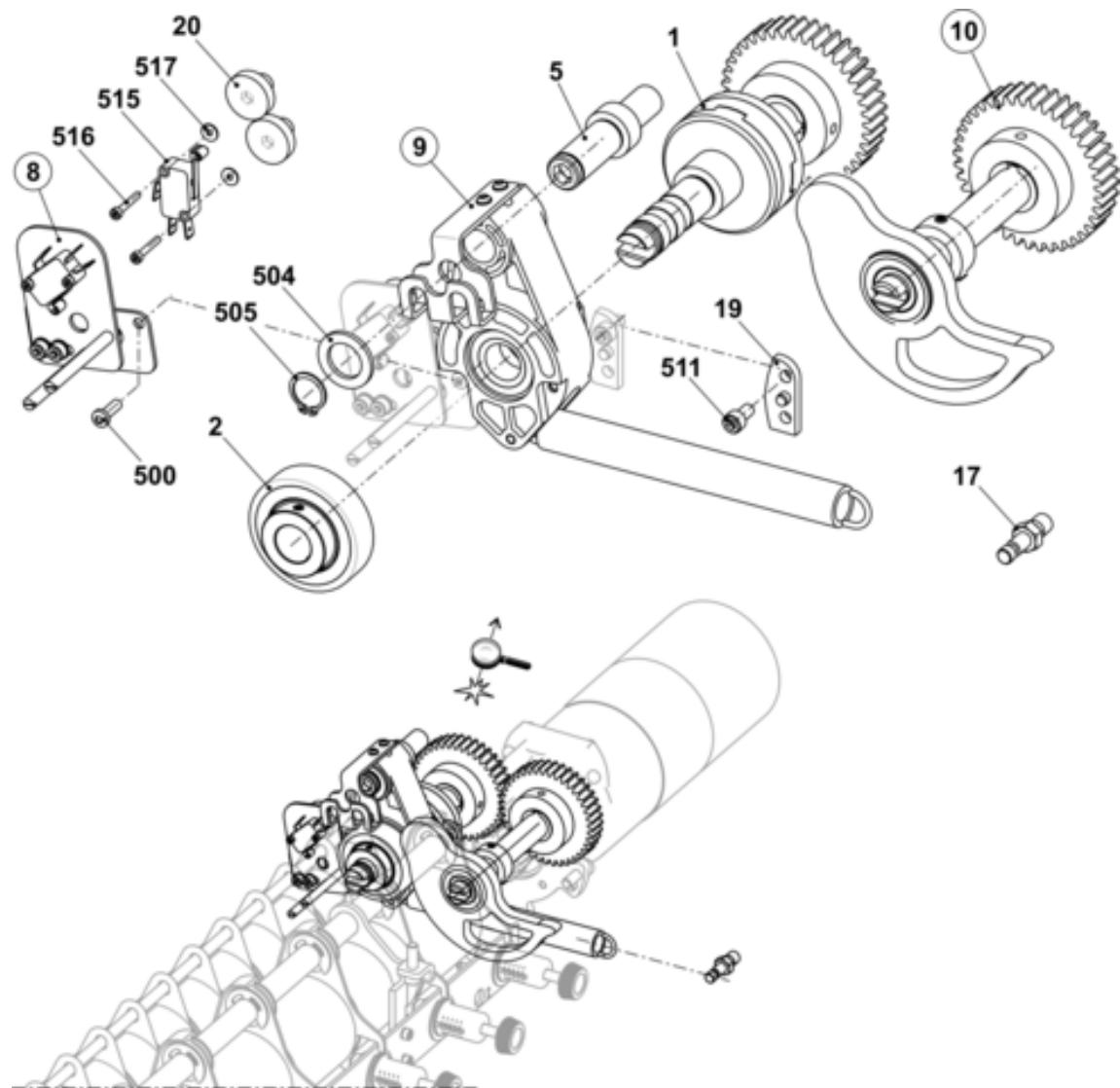
## 6.1.1.1 Swivel-mounted bearing

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



## 6.1.2 Main take-down on the right

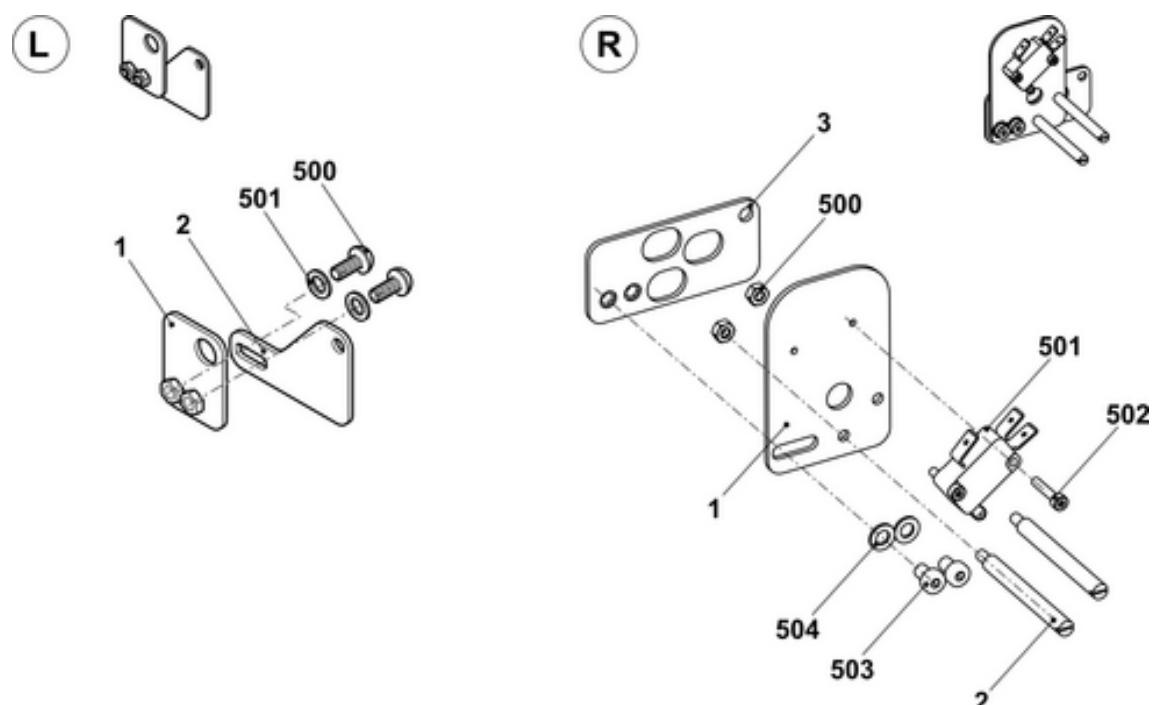
Pos	Designation	ID		Pos	Designation	ID
<b>Σ</b>	Main take-down on the right	253 852				
1	Clutch set	251 677		20	Threaded bush	222 522
2	Bearing race complete	244 459		500	Screw 50x15	251 728
5	Bolts	208 538		504	Washer18	023 295
8	Mounting plate on the right complete	240 069		505	Locking ring18x1,2	020 955
9	Swivel-mounted bearing	251 761		511	Cap screwM6x12	020 134
10	Full floating axle on the right	251 985		515	Microswitch Xgk2-s21 250	210 510
17	Spring bolt	221 143		516	Cap screwM3x20	023 221
19	Stop point	252 503		517	Washer3	023 657



## 6.1 Main take-down

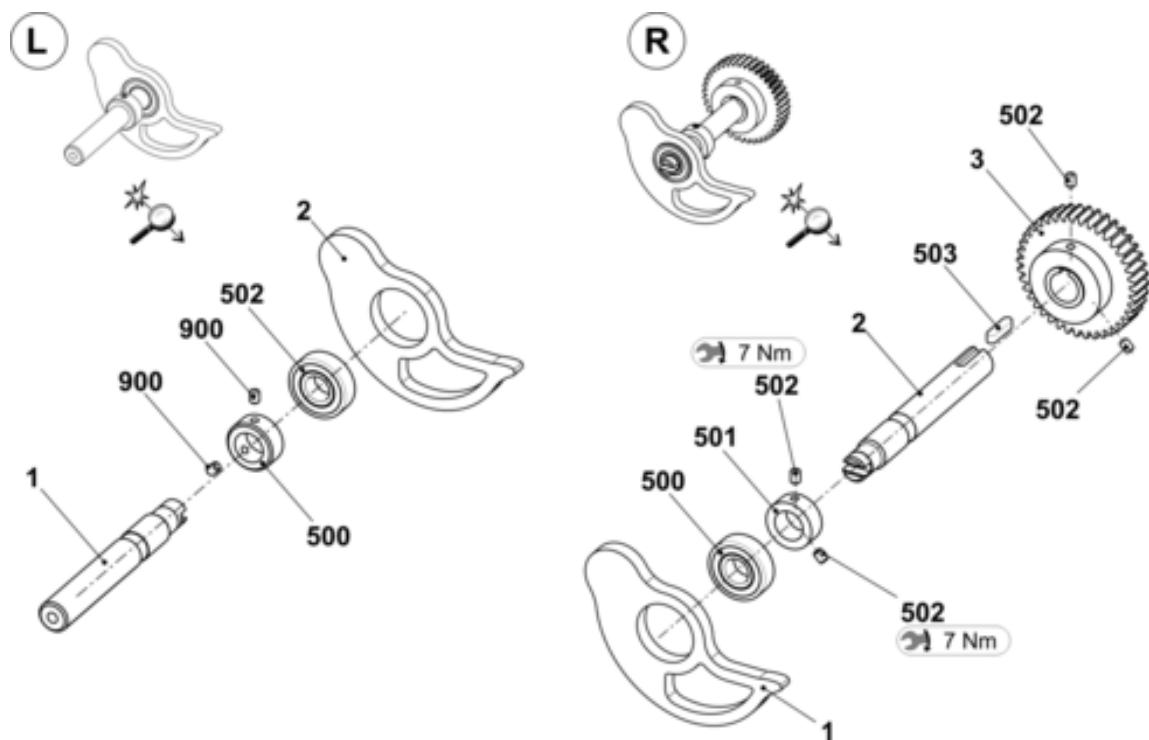
## 6.1.2.1 Mounting plate

Pos	Designation	ID		Pos	Designation	ID	
$\Sigma L$	Mounting plate on the left complete	231 725		$\Sigma R$	Mounting plate on the right complete	240 069	
1	Mounting plate on the left	231 541		1	Mounting plate on the right	240 068	
2	Retaining plate on the left	231 539		2	Shoulder screw	240 067	
500	Pan-head screw M5x10	023 247		3	Retaining plate on the right	240 066	
501	Serrated lock washer J5,3	022 489		500	Hexagon nut M4-6	022 536	
				501	Microswitch	026 259	
				502	Cap screw M3x16	022 583	
				503	Cap screw M5x8	244 278	
				504	Washer 5-200	020 871	



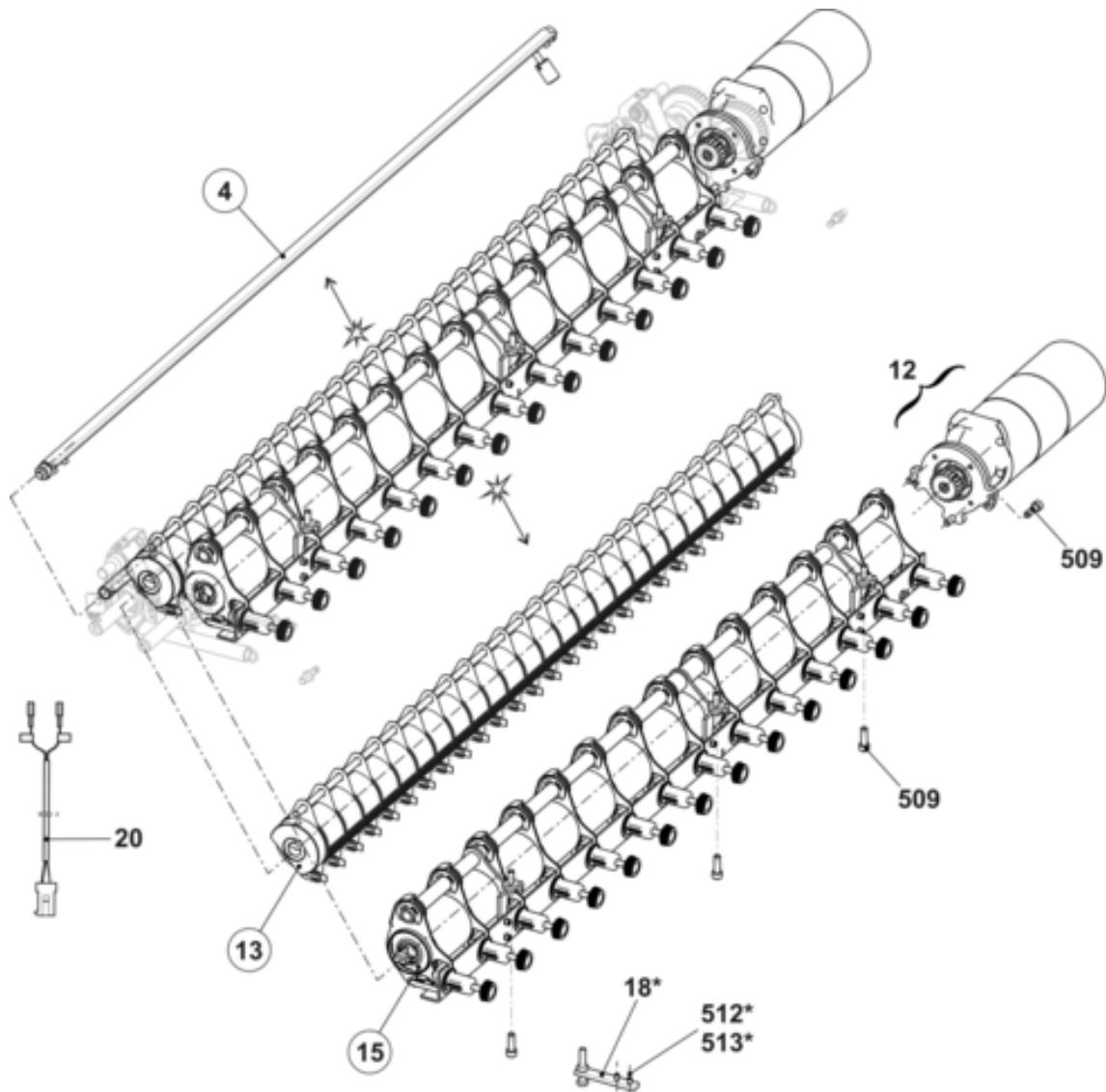
## 6.1.2.2 Full floating axle

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



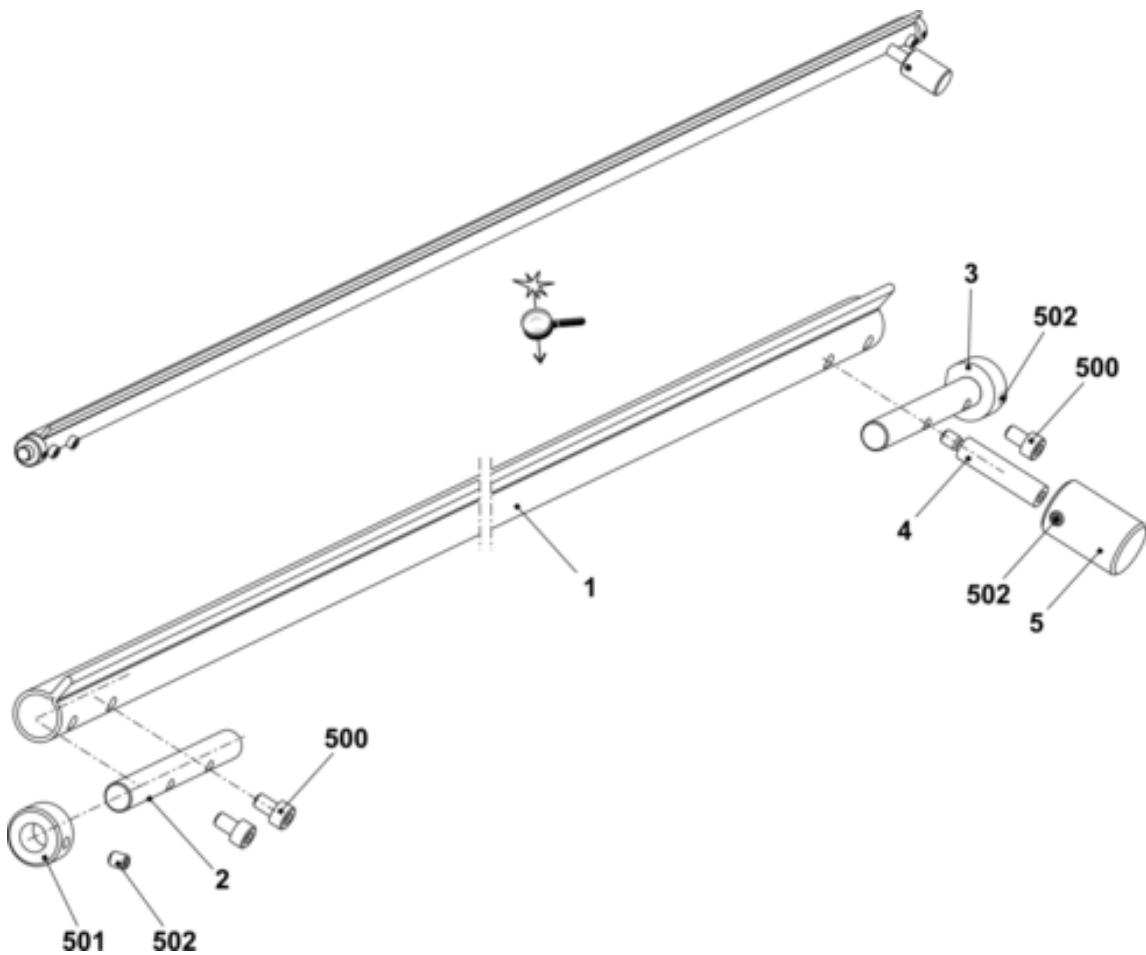
### 6.1.3 Main take-down in the middle

Pos	Designation	ID	Pos	Designation	ID
$\Sigma$	Main take-down in the middle E5-14	253 525	20 509 18* 512* 513*	Connection cable winding plate	241 703
4	Stripper angle at the rear complete	240 125		Cap screw M8x25	020 142
12	Motor take-down unit complete	253 803		Stop point	253 432
13	Take-down roller at the rear complete E5-14	253 853		Washer6	020 881
15	Take-down roller at the front complete	241 426		Pan-head screw M6x16	023 124



6.1.3.1 Stripper angle

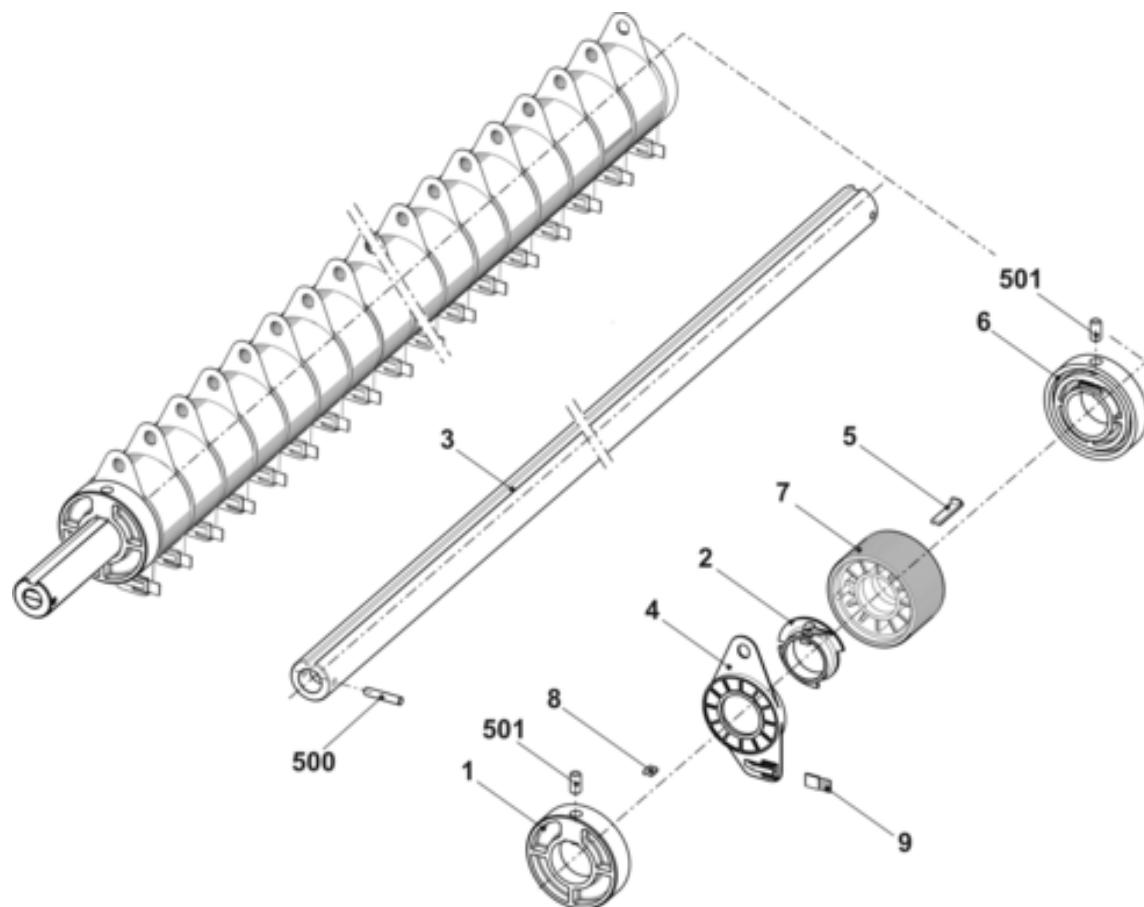
Pos	Designation	Id	Pos	Designation	Id
$\Sigma$	Stripper angle at the rear complete	240 125	5	Adjustment weight	229 248
1	Stripper angle	240 126		Cap screw M5x8	023 319
2	Wave	240 127		Set collar	020 934
3	Cam	209 278		Setscrew M5x6	022 738
4	Bolts	228 310			



## 6.1 Main take-down

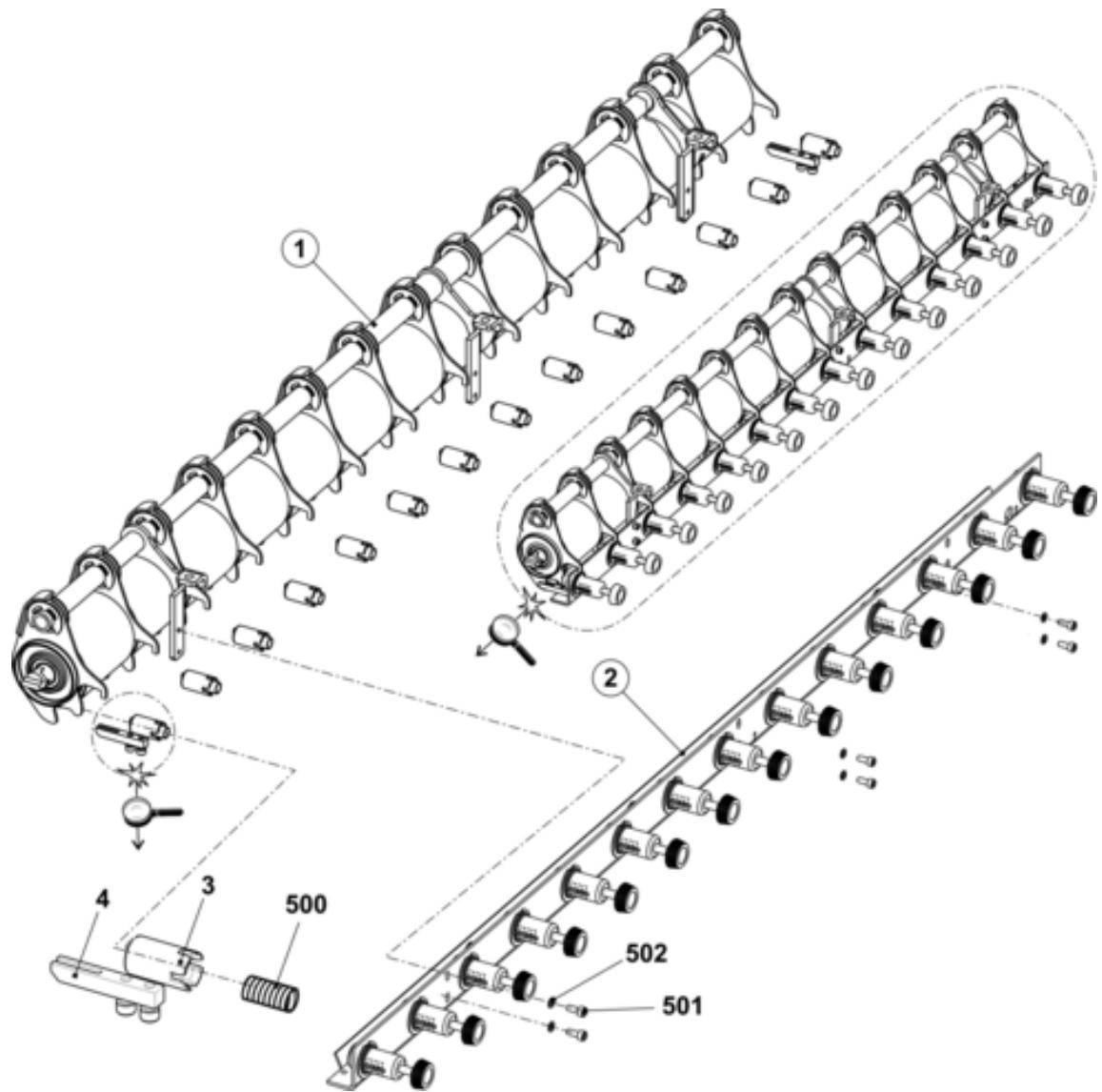
## 6.1.3.2 Rear take-down roller

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Take-down roller at the rear complete E5-14	253 853		7	Roller E5-14	206 770
1	Ring on the left	255 830		8	Spacer slide	222 062
2	Stop ring on the left	204 369		9	Brush	225 819
3	Wave	221 011		12	Rod	253 301
4	Stripper	241 612		500	Dowel pin 6x32	020 685
5	Spacer slide	240 104		501	Setscrew M8x16	258 910
6	Ring on the right	255 831				



## 6.1.3.3 Front take-down roller

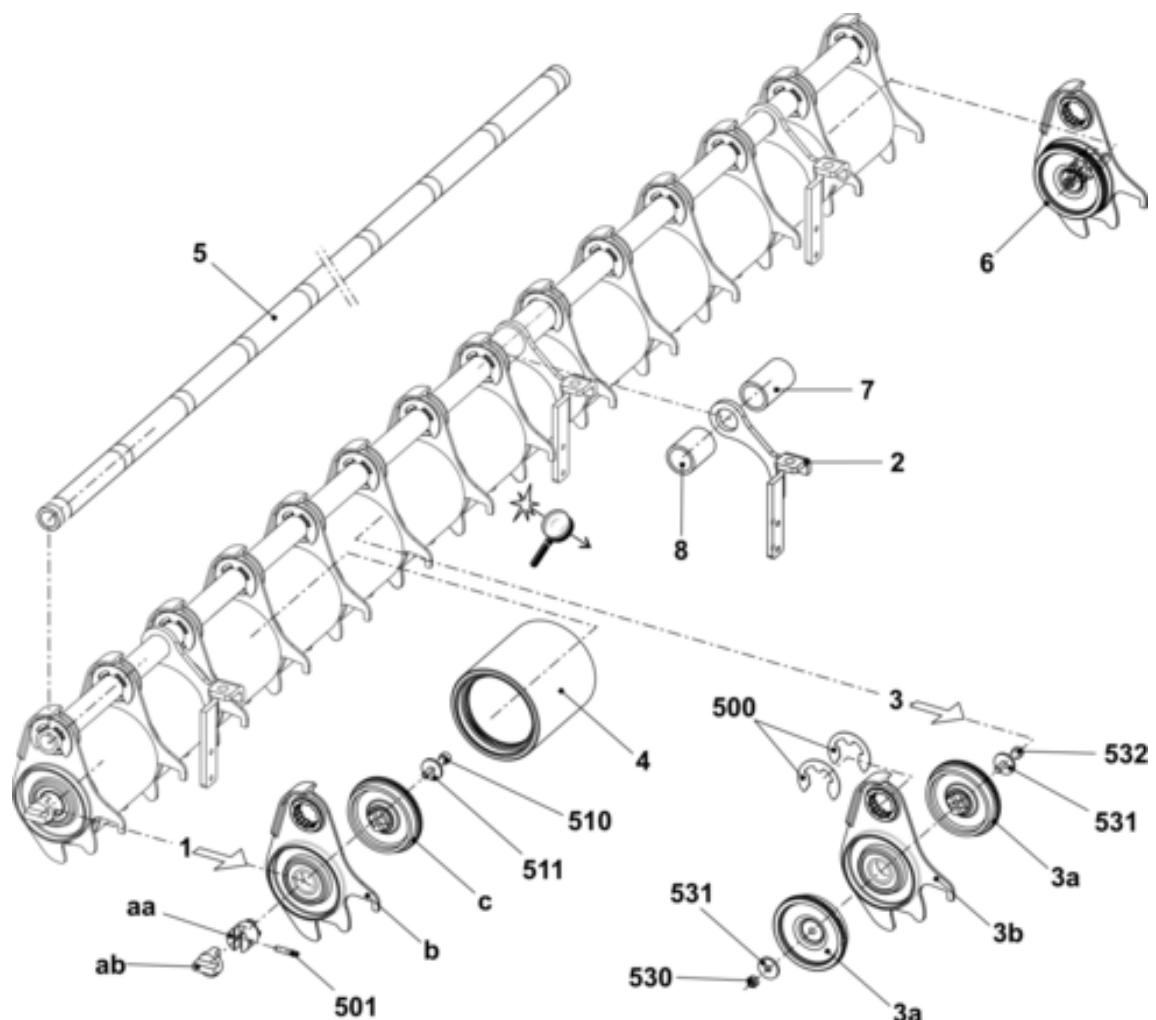
Pos	Designation	Id		Pos	Designation	Id
$\Sigma$	Take-down roller at the front complete	241 426		4	Locating piece	221 935
1	Take-down roller at the front	221 243		500	Compression spring 1x10x30	023 741
2	Angle rail complete	241 425		501	Cap screw M5x12	020 132
3	Pressure sleeve	220 911		502	Washer 5-200	020 880



## 6.1 Main take-down

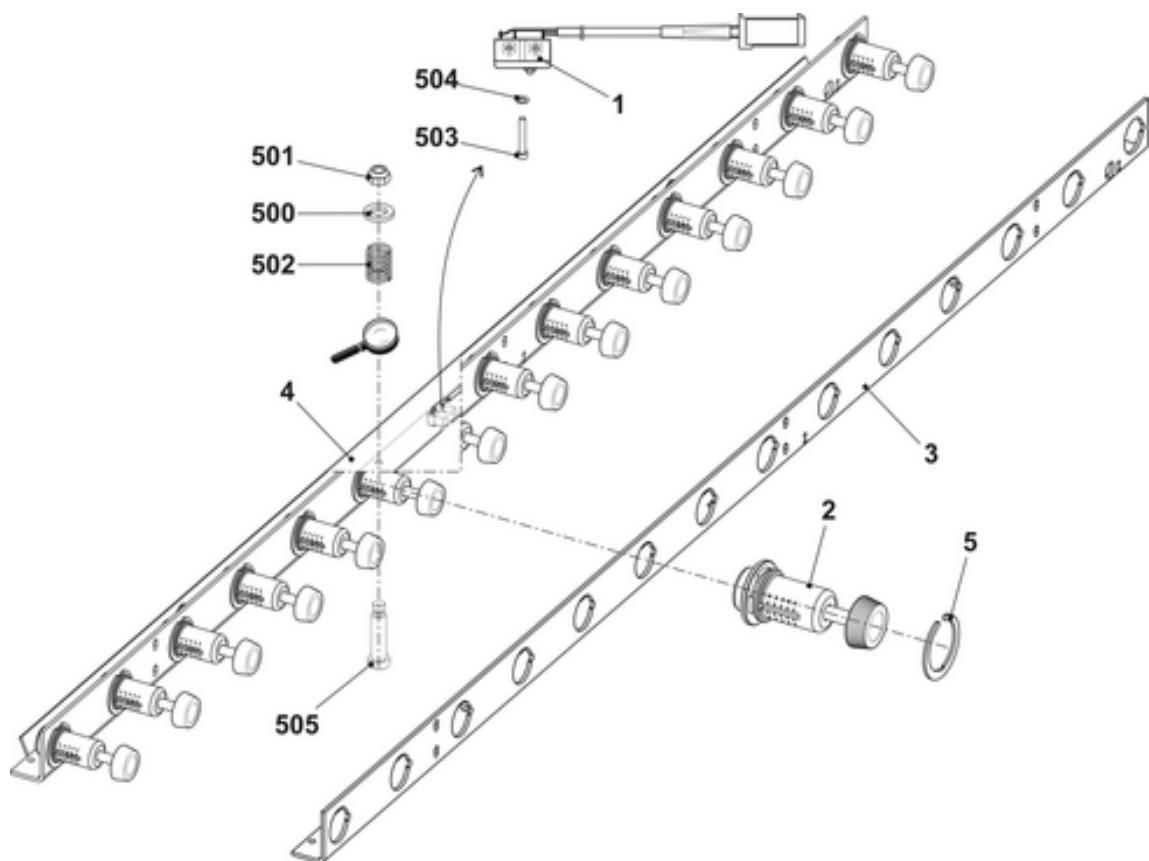
## 6.1.3.3.1 Front roller elements

Pos	Designation	Id		Pos	Designation	Id
$\Sigma$	Take-down roller at the front	221 243				
1	Bearing support on the left complete	221 225		4	Roller	220 905
aa	Universal joint	221 137		5	Tube	221 092
ab	adaptor	221 132		6	Bearing support on the right complete	221 240
b	Bearing support	220 913		aa	Universal joint	221 137
c	Gear wheel	220 910		ab	adaptor	221 132
501	Spring dowel sleeve 4x20	023 551		b	Bearing support	220 913
510	Cap screw M5x20	020 133		c	Gear wheel	220 910
511	Washer5	023 542		501	Spring dowel sleeve 4x20	023 551
2	Support	251 557		510	Cap screw M5x20	020 133
3	Bearing support complete	221 241		511	Washer5	023 542
3b	Bearing support	220 913		7	Spacer pipe on the right	253 407
3a	Gear wheel	220 910		8	Spacer pipe on the left	253 408
530	Hexagon nut M5	023 541		500	Circlip	021 025
531	Washer5-100hv	023 542				
532	Cap screw M5x30	022 396				



### 6.1.3.3.2 Pressure angle rail

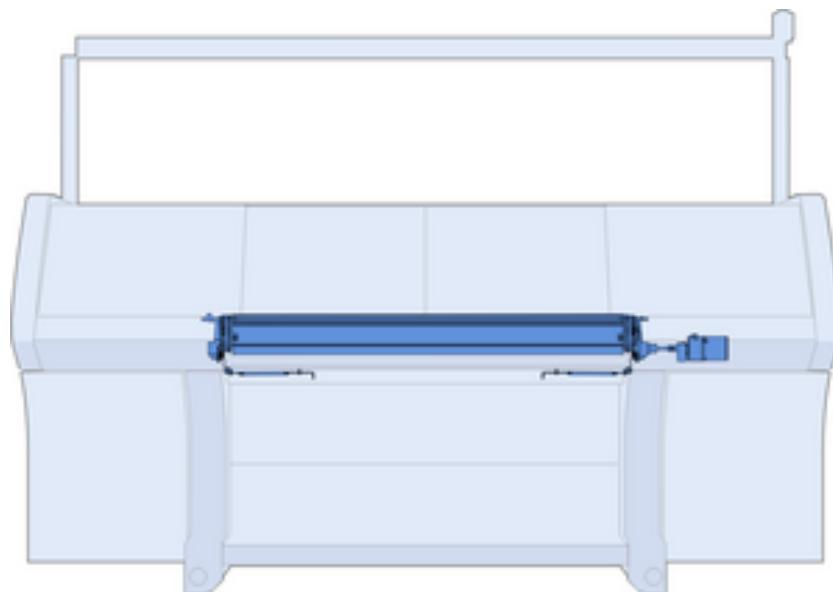
Pos	Designation	Id	Pos	Designation	Id
$\Sigma$	Angle rail complete	241 425	500	Washer6-200	022 431
1	Switch complete with cable	221 265	501	Hexagon nut M5-8	023 541
2	Spring flange	242 327	502	Compression spring 0,8x9,2x27,5	023 537
3	Angle rail	241 773	503	Cap screwM2x12	023 522
4	Winding plate	221 101	504	Washer2-200	022 908
5	Locking ring	242 325	505	Shoulder screw M5x20x5	023 675



6.1 Main take-down

Notes:

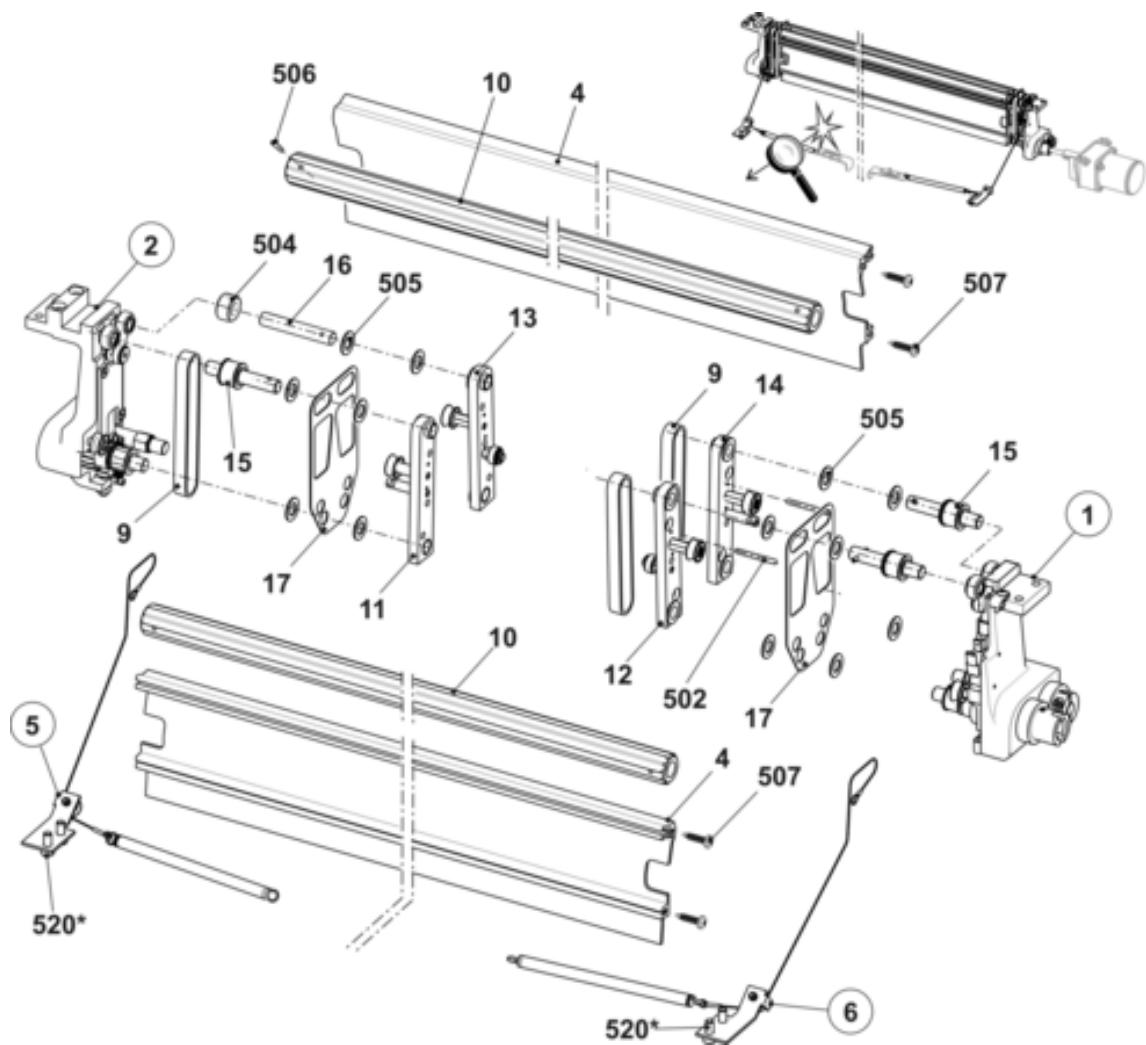
## 7 Auxiliary take-down



## 7.1 Auxiliary take-down pre-assembled

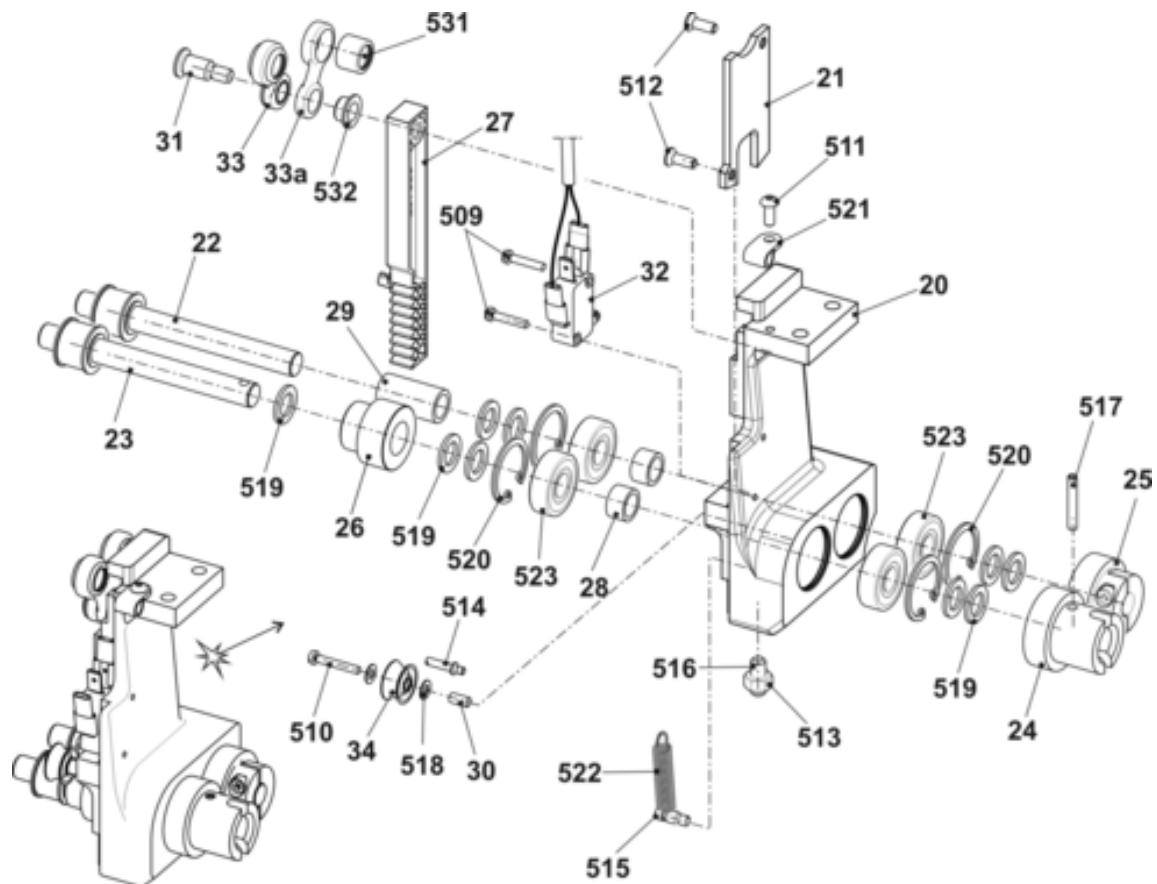
## 7.1 Auxiliary take-down pre-assembled

Pos	Designation	Id		Pos	Designation	Id
$\Sigma$	Auxiliary take-down pre-assembled	254 061		14	Lever at the rear on the right	227 260
1	Bearing on the right complete	239 996		15	Toothed belt pulley complete	226 708
2	Bearing on the left complete	239 999		16	Bolts	227 914
4	Guide plate	213 362		17	Protective plate	225 754
5	Metal angle on the left complete	225 013		502	Shoulder screw M3x27x32	023 634
6	Metal angle on the right complete	225 014		504	Set collar	020 934
9	Toothed belt 10T5/260	208 832		505	Stop disk	023 646
10	Take-down roller	224 891		506	Spring dowel sleeve 3x20	020 776
11	Lever at the front on the left	227 263		507	Sheet metal screw St4,8x22-	023 259
12	Lever at the front on the right	227 262		520*	Cap screw M6x12	020 134
13	Lever at the rear on the left	227 261				



## 7.2 Right bearing of the auxiliary take-down

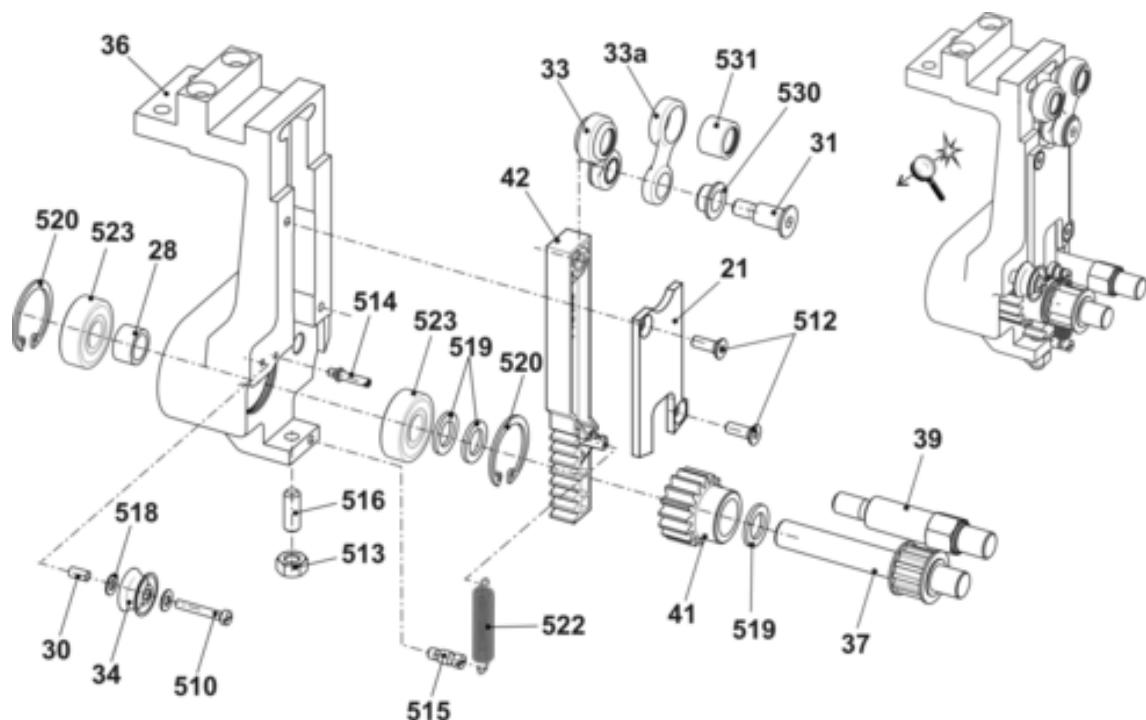
Pos	Designation	Id	Pos	Designation	Id
$\Sigma$	Bearing on the right complete		532	Slide bearing GFM-081014-06	023 358
20	Bearing block on the right	258 913	34	Roller deflector	218 805
21	Cover	257 466	500	Cap screw M3x16	022 560
22	Drive shaft complete	227 857	510	Cap screw M3x20	022 448
23	Drive shaft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



## 7.3 Left bearing of the auxiliary take-down

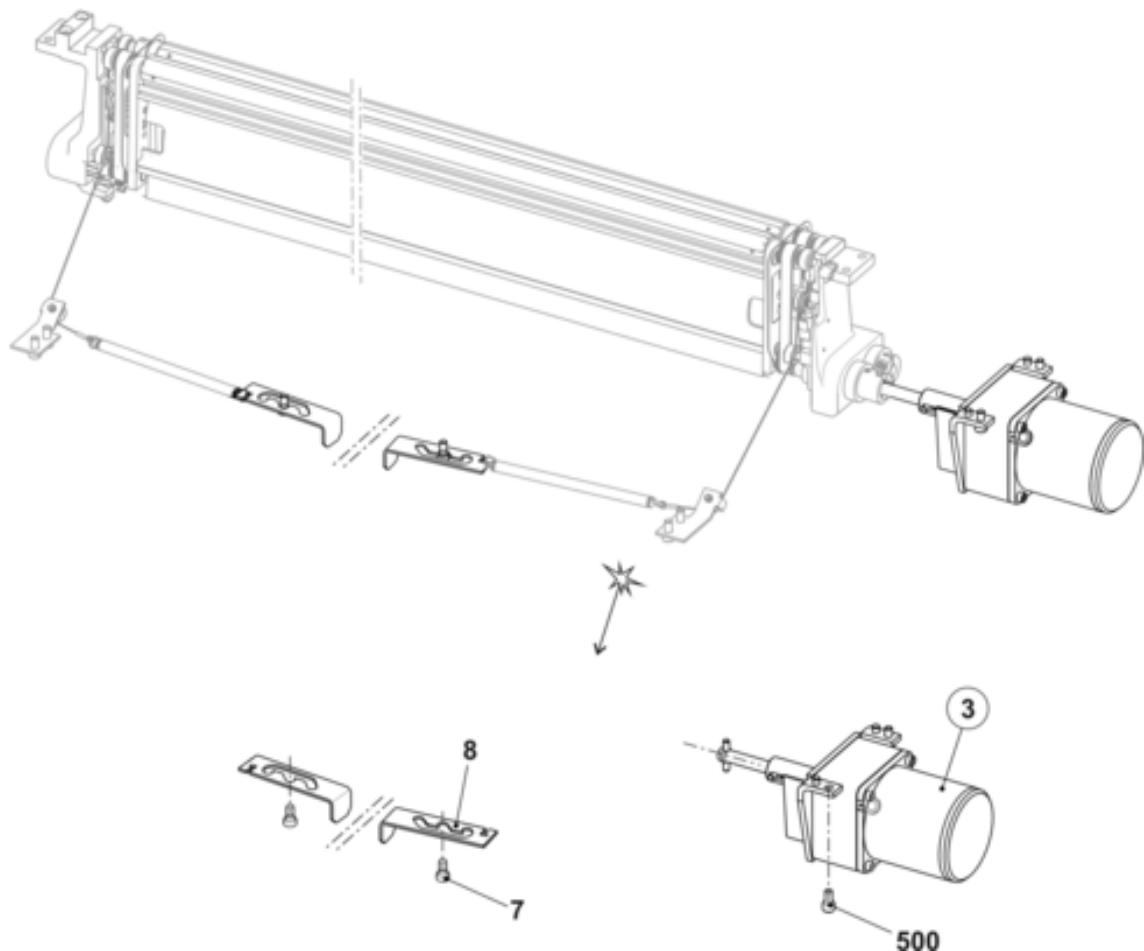
### 7.3 Left bearing of the auxiliary take-down

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



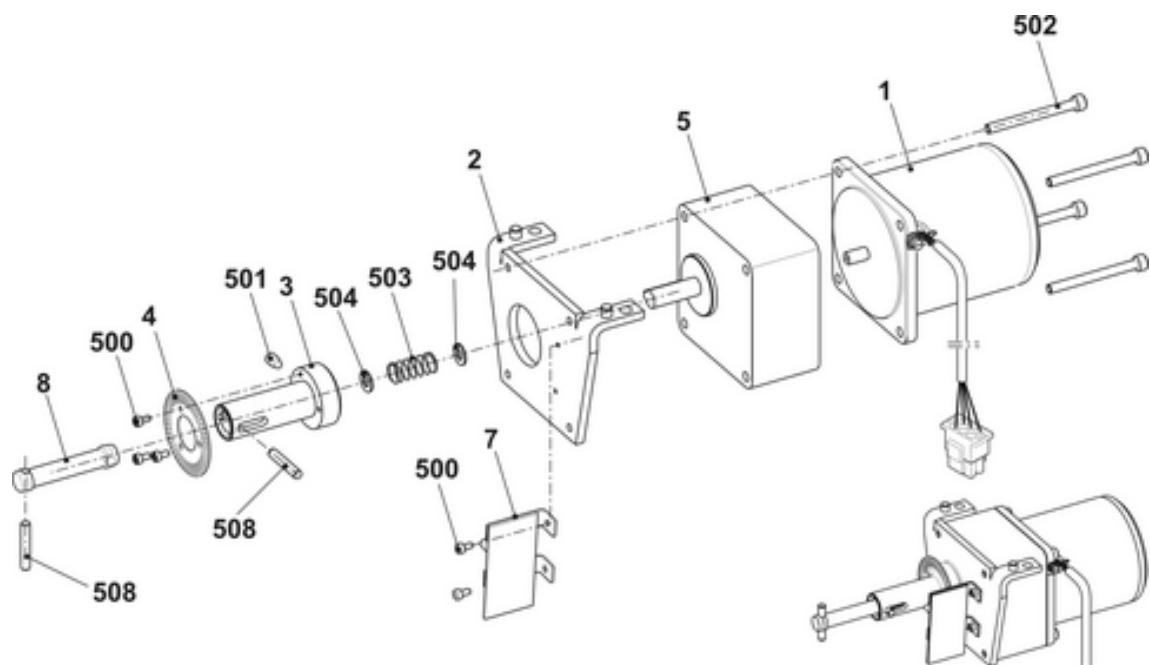
## 7.4 Auxiliary take-down in the middle

Pos	Designation	Id		Pos	Designation	Id
$\Sigma$	Auxiliary take-down in the middle	254 062		8	Detent plate	222 040
3	Take-down motor complete auxiliary take-down	214 449		500	Cap screw M6x12	020 134
7	Shoulder screw	207 101				



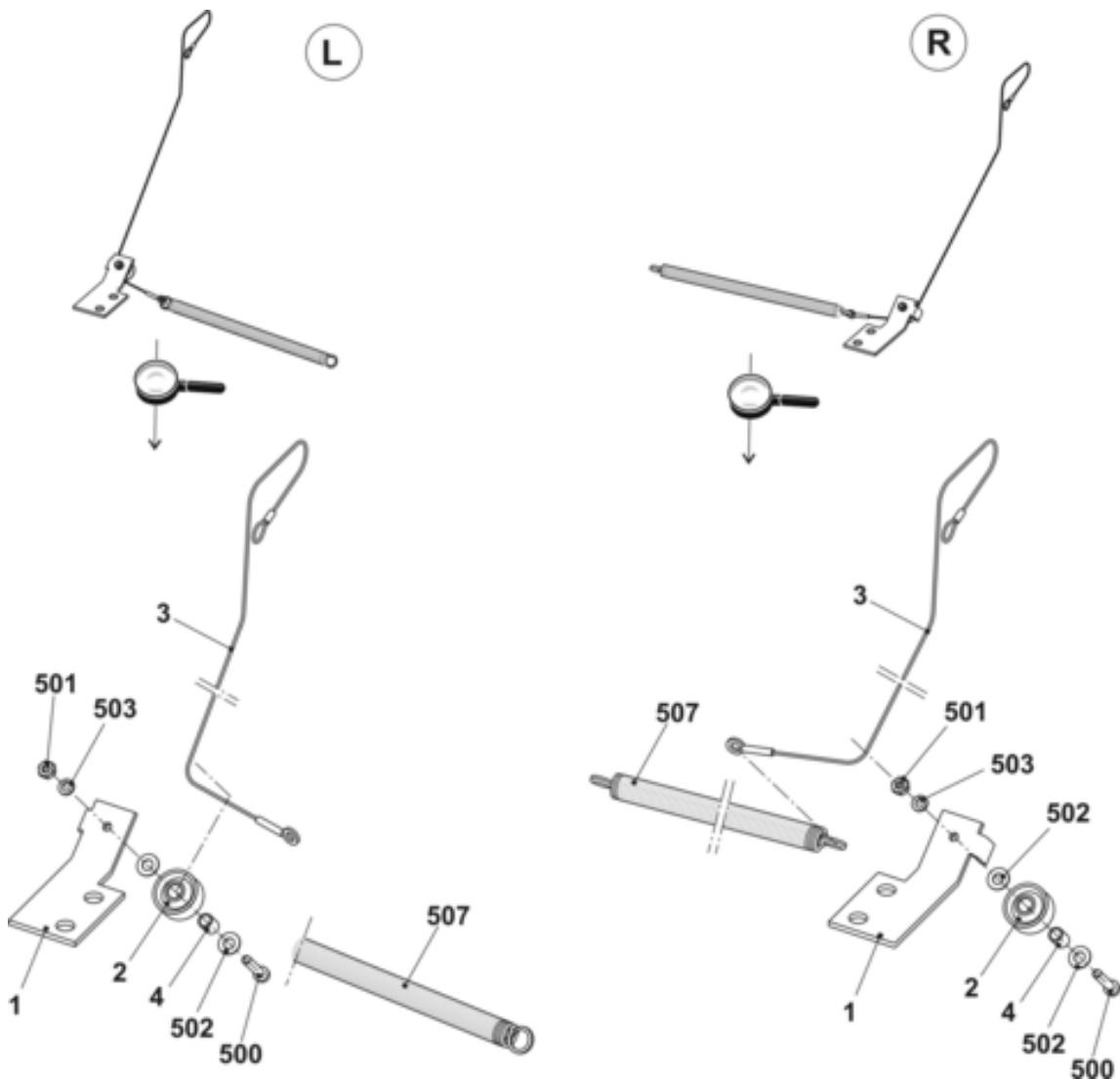
## 7.5 Motor

Pos	Designation	Id		Pos	Designation	Id
$\Sigma$	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	Setscrew 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 unit 4GN36K	220 353		504	Shim ring 6x12x1	023 444
7	Light barrier Auxiliary take-down	217 462		508	Dowel pin 5x28	241 686



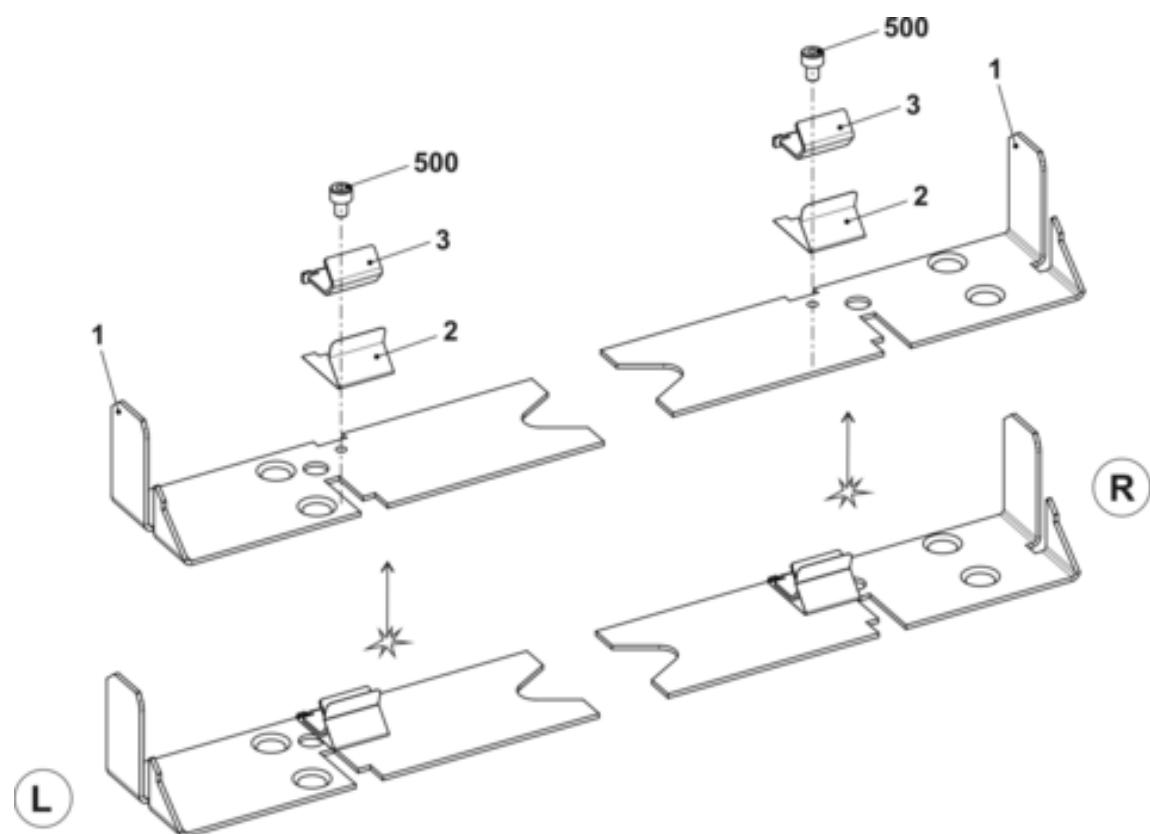
## 7.6 Metal angle on the left and right complete

Pos	Designation	Id	Pos	Designation	Id
$\Sigma L$	Metal angle on the left complete	225 013	$\Sigma R$	Metal angle on the right complete	225 014
1	Metal angle on the left	224 920	1	Metal angle on the right	224 931
2	Roller deflector	218 805	2	Roller deflector	218 805
3	Fine rope	224 977	3	Fine rope	224 977
4	Sleeve	227 867	4	Sleeve	227 867
500	Cap screw M3x16	022 560	500	Cap screw M3x16	022 560
501	Hexagon nut M3-6	022 564	501	Hexagon nut M3-6	022 564
502	Shim ring 4x8x0,5	023 384	502	Shim ring 4x8x0,5	023 384
503	Spring washer A3	021 005	503	Spring washer A3	021 005
507	Tension spring 8x0,9x75	021 287	507	Tension spring 8x0,9x75	021 287

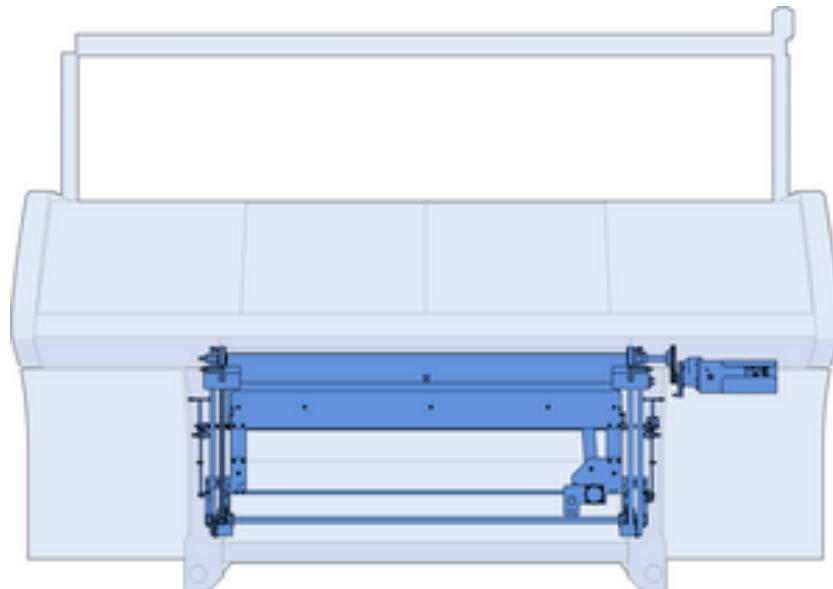


## 7.7 Yarn brake at clamping and cutting bed

Pos	Designation	Id		Pos	Designation	Id
$\Sigma L$	Yarn brake on the left	256 740		$\Sigma R$	Yarn brake on the right	256 715
1	Cover on the left	256 739		3	Cover on the right	256 714
2	Leaf spring	256 712		1	Leaf spring	256 712
3	Test clamping plate	256 713		2	Test clamping plate	256 713
500	Cap screw M4x6	023 067		500	Cap screw M4x6	023 067

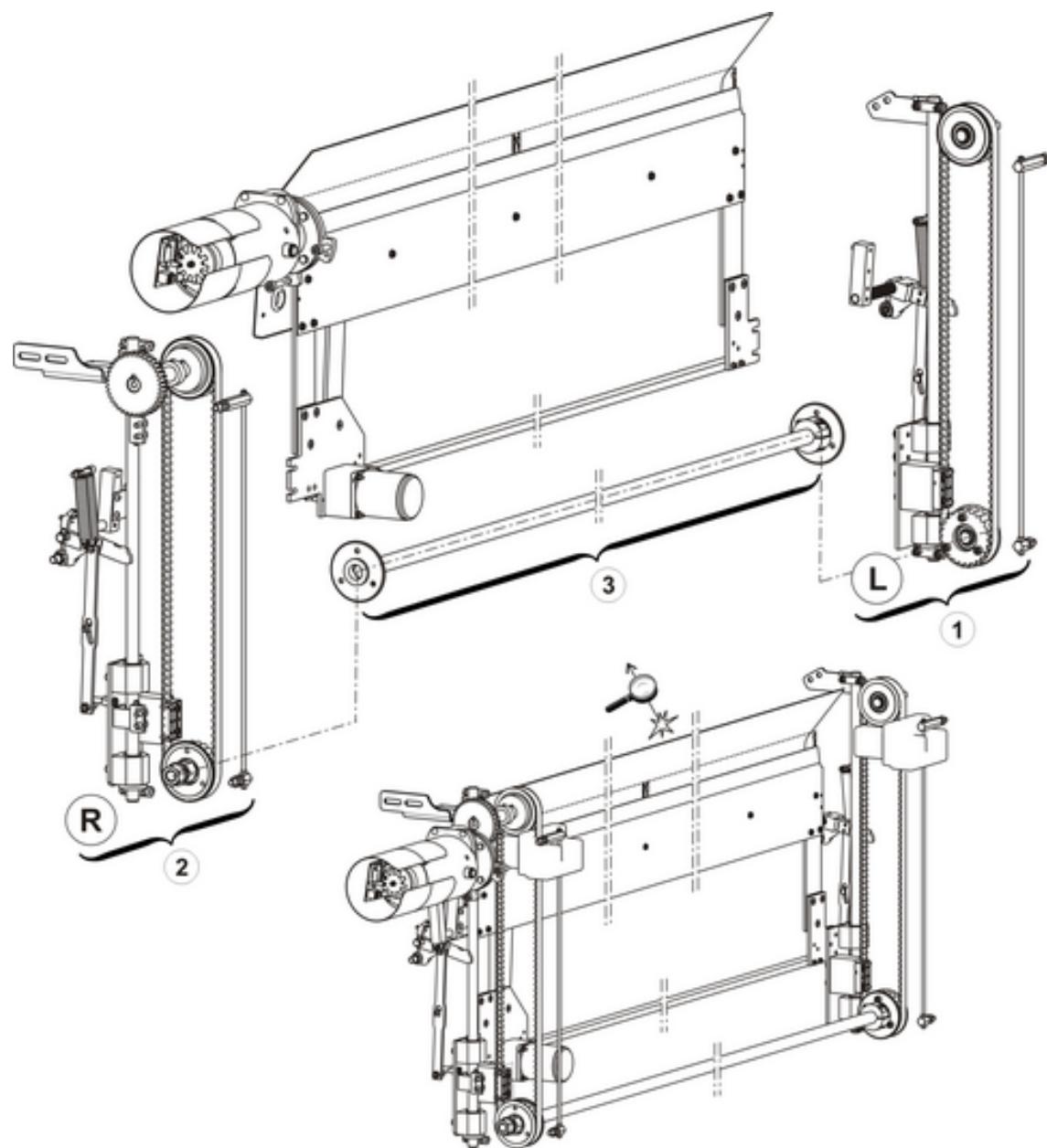


## 8 Comb take-down



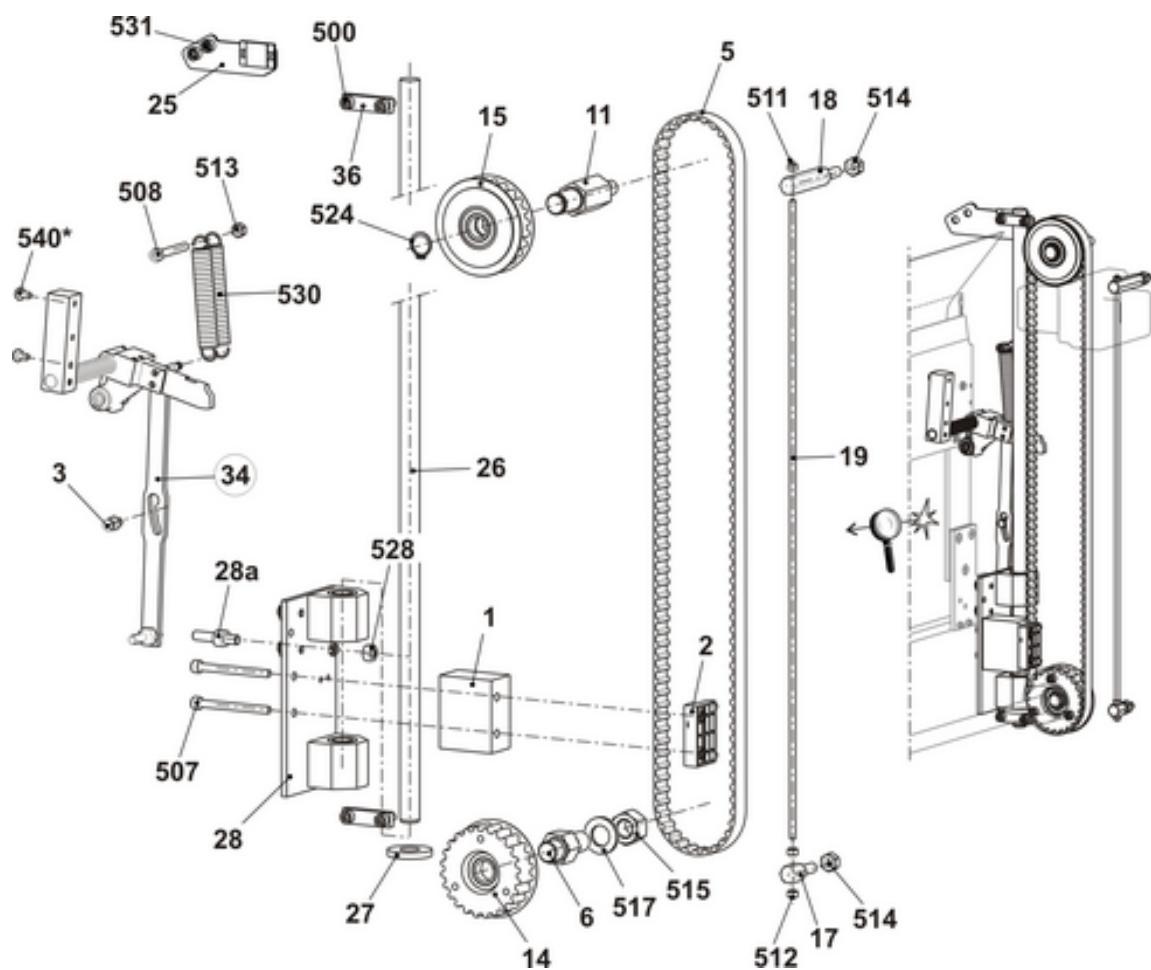
## 8.1 Comb take-down

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Comb take-down		3	Remaining parts of comb take-down E3	253 622	
1	Comb take-down on the left	256 834		Remaining parts of comb take-down E7 (E3,5)	253 587	
2	Comb take-down on the right	256 835		Remaining parts of comb take-down E8 (E4)	253 588	



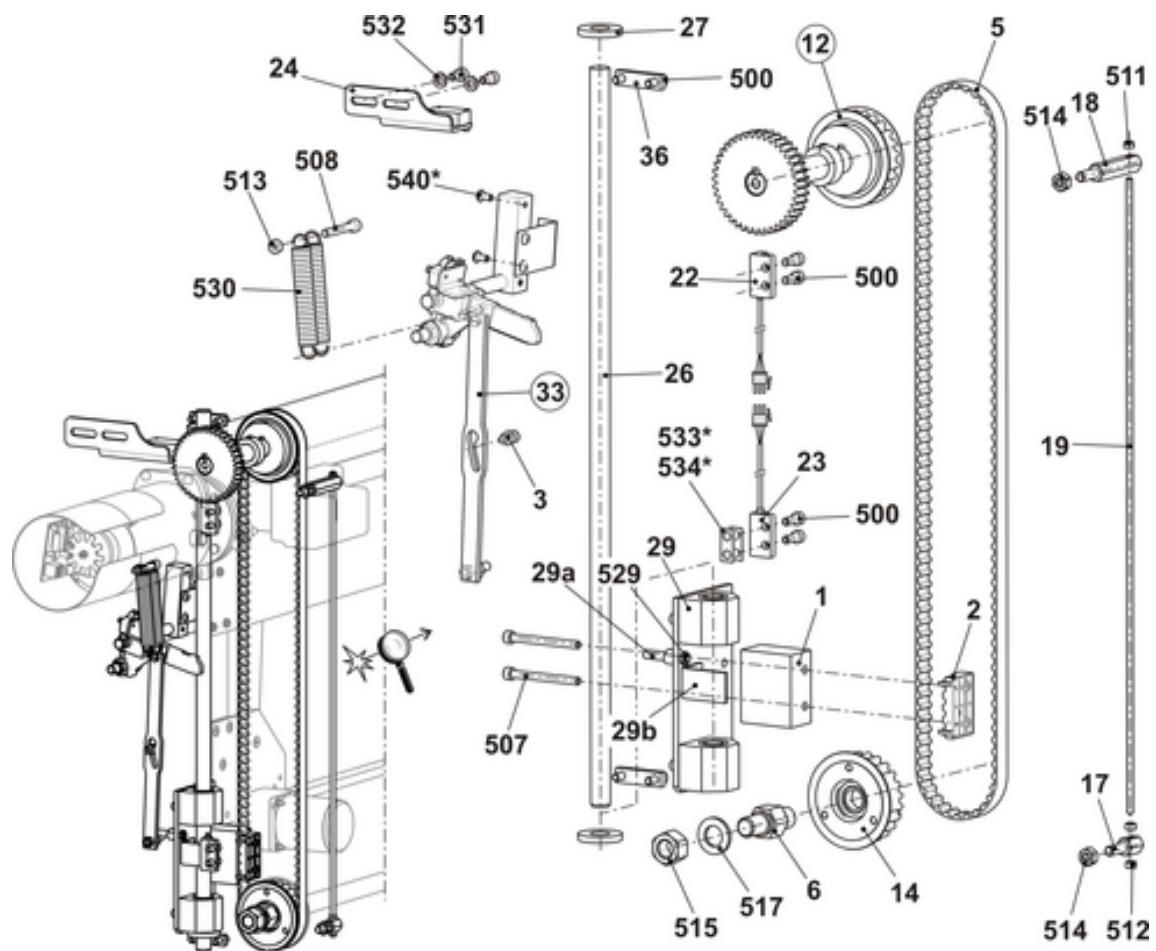
## 8.2 Comb take-down on the left

Pos	Designation	Id		Pos	Designation	Id
Σ	Comb take-down on the left	256 834				
1	Clamping piece	209 379		528	Hexagon nut M8-6	020 838
2	Pressure plate	241 967		34	Swivel lever on the left	252 859
3	Bolts	222 152		36	Clamping plate	227 159
5	Toothed belt 16T10/1300	240 065		500	Cap screw M6x16	020 135
6	Eccentric pin	222 320		507	Cap screw M6x65	240 162
11	Bolts	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	Washer16	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*	Pan-head screw M5x10	023 247



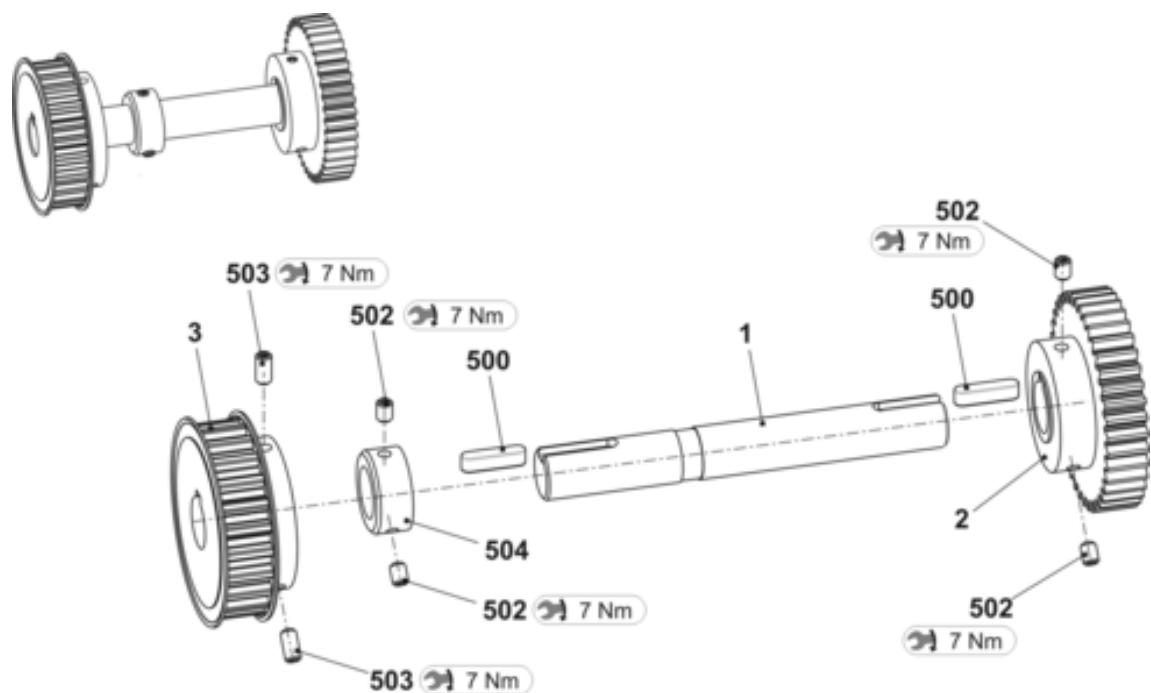
## 8.3 Comb take-down on the right

Pos	Designation	Id		Pos	Designation	Id
$\Sigma$	Comb take-down on the right	256 835				
1	Clamping piece	209 379		529	Hexagon nut M8-6	020 838
2	Pressure plate	241 967		33	Swivel lever on the right	252 858
3	Bolts	222 152		36	Clamping plate	227 159
5	Toothed 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	Washer 16	020 876
24	Light barrier 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	Washer 6	020 872
29	Comb guide on the right	255 424		533*	Shim 0,2x12x27	023 735
29a	Driving bolt	255 427		534*	Shim 0,5x12x27	023 736
29b	Angle	240 112		540*	Pan-head screw M5x10	023 247



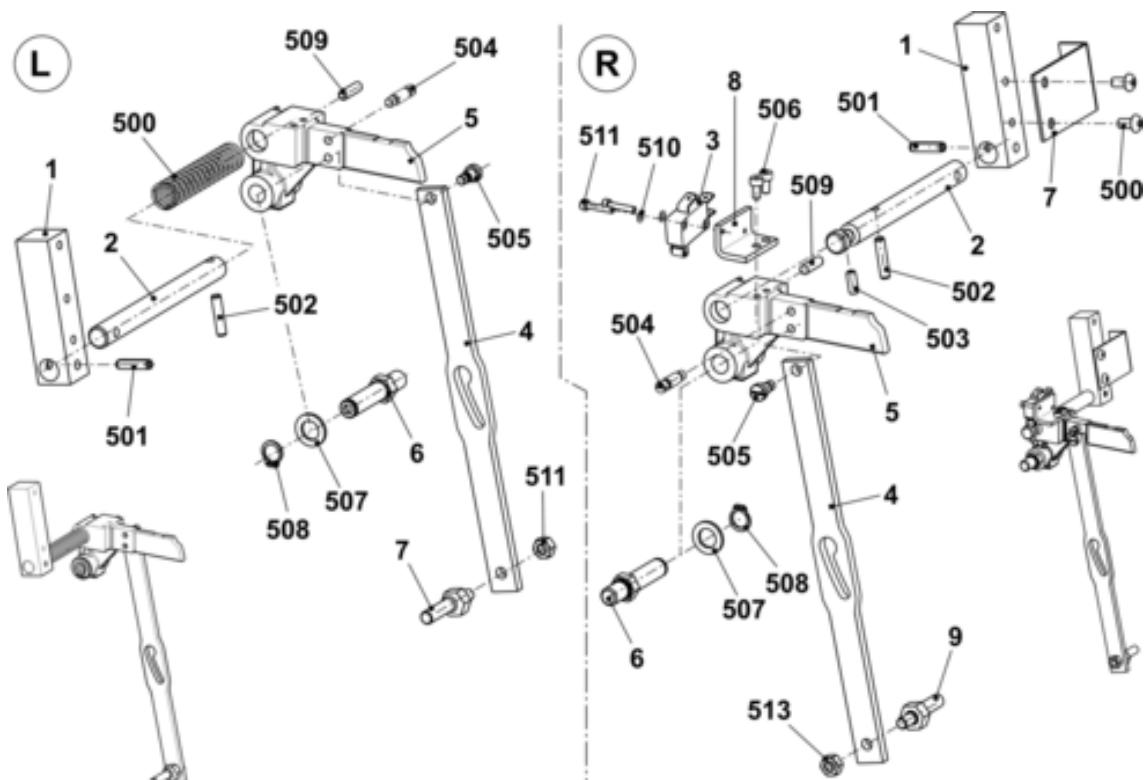
## 8.3.1 Drive shaft of comb

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



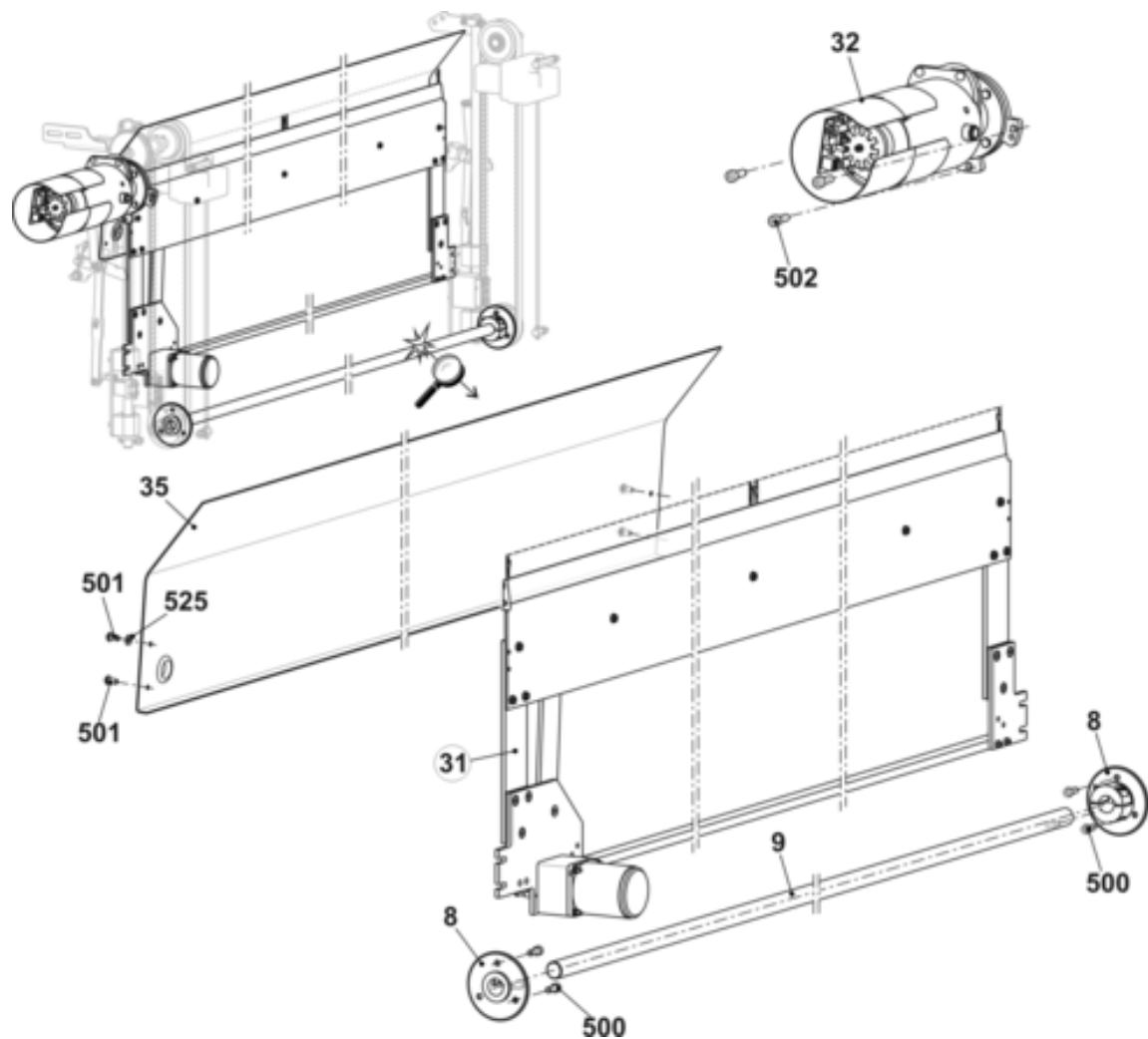
## 8.3.2 Swivel lever comb take-down

Pos	Designation	Id		Pos	Designation	Id
$\Sigma L$	Swivel lever on the left	252 859		$\Sigma R$	Swivel lever on the right	252 858
1	Support	252 780		1	Support	252 780
2	Shaft	223 994		2	Shaft	238 339
4	Plunger	255 650		3	Microswitch	026 259
5	Swivel lever	239 248		4	Plunger	255 650
6	Bolt	214 053		5	Swivel lever	239 248
7	Eccentric bolt	255 651		6	Bolt	214 053
500	Compression spring 1,4x13,6x93	023 572		7	Angle	224 009
501	Spring dowel sleeve Iso8752-5x20	020 794		8	Angle	238 304
502	Dowel pin 5x22	023 716		9	Eccentric bolt	255 651
504	Shoulder screw M5x29x35	251 618		500	Pan-head screw M5x10	023 247
505	Shoulder screw M5x5,8x6,2	023 365		501	Spring dowel sleeve 5x20	020 794
507	Washer10	020 884		502	Dowel pin 5x22	023 716
508	Locking ring	020 950		503	Spring dowel sleeve 5x12	020 793
509	Shoulder screw M5x12x18	020 539		504	Shoulder screw M5x29x35	251 618
511	Hexagon nut M8-6	020 838		505	Shoulder screw M5X5,8X6,2	023 365
				506	Cap screw M4x8	022 501
				507	Washer10	020 884
				508	Locking ring 10x1	020 950
				509	Shoulder screw M5X12X18	020 539
				510	Cap screw M3x16	022 583
				511	Washer3	020 877
				513	Hexagon nut M8-6	020 838



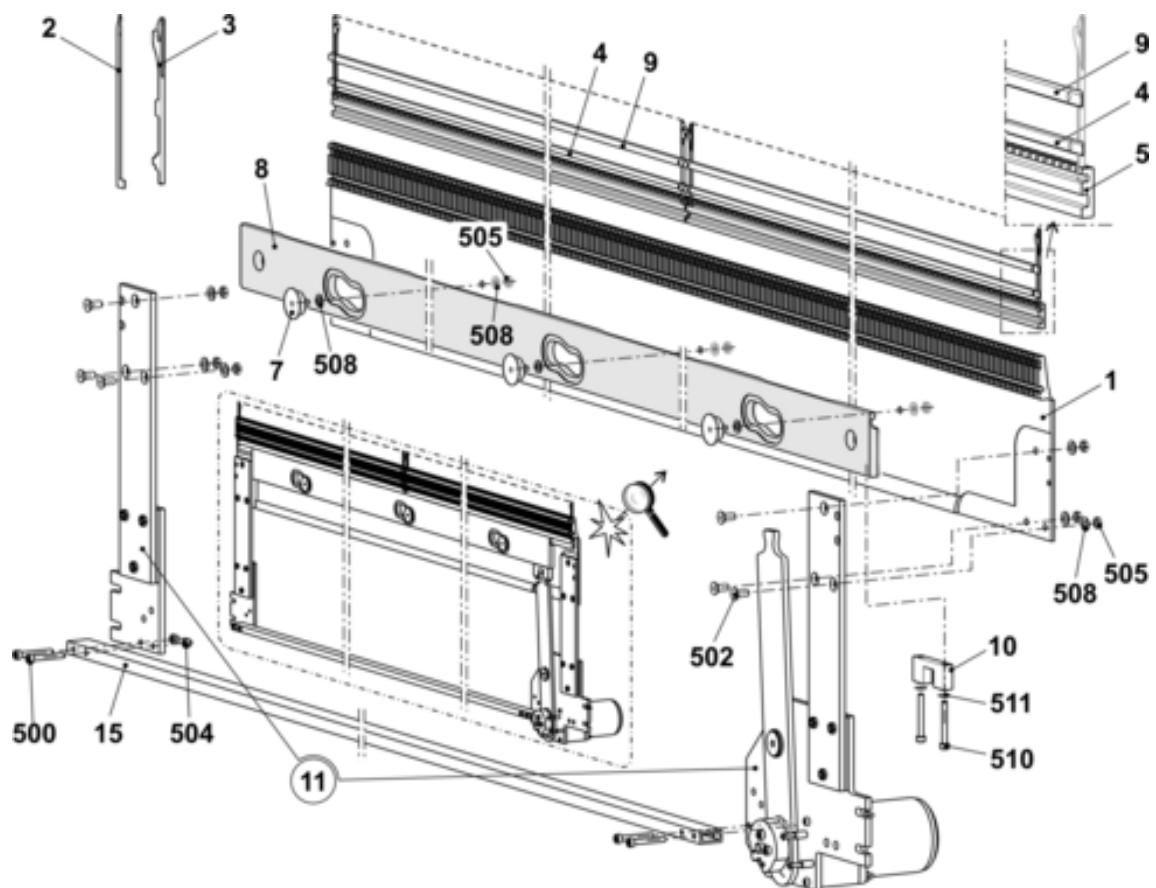
## 8.4 Comb take-down in the middle

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Comb take-down in the middle			31	Comb unit	
	E3	253 622			E3	243 626
	E7 (E3,5)	253 587			E3,5+7 (E3,5)	241 531
	E8 (E4)	253 588			E4+8 (E4)	241 532
8	Flange	207 695		32	Motor take-down unit complete	253 803
9	Shaft long	213 968		35	Marking plate open	259 237
500	Cap screw M6x16	020 135		502	Cap screw M8x25	020 142
501	Pan-head screw M5x10	023 247		525	Serrated lock washer J5,3	022 489



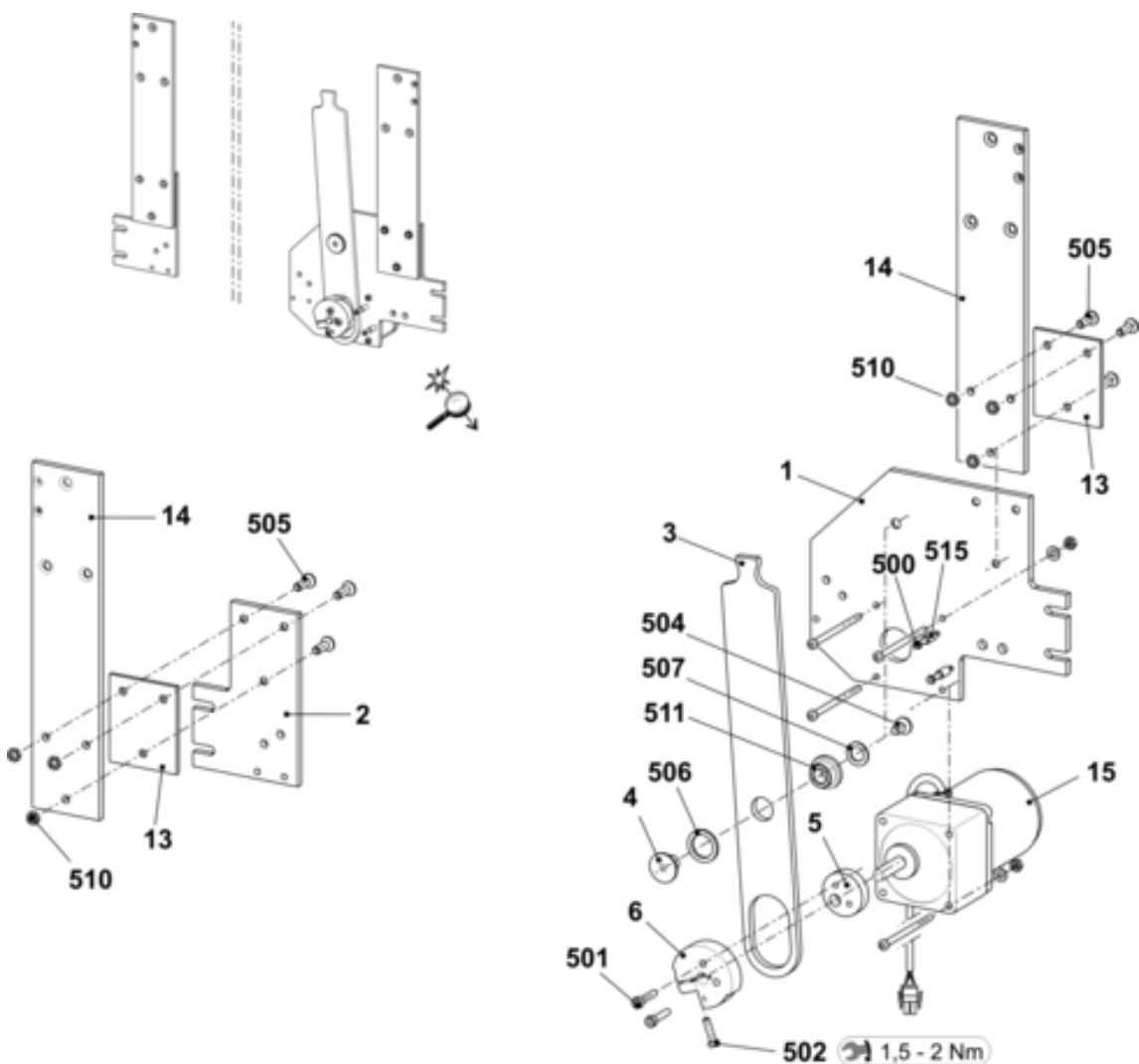
## 8.4.1 Comb unit

Pos	Designation	ID	Pos	Designation	ID
<b>Σ</b>	<b>Comb unit</b>				
	E3	243 626	7	Collar bolt complete	211 036
	E7 (E3,5)	241 531	8	Cross slider	213 429
	E8 (E4)	241 532	9	Cover rail	222 866
1	Hook bed		10	Plunger	205 678
	E3	221 190	11	Switching lever complete	240 060
	E7	221 194	15	Stabilizer	215 253
	E8	221 195	500	Cap screw M4x30	023 290
2	Closer E3-8	230 105	502	Countersunk head screw M5x12	023 340
3	Body E3-8	230 093	504	Hexagon nut M4-8	023 046
4	Cover rail E3-14	213 428	505	Hexagon nut M5-04	020 854
5	Hook slider		508	Washer 5	020 871
	E3	220 992	510	Cap screw M4x35	023 550
	E3,5	220 993	511	Circlip	022 774
	E4	220 994			



#### 8.4.2 Switching lever comb take-down

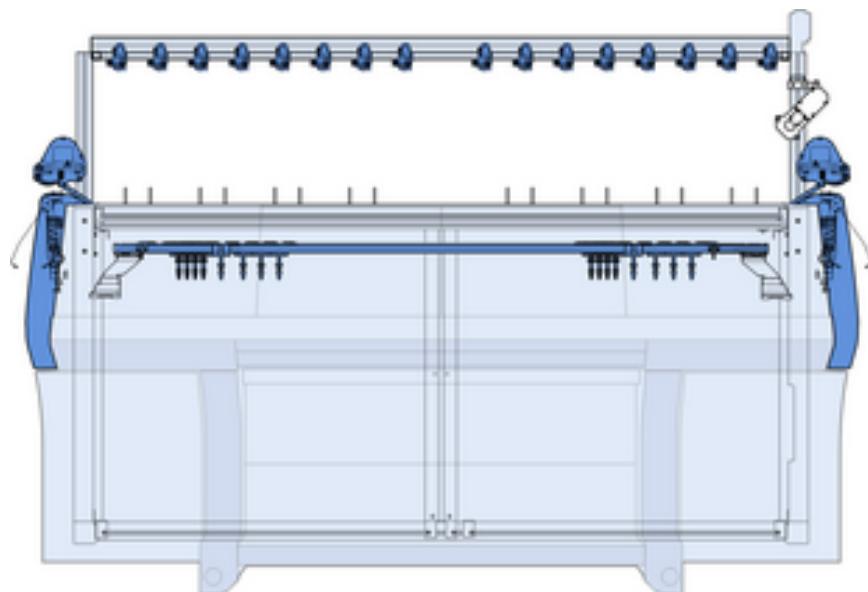
Pos	Designation	ID	Pos	Designation	ID
<b>Σ</b>	Switching lever complete	240 060	500 501 502 504 505 506 507 510 511 515	Cap screw M3x25	023 093
1	Screw-on plate on the right	240 058		Cap screw M4x20	023 171
2	Screw-on plate on the left	240 059		Cap screw M4x16	023 123
3	Lever	215 228		Pan-head screw M6x12	023 435
4	Bearing bolt	215 675		Pan-head screw M5x16	023 417
5	Eccentric	205 681		Shim ring 16x22x2	023 449
6	Tension cam	215 287		Shim ring 10x16x1	023 260
13	Intermediate plate	213 980		Hexagon nut M5	020 854
14	Holding plate	218 977		Collar bearing 10x16x22	022 841
15	Motor comb hook with 2 phases	244 635		Threaded spacer	210 488



8.4 Comb take-down in the middle

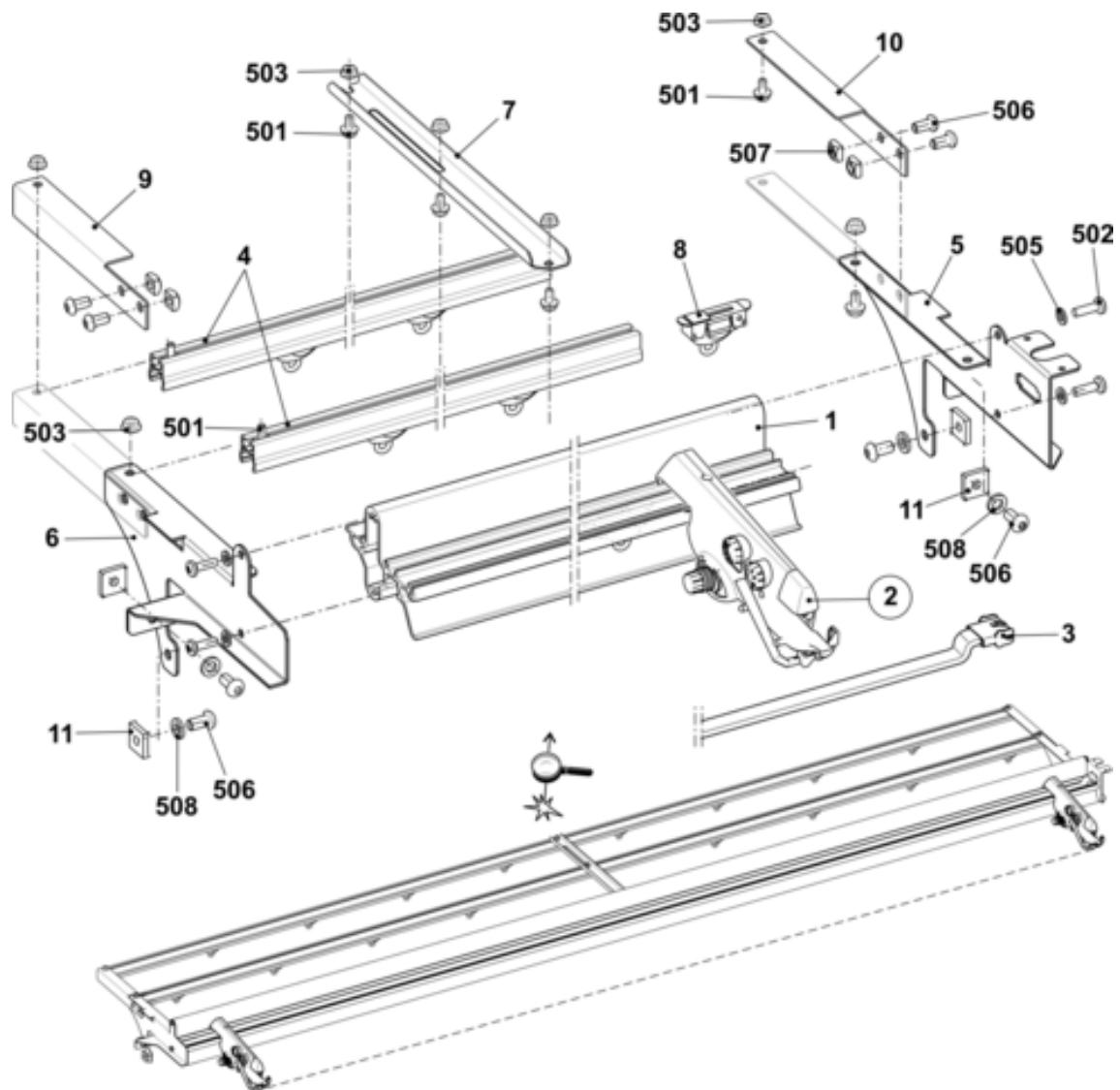
Notes:

## 9 Yarn delivery device



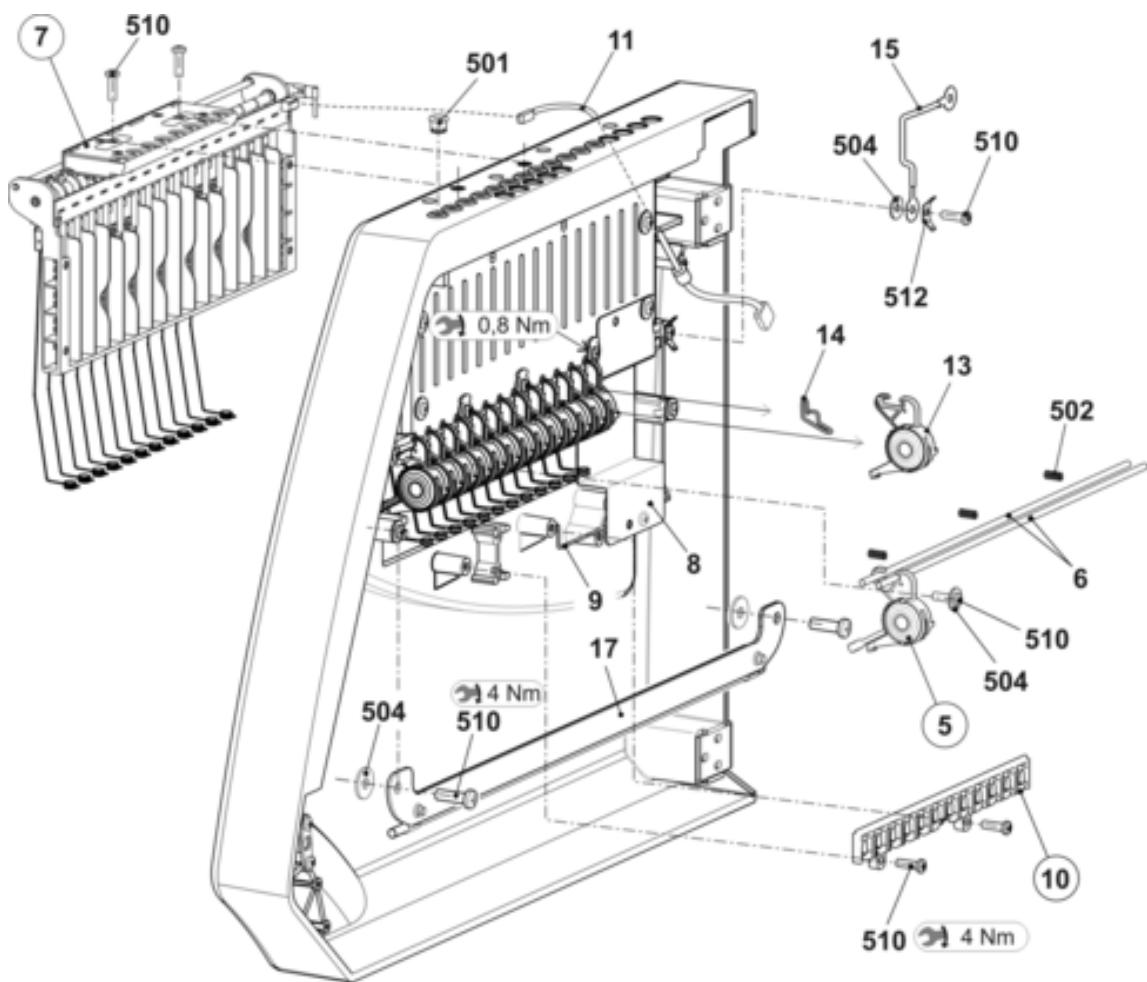
## 9.1 Yarn guide system with 24 FKE

Pos	Designation	ID		Pos	Designation	ID
Σ	Yarn guide system 24 FKE 50"	241 549		10	Support on the right	243 603
1	Support	243 110		11	Slot nut	228 851
2	Yarn control device(FKE)	237 124		501	Self-locking screw M6x12	023 415
3	Connection cable FKE 50" ECO	254 056		502	Screw M6x20	023 721
4	Yarn guide bar	240 324		503	Serrated nut M6-10	023 414
5	Support on the right	251 629		505	Washer6	022 431
6	Support on the left	251 630		506	Pan-head screw M8x16	023 113
7	Support	239 295		507	Square nut M8	023 269
8	Yarn guide bracket complete	241 581		508	Serrated lock washer	023 388
9	Support on the left	243 602				



## 9.2 Left yarn guide

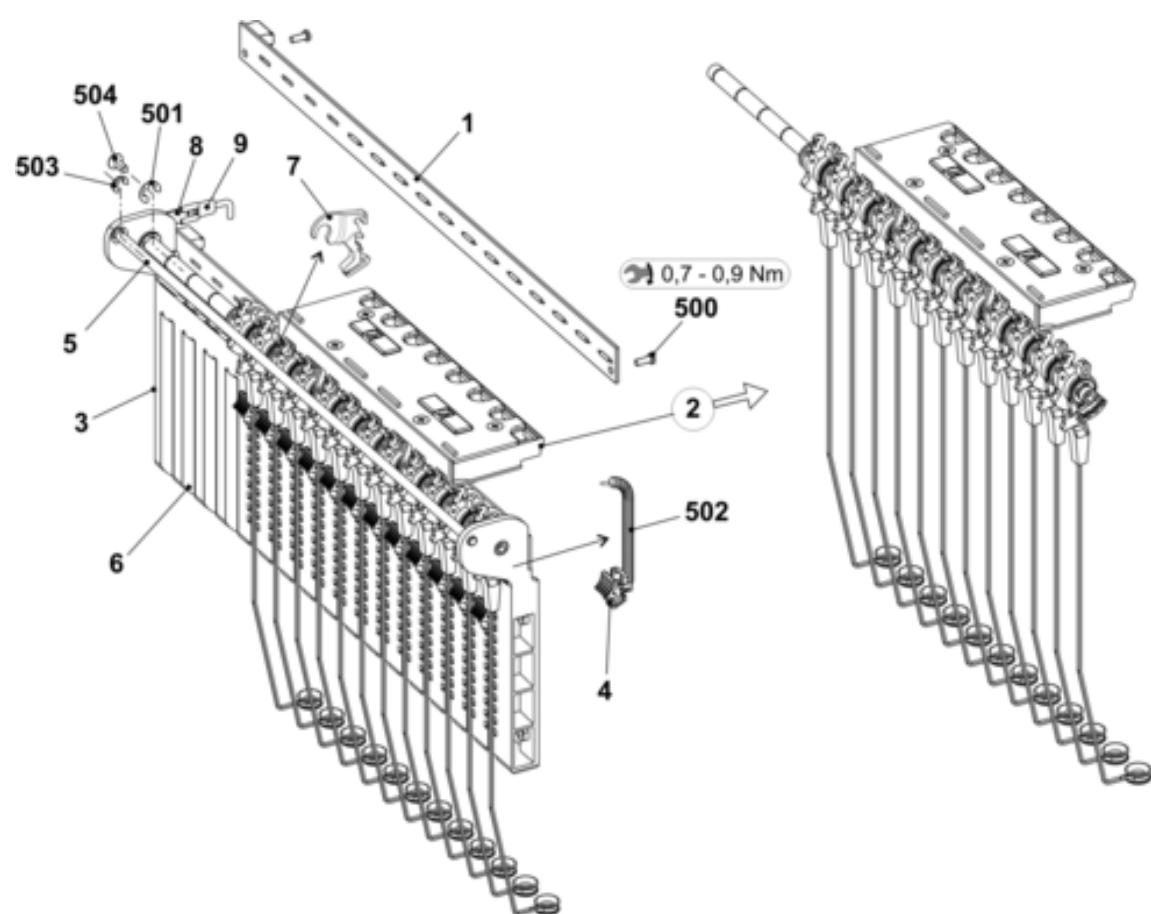
Pos	Designation	ID		Pos	Designation	ID
Σ	Safety door on the left complete E3-5	241 271		14	Clamping bow	244 409
5	Yarn brake complete	244 347		15	Ground cable	244 404
6	Wave	241 318		17	Stop bar on the left complete	258 454
7	Yarn tensioner on the left complete E3-5	241 363		501	Ceramic eyelet	240 640
8	Cover	240 783		502	Compression spring 0,90x5,40x13,60	241 360
9	Wire bow on the left	241 370		504	Washer6	022 537
10	Yarn deflector	242 011		510	Screw KB 60x20	237 682
11	Connection cable yarn tensionerokc	240 808		512	Flat connector 2x45° M6	243 117
13	Yarn brake not adjustable	244 356				



## 9.2 Left yarn guide

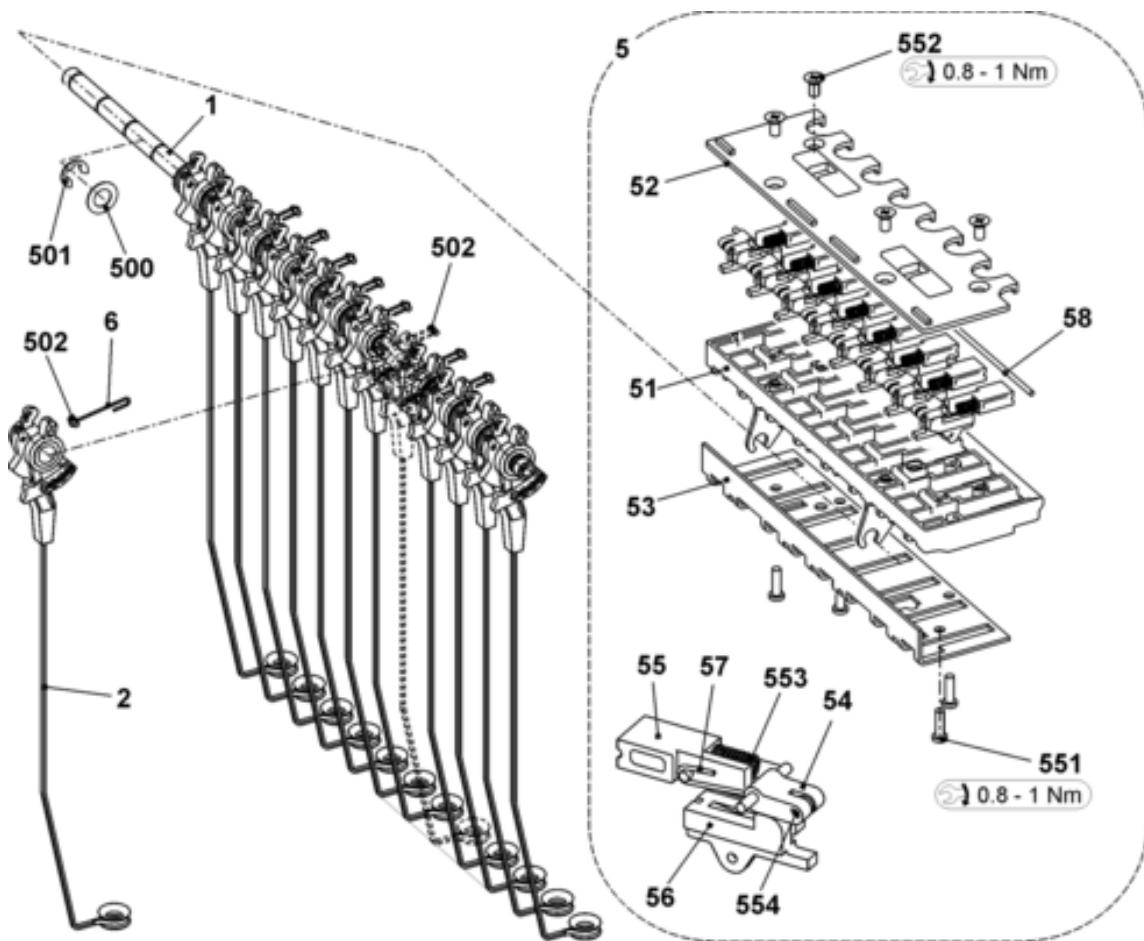
## 9.2.1 Yarn tensioner on the left E3 | E3,5 | E4

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Yarn tensioner on the left E3 – E5	241 363				
1	Card yarn tensioner 16-fold on the left	241 345		8	Grounding plate of tension axle	243 121
2	Tension axle on the left complete E3 – E8	241 366		9	Ground cable yarn tensioner okc	243 105
3	Housing	241 367		500	Screw KB 30x8	236 228
4	Slider	241 694		501	Circlip	021 022
5	Stop point	241 368		502	Tension spring 5,05x0,55x53 (E3-E5)	023 502
6	Border	242 268		503	Circlip	021 020
7	Spacer	242 048		504	Countersunk screw M4x10	241 914



## 9.2.2 Left tension axle E3 | E3,5 | E4

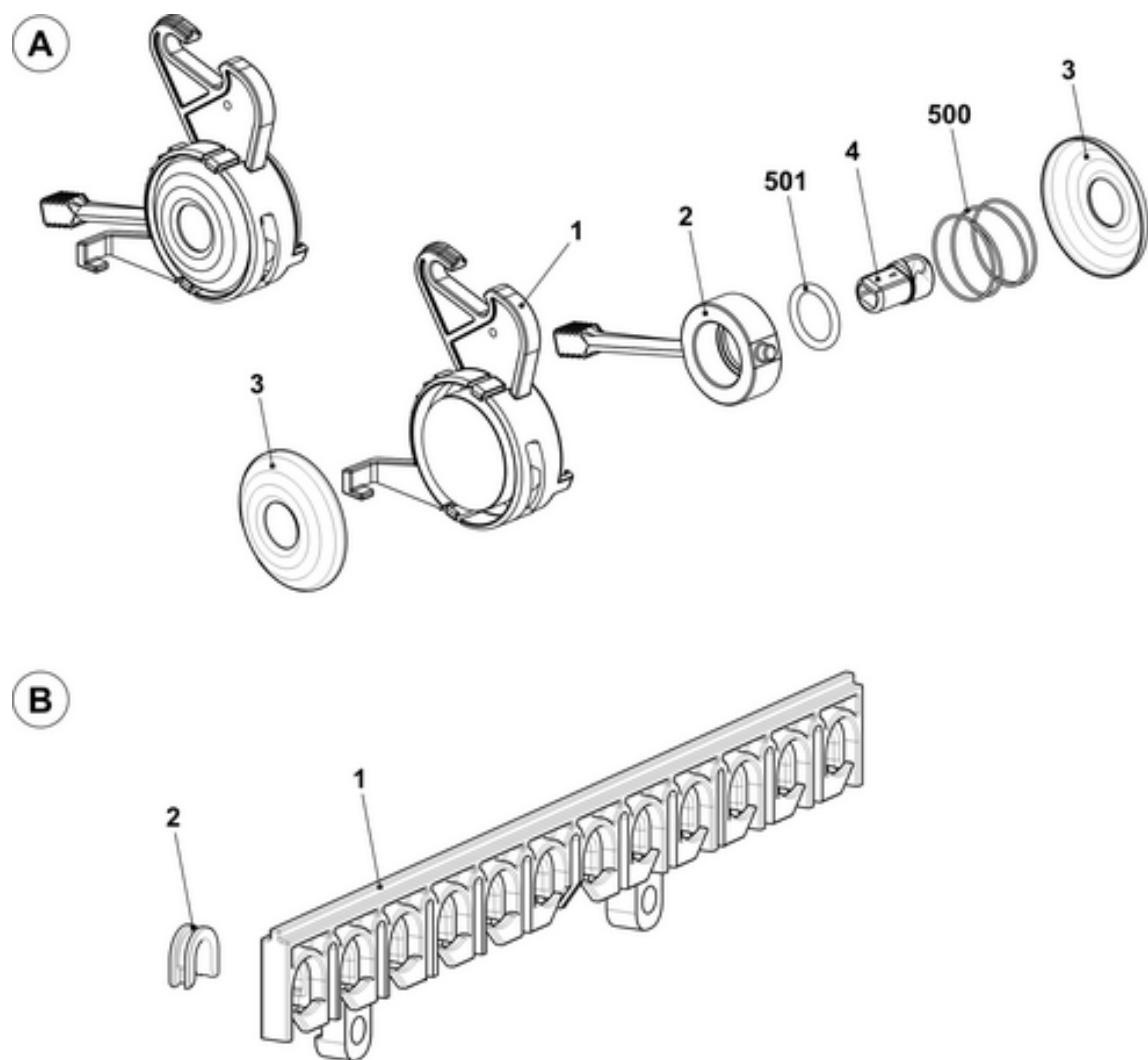
Pos	Designation	ID	Pos	Designation	ID
<b>Σ</b>	Tension axle on the left complete		5	Thread clamp AKF	238 695
	E3 – E8	241 366	51	HousingAKf	238 689
1	Axle	243 107	52	Cover AKF	237 926
2	Tension arm pre-assembledE3 – E8	242 770	53	Sheet metal at the bottom (housing AKF)	240 719
6	Wire bow	238 694	54	Lever AKF	238 692
500	Shim ring 8x14x0,5	023 501	55	Pressure piece AKF	238 690
501	Circlip	021 022	56	SliderAKF	238 691
502	Grooved pin 2x6	243 172	57	Wire bow	238 694
			58	Wire	237 940
			551	Screw KB 35x12	237 681
			552	Screw KB 40x8	236 227
			553	Compression spring 0,30x4,50x18,50	241 437
			554	Grooved pin 2x6	243 172



## 9.2 Left yarn guide

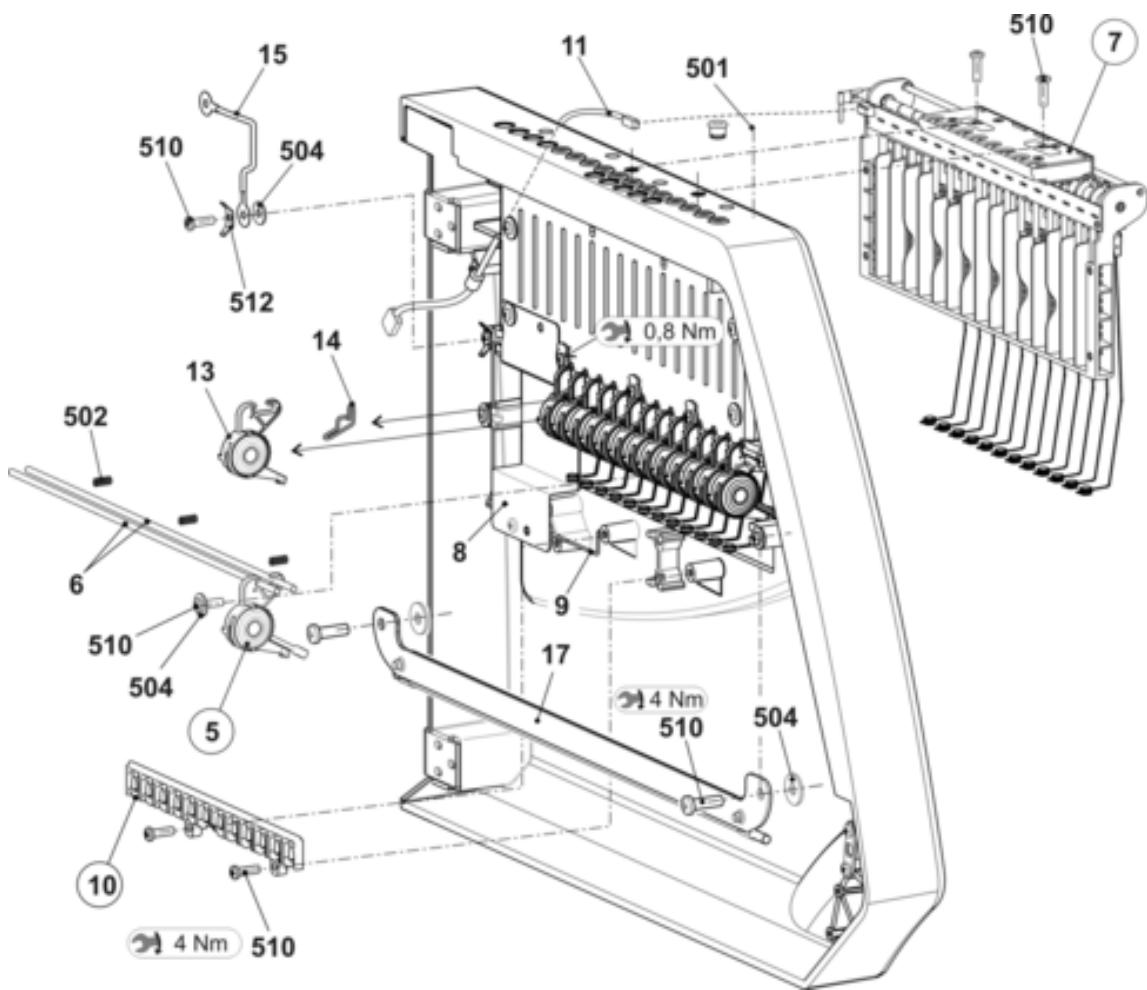
## 9.2.3 Yarn brake and yarn deflector

Pos	Designation	ID	Pos	Designation	ID	
A	Yarn brake complete	244 347	B	Yarn deflector	242 011	
1	Support	240 607		1	Support of yarn deflector	242 009
2	Slider	240 606		2	Ceramic eyelet open	240 733
3	Brake disk	244 355				
4	Ceramic eyelet open	243 778				
500	Compression spring 0,65x20,15x14,80	241 361				
501	O-ring 11x2	241 434				



## 9.3 Right yarn guide

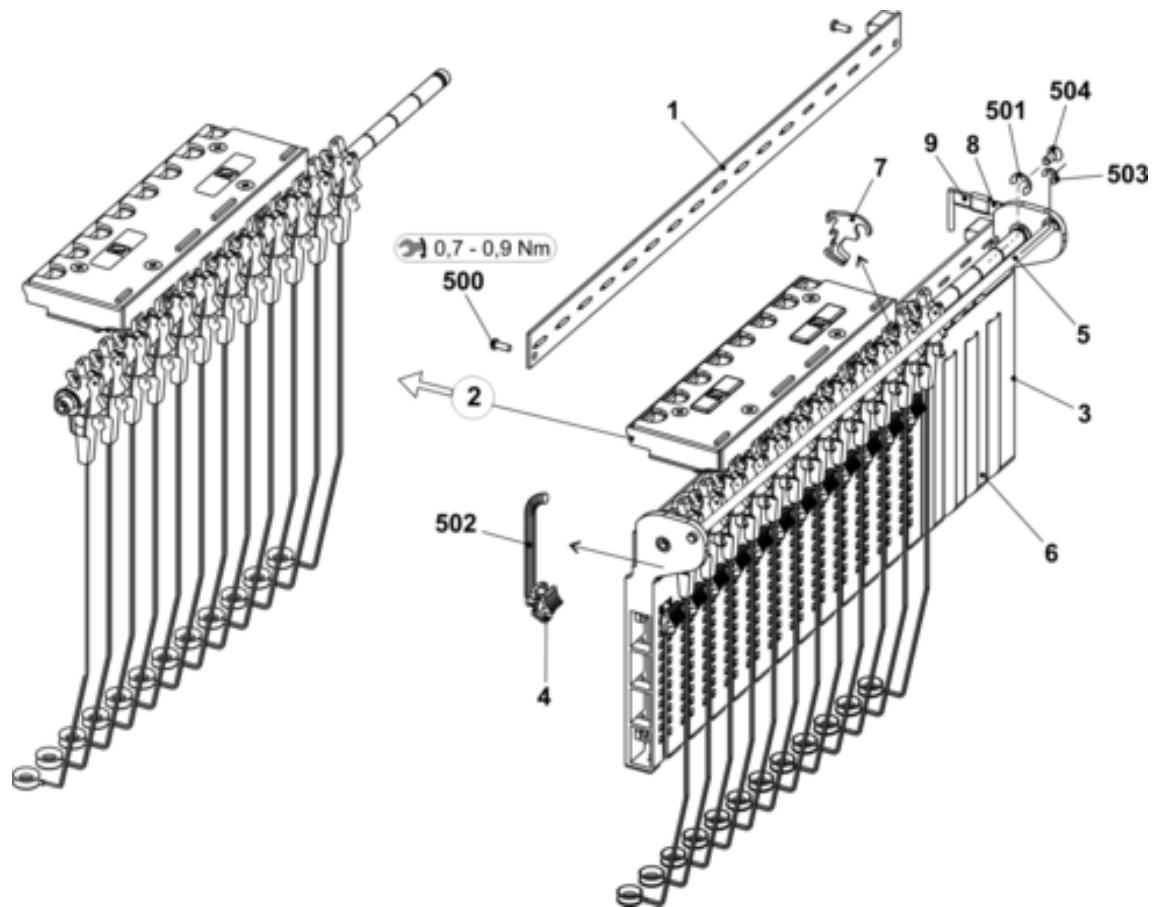
Pos	Designation	ID		Pos	Designation	ID
Σ	Safety door on the right complete E3-5	241 274		14	Clamping bow	244 409
5	Yarn brake complete	244 347		15	Ground cable	244 404
6	Wave	241 318		17	Stop bar on the right complete	258 562
7	Yarn tensioner on the right complete E3-5	241 382		501	Ceramic eyelet	240 640
8	Cover	240 783		502	Compression spring 0,90x5,40x13,60	241 360
9	Wire bow on the right	241 369		504	Washer6	022 537
10	Yarn deflector	242 011		510	Screw KB 60x20	237 682
11	Connection cable yarn tensionerokc	240 808		512	Flat connector 2x45° M6	243 117
13	Yarn brake not adjustable	244 356				



## 9.3 Right yarn guide

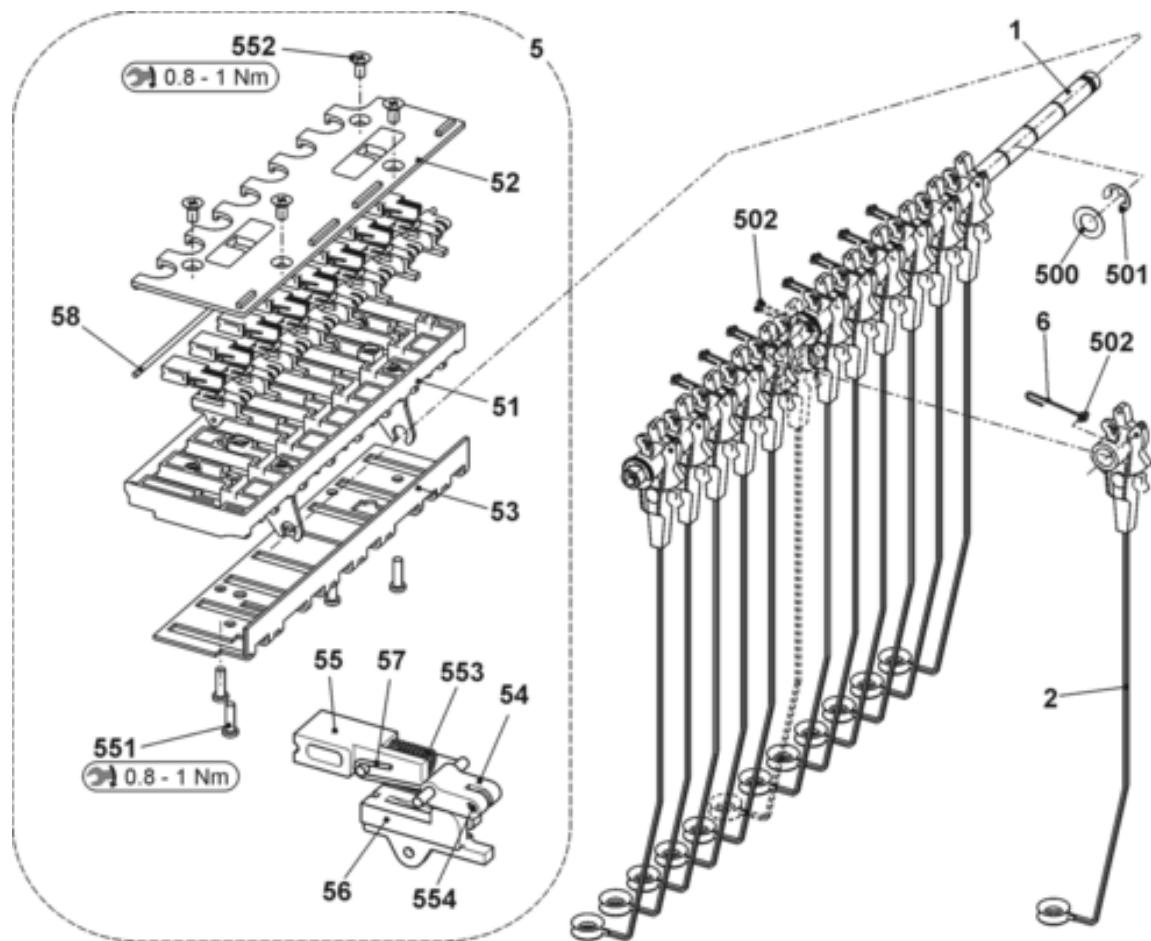
## 9.3.1 Yarn tensioners on the right E3 | E3,5 | E4

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Yarn tensioner on the right E3 – E5	241 382				
1	Card yarn tensioner 16-fold on the right	241 346		8	Grounding plate of tension axle	243 121
2	Tension axle on the right complete E3 – E8	241 379		9	Ground cable yarn tensioner okc	243 105
3	Housing	241 367		500	Screw KB 30x8	236 228
4	Slider	241 694		501	Circlip	021 022
5	Stop point	241 368		502	Tension spring 5,05x0,55x53 (E3-E5)	023 502
6	Border	242 268		503	Circlip	021 020
7	Spacer	242 048		504	Countersunk screw M4x10	241 914



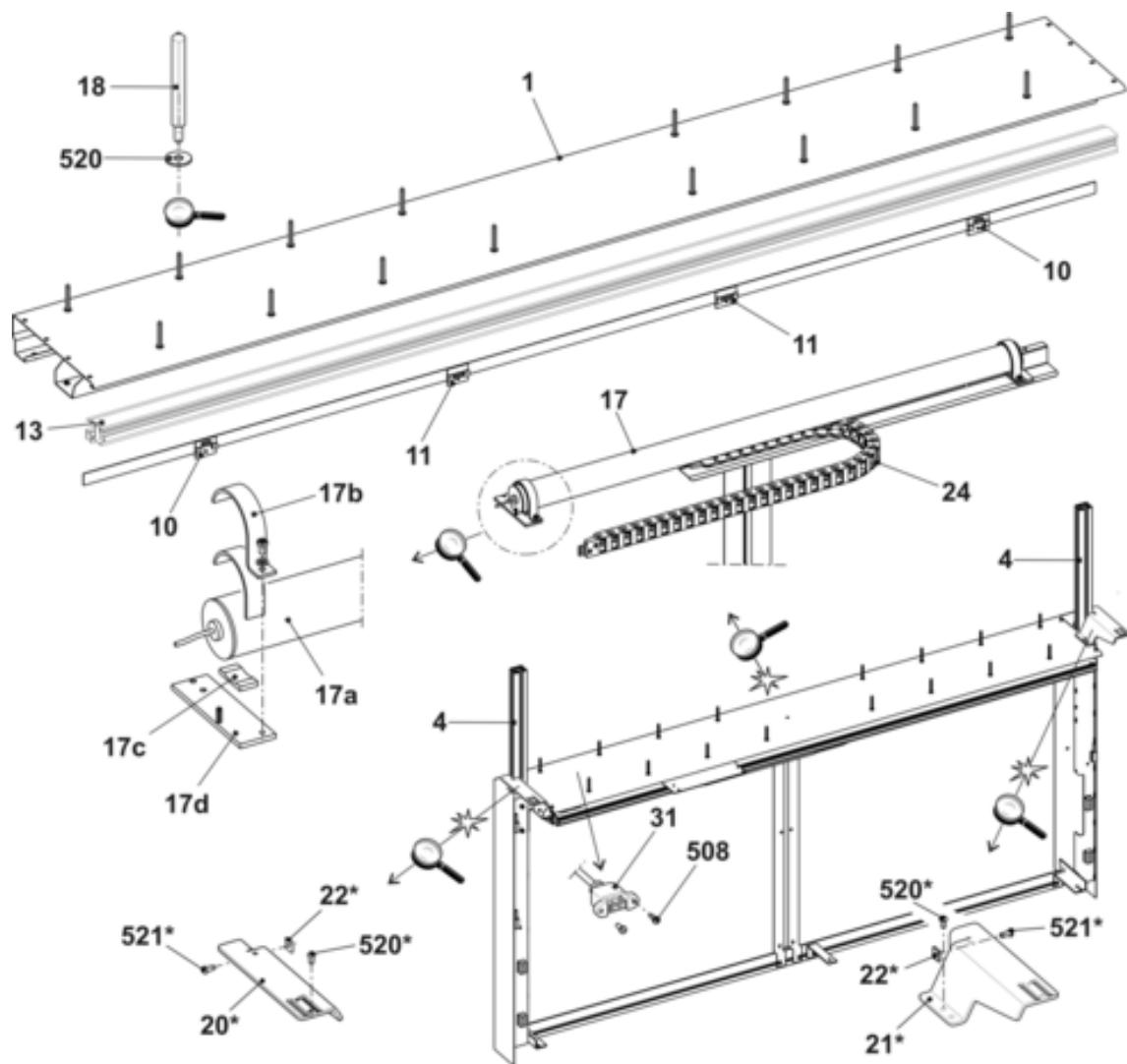
### 9.3.2 Right tension axle E3 | E3,5 | E4

Pos	Designation	ID	Pos	Designation	ID
<b>Σ</b>	Tension axle on the right complete		5	Thread clamp AKF	238 695
	E3 – E8	241 379	51	HousingAKf	238 689
1	Axle	243 107	52	Cover AKF	237 926
2	Tension arm pre-assembledE3 – E8	242 770	53	Sheet metal at the bottom (housing AKF)	240 719
6	Wire bow	238 694	54	Lever AKF	238 692
500	Shim ring 8x14x0,5	023 501	55	Pressure piece AKF	238 690
501	Circlip	021 022	56	SliderAKF	238 691
502	Grooved pin 2x6	243 172	57	Wire bow	238 694
			58	Wire	237 940
			551	Screw KB 35x12	237 681
			552	Screw KB 40x8	236 227
			553	Compression spring 0,30x4,50x18,50	241 437
			554	Grooved pin 2x6	243 172



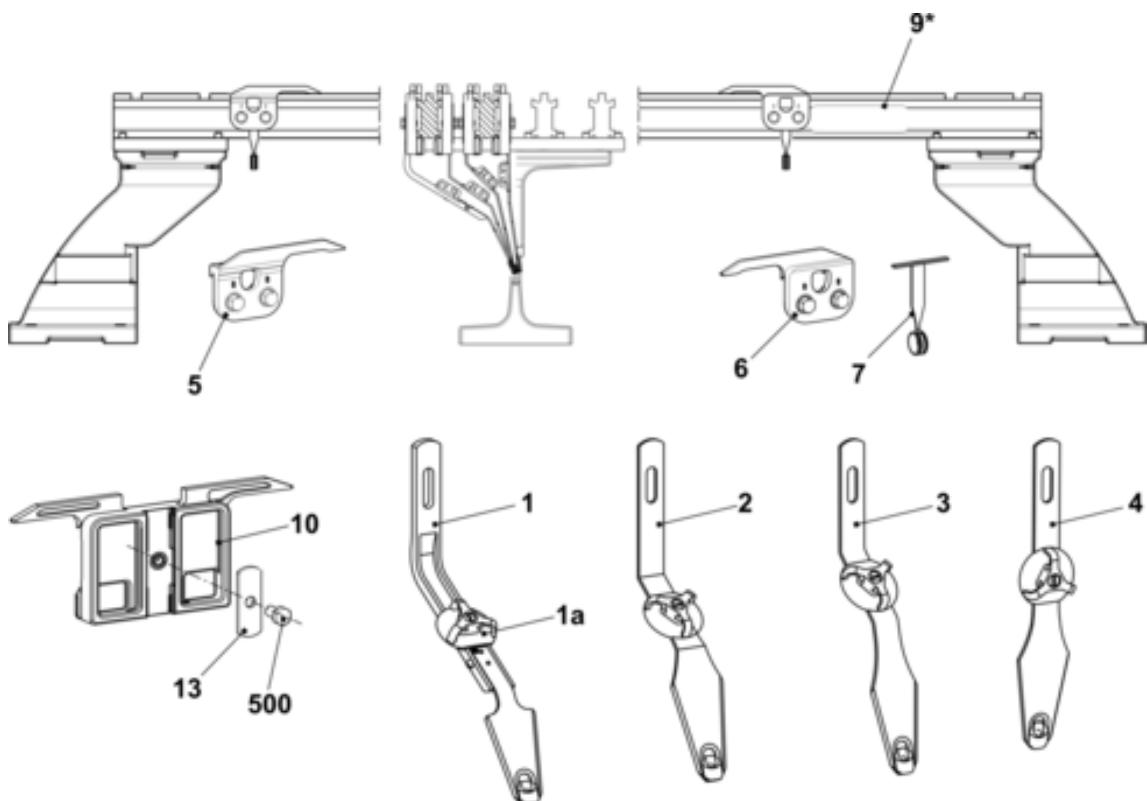
## 9.4 Bobbin board

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Table complete 50"	240 241		18	Positioning pin	204 819
1	Table	251 244		24	Energy chain display 38 links	253 888
4	Support element	228 594		31	Cable USB extension	253 706
10	Magnet switch safety door	219 983		508	Pan-head screw M3x8	023 251
11	Magnet switch safety door	220 159		520	Washer	020 901
13	Guide rail at the top complete	257 485		20*	Support of left feed wheel	250 966
17	Lamp at the top complete	222 509		21*	Support of right feed wheel	250 967
17a	Light 230 V 50/60 Hz	205 546		22*	Slot nut	228 851
17b	Clamping bow	209 504		520*	Pan-head screw M8x16	023 113
17c	Cellular caoutchouc 40x20	208 018		521*	Pan-head screw M8x18	251 331
17d	Lamp support	221 951				



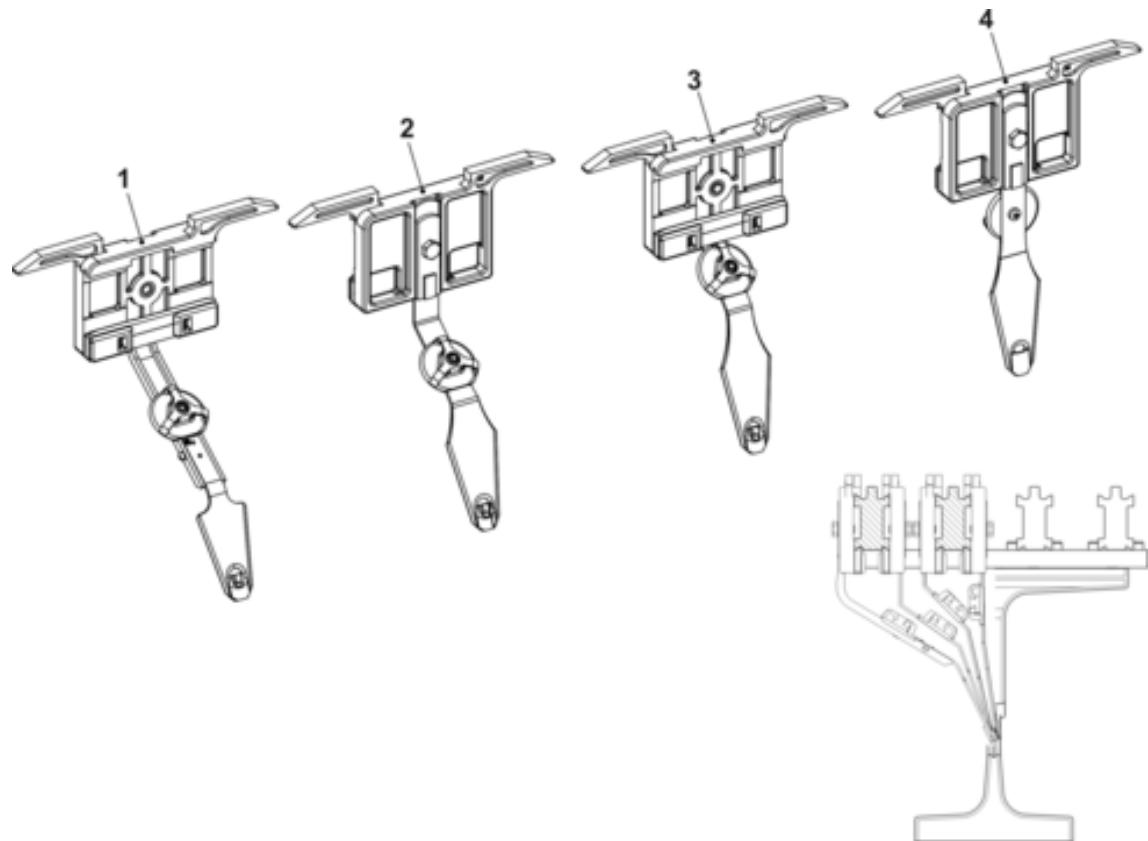
## 9.5 Yarn carrier and guide rails

Pos	Designation	ID	Pos	Designation	ID
$\Sigma$	Yarn guide complete E3   E4	215 663			
1	FF bow 1+8 complete E3-4	216 266	6	Limiter on the right	244 098
	1a Yarn guide star	202 146	7	Slider with eyelet	230 709
2	FF bow 2+7 complete E3-4	216 267	9*	Yarn carrier rail	255 465
3	FF bow 3+6 complete E3-4	216 268	10	FF carriage complete	241 887
4	FF bow 4+5 complete E3-4	216 269	13	Shim	213 035
5	Limiter on the left	244 099	500	Hexagon screw M5x10	020 351



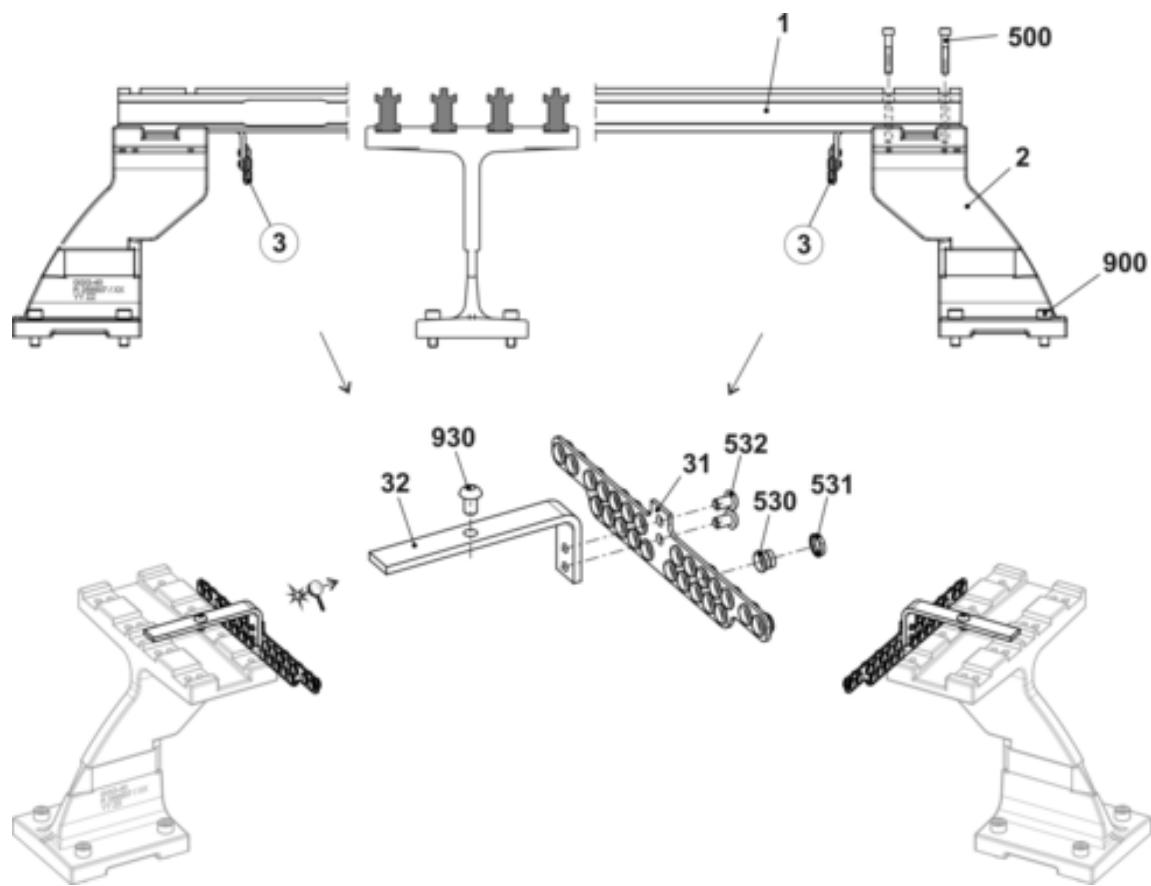
## 9.6 Complete yarn carriers

Pos	Designation	Track	ID	Pos	Designation	Track	ID
1	FF carriage complete E3-4	1+8	217 486	3	FF carriage complete E3-4	3+6	217 488
2	FF carriage complete E3-4	2+7	217 487		FF carriage complete E3-4	4+5	217 489



## 9.7 Bar unit

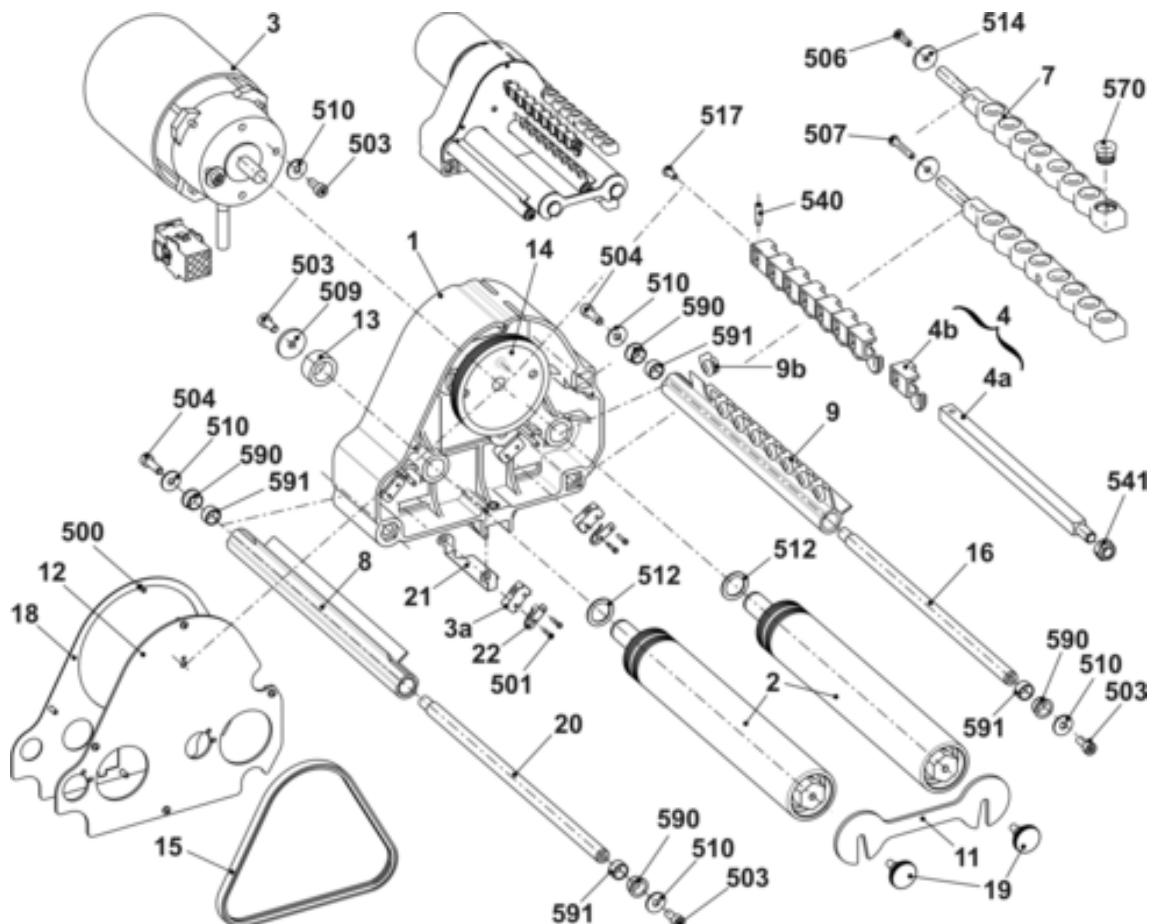
Pos	Designation	ID	Pos	Designation	ID	
$\Sigma$	Bar unit	250 971		530	Eyelet 4,2	021 502
1	Yarn carrier rail	255 464		531	Clamping ring	259 606
2	FF support	252 010		532	Pan-head screw M5x8	239 408
3	Yarn guide bracket complete	259 403		930	Pan-head screw M6x10	023 183
31	Eyelet holder complete	259 402		500	Cap screw M6x35	020 139
32	Holding angle	259 574		900	Cap screw M8x25	020 142



## 9.8 Left friction feed wheel

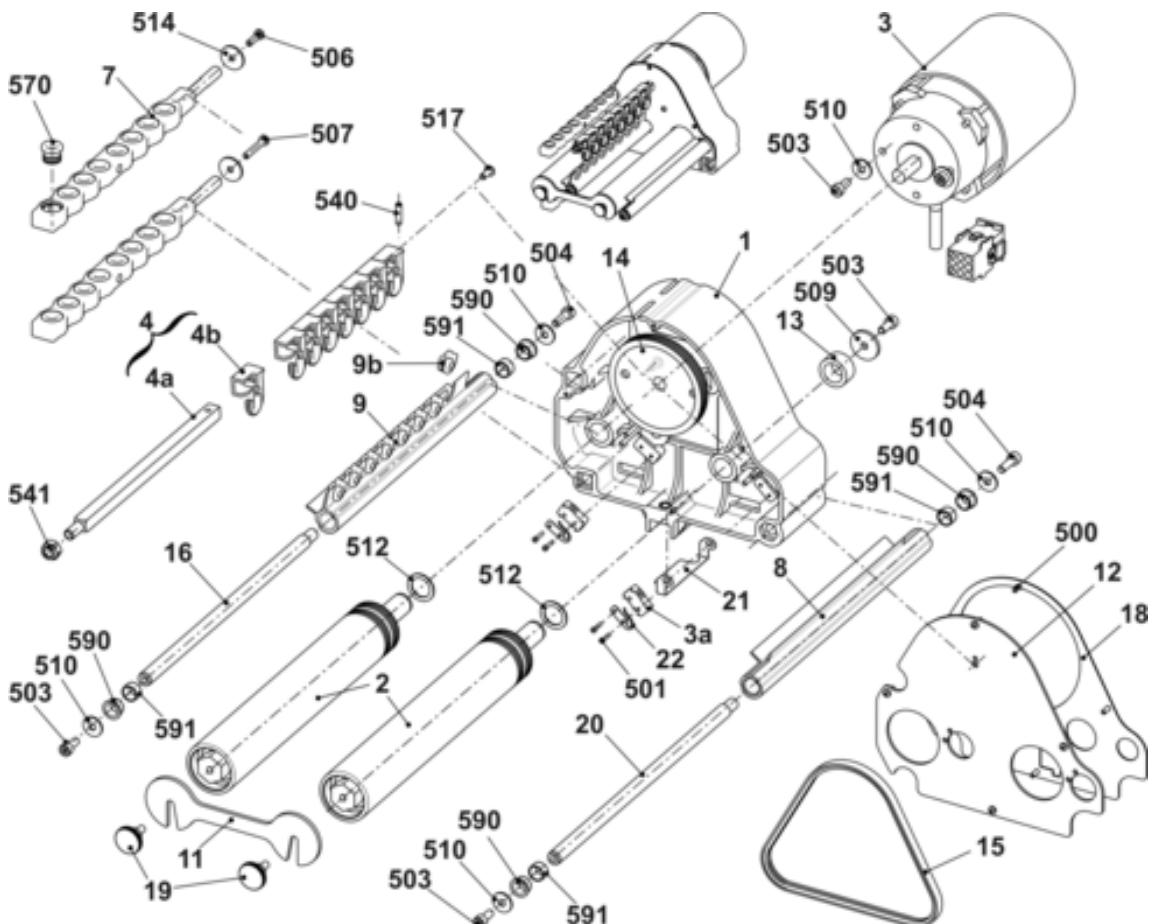
## 9.8 Left friction feed wheel

Pos	Designation	Id	Pos	Designation	Id
<b>Σ</b>	<b>Friction feed wheel on the left complete</b>	<b>243 571</b>	14	V-ribbed belt pulley	221 268
1	Housing	240 368	15	Ribbed V-belt V3J 406	206 927
2	Friction roller complete	231 704	16	Rod	221 319
3	Three-phase AC motor complete	219 800	18	Cover	230 758
3a	Microswitch	008 664	19	Knurled screw	223 361
4	Deflector complete 8-fold	250 089	20	Rod	230 658
4a	Support rail	250 055	21	Grounding plate	256 622
4b	Eyelet holder complete	250 077	22	Spring plate	256 702
540	Spring dowel sleeve 4x15	020 783	500	Screw KB30x8	236 228
541	Hexagon nut M8-8	022 843	501	Screw 20x10	244 736
7	Yarn guide rod complete	239 431	503	Cap screw M5x12	020 132
570	Eyelet 8	021 504	504	Cap screw M5x16	022 726
8	Stop motion rail on the right complete	230 690	506	Screw KB 40x14	241 358
9	Stop motion rail on the left complete with eyelets	230 683	507	Screw KB 40x25	241 595
9b	Eyelet	230 662	509	Washer5,3x22x2,5	023 219
590	Slide bearing	023 627	510	Washer5	020 901
591	Guide piece	259 453	512	Shim ring 15x21x1	023 216
11	Bracket	221 316	514	Washer4,3	020 908
12	Cover	251 098	517	Pan-head screw M4x8	023 579
13	Bush	221 391			



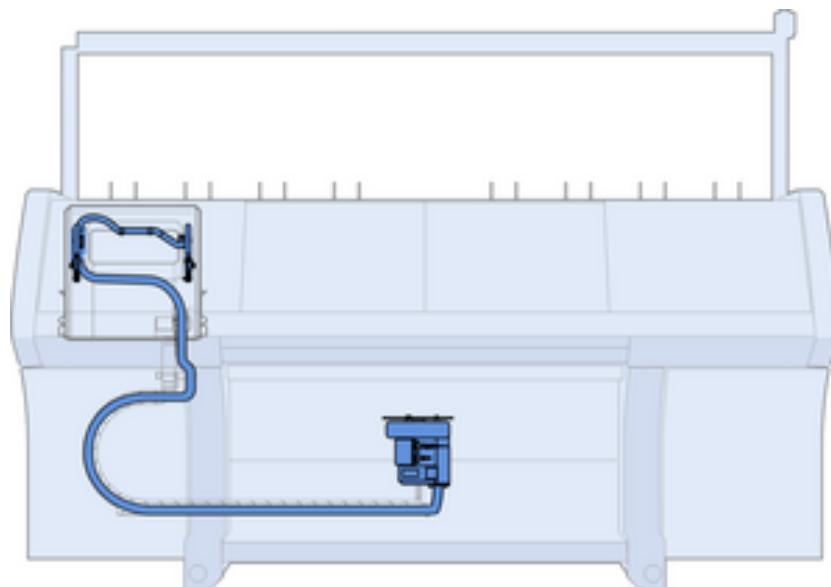
## 9.9 Right friction feed wheel

Pos	Designation	Id	Pos	Designation	Id
<b>Σ</b>	Friction feed wheel on the right complete	243 572	14	V-ribbed belt pulley	221 268
1	Housing	240 368	15	Ribbed V-belt V3J 406	206 927
2	Friction roller complete	231 704	16	Rod	221 319
3	Three-phase AC motor complete	219 800	18	Cover	230 758
3a	Microswitch	008 664	19	Knurled screw	223 361
4	Deflector complete 8-fold	250 089	20	Rod	230 658
4a	Support rail	250 055	21	Grounding plate	256 622
4b	Eyelet holder complete	250 077	22	Spring plate	256 702
540	Spring dowel sleeve 4x15	020 783	500	Screw KB30x8	236 228
541	Hexagon nut M8-8	022 843	501	Screw 20x10	244 736
7	Yarn guide rod complete	239 431	503	Cap screw M5x12	020 132
570	Eyelet 8	021 504	504	Cap screw M5x16	022 726
8	Stop motion rail on the right complete	230 690	506	Screw KB 40x14	241 358
9	Stop motion rail on the right complete with eyelets	230 682	507	Screw KB 40x25	241 595
9b	Eyelet	230 662	509	Washer5,3x22x2,5	023 219
590	Slide bearing	023 627	510	Washer5	020 901
591	Guide piece	259 453	512	Shim ring 15x21x1	023 216
11	Bracket	221 316	514	Washer4,3	020 908
12	Cover	251 098	517	Pan-head screw M4x8	023 579
13	Bush	221 391			



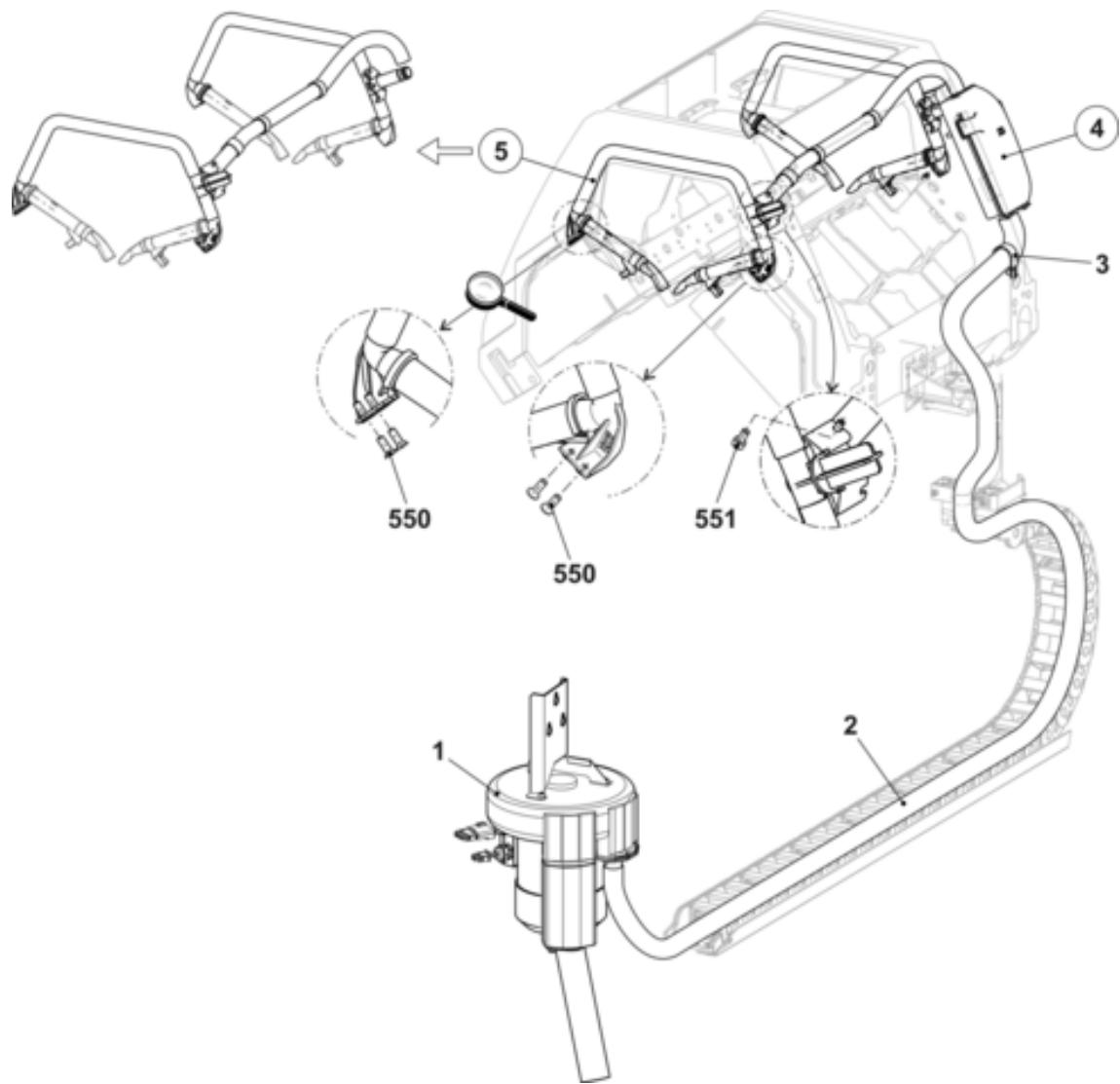
Notes:

## 10 Fluff absorption



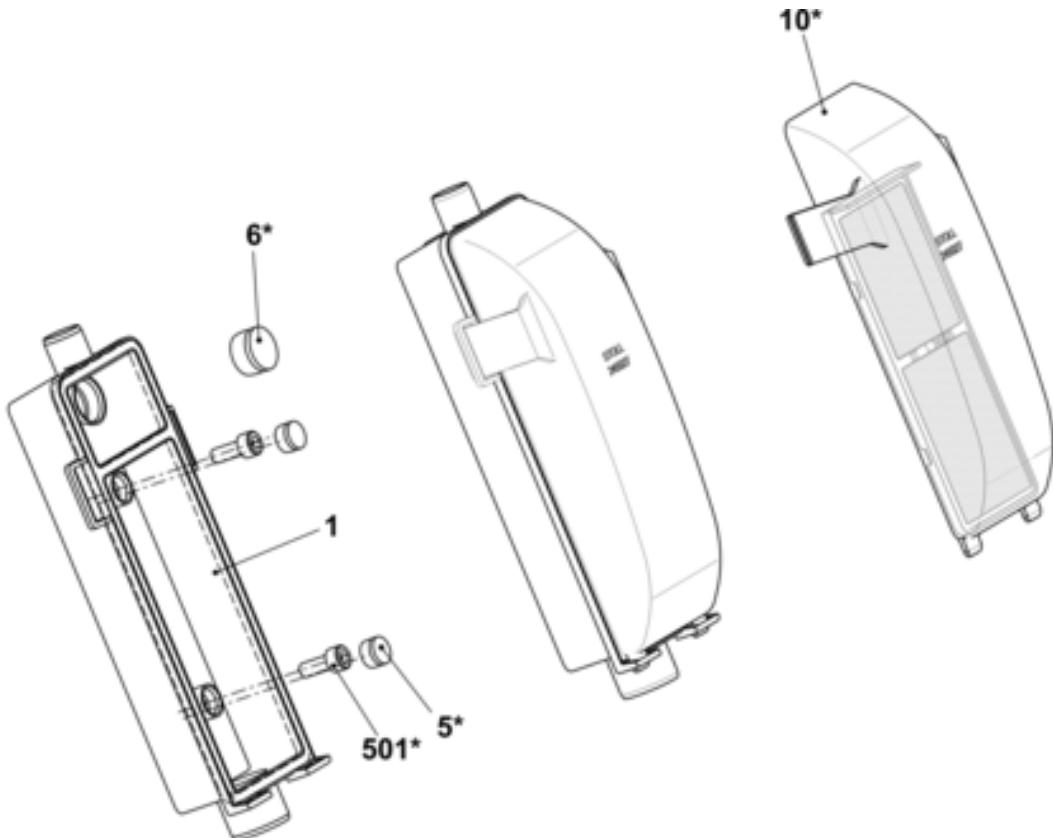
## 10.1 Fluff absorption

Pos	Designation	ID	Pos	Designation	ID
$\Sigma$	Fluff absorption		4	Lint container	245 024
1	Suction fan complete	259 004		Set of hose complete	251 339
2	Suction hose 29x25x2800	252 627		Countersunk head screw M4x12	023 062
3	Cable clip	250 051		Cap screw M4x8	022 501



## 10.1.1 Lint container

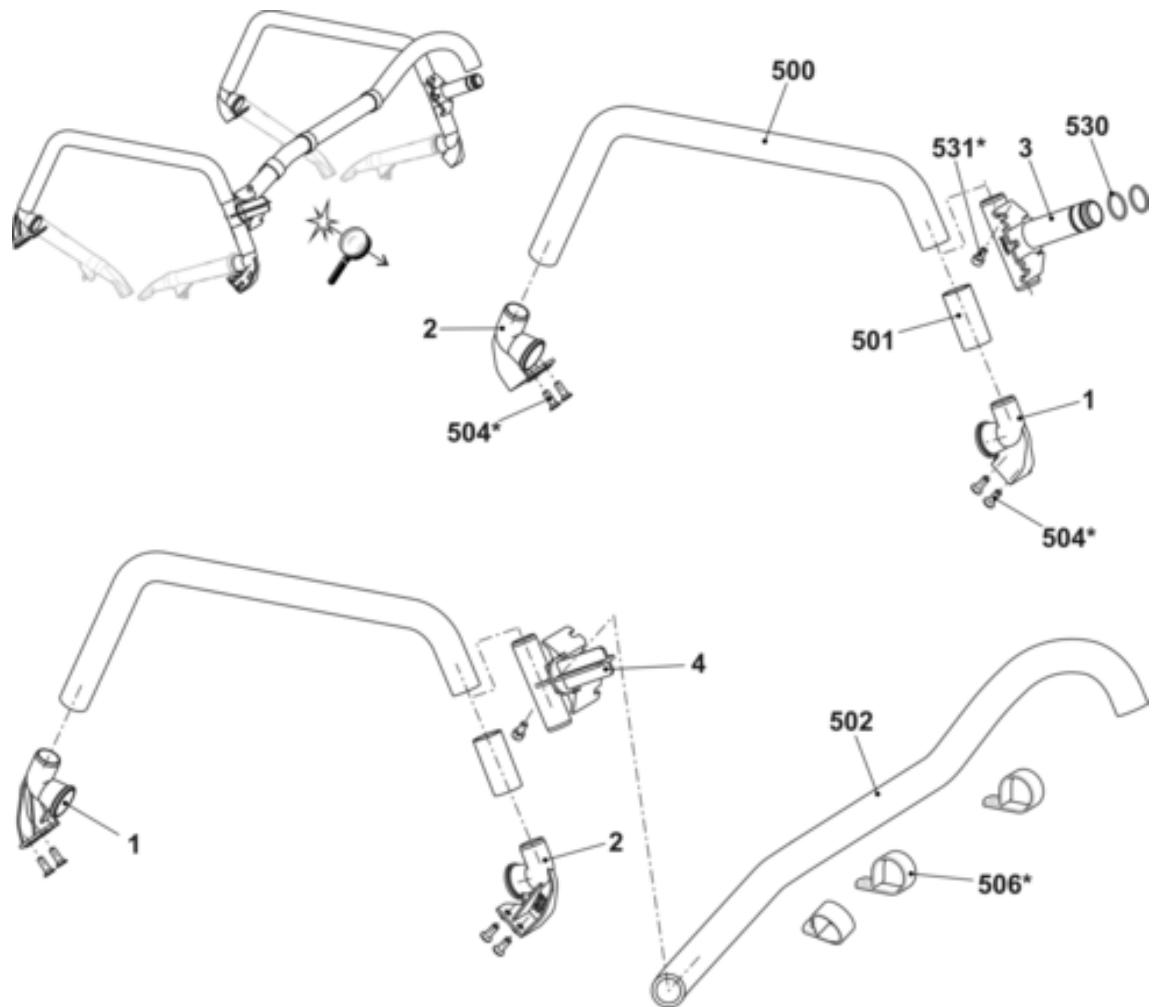
Pos	Designation	Id	Pos	Designation	Id
Σ	Lint container		6*	Sealing plug	245 029
1	Lint container	245 024		Cover with filter	251 335
5*	Sealing plug	245 028		Cap screw M6x10	023 690



## 10.1 Fluff absorption

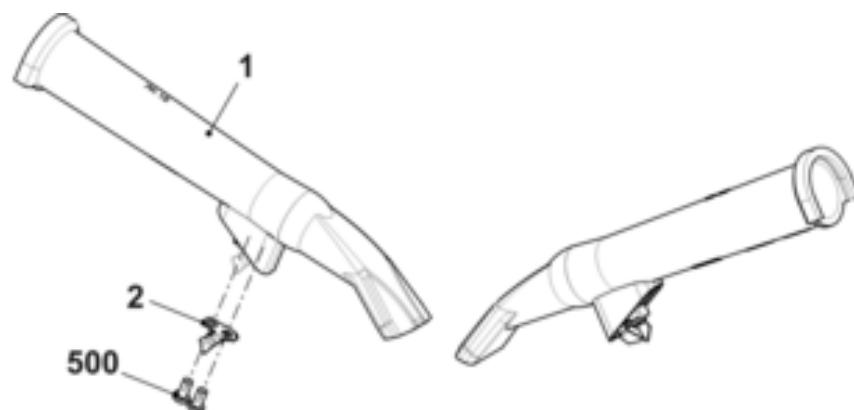
## 10.1.2 Set of hose

Pos	Designation	ID	Pos	Designation	ID
<b>Σ</b>	Set of hose complete 530/520C	<b>251 339</b>	500 501 502 504* 506* 531*	Suction hose 20x16x400	244 983
1	Angle connection on the right	250 121		Suction hose 20x16x40	251 043
2	Angle connection on the left	251 101		Suction hose 20x16x570	251 044
3	T-piece FLENT	245 021		Countersunk head screw M4x12	023 062
	530 O-ring 15x1,5	250 054		Cable clip	250 051
4	Connection piece Flent	245 022		Cap screw M4x8	022 501



## 10.1.3 Suction tube

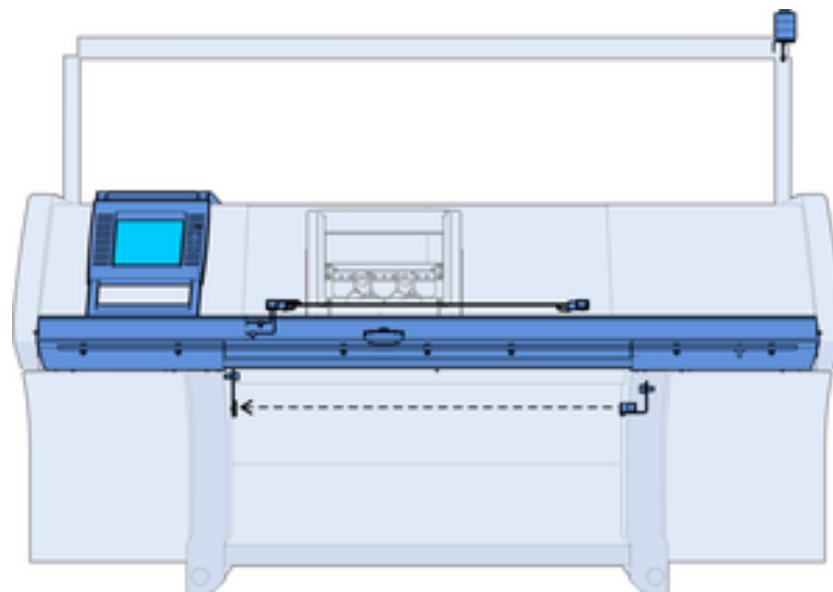
Pos	Designation	Id		Pos	Designation	Id
$\Sigma$	Suction tube complete E5-14	251 313				
1	Suction tube	255 605				
2	Bracket	255 628				
500	Screw KB30x6	241 424				



10.1 Fluff absorption

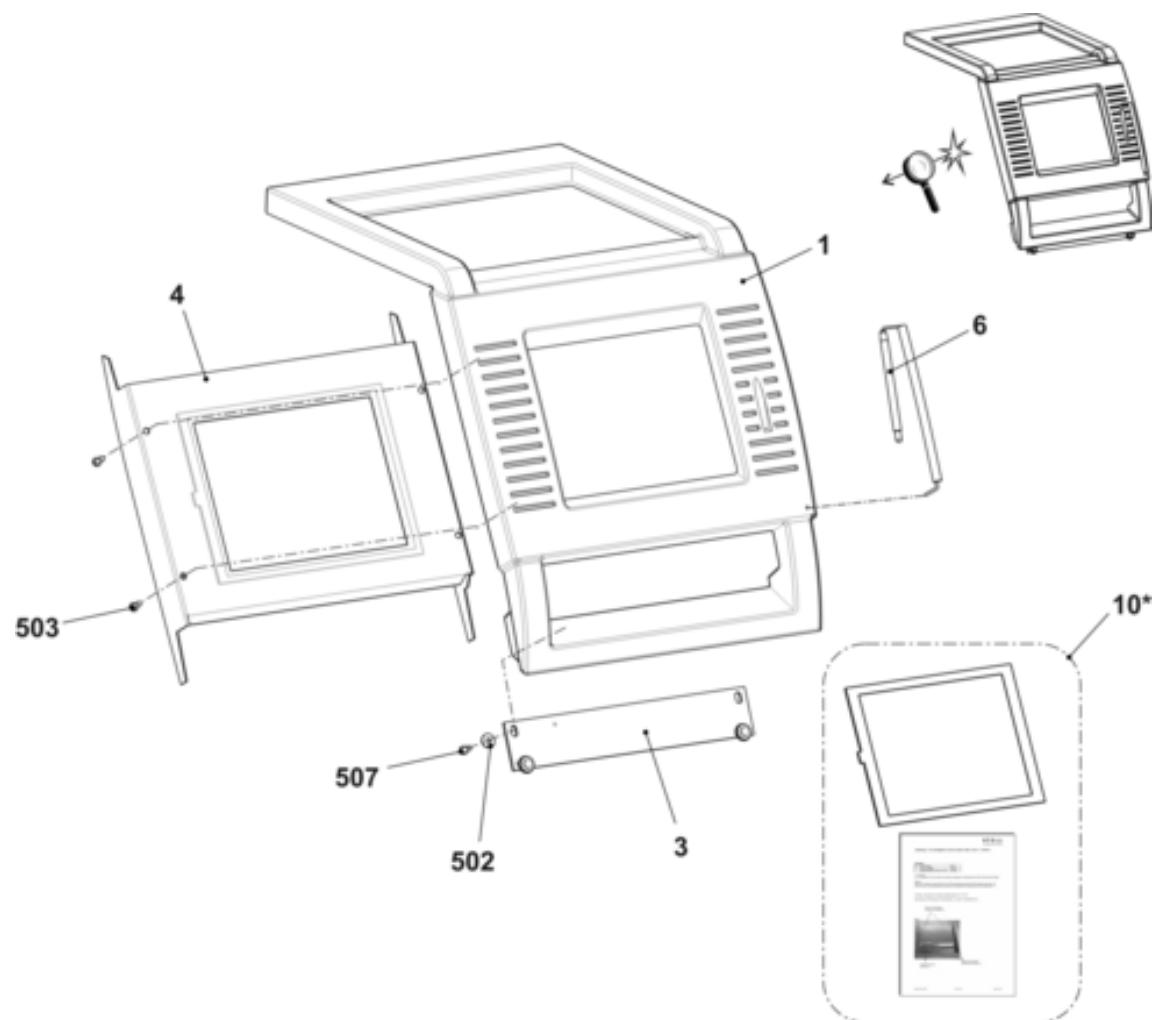
Notes:

# 11 Operation and control



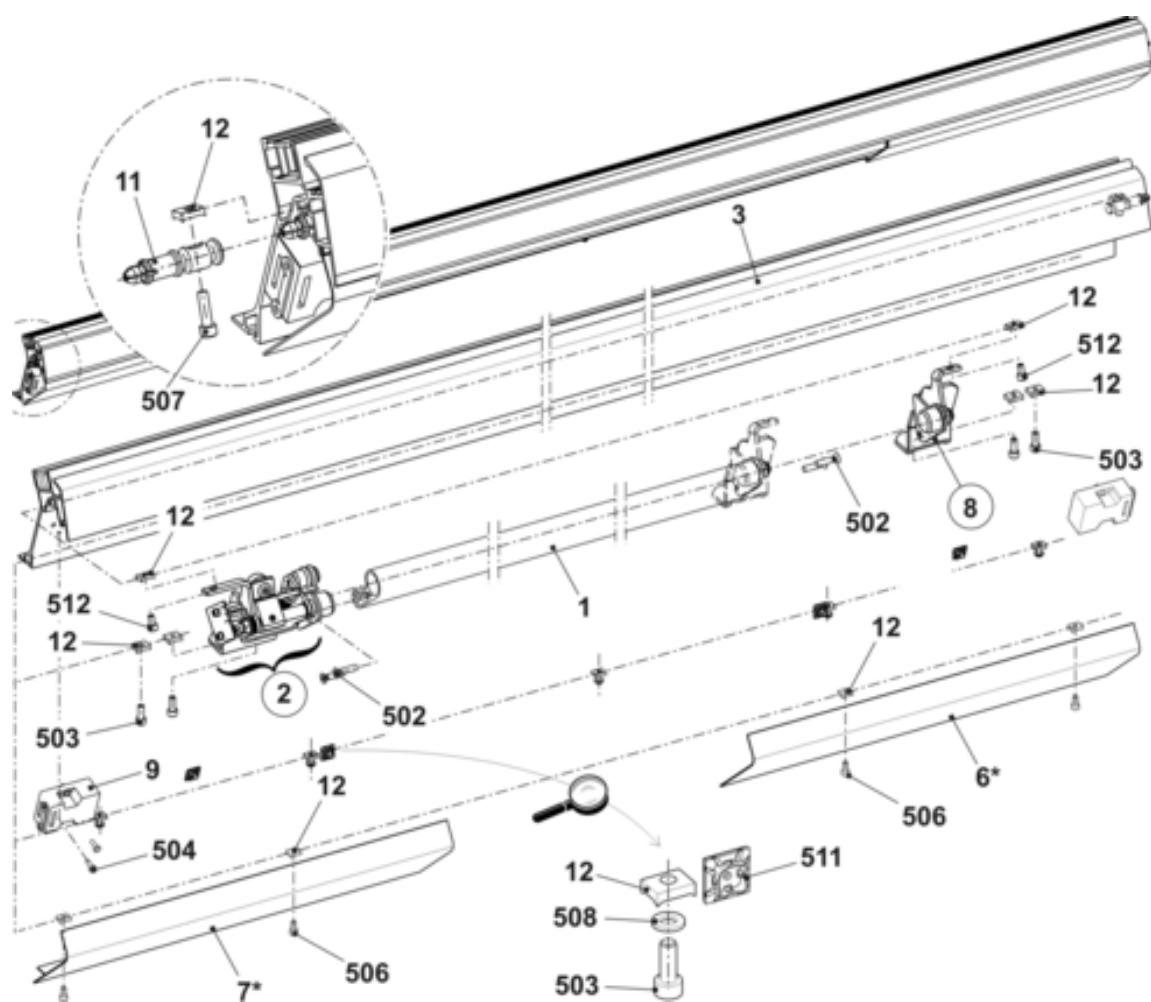
## 11.1 Input unit

Pos	Designation	Id		Pos	Designation	Id
$\Sigma$	Input unit complete	240 194				
1	Base frame	240 195		10*	Touch panel spare parts package	244 554
3	Bearing strip complete	240 198		502	Washer	020 901
4	Display touch complete	250 298		503	Screw KB 50x12	240 359
6	Touch pen	242 812		507	Screw KB 50x15	251 728



## 11.2 Starting device

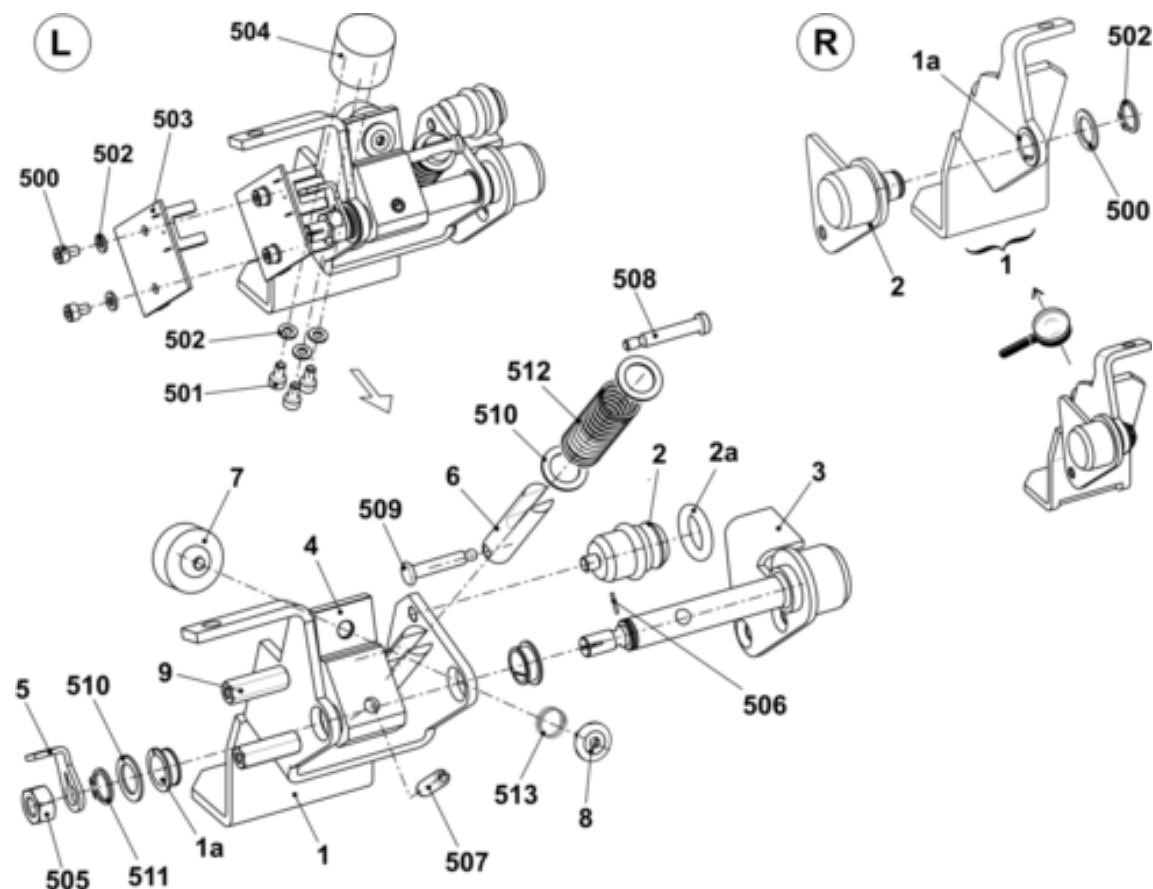
Pos	Designation	Id	Pos	Designation	Id
$\Sigma$	Starting device complete	240 306	12	Sliding nut (slot nut)	225 099
1	Engaging rod	240 227	502	Screw M6x25	023 510
2	Bearing on the left complete	250 071	503	Cap screwM6x16	020 135
3	Guide rail at the bottom complete	257 309	504	Pan-head screwM5x14	023 588
6*	Cover plate on the right	250 931	506	Cap screwM6x12	020 134
7*	Cover plate on the left	250 932	507	Cap screwM6x20	020 136
8	Bearing on the right complete	252 964	508	Washer	020 872
9	Switch with cable to safety doors	223 350	511	Adhesive base	243 055
11	Locating bolt	219 107	512	Cap screwM6x10	023 690



## 11.2 Starting device

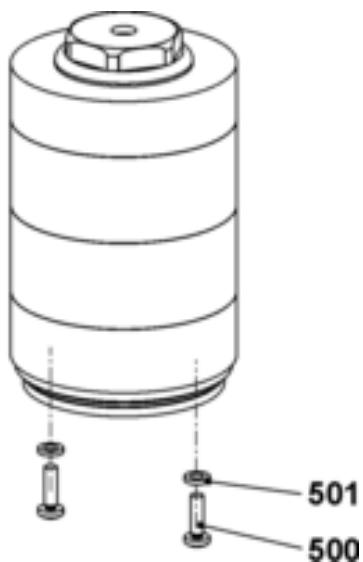
## 11.2.1 Bearing of the engaging rod

Pos	Designation	ID	Pos	Designation	ID
L	Bearing on the left complete	250 071			
1	Bearing on the left	245 218	505	Hexagon nut M8-6	020 838
1a	Clip bearing MCM 12-04	023 639	506	Dowel pin 1,5x8	236 923
2	Support of buffer	220 561	507	Spring dowel sleeve 6x20	023 719
2a	O-ring 14x4	023 237	508	Shoulder screw M4x24,8x7,7	240 299
3	Shaft on the left	245 219	509	Shoulder screw	251 316
4	Rotor	253 776	510	Shim ring 12x18x1	023 315
5	Switch flag	245 220	511	Locking ring 12x1	020 951
6	Spring mandrel	251 340	512	Compression spring 1,25x15x98,2	023 609
7	Disk	245 222	513	Compression spring 0,5x11x12	251 369
8	Shoulder screw	254 528			
9	Distance bolt	240 287	R	Bearing on the right complete	252 964
500	Cap screw M4x6	023 067	1	Bearing on the right	240 230
501	Cap 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	259 000	500	Shim ring 12x18x1	023 315
504	Adhesive magnet direct current	026 233	502	Locking ring 12x1	020 951



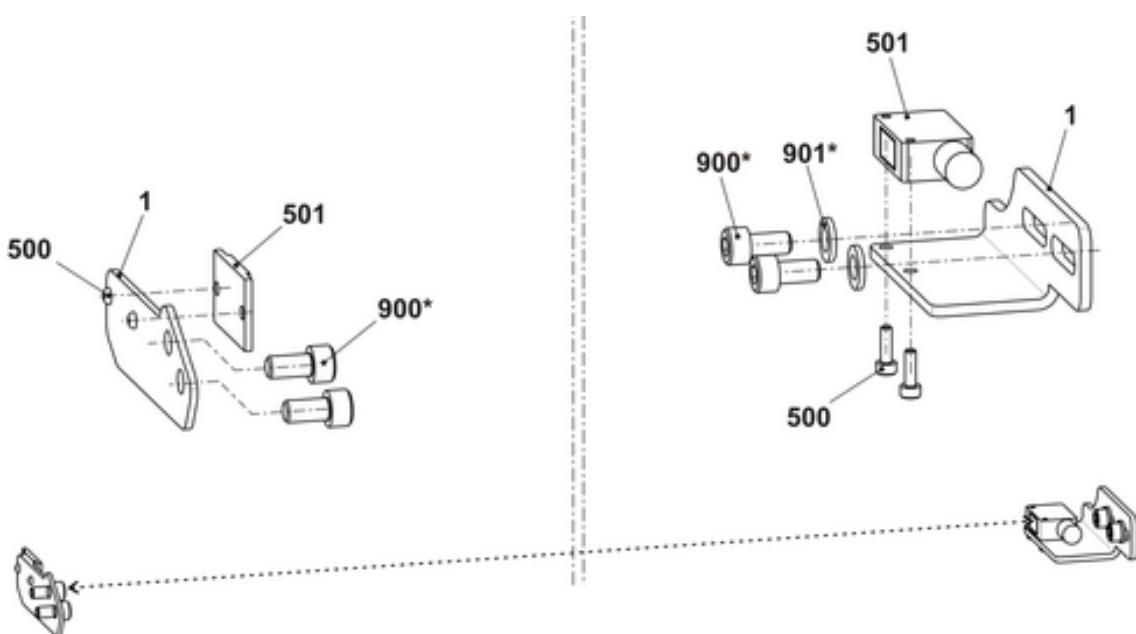
## 11.3 Signal light

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



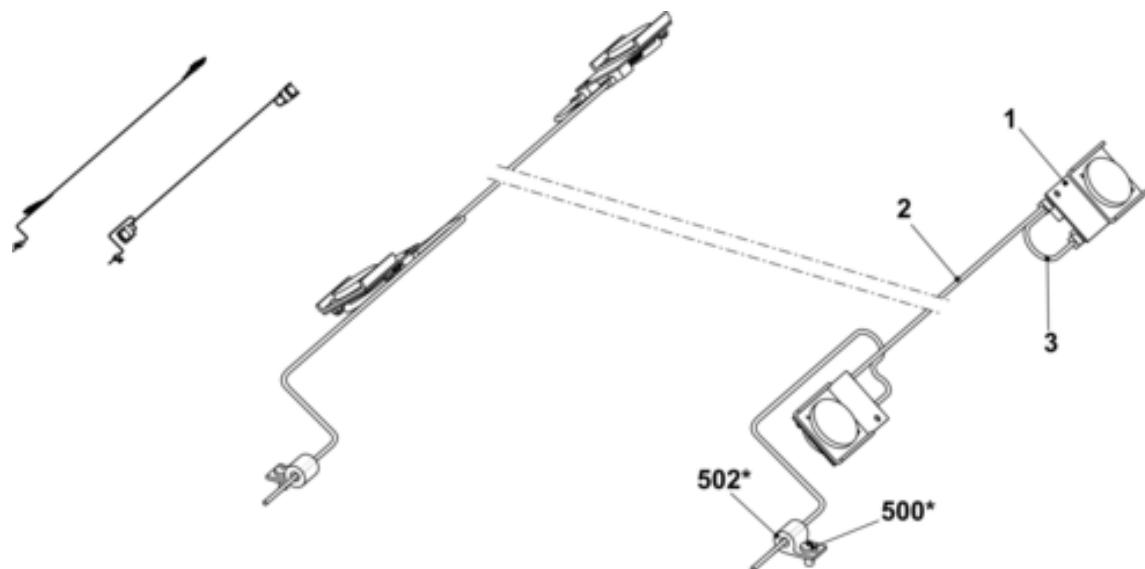
## 11.4 Collecting area - control

Pos	Designation	Id		Pos	Designation	Id
$\Sigma$	Reflector complete	256 826		$\Sigma$	Light barrier complete	256 825
1	Mounting plate reflector	256 675		1	Holding angle light barrier	256 674
500	Blind rivet A3x8-Al	023 158		500	Cap screw M3x10	022 991
501	Reflector 20x20 mm	243 356		501	Light barrier WI100-P4330	243 355
900*	Cap screw M6x12	020 134		900*	Cap screw M6x12	020 134
				901*	Washer6	020 872



## 11.5 Shock stop motion E3-4

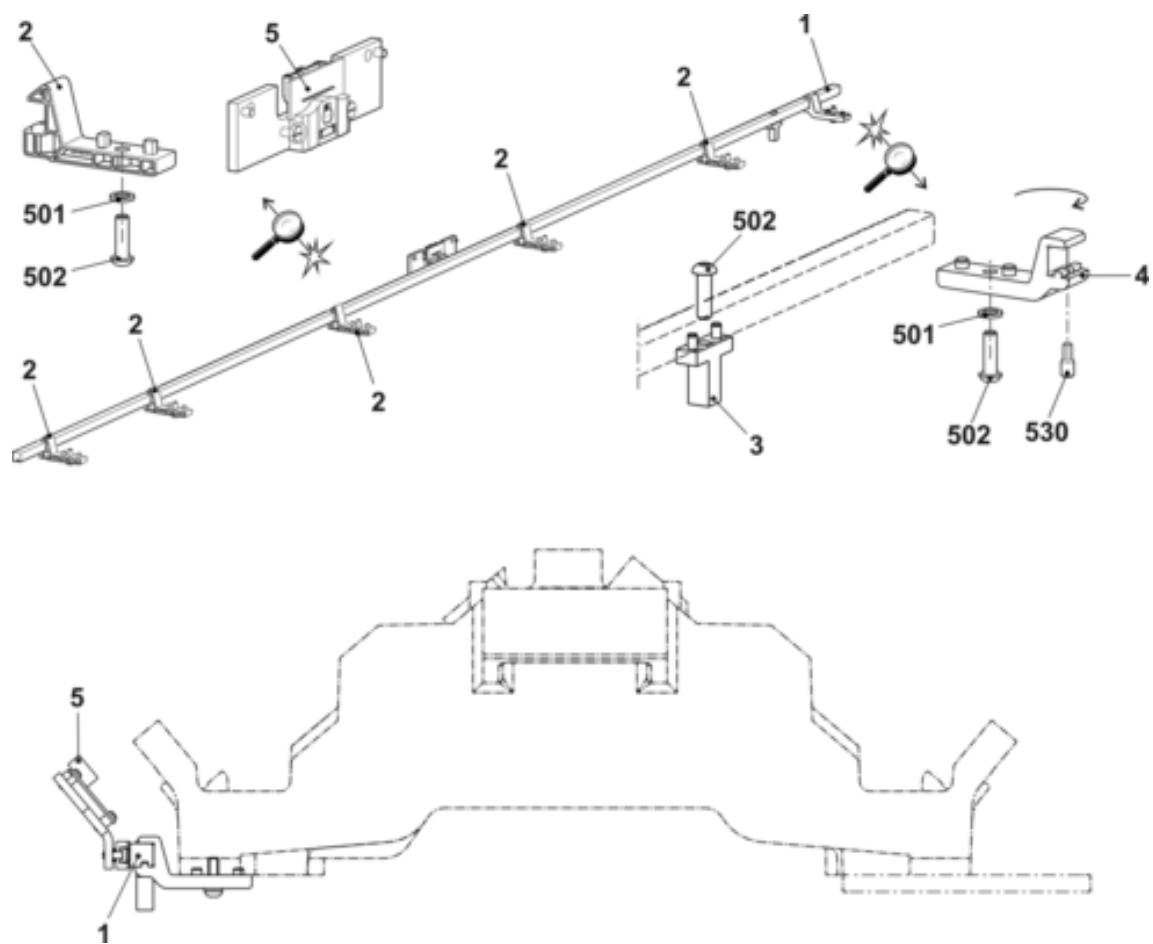
Pos	Designation	ID	Pos	Designation	ID
$\Sigma$	Shock stop motion complete E3   E4	224 242	3	End plug piezo sensor	220 062
1	Shock stop motion (Piezo)	220 011		Pan-head screw M4x8	023 036
2	Connecting cable piezo sensor	220 061		Cable clip N-3B, 5 mm	210 729



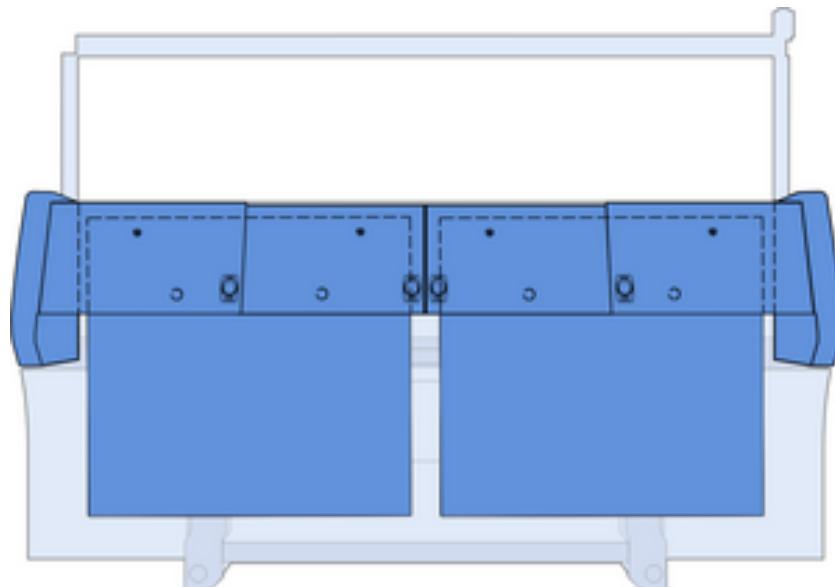
## 11.6 Measuring device

## 11.6 Measuring device

Pos	Designation	Id	Pos	Designation	Id
<b>Σ</b>	<b>Measuring device</b>		6	Spare parts package impulse sensor GLM	259 613
1	Measuring bar	257 370	501	Washer	020 881
2	Guide	251 676	502	Pan-head screw	241 603
3	Stop point	209 289	503	Screw 60x20	243 625
4	Guide	240 672	530	Setscrew	230 803

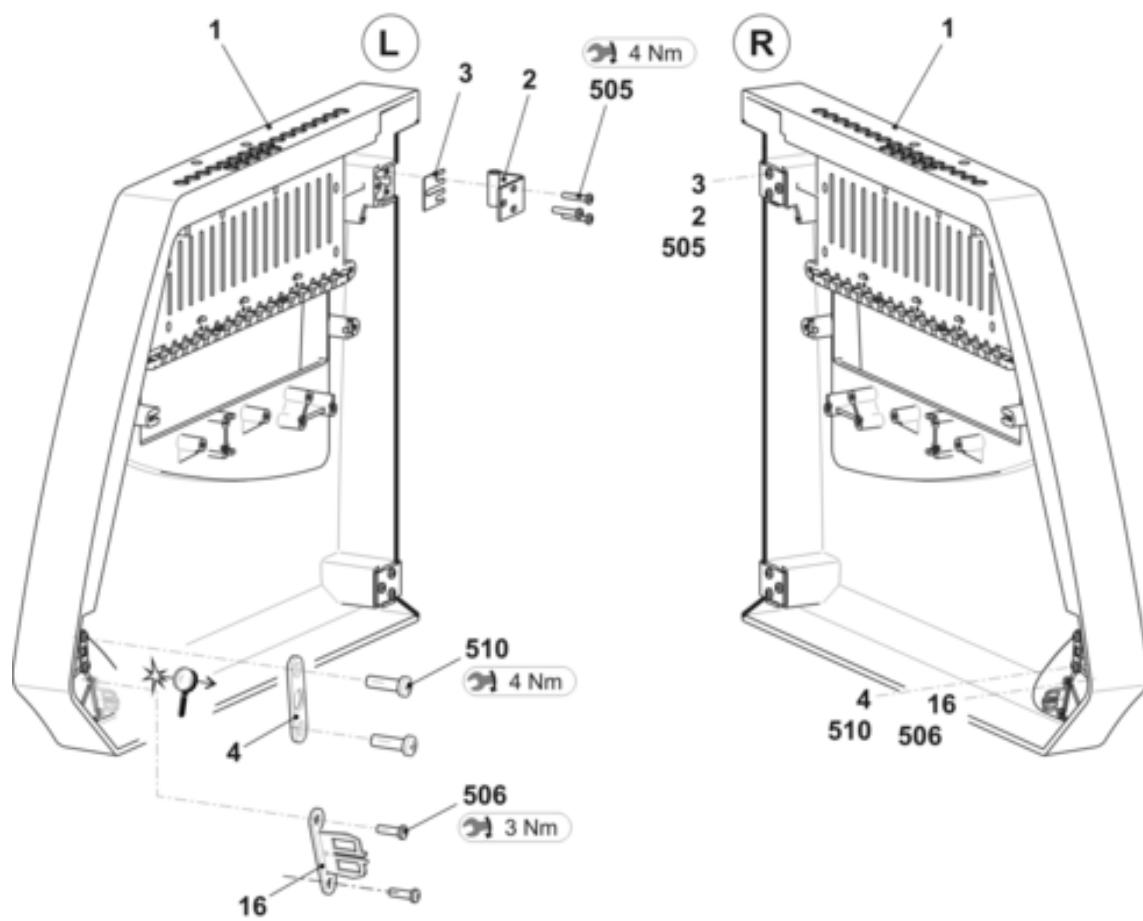


## 12 Protective units



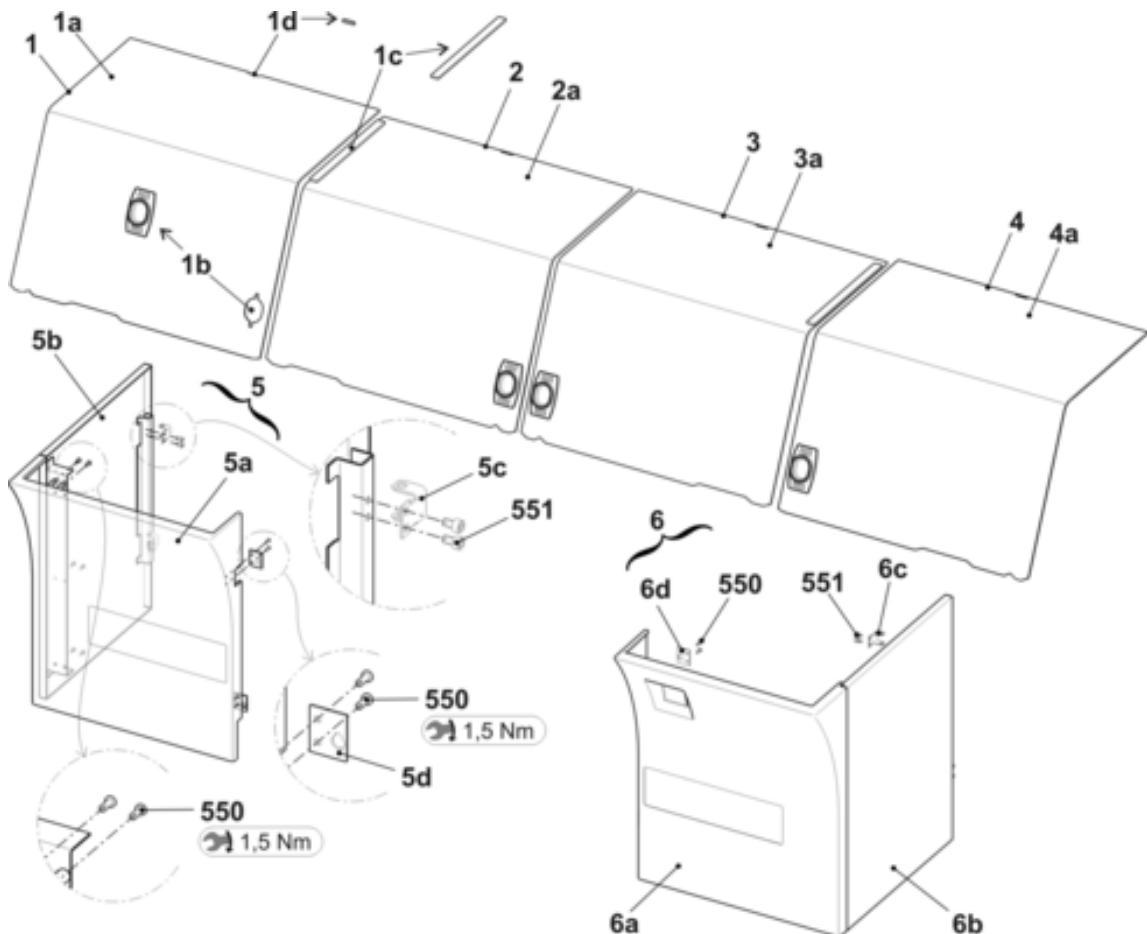
## 12.1 Lateral safety doors

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



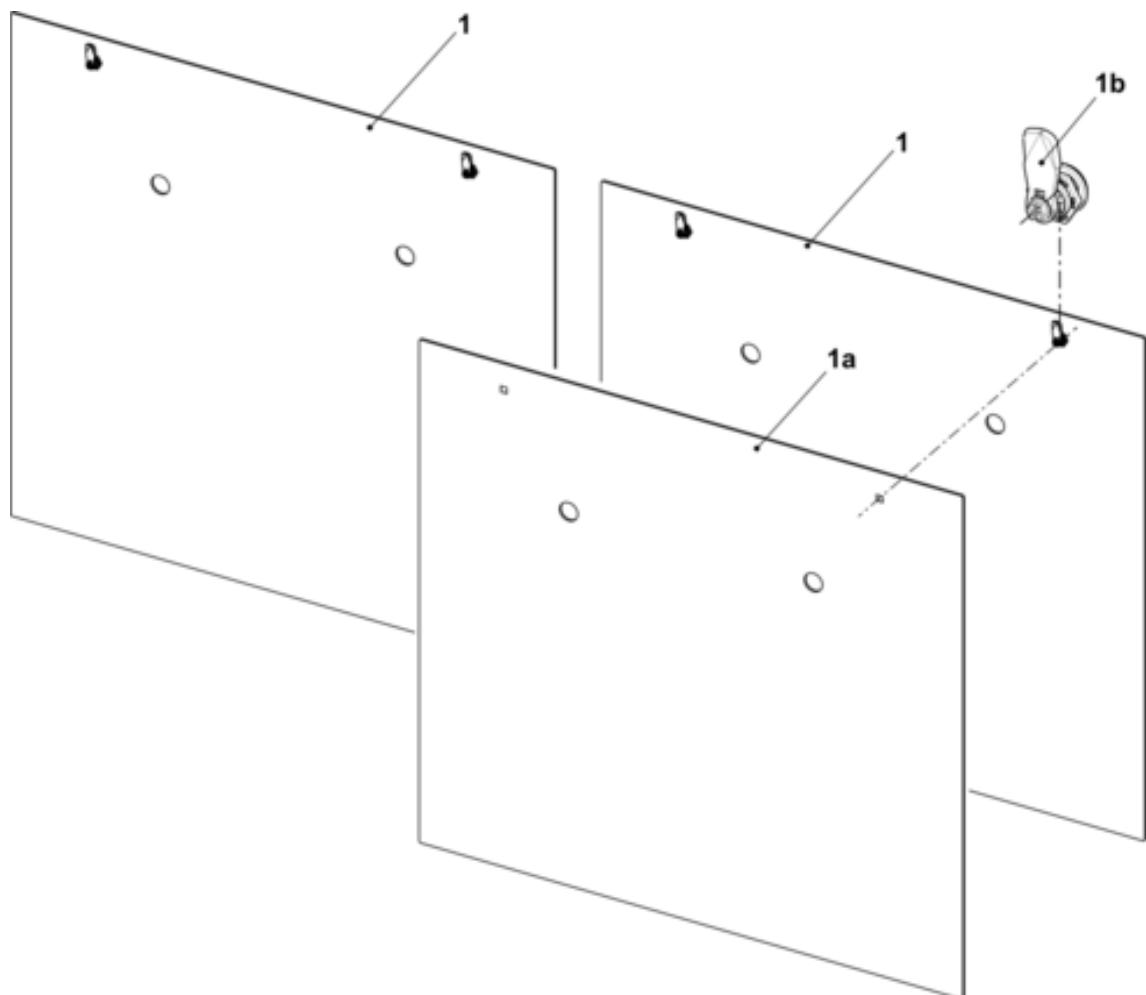
## 12.2 Panelling

Pos	Designation	Id		Pos	Designation	Id
1	Cover 1 complete	257 303		3	Cover 3 complete	257 305
	Cover complete				Cover complete	
	1a Cover 1	257 296			1a Cover 3	257 298
	1b Inlet type handle	251 376			1b Inlet type handle	251 376
	1c Stripper	219 393			1c Stripper	219 393
2	Magnet	204 666			1d Magnet	204 666
	Cover 2 complete	257 304	4	Cover 4 complete	257 306	
	Cover complete			Cover complete		
	2a Cover 2	257 297		4a Cover 4	257 299	
	1b Inlet type handle	251 376		1b Inlet type handle	251 376	
5	1c Stripper	219 393		1c Stripper	219 393	
	1d Magnet	204 666		1d Magnet	204 666	
	Control unit panelling on the left complete	251 233		6	Control unit panelling on the right complete	251 234
	5a Control unit panelling on the left	251 185			6a Control unit panelling on the right	251 186
	5b Side part	244 989			6b Side part	244 989
5	5c Hinge	250 273			6c Hinge	250 273
	5d Bracket	240 412			6d Bracket	240 412
	550 Screw KB 50x12	240 359			550 Screw KB 50x12	240 359
	551 Cap screw M6x16	020 135			551 Cap screw M6x16	020 135

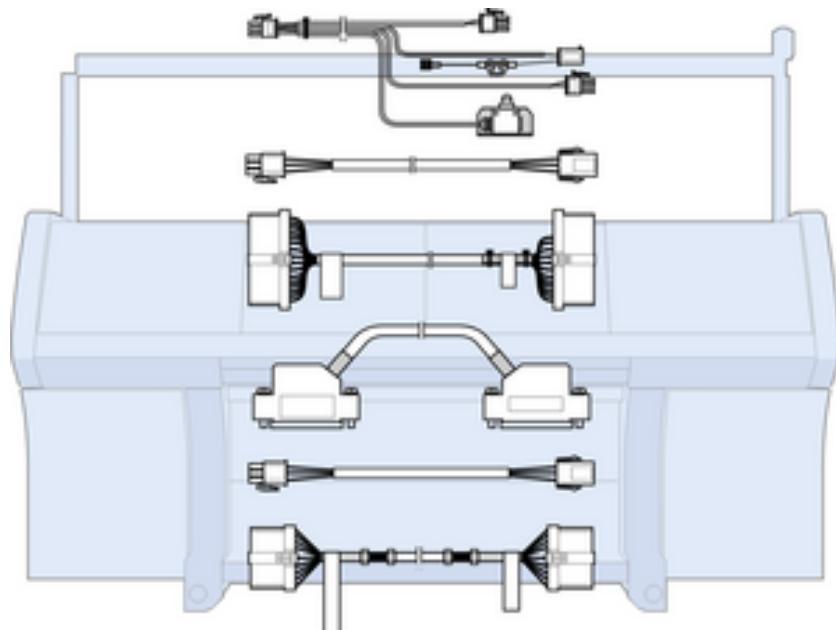


## 12.3 Rear panel

Pos	Designation	Id		Pos	Designation	Id
1	Panelling at the rear complete	257 668		1a	Panelling	257 662
				1b	Safety sash fastener	243 052



## 13 Electrical equipment

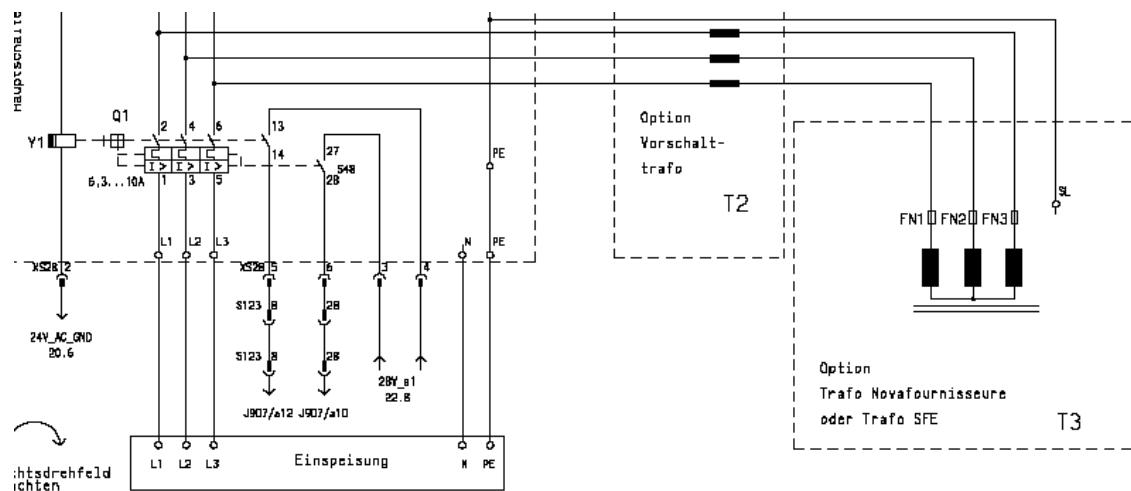


## 13.1 Circuit diagram (222) as PDF

## 13.1 Circuit diagram (222) as PDF

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

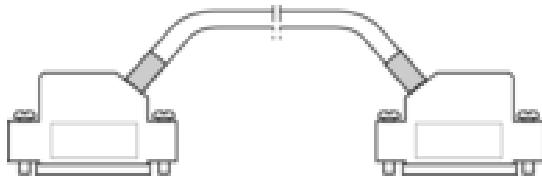
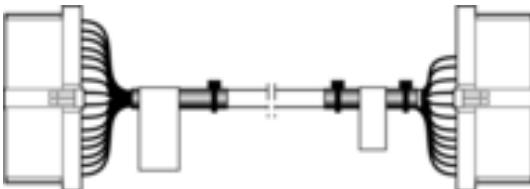
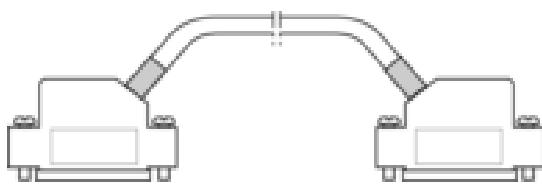
You will find the circuit diagram 222 on the CMS documentation DVD with the ID no. 257 157



## 13.2 Fuses

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

### 13.3 Trailing cable E5-8

Designation	ID	Designation	ID
Σ Trailing cable set 520C 1IMP. BME2 E3	254 884		
Cable carriage at the rear 520C BME2 XR332	255 054	Cable yarn carrier XR161	254 886
			
Cable carriage at the front 520C BME2 XR333	254 888	Cable impulse sensor at the rear XR136	255 050
			

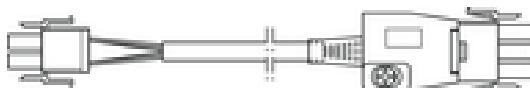
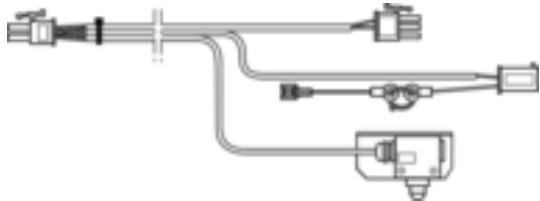
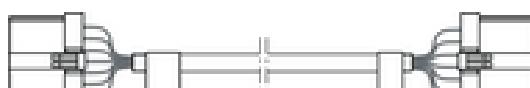
## 13.4 Cable set installation

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

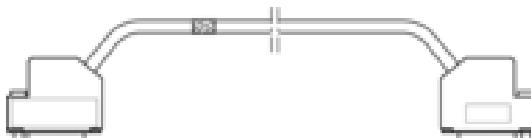
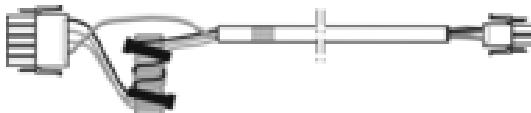
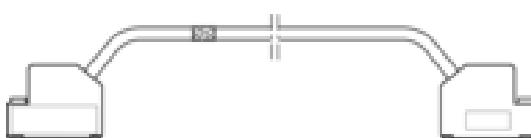
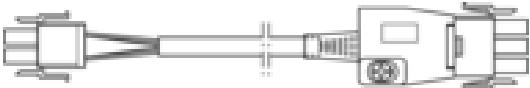
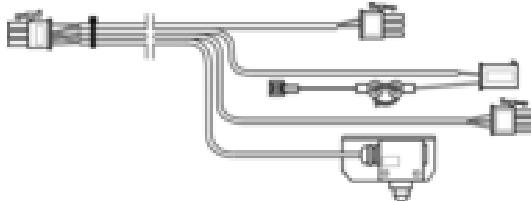
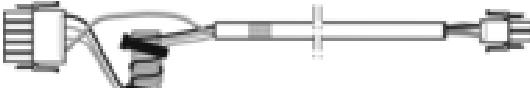


## 13.4 Cable set installation

## 13.4.1 Loom of cables base 1

Designation	ID	Designation	ID
Σ Loom of cables base 1 5XX	253 619		
Cable feed wheel on the left 50“ okc	240 464	Cable protective device on the left okc	253 620
			
Cable Engaging rod ECO2	252 538		
			

### 13.4.2 Loom of cables base 2

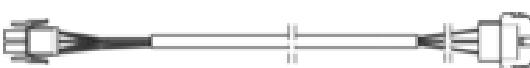
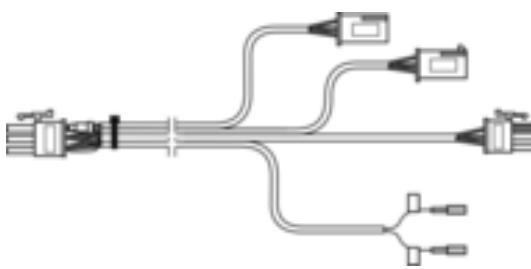
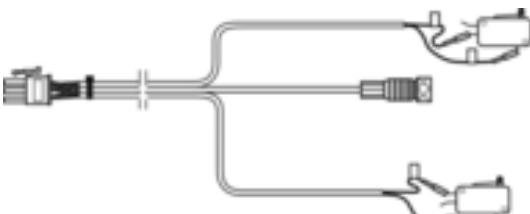
Designation	ID		Designation	ID
Σ Loom of cables base 2okc	240 257		Cable resolver drive okc 3xx	240 296
Cable motor HIAB	240 291			
				
Cable racking limit switch okc 3xx	240 292		Cable racking motor okc 3xx	240 297
				
Cable fan drive 3xx okc	240 293		Cable resolver racking okc 3xx	240 298
				
Cable feed wheel on the right / on the left okc	240 294		Cable protective device on the right okc	253 441
				
Cable drive motor okc 3xx	240 295			
				

## 13.4 Cable set installation

## 13.4.3 Loom of cables

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

#### 13.4.4 Loom of cables comb

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

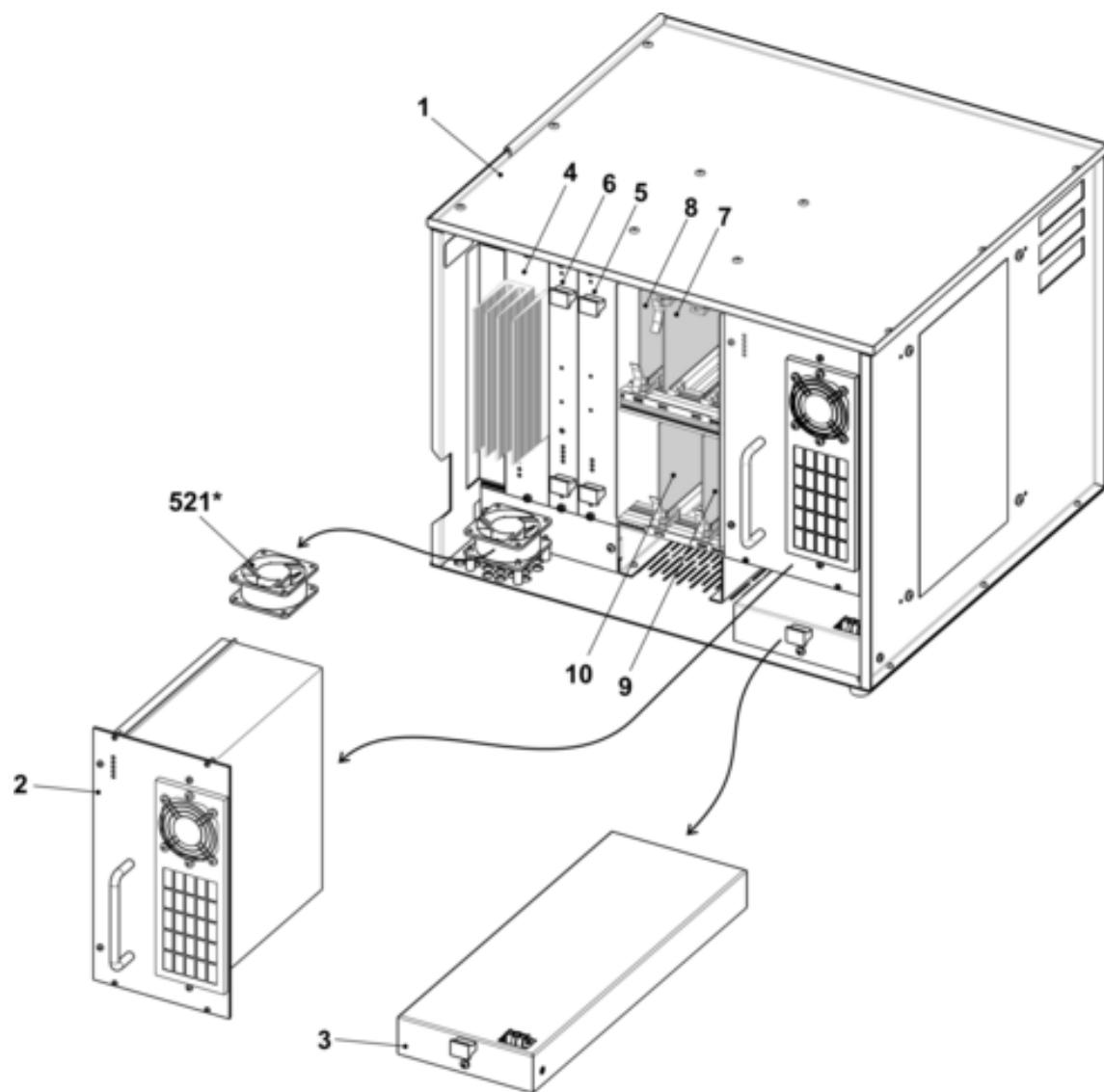
Notes:

## 14 Control electronics

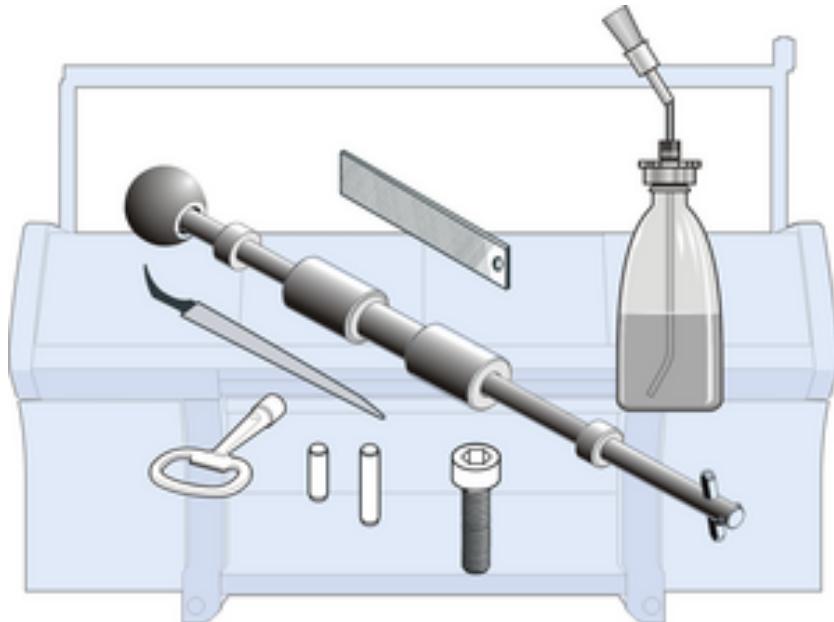


## 14.1 Control cabinet

Pos	Designation	Id	Pos	Designation	Id
$\Sigma$	Control unit on the right complete 520 5/6 ZOLL	254 852	6	Card BIO ECO2	301 007
1	Control unit without equipment 5XX 5/6 Zoll	254 854		Card final stages 4SM 7TE	300 943
2	Power supply unit CG54 1-Kanal	300 923		Card N-CPU 432	300 965
3	Battery plug-in unit	301 008		Card Power CPU B	301 009
4	Card Servo 6	301 000		Card IPC P8X S 01	301 010
5	Card C-WAZ ECO2	301 006		521*	Axial flow fan Servo 5
					229 059



# 15 Deliverable accessories

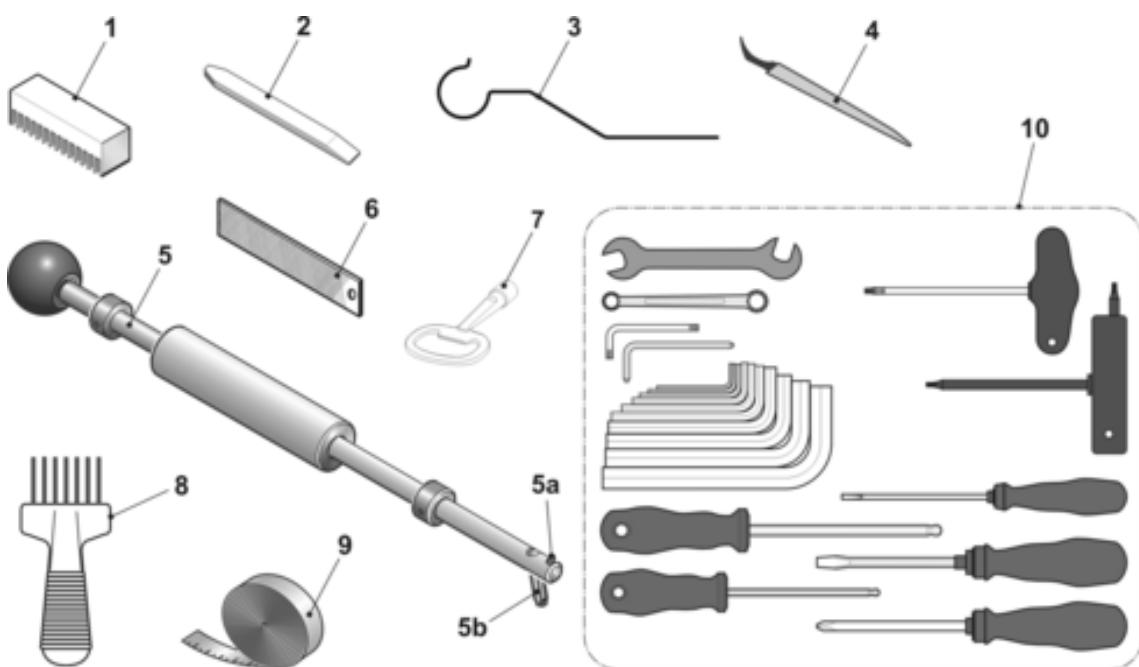


You can order the following tools, lubricants and expendables.  
The following list does not correspond to the scope of delivery of the knitting machine.

## 15.1 Tool

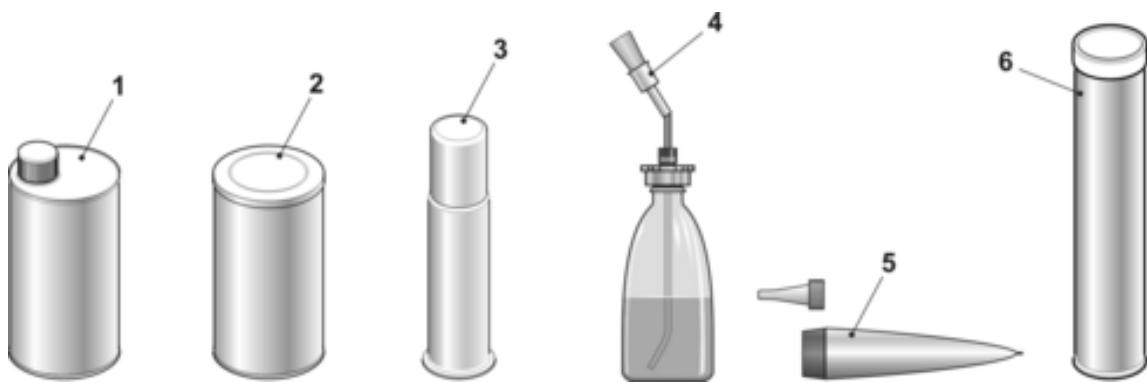
## 15.1 Tool

Pos	Designation	Id	Pos	Designation	Id
1	Channel support E4	062 309	6	Groove file 1,33mm E3-4	006 169
	Channel support E5, E2,5.2	062 310		Groove file 1,25mm E5-8, E3,5.2	006 170
	Channel support E7, E3,5.2	062 312		Groove file 0,90mm E10-12, E5.2   6.2	006 175
	Channel support E8	062 313		Groove file 0,73mm E14, E7.2	006 173
	Channel support E10, E5.2	062 314		Groove file 0,45mm E16-18, E9.2	006 179
	Channel support E12, E6.2	062 315	7	Key of switch cabinet	009 346
	Channel support E14, E7.2	218 069		Groove cleaner E4	031 232
	Channel support E16, E8.2	230 188		Groove cleaner E5	031 233
	Channel support E18, E9.2	230 189		Groove cleaner E6	031 234
	Channel support E20	230 190		Groove cleaner E7, E3,5.2	031 235
2	Channel chisel E14-20 (E5-14)	062 316	8	Groove cleaner E8	031 236
	Channel chisel E4-8 (E3,5.2)	062 317		Groove cleaner E10 (E5.2)	031 238
	Channel chisel E10-14	062 318		Groove cleaner E12 (E6.2)	031 240
3	Yarn guide on the left	227 071		Groove cleaner E14 (E7.2)	031 242
	Yarn guide on the right	227 070		Groove cleaner E16	225 111
4	Working hook	227 249		Groove cleaner E18 (E9.2)	225 112
5	Extraction hook	232 027		Groove cleaner E20	225 113
	5a	Small pin	9	Measuring tape L=150cm	228 180
	5b	Pencil		Tool kit	209 527



## 15.2 Lubricating stuff

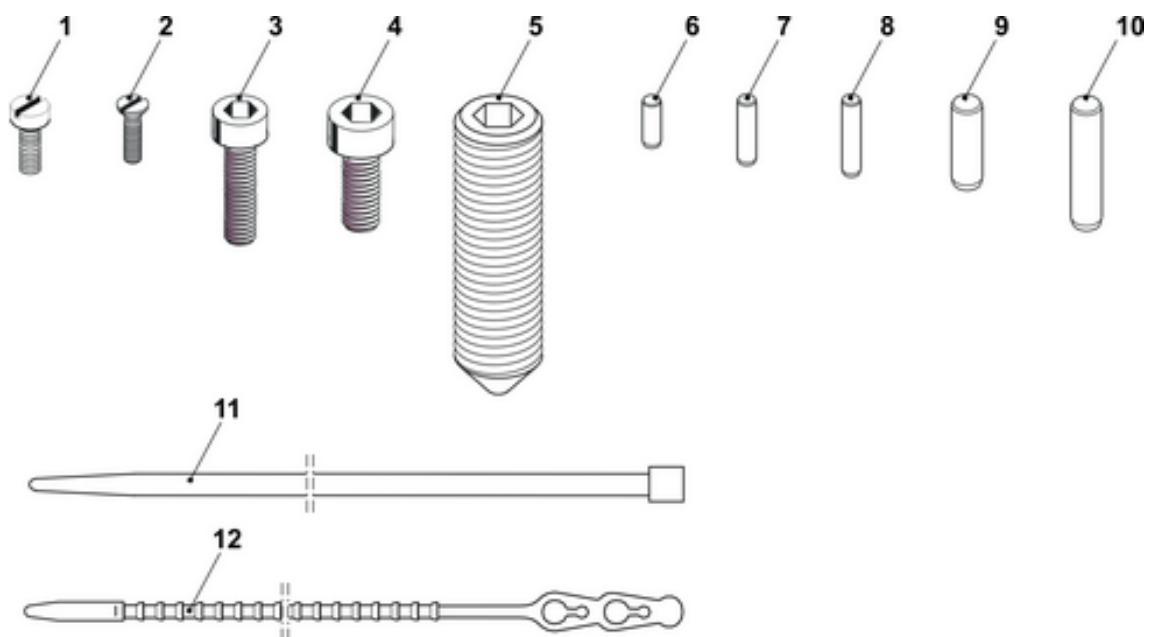
Pos	Designation	Id	Pos	Designation	Id
1	Silvertex T 46, 1l	230 614	4	Oil combifix	216 732
2	Grease OKS 475, 1kg	009 200		White grease paste OKS270	229 372
3	Grease OKS 475, 150g	005 351		Grease Staburags NBU 12/300KP	231 191



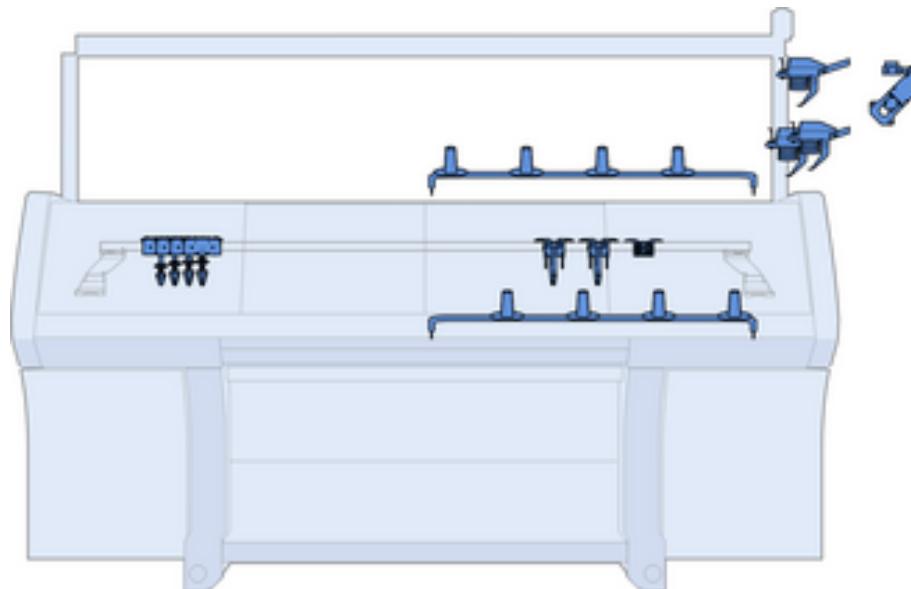
## 15.3 Mechanical parts

## 15.3 Mechanical parts

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



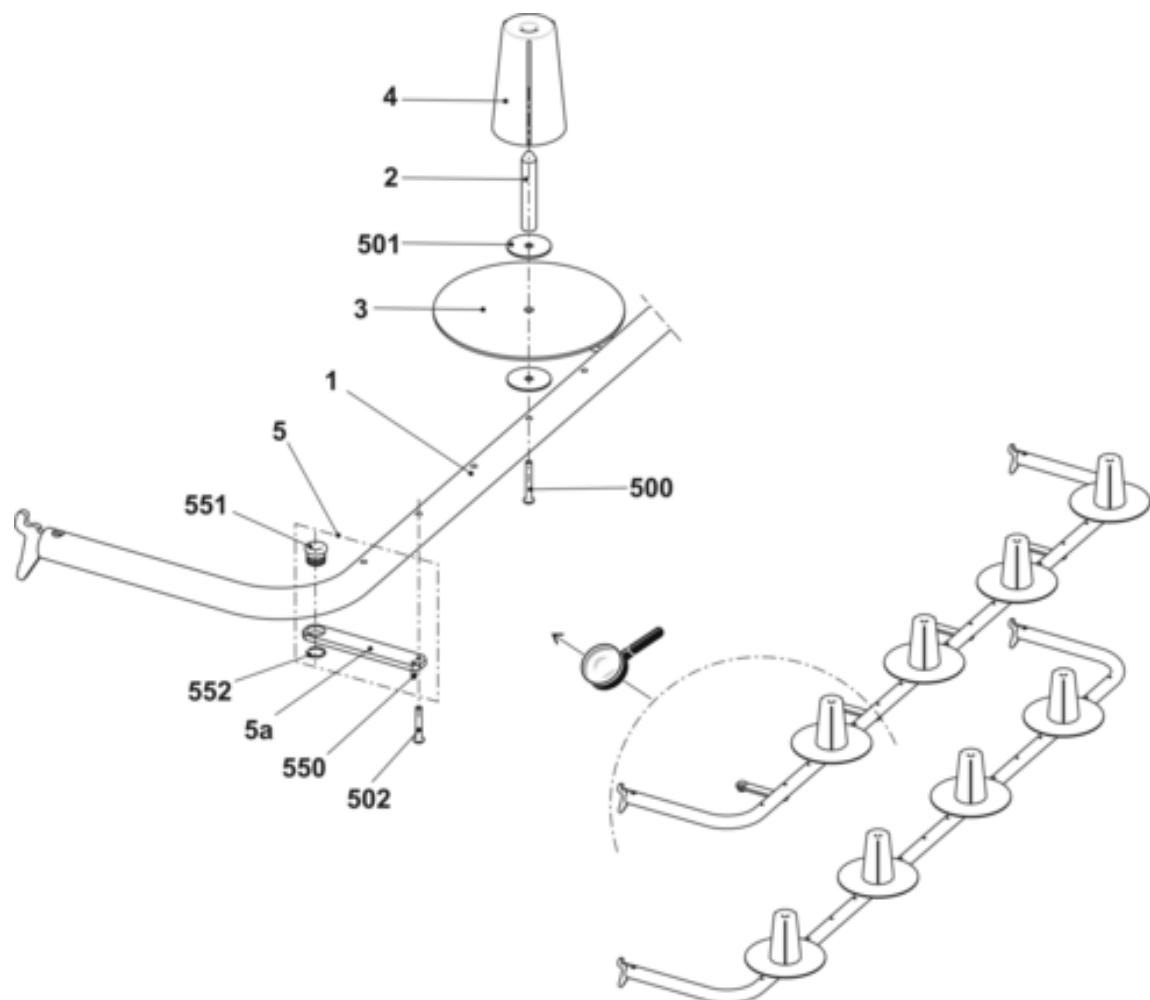
## 16 Special attachments



## 16.1 Additional bobbin board (top, bottom)

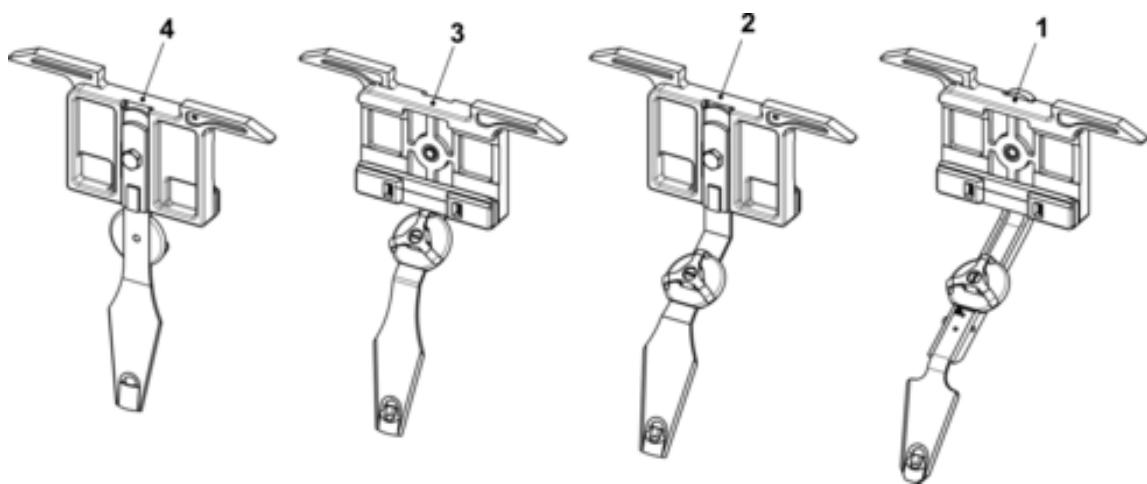
**16.1 Additional bobbin board (top, bottom)**

Pos	Designation	ID		Pos	Designation	ID
$\Sigma$	Additional bobbin board 50" IFF complete	244 424				
1	Additional bobbin board welded	243 608		5	550 Dowel pin 3x12	020 647
2	Positioning pin	202 777		551	Eyelet	021 504
3	Disk D=130	062 385		552	Snap ring A12	020 996
4	Bobbin support	200 363		500	Pan-head screw M4x30	023 681
5	Yarn guide	243 765		501	Washer 5,3x30x1,25	023 556
5a	Guide part	243 623		502	Pan-head screw M4x25	023 511



## 16.2 Yarn carrier carriage

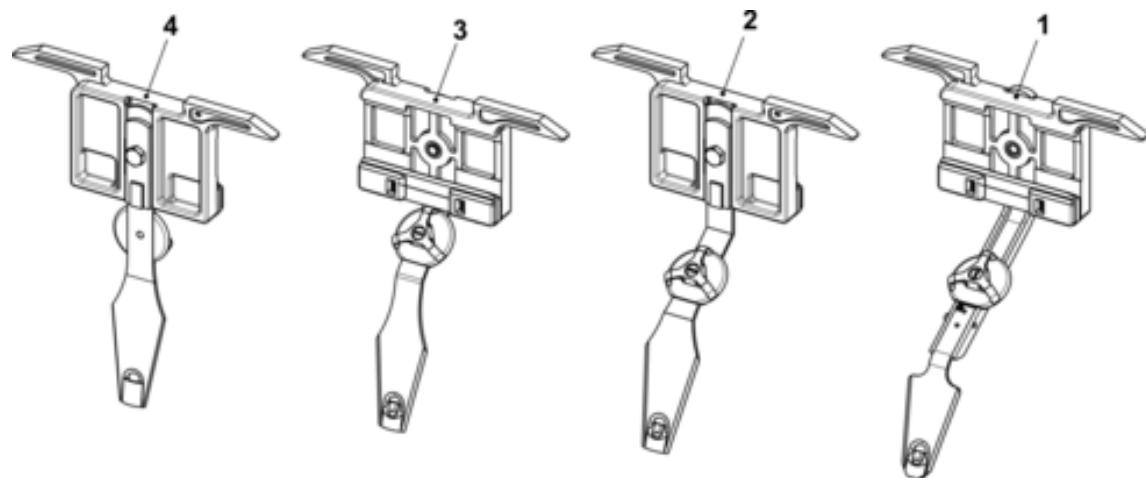
Pos	Designation	ID	Pos	Designation	ID
1	Yarn carrier carriage 1+8 complete	217 486	3	Yarn carrier carriage 3+6 complete	217 488
2	Yarn carrier carriage 2+7 complete	217 487		Yarn carrier carriage 4+5 complete	217 489



## 16.3 Yarn carrier carriage (for ultra coarse yarns)

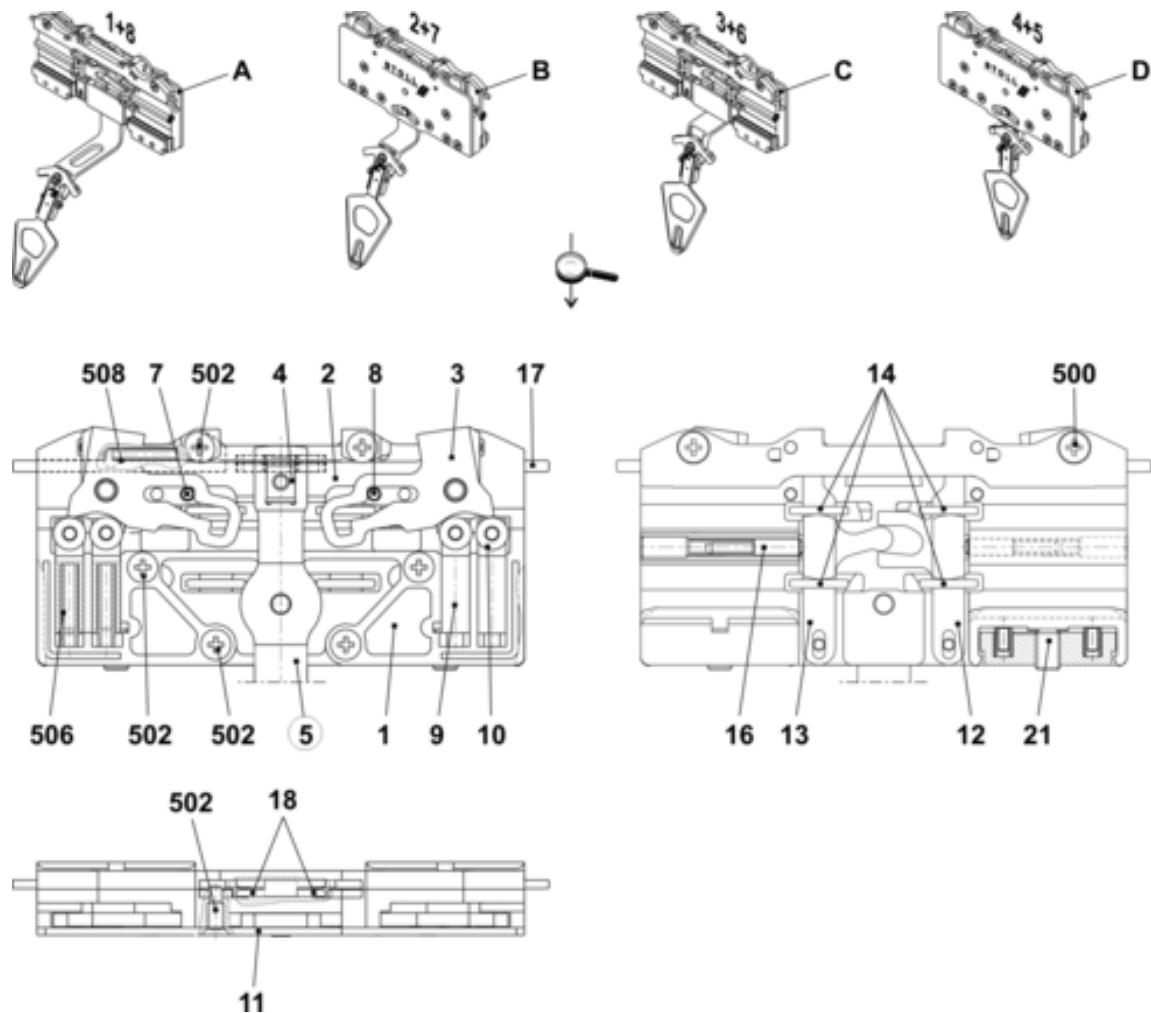
**16.3 Yarn carrier carriage (for ultra coarse yarns)**

Pos	Designation	ID		Pos	Designation	ID
1	Yarn carrier carriage 1+8 complete	231 856		3	Yarn carrier carriage 3+6 complete	231 858
2	Yarn carrier carriage 2+7 complete	231 857		4	Yarn carrier carriage 4+5 complete	231 859



## 16.4 Complete intarsia yarn carriers

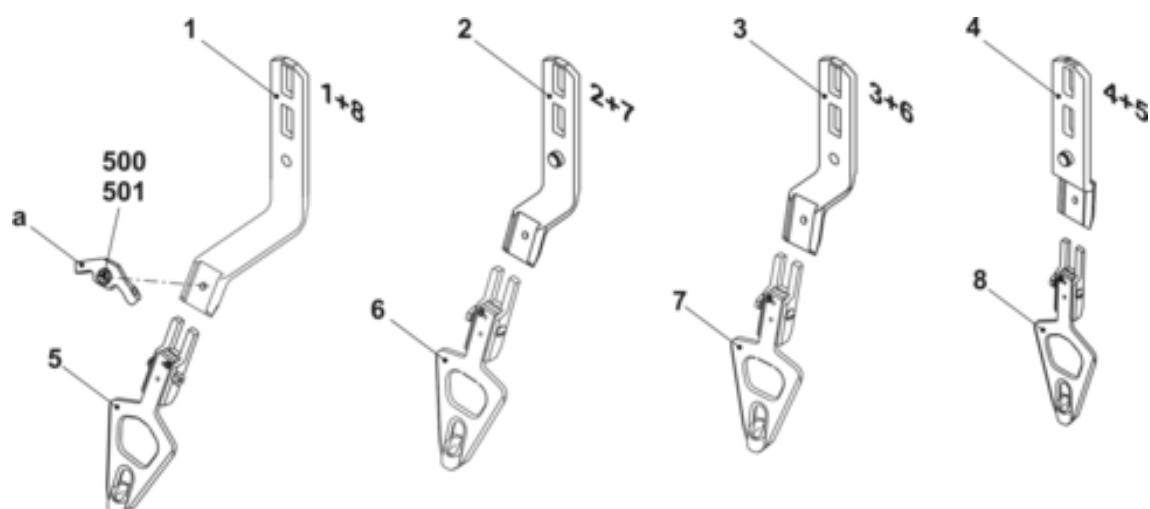
Pos	Designation	ID		Pos	Designation	ID
<b>ΣA</b>	IFF carriage 1+8 complete	213 773		10	Pressure roller	212 774
<b>ΣB</b>	IFF carriage 2+7 complete	213 774		11	Cover	213 392
<b>ΣC</b>	IFF carriage 3+6 complete	213 775		12	Clamping lever on the right	216 100
<b>ΣD</b>	IFF carriage 4+5 complete	213 776		13	Clamping lever on the left	216 101
1	Basic plate complete	213 408		14	Pressure plate 2,04	201 654
2	Slider	217 188			Pressure plate 2,06	208 924
3	Locking bar	212 508		16	Spring pin	201 677
4	Sliding block	213 807		17	Lifter	212 547
5	Yarn carrier bow x+y complete			18	Sliding part	213 391
7	Locating pin 3,3 (2+7/3+6)	212 504		21	Threaded bolt	213 399
	Locating pin 3,4 (1+8/2+7/3+6/4+5)	212 505		500	Countersunk head screw M4x6	022 994
8	Locating pin 3,3 (2+7/3+6/4+5)	212 504		502	Countersunk head screw M4x12,5	022 979
	Locating pin 3,4 (2+7/3+6/4+5)	212 505		506	Compression spring 4,0x0,7x25	022 969
	Locating pin 3,5 (1+8)	212 506		508	Compression spring 2,8x0,35x19	023 394
9	Thrust piece	212 773				



## 16.4 Complete intarsia yarn carriers

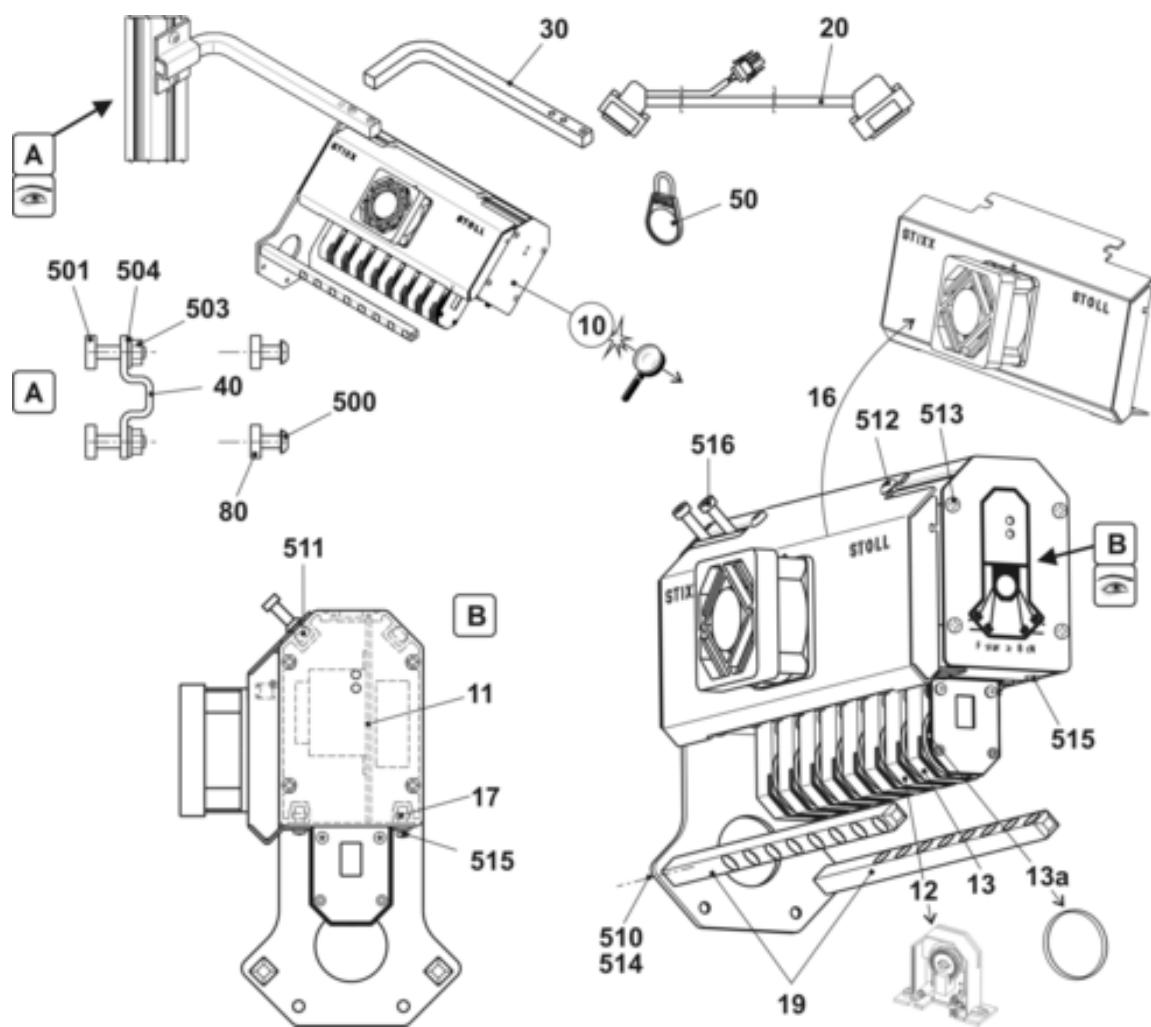
## 16.4.1 Bow and head IFF

Pos	Designation	ID		Pos	Designation	ID
<b>Σ</b>	IFF carriage 1+8 complete	213 773		5	YC head 1+8 complete	216 352
	IFF carriage 2+7 complete	213 774		6	YC head 2+7 complete	216 353
	IFF carriage 3+6 complete	213 775		7	YC head 3+6 complete	216 354
	IFF carriage 4+5 complete	213 776		8	YC head 4+5 complete	216 355
1	FF bow 1+8 complete	213 768		a	Yarn guide angle	201 672
2	FF bow 2+7 complete	213 769		500	Cap screw M4x8	022 977
3	FF bow 3+6 complete	213 770		501	CirclipS4-FST	022 774
4	FF bow 4+5 complete	213 771				



## 16.5 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	Pan-head screw M8x16	023 113	17	Threaded strip	211 801
501	T-head bolt M8x25	022 866	19	Yarn guide rod	211 352
503	Hexagon nut M8-6	020 838	510	Pan-head screw M5x10	023 247
504	Washer8,4	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



## 16.6 Feed wheel SFE

Pos	Designation	ID	Note
$\Sigma$	Attachment set storage feed wheel SFE	231 427	
1	Transformer with cable	231 979	
2	Mounted set SFE without transformer	231 980	
2a	SFE feed wheel	231 537	
			Please order the SFE spare parts at: MEMMINGER-IRO GMBH Jakob-Mutz-Strasse 7 D-72280 Dornstetten Tel.: +49 (0)7443 281-0 Fax: +49 (0)7443 281-101  The item no. and the designation for the SFE spare parts can be found in the enclosed assembling instructions of the company MEMMINGER-IRO.

