

STOLL

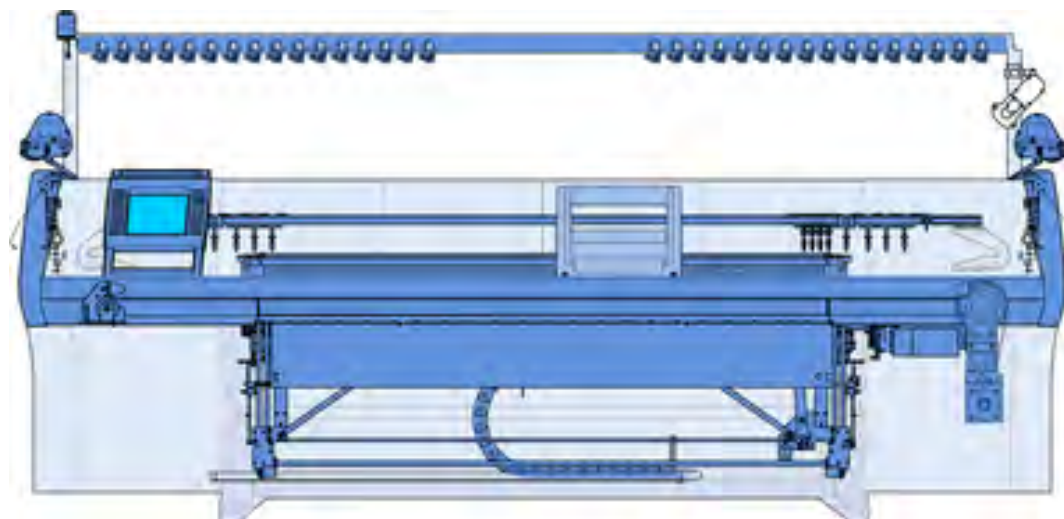
THE RIGHT WAY TO KNIT

Spare parts catalog

CMS 830C (Type 631)

Component type 03

E2,5.2



Document no. 257125_03_GB

Release 11/2011

Table of contents

1	Introduction	7
1.1	Search help	8
1.2	Torques	9
2	Carriage drive	11
2.1	Drive	12
2.1.1	Motor and belt drive	13
2.1.2	Tension bearing	14
2.2	Energy chain and plunger	15
3	Racking	17
3.1	Racking drive	18
4	Needle beds	19
4.1	Needle bed E2,5.2	20
4.2	Continuation needle bed E2,5.2	21
4.3	Left clamping/cutting bed	22
4.4	Clamping/cutting bed on the right	23
4.5	Cover on the left and on the right	24
5	Carriage	25
5.1	Overview of Carriage Parts	26
5.2	Needle cam at the top	27
5.3	Needle cam at the bottom	28
5.4	Yarn carrier driving without guide part	29
5.5	Yarn carrier driving with guide part	30
5.6	Jack cam box	31
5.7	Holding-down jack cam box E2,5.2	32
5.8	Carriage assembly	33
5.9	Carriage cover	34
5.10	Carriage guide	35
5.11	Needle detector	36
5.12	Brush holder	37
5.13	Spare parts package carriage guide rail	38
6	Main take-down	39
6.1	Main take-down	40
6.2	Main take-down on the left	41
6.3	Main take-down on the right	42
6.3.1	Mounting plate	43

6.3.2	Full floating axle	44
6.4	Main take-down in the middle	45
6.4.1	Rear take-down roller	46
6.4.2	Front take-down roller	47
6.4.3	Front roller elements	48
6.4.4	Pressure angle rail	49
6.4.5	Stripper angle	50
6.4.6	Impulse sensor and motor	51
6.5	Take-down closing device	52
6.6	Continuation of take-down closing device	53
6.6.1	Right swivel support	54
6.6.2	Swivel holder in the middle	55
6.6.3	Left swivel holder	56
7	Auxiliary take-down	57
7.1	Auxiliary take-down	58
7.1.1	Auxiliary take-down pre-assembled	59
7.1.1.1	Contact lever	60
7.1.1.2	Take-down roller	61
7.1.1.3	Left bearing of the auxiliary take-down	62
7.1.1.4	Right bearing of the auxiliary take-down	63
7.1.2	Motor	64
7.2	Yarn brake at clamping and cutting bed	65
8	Comb take-down	67
8.1	Comb take-down	68
8.1.1	Comb take-down on the left	69
8.1.2	Comb take-down on the right	70
8.1.2.1	Drive shaft of comb	71
8.1.2.2	Swivel lever comb take-down	72
8.1.3	Comb take-down in the middle	73
8.1.3.1	Comb unit	74
8.1.3.1.1	Switching lever comb take-down	75
8.1.3.2	Impulse sensor and motor	76
9	Yarn delivery device	77
9.1	Yarn guide system with 32 FKE	78
9.2	Left yarn guide	79
9.2.1	Left yarn tensioner	80
9.2.2	Left tension axle	81
9.2.3	Yarn brake	82
9.2.4	Yarn deflector	83
9.3	Right yarn guide	84
9.3.1	Right yarn tensioner	85
9.3.2	Right tension axle	86
9.4	Carriage of yarn carrier	87
9.5	Bar unit	88

9.6	Bobbin board	89
9.7	Left friction feed wheel	90
9.8	Right friction feed wheel	91
10	Fluff absorption	93
10.1	Fluff absorption	94
10.2	Lint container	95
10.3	Set of hose	96
10.4	Suction tube	97
11	Operation and control	99
11.1	Input unit	100
11.2	Starting device	101
11.2.1	Bearing of the engaging rod	102
11.3	Signal light	103
11.4	Collecting area - control	104
11.5	Shock stop motion	105
11.6	Measuring device	106
12	Protective units	107
12.1	Lateral safety doors	108
12.2	Panelling	109
12.3	Rear panel	110
13	Electrical equipment	111
13.1	Circuit diagram (221) as PDF	112
13.2	Fuses	113
13.3	Trailing cable	114
13.4	Cable set installation	115
13.4.1	Loom of cables base 1	116
13.4.2	Loom of cables base 2	117
13.4.3	Kabelstrang 84"	118
13.4.4	Loom of cables COMB	119
14	Control electronics	121
14.1	Left control cabinet	122
14.2	Right control cabinet	123
15	Deliverable accessories	125
15.1	Tool	126
15.2	Lubricating stuff	127

15.3	Mechanical parts	128
16	Special equipment	129
16.1	Complete intarsia yarn carriers	130
16.1.1	Carriage IFF	131
16.1.2	Bow and head IFF	132
16.2	Complete yarn carriers	133
16.3	Carriage of plating yarn carrier	134
16.4	Additional board at the bottom	135
16.5	Additional board retrofit kit	136
16.6	Bobbin holder on the left	137
16.7	Bobbin holder on the right	138
16.8	Yarn length measuring device on the left complete	139
16.8.1	Yarn length measuring device	140
16.9	Yarn length measuring device on the right complete	141
16.9.1	Yarn length measuring device on the right	142
16.10	Friction feed wheel on the left and on the right complete	143
16.10.1	Friction feed wheel on the left	144
16.10.2	Friction feed wheel on the right	145

1 Introduction

Imprint

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Notes for the order

This catalog serves to order spare parts.

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

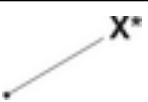
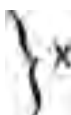
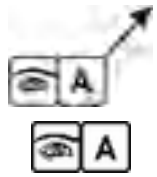
When ordering spare parts we imperatively ask for the following indications as otherwise a delivery of spare parts is not possible:

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

Only genuine STOLL spare parts may be used for repairs.

1.1 Search help

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

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

1.2 Torques

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

Preferential row of screw torques

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

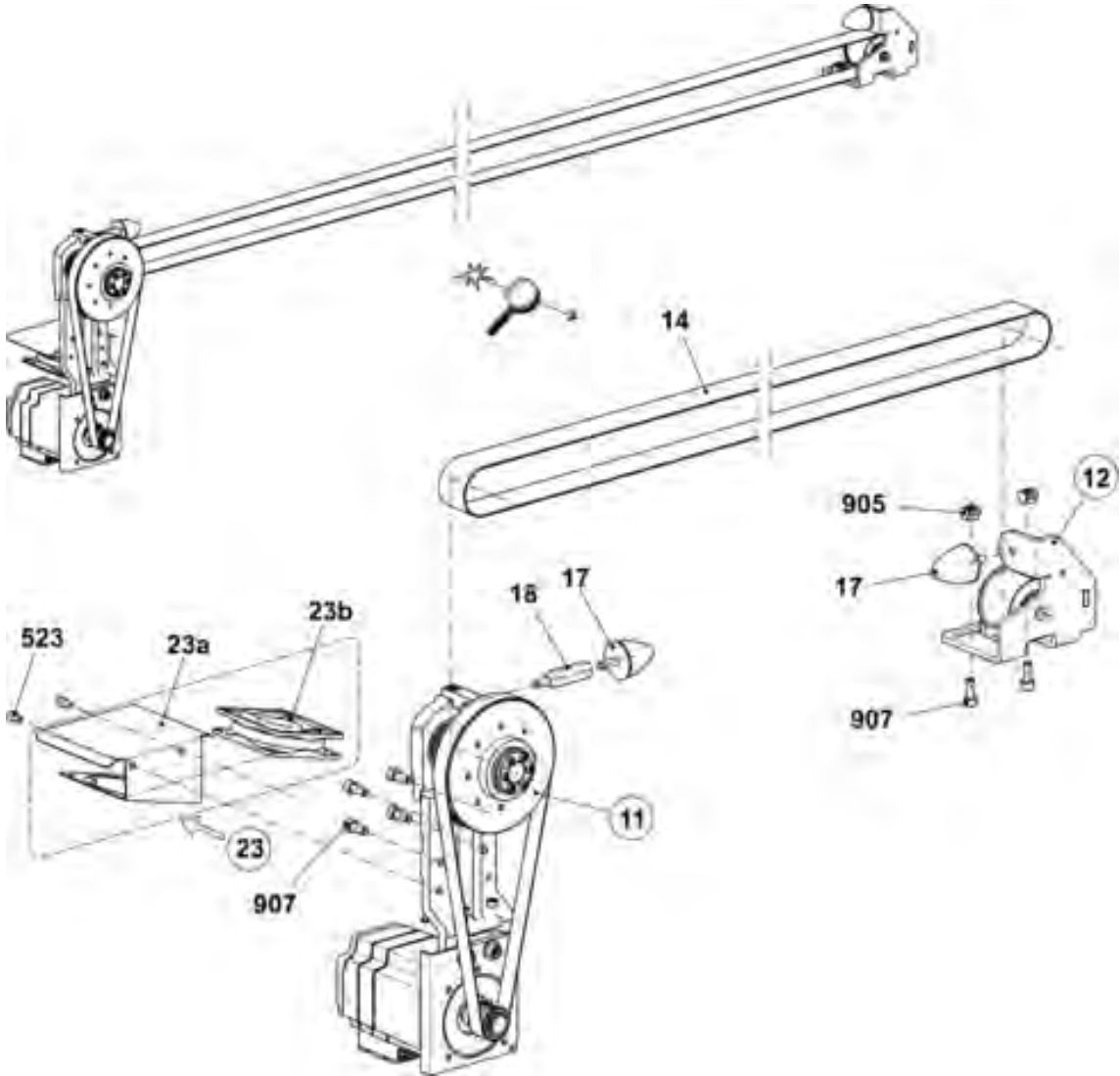
Notes:

2 Carriage drive



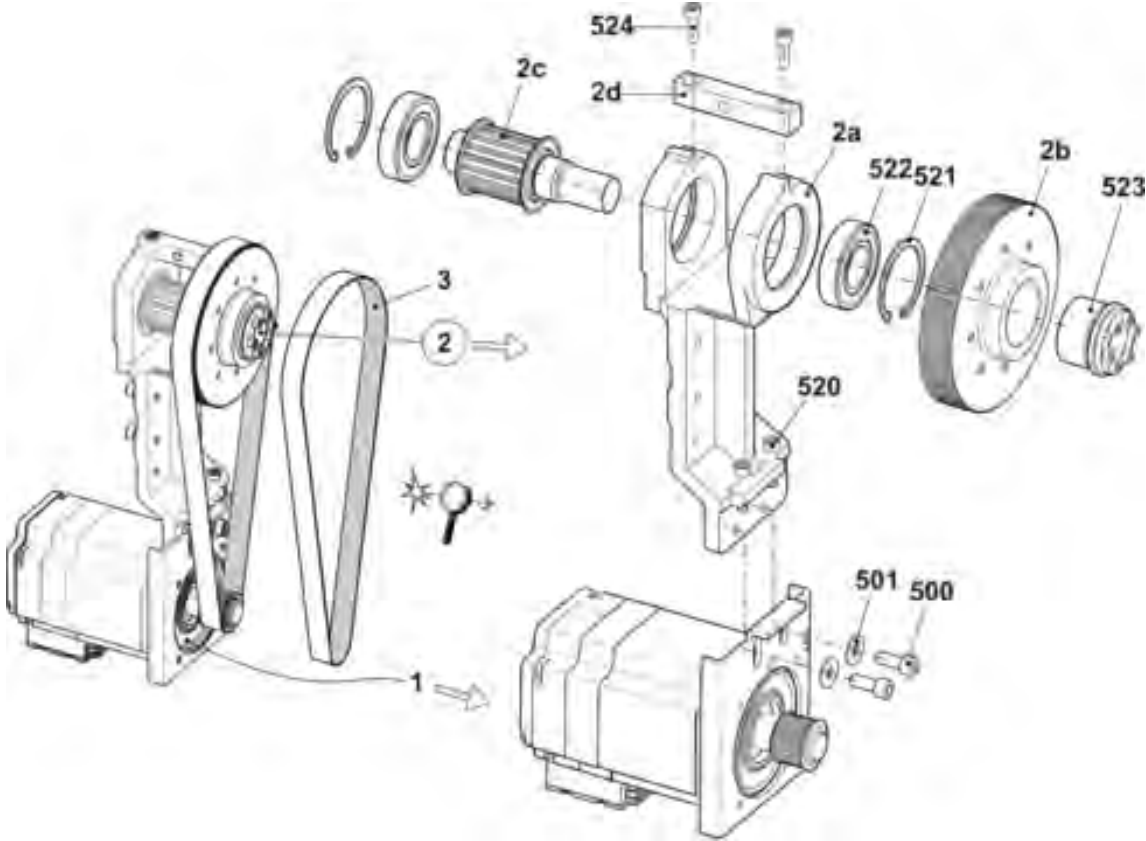
2.1 Drive

Pos	Designation	ID		Pos	Designation	ID
Σ	Drive unit			23	Fan complete	242 413
11	Drive unit complete	240 743		23a	Fan plate drive motor	241 823
12	Tension bearing complete	251 581		23b	Fan complete512	213 722
14	Toothed belt50AT10/7150	236 656		523	Cap screws M8x12	023 138
17	Parabolic spring	200 661		905	Sliding nut M10X12	023 471
18	Hexagon bolt	214 275		907	Cap screw M10X25	020 157



2.1.1 Motor and belt drive

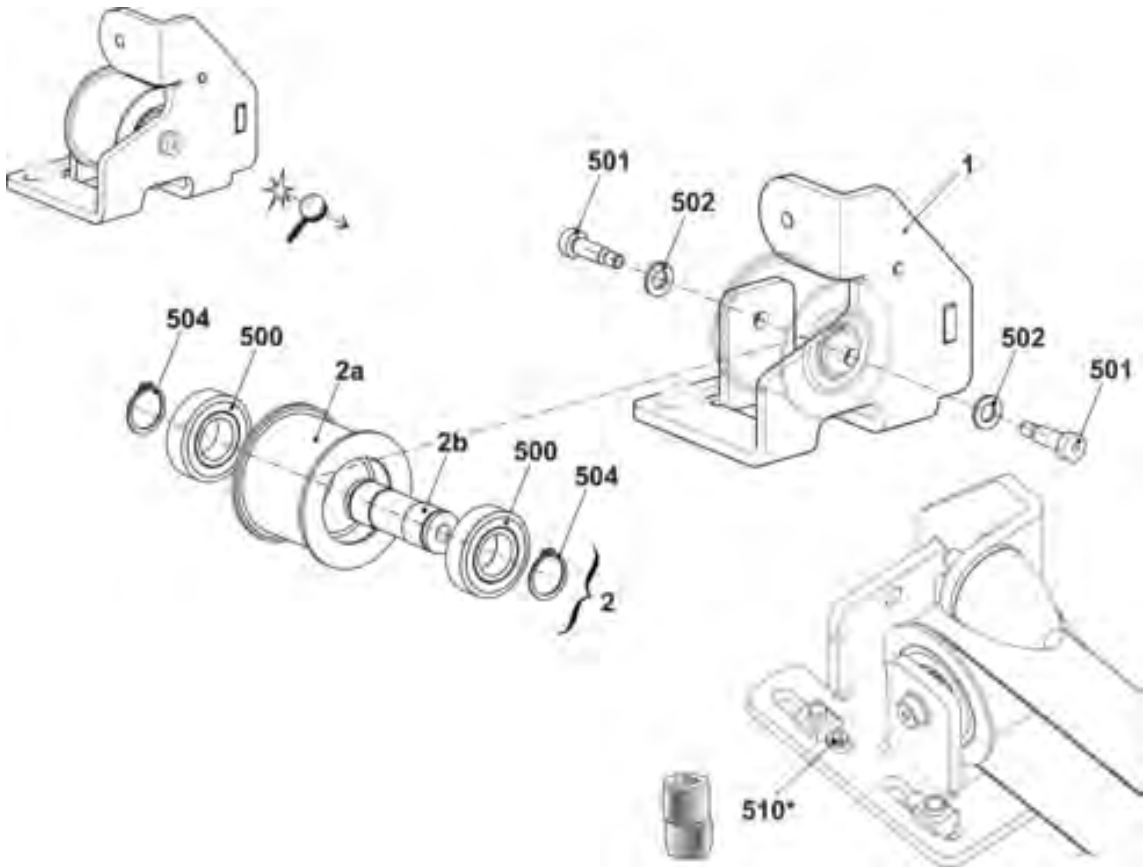
Pos	Designation		Id		Pos	Designation		Id	
Σ	Drive unit complete		240 743						
1	Drive unit		256 301			521	Locking ring68x2.5		022 914
2	Drive bearing complete		255 005			522	Grooved ball bearing 6207-2RS		022 915
	2a	Drive bearing ECO2	252 634			523	Tension set 30X55		023 208
	2b	Toothed belt pulley	240 616			524	Cap screw M8X25 12.9		020 142
	2c	Pinion57 AT10 18	242 039			3	Toothed belt250 HP-S5M 1050 NG		240 628
2d	Support of buffer	222 100	500		Cap screw M10X25		020 157		
520	Cap screw M8X35	020 144	501		Disk10,5X25X2,5		022 178		



2.1 Drive

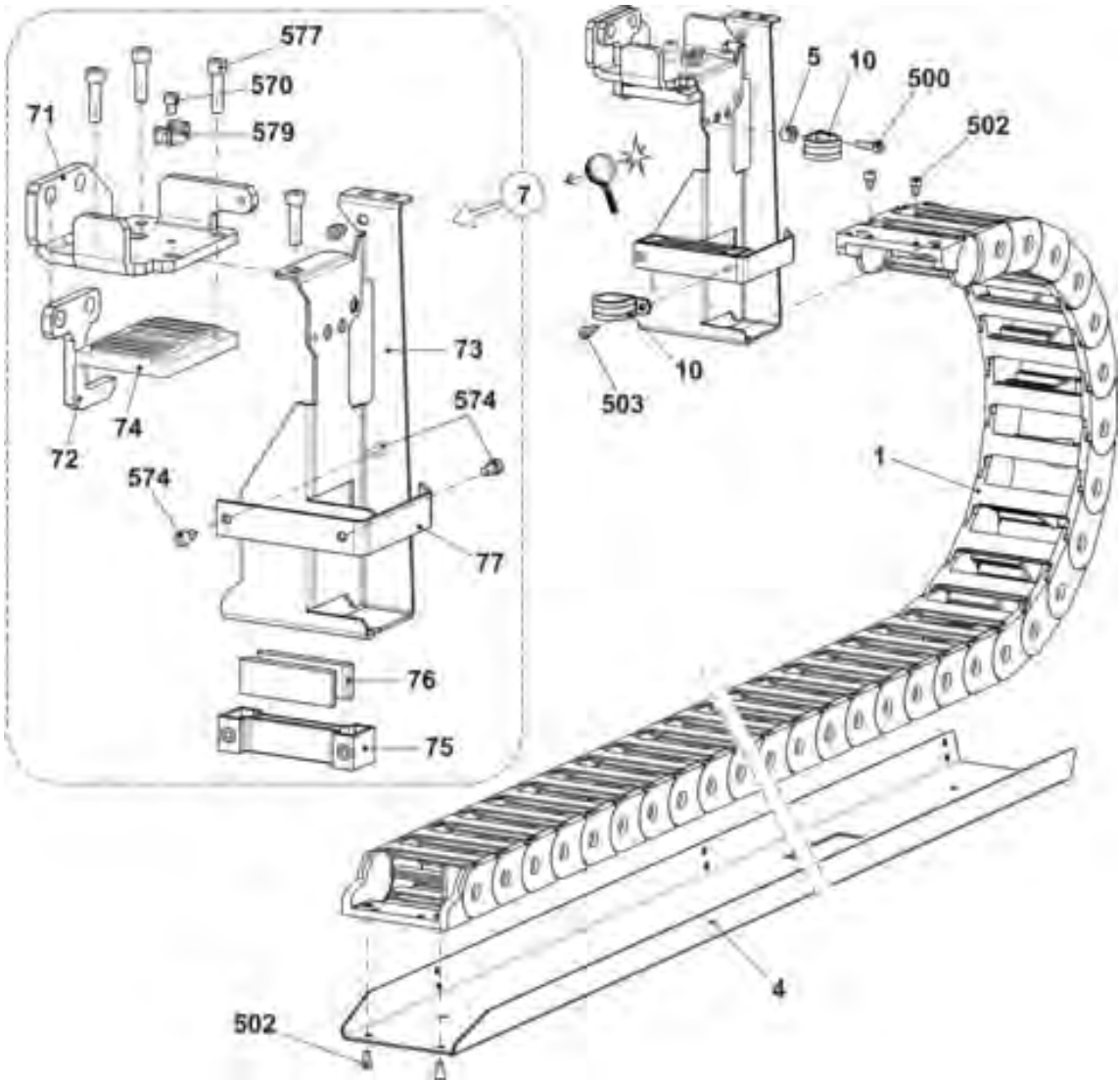
2.1.2 Tension bearing

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



2.2 Energy chain and plunger

Pos	Designation	ID	Pos	Designation	ID
1	Energy chain 40 links	259 232	7	Continuation carriage driver complete	
4	Depositing gutter	259 273	77	Cover strip	258 379
5	Threaded spacer	214 584	574	Cap screw M6x12	020 134
7	Carriage driver complete	259 280	577	Cap screw M8x30	020 143
71	Carriage driver	258 380	579	Fixing element	026 489
72	Switch flag carriage driver	258 381	570	Cap screw M6x8	023 411
73	Cable driver	259 286	10	Hose clip	214 653
74	Clamping plate	252 592	500	Cap screw M6x20	020 136
75	Cable holder	204 688	502	Cap screw M6x8	023 411
76	Cellular caoutchouc black	202 597	503	Cap screw M6x16	020 135



2.2 Energy chain and plunger

Notes:

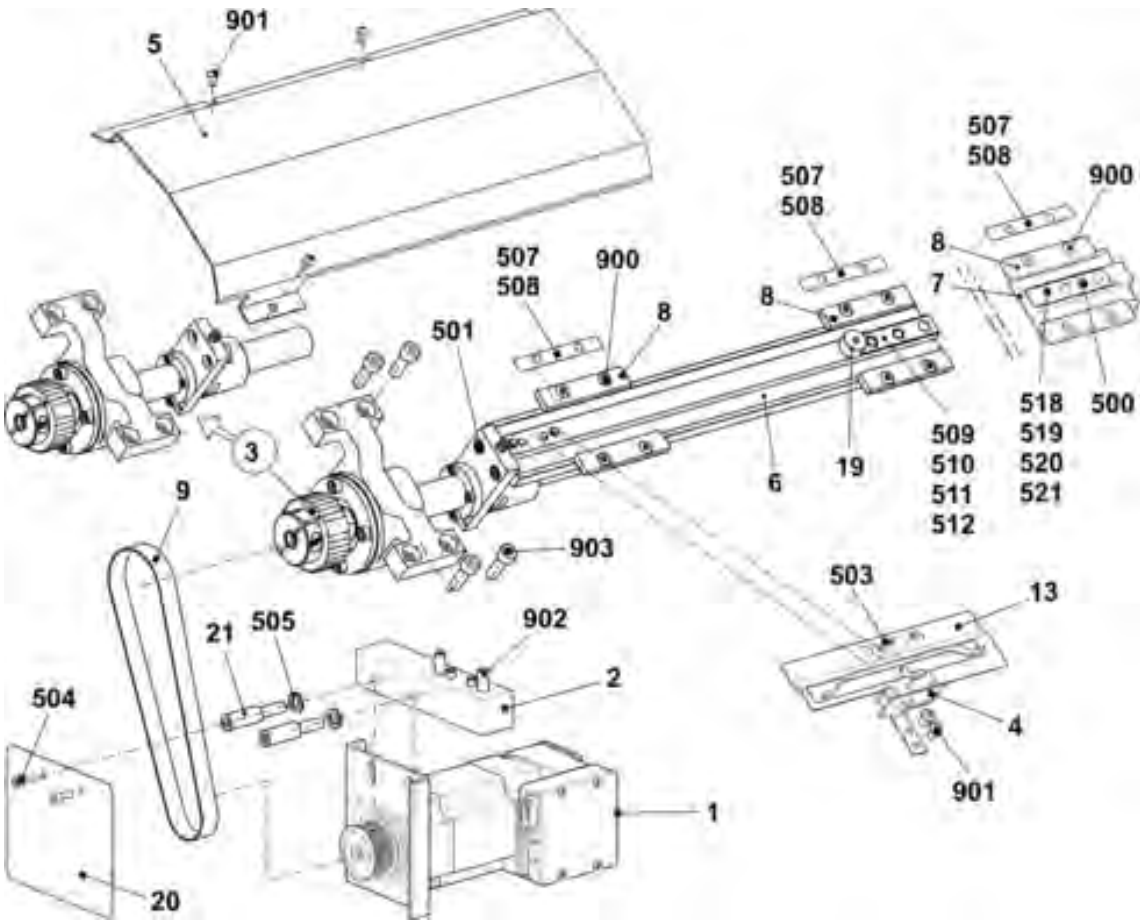
3 Racking



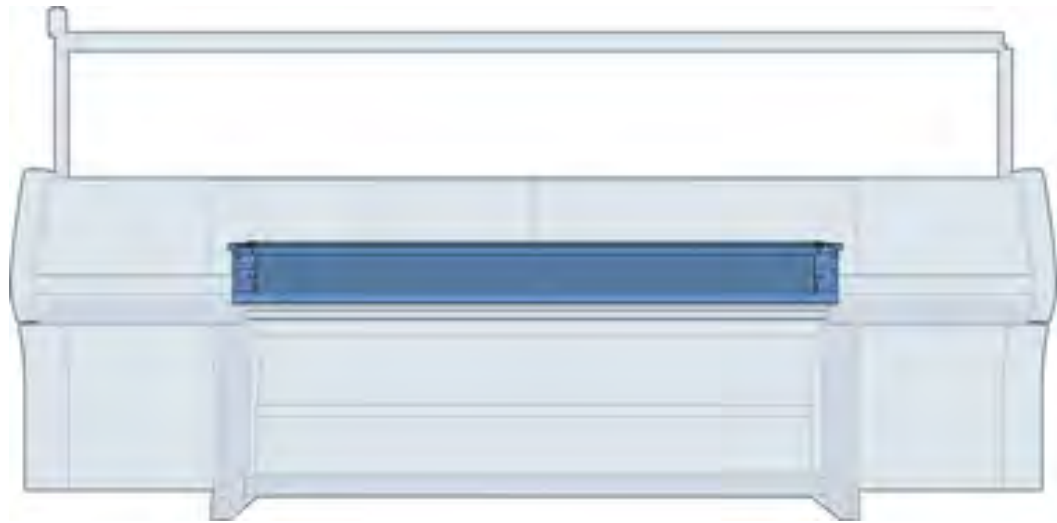
3.1 Racking drive

3.1 Racking drive

Pos	Designation	Id	Pos	Designation	Id
Σ	Racking				
1	Racking motor complete	258 192	504	Cap screw M5x12	020 132
2	Bearing	227 605	505	Washer	022 175
3	Spindle bearing complete	253 262	507	Shim 0,03x11x80	023 286
4	Card racking limit switch	229 396	508	Shim 0,05x11x80	023 287
5	Racking cover plate	230 048	509	Shim 0,03x15x85	023 162
6	Racking strip	241 921	510	Shim 0,05x15x85	023 163
7	Racking strip on the left	240 696	511	Shim 0,1x15x85	023 164
8	Guide strip	206 382	512	Shim 0,2x15x85	023 170
9	Toothed belt150 S 5M 490	229 281	518	Shim 0,03x15x75	023 395
13	Switch plate	240 722	519	Shim 0,05x15x75	023 396
19	Stop screw	221 386	520	Shim 0,1x15x75	023 397
20	Cover plate	232 544	521	Shim 0,2x15x75	023 398
21	Distance bolt	232 543	900	Cap screw M6x12	022 795
500	Cap screw M4x4	022 767	901	Pan-head screw M6x10	023 183
501	Cap screw M6x16	023 116	902	Cap screw M8x30	020 143
503	Pan-head screw M6x10	023 183	903	Cap screw M8x25	020 142



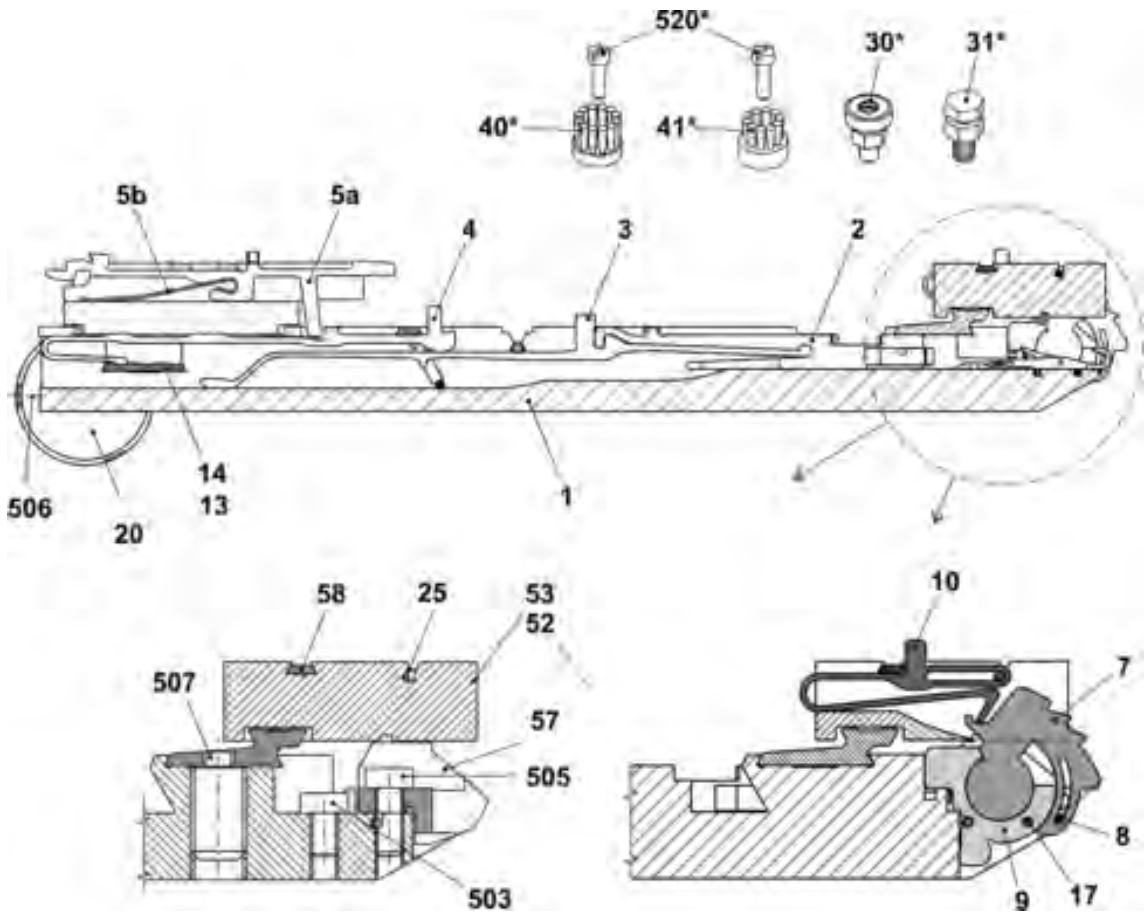
4 Needle beds



4.1 Needle bed E2,5.2

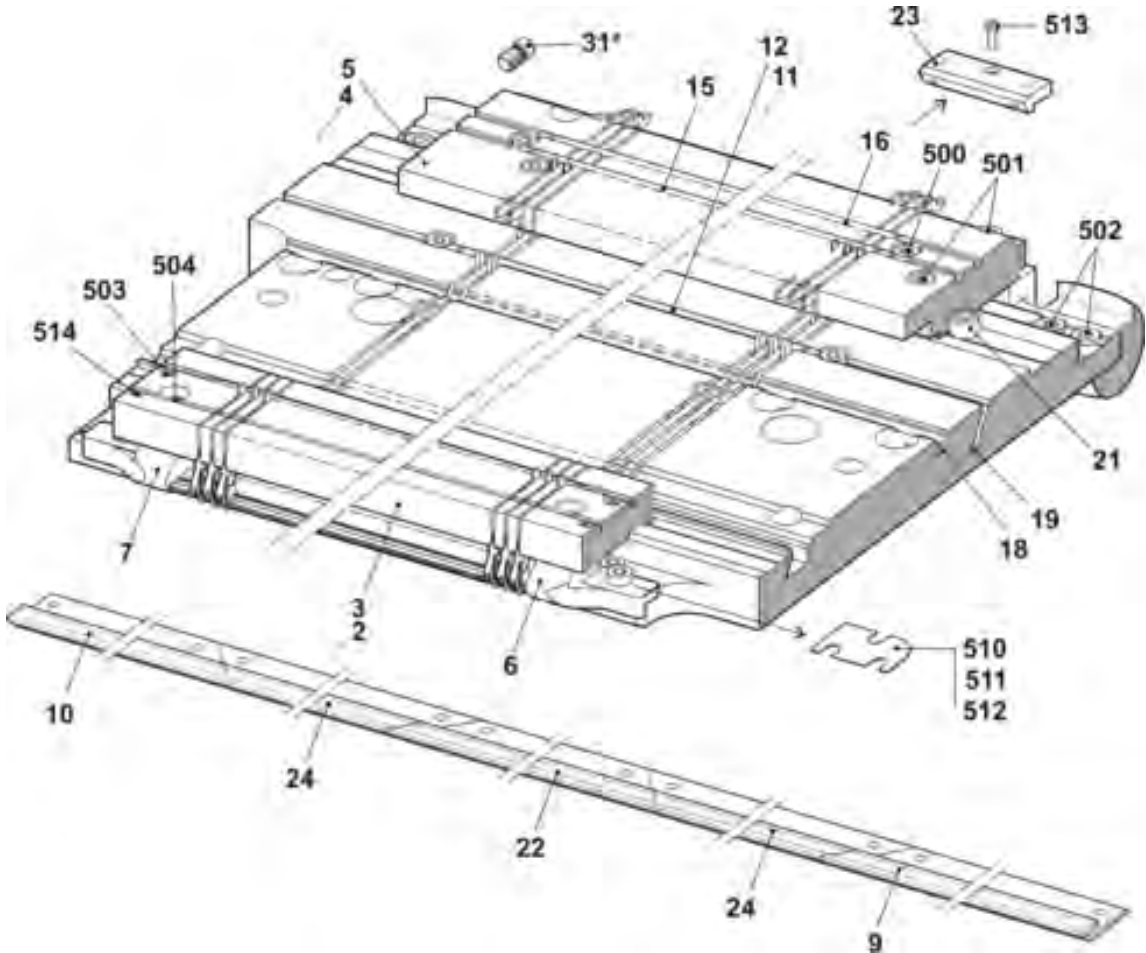
4.1 Needle bed E2,5.2

Pos	Designation	ID	Pos	Designation	ID
Σ	Needle bed complete at the front and rear E2,5.2	237 415			
1	Needle bed at the front + rear	237 300	25	Locating wire D=1,5	239 206
2	Needle ultra-coarse E2,5.2	238 071	52	Holding-down jack bed frontE5	237 303
3	Coupling part E3-4	239 194	53	Holding-down jack bed rear E5	237 306
4	Intermediate slider E3-4	218 799	57	Limiter on the right E4-8	205 344
5a	Selection jack E3-4	213 372	58	Holding-down jack slideE4-5	237 374
5b	Selector spring E4-8	200 690	30*	Adjusting pieceD = 15	206 375
7	Holding-down jack E2,5.2	237 199	31*	Set screw complete	207 712
8	Spring steel wire E4-5 D=1	237 406	40*	Disk brush	235 612
9	SupportE2,5.2	237 200	41*	Disk brush 12	202 600
10	SpringE2,5.2	237 425	503	Cap screw M5x8	023 154
13	Spring slide at the frontE4-5	237 380	505	Cap screw M5x12	022 943
14	Spring slide at the rear E4-5	237 381	506	Setscrew M6x12	022 400
17	Locating wire D=1,6	237 384	507	Springy thrust piece B-M10	023 177
20	Support	206 352	520*	Cap screw M5x12	020 032



4.2 Continuation needle bed E2,5.2

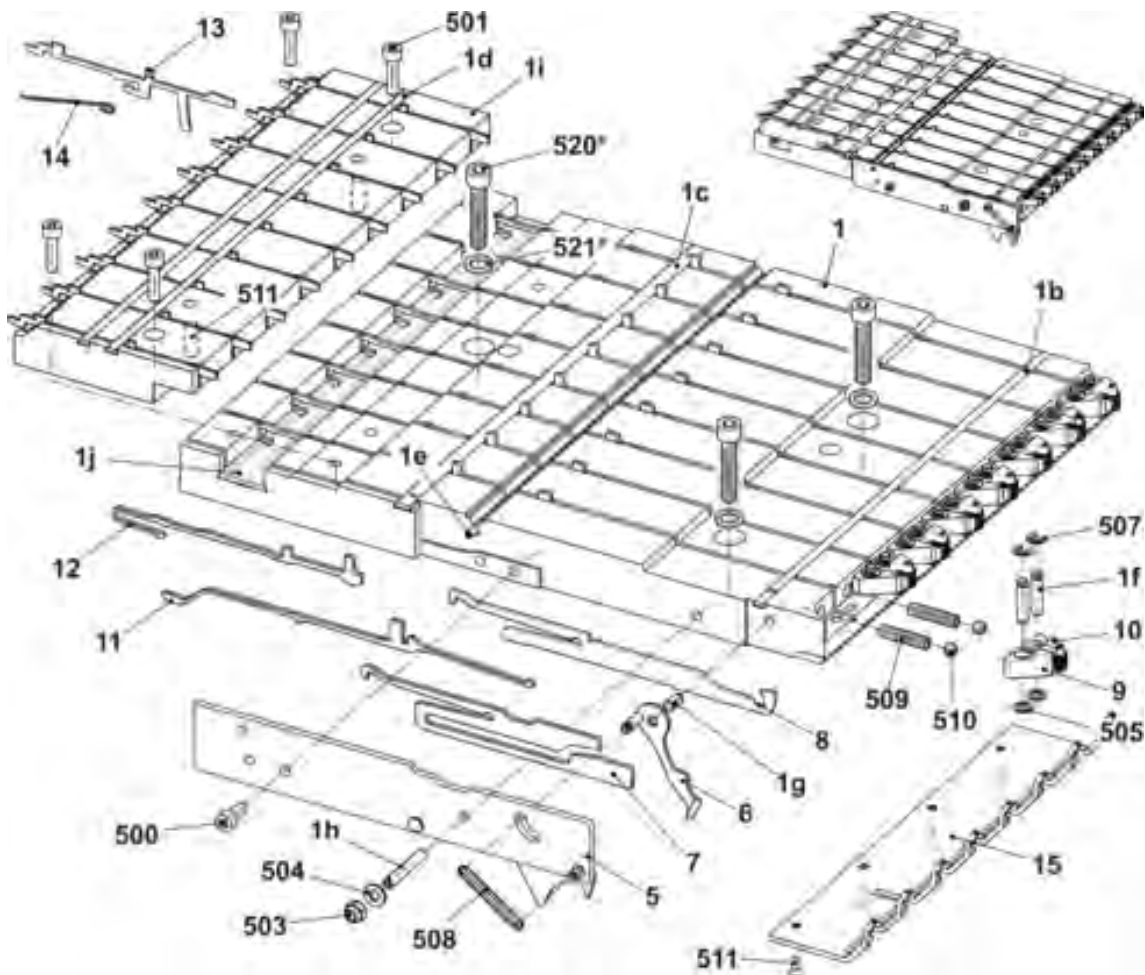
Pos	Designation	ID	Pos	Designation	ID
2	Holding-down jack bed frontE5	237 303	22	Needle bar in the middle	237 838
3	Holding-down jack bed rear E5	237 306	23	Clamping piece	236 649
4	Selection jack bed at the front E5	237 309	24	Needle bar on the left + right	237 837
5	Selection jack bed at the rear E5	237 312	31*	Adjusting bolt	240 765
6	Limiter on the left E4-8	205 343	500	Cap screw M5x10	022 918
7	Limiter on the right E4-8	205 344	501	Cap screw M5x20	020 133
9	Needle bar on the left	237 835	502	Cap screw M6x14	022 658
10	Needle bar on the right	237 836	503	Cap screw M5x8	023 154
11	Cover rail at the front E5	237 377	504	Cap screw M5x25	023 523
12	Cover rail at the rear	237 379	510	Shim0,05x18,5x34	023 196
15	Cover rail	237 382	511	Shim0,10x18,5x34	023 197
16	Cover rail	237 383	512	Shim0,20x18,5x34	023 253
18	Locating wire D=2,8	223 862	513	Cap screw M2,5x8	023 756
19	Spring steel wire D=2,0	223 854	514	Cap screw M3x5	022 688
21	Eccentric	204 603			



4.3 Left clamping/cutting bed

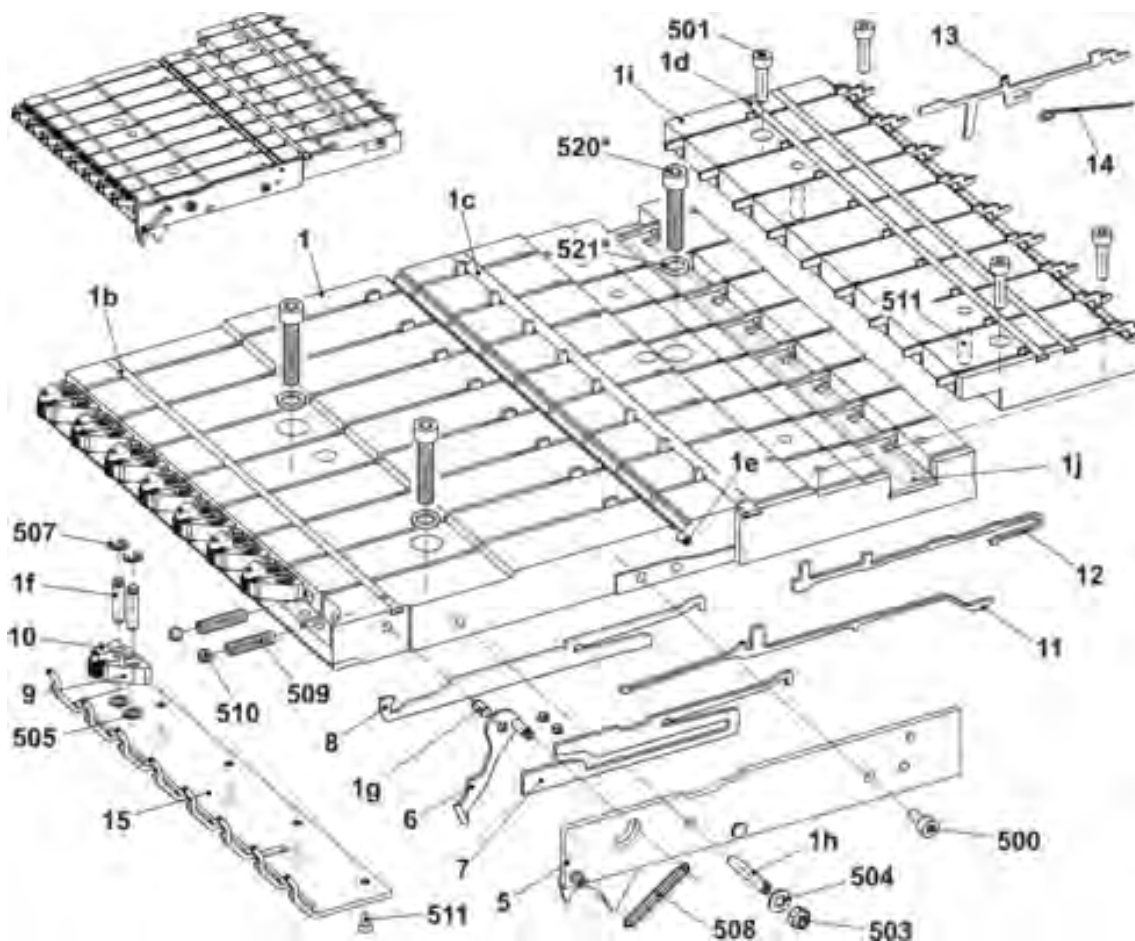
4.3 Left clamping/cutting bed

Pos	Designation	ID	Pos	Designation	ID
Σ	Left clamping and cutting bed E3-4m.3L	261 806			
1	Guide plate EPT on the left E3-4m.3L	261 805	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	15	Deflector plate on the left	262 359
1f	BoltsE3-4m.3L	261 786	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 0,9x3,6x24,36	023 331
7	Slider	215 827	510	Ball 5	023 309
8	Catch needle on the left E3-4m.3L	261 544	511	Countersunk screw M3x6	020 286
9	Blade on the leftE3-4m.3L	262 350	520*	Cap screw M6x25	023 335
10	Clamp on the left completeE3-4m.3L	262 293	521*	Washer7,6x11,6x1,5	023 334



4.4 Clamping/cutting bed on the right

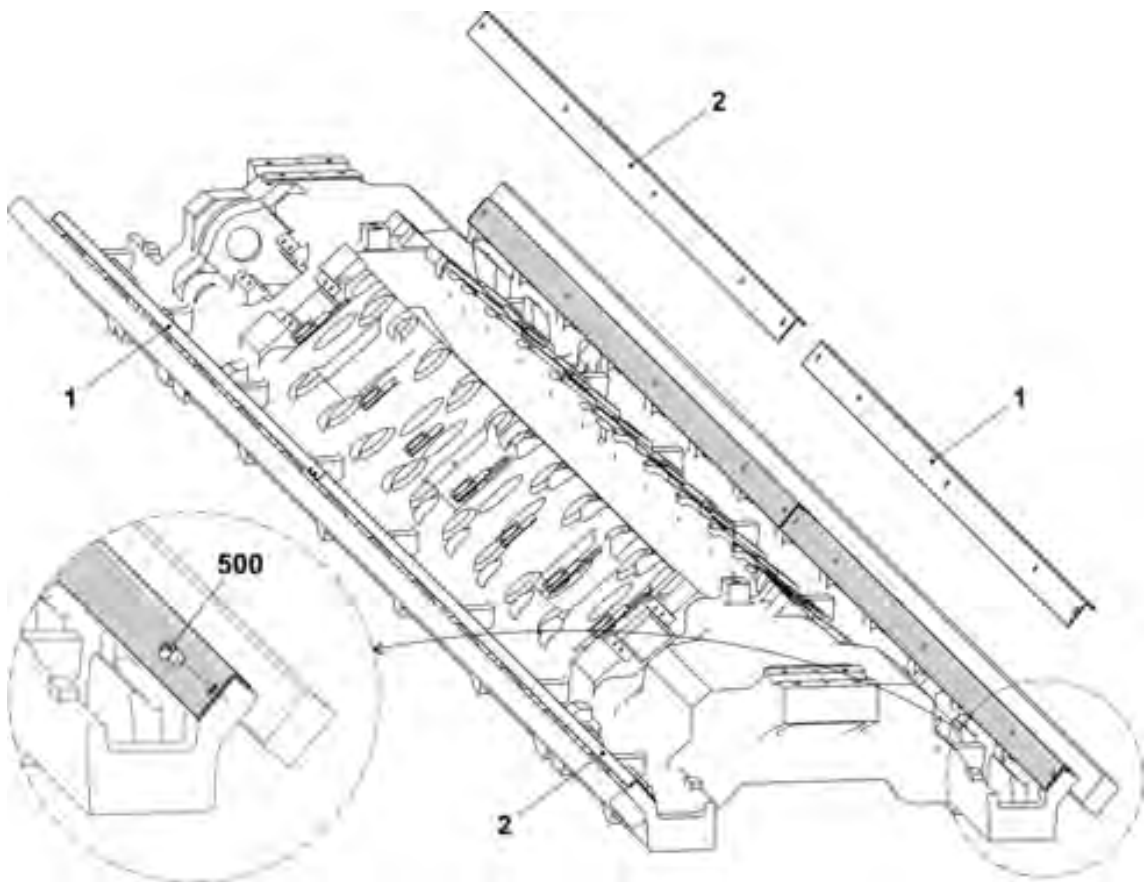
Pos	Designation	ID	Pos	Designation	ID
Σ	Clamping and cutting bed on the right E3-4m.3L	261 785			
1	Guide plate EPT on the right E3-4m.3L	261 784	11	Coupling part E3-4	213 348
1b	Cover rail	211 358	12	Intermediate slider E3-4	218 799
1c	Cover rail	216 105	13	Selection jack E3-4	213 372
1d	Cover rail	209 224	14	Selector spring E4-8	200 690
1e	Locating wire	215 927	15	Deflector plate on the right	262 360
1f	Bolts E3-4m.3L	261 786	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 right E3-4	215 907	504	Washer 4	020 870
1j	Spring slide	215 908	505	Washer 4,3x7x0,5	022 153
511	Dowel pin 5x12	021 988	507	Circlip 3,2	021 019
5	Cover on the left complete E3-4	215 926	508	Tension spring 4x0,55x18,9	023 392
6	Catch hook on the right E3-4	215 888	509	Compression spring 0,9x3,6x24,36261 786	023 331
7	Slider	215 827	510	Ball 5	023 309
8	Catch needle on the right E3-4m.3L	261 545	511	Countersunk screw M3x6	020 286
9	Blade on the right E3-4m.3L	262 351	520*	Cap screw M6x25	023 335
10	Clamp on the right complete E3-4m.3L	262 294	521*	Washer 7,6x11,6x1,5	023 334



4.5 Cover on the left and on the right

4.5 Cover on the left and on the right

Pos	Designation	ID		Pos	Designation	ID
1	Cover on the left	243 428		500	Pan-head screw M8x10	241 930
2	Cover on the right	243 429				



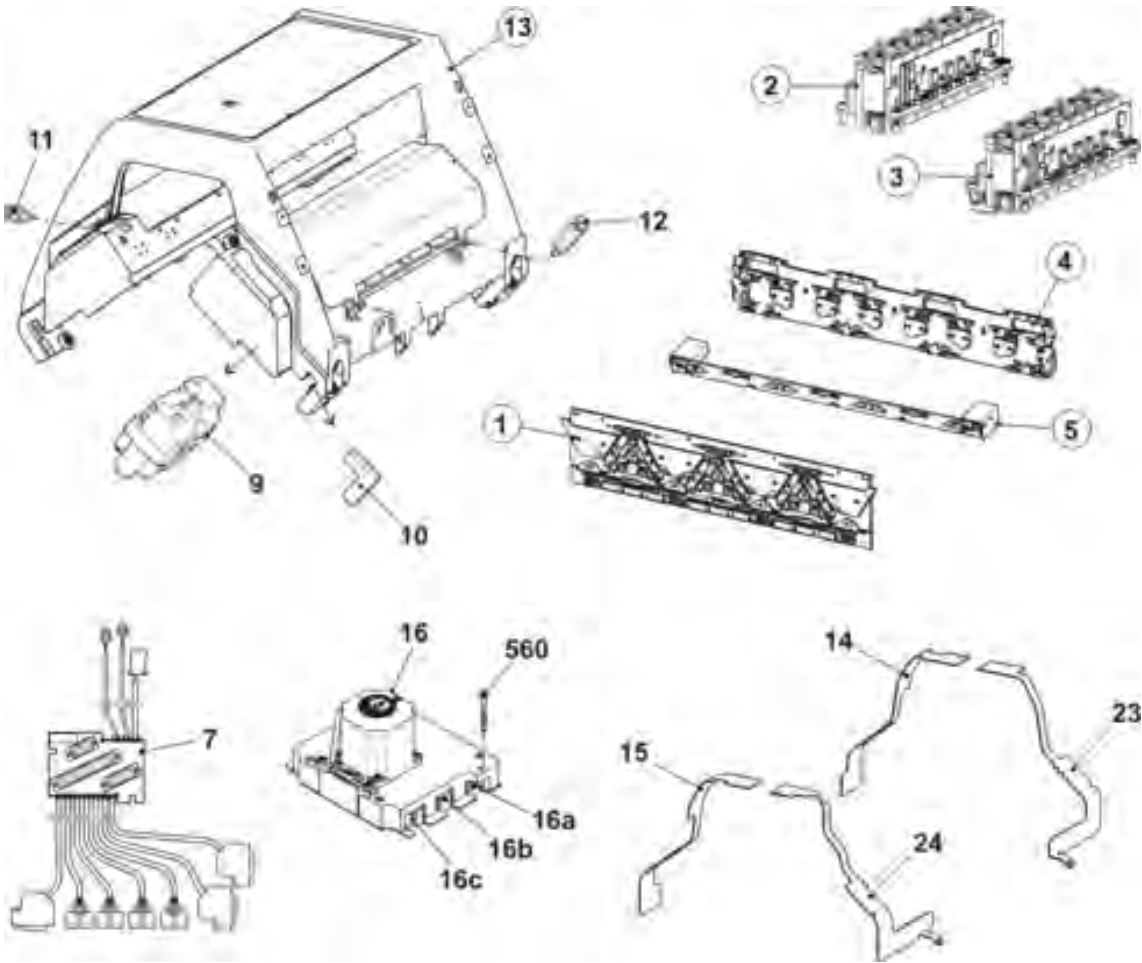
5 Carriage



5.1 Overview of Carriage Parts

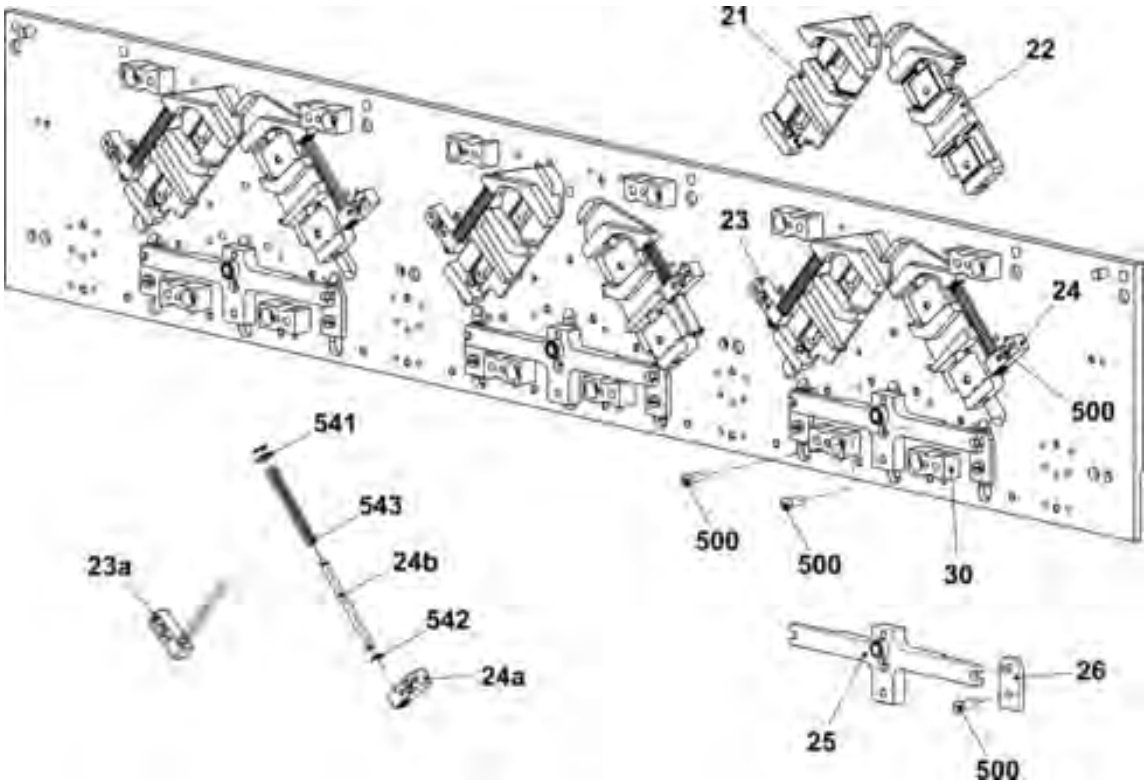
5.1 Overview of Carriage Parts

Pos	Designation	ID	Pos	Designation	ID
Σ	Carriage completeE2,5.2	256 646			
1	Needle cam complete	244 344	13	Carriage assembly 3 cam boxes 830C	256 500
2	FF driving outside complete	241 080	14	Cover plate on the left	250 274
3	FF driving in the middle complete	241 081	15	Cover plate on the right	250 275
4	Jack cam box complete	244 345	16	Motor unit complete	214 946
5	Cam box holding-down jacksE2,5.2	244 346	16a	Gear rack at the top	214 290
7	Distributor at the rear 830C okc3	259 675	16b	Gear rack in the middle	214 291
9	Selection system completeE2 - E8	216 218	16c	Gear rack at the bottom	214 292
10	Wiper felt	241 411	560	Screw M4x30	023 290
11	Bolts	212 392	23	Guide plate at the rear on the left	245 323
12	Bolts	243 171	24	Guide plate at the rear on the right	245 324



5.2 Needle cam at the top

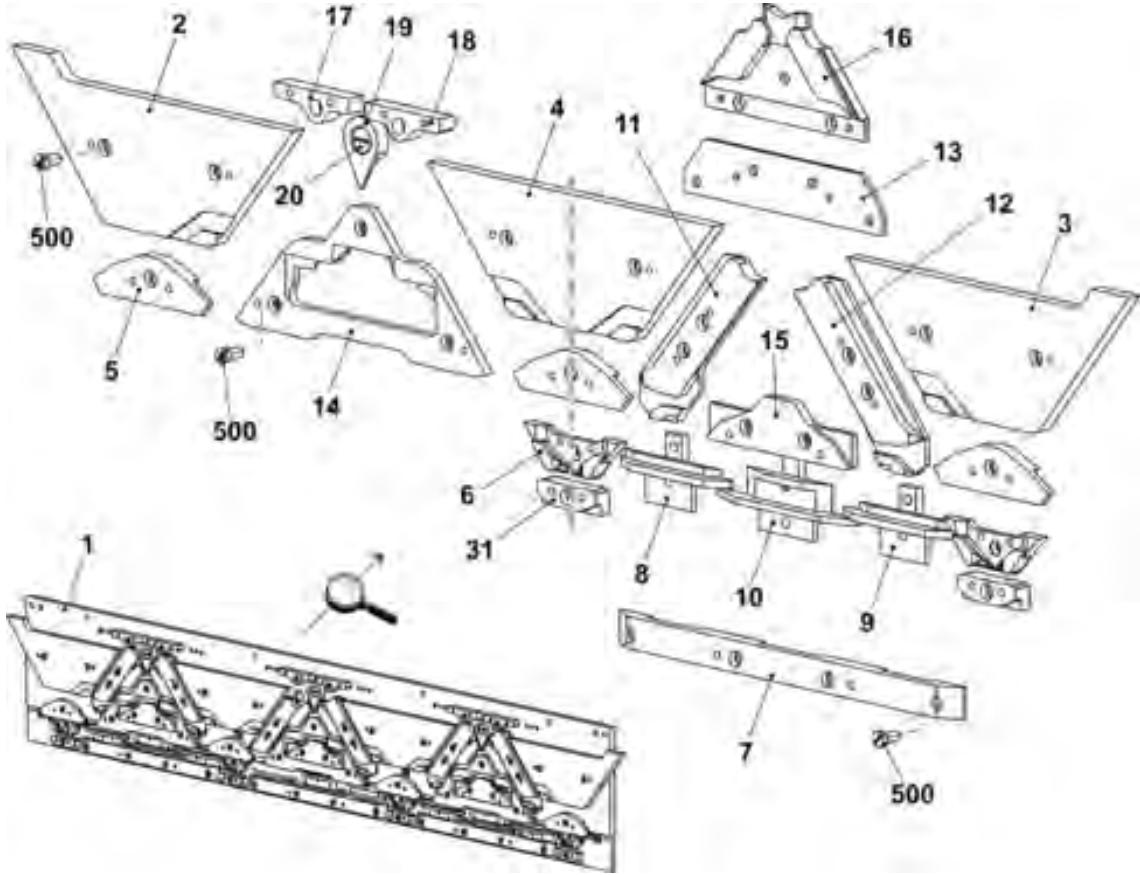
Pos	Designation	ID	Pos	Designation	ID
Σ	Needle cam complete	244 344			
21	Loop sinking cam on the left complete	214 657	24	541 Disk4,3x7x0,5	022 153
22	Loop sinking cam on the right complete	214 656		542 Circlip 3,2	021 019
23	Rod guide element on the left	214 477		543 Compression spring	023 344
	23a Rod guide element on the left	214 475	25	Switching piece	214 322
24	Rod guide element on the right	214 478	26	Slider	214 336
	24a Rod guide element on the right	214 473	30	Spacer	214 603
	24b Spring rod	214 476	500	Cap screw M4x8	020 091



5.3 Needle cam at the bottom

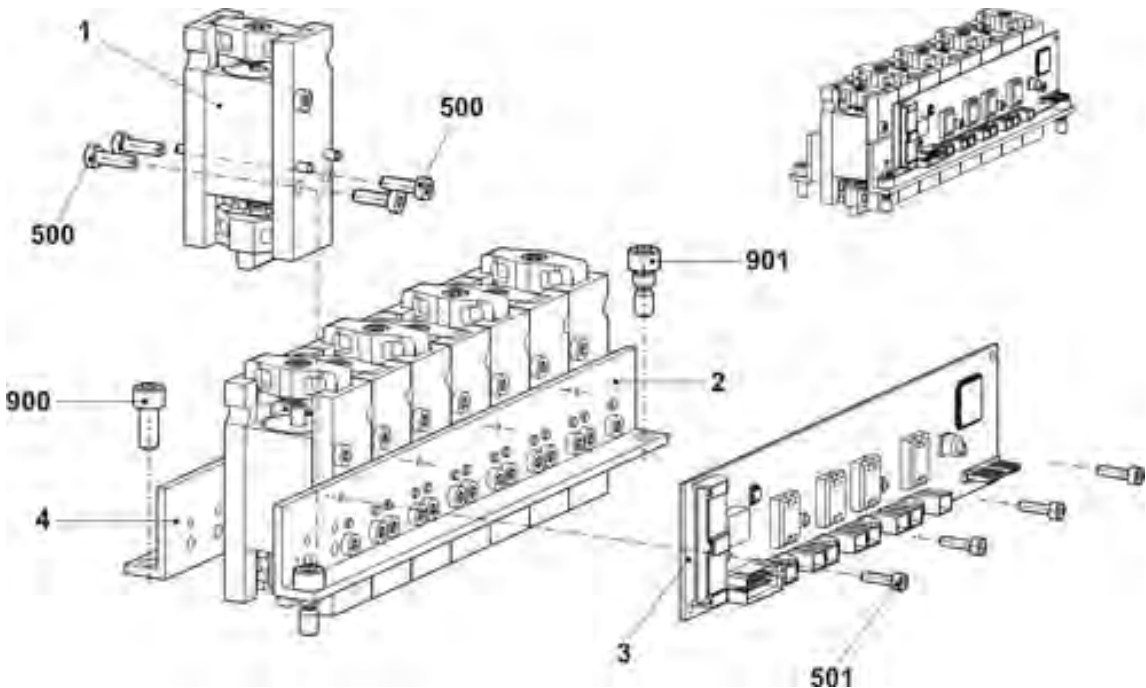
5.3 Needle cam at the bottom

Pos	Designation	ID	Pos	Designation	ID
Σ	Needle cam box complete (at the bottom)	244 344	12	Stitch cam on the right E3-4	214 896
1	Needle cam plate E2,5-5	245 214	13	Knitting raising 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 middleE3-4	214 852	15	Receiving cam	214 190
5	Entry cam	214 579	16	Tuck limiting cam E2,5.2	218 047
6	Knitting position cam E3-4	220 179	17	Limiting cam on the leftE3-4	218 048
7	Pressure strip E3-4	214 663	18	Limiting cam on the rightE3-4	218 049
8	Pressure part receiving on the leftE3-4	216 008	19	Pointer E3-4	218 050
9	Pressure part receiving on the rightE3-4	216 009	20	Screw	214 576
10	Tuck pressure partE3-4	216 130	31	Limiting cam at the bottomE3-4	215 994
11	Stitch cam on the left E3-4	214 895	500	Cap screw M4x8	020 091



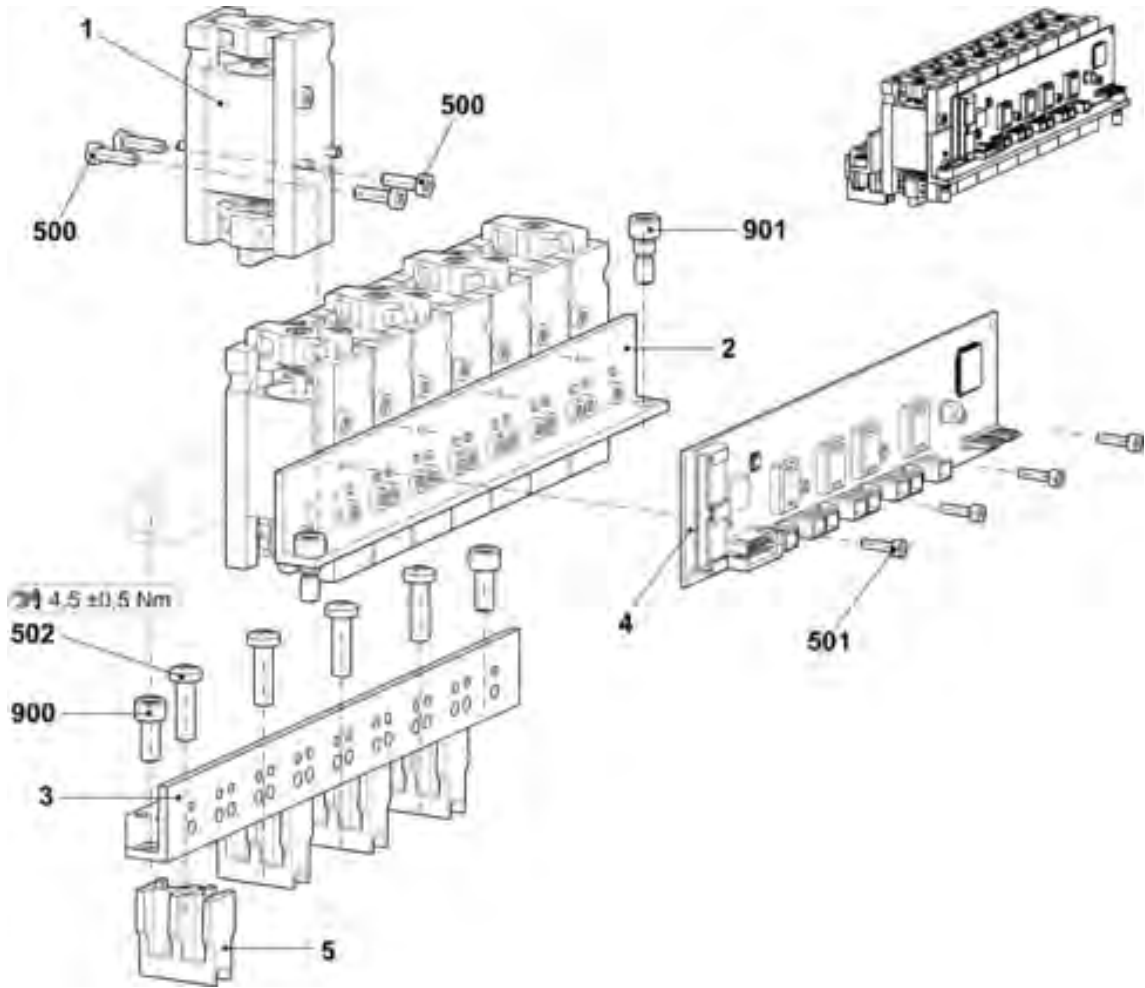
5.4 Yarn carrier driving without guide part

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



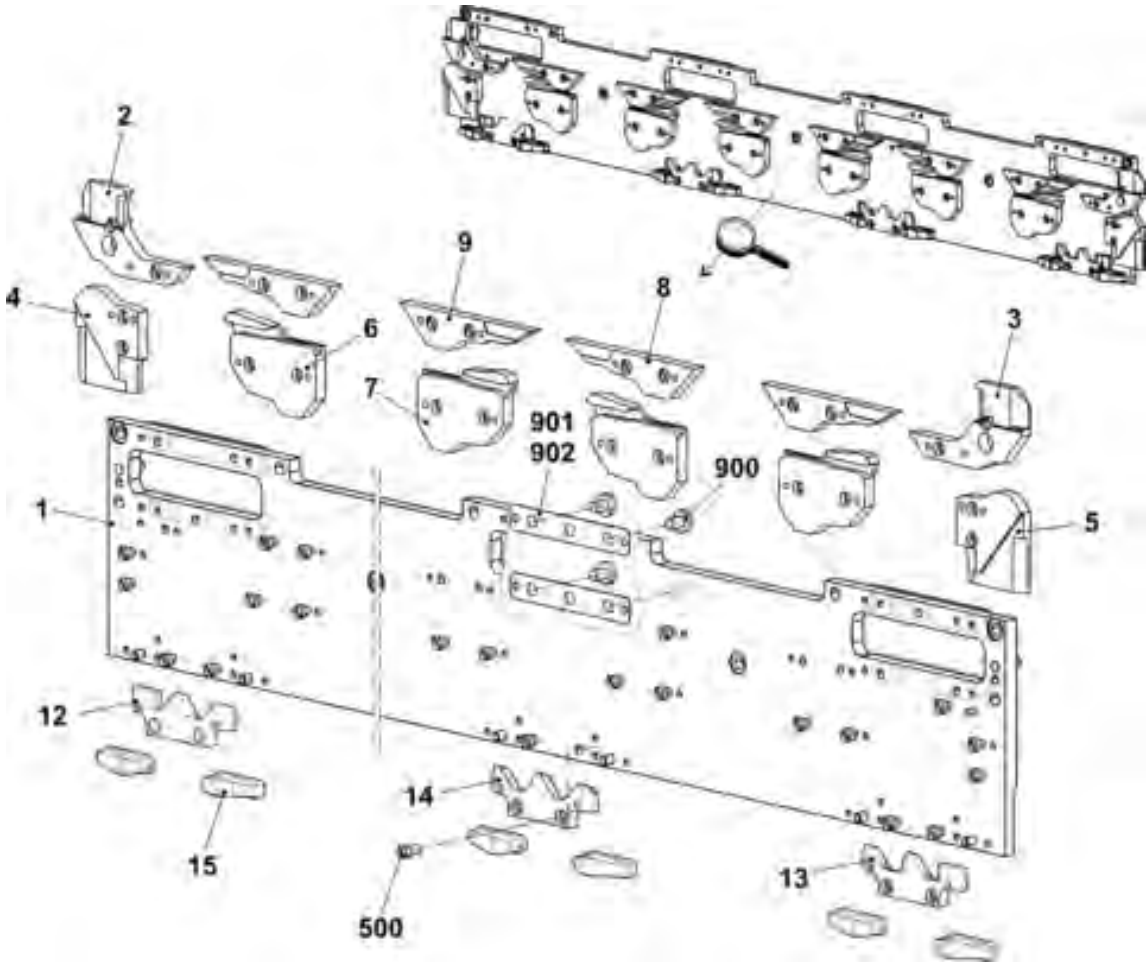
5.5 Yarn carrier driving with guide part

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



5.6 Jack cam box

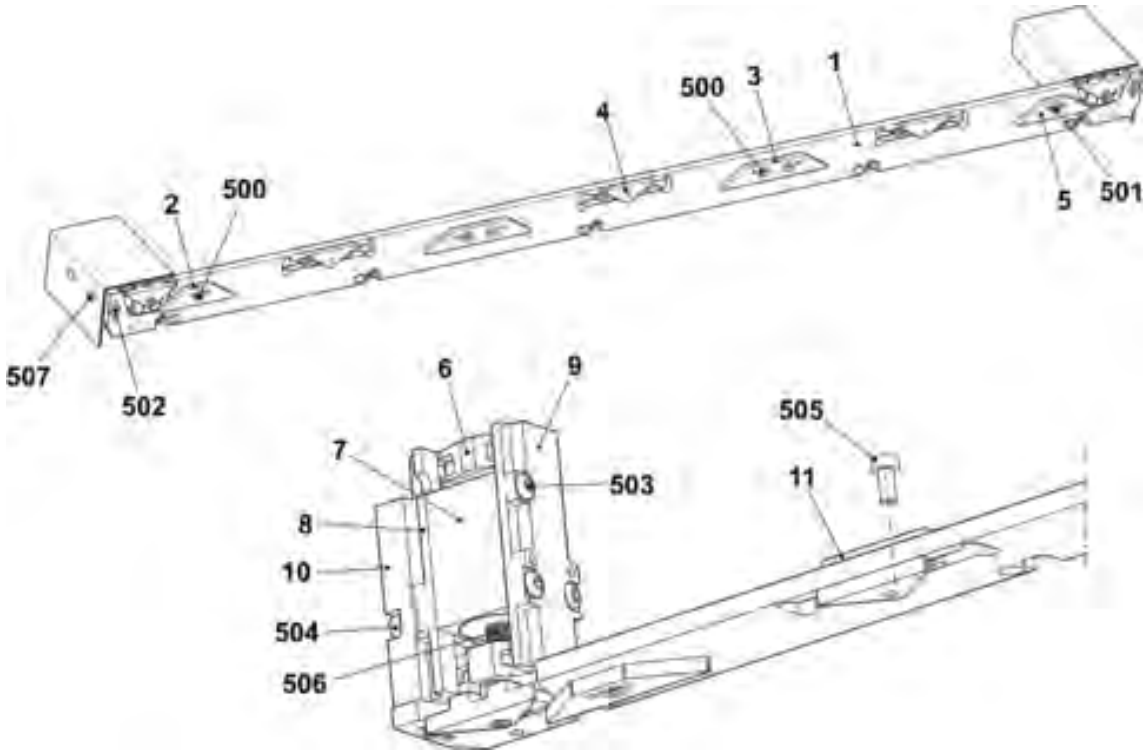
Pos	Designation	ID	Pos	Designation	ID
Σ	Jack cam box complete	244 345	9	Cam at the right E3-4	213 938
1	Jack cam box plateE2,5-5	245 215	12	Selection cam on the left	213 868
2	Cam on the left	214 594	13	Selection cam on the right	213 870
3	Cam part at the right	214 596	14	Selection cam	213 869
4	Cam 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	900	Pan-head screw M3x4	023 142
7	Cam at the right E3-4	213 915	901	Shim0,1x12x75	022 830
8	Cam on the left E3-4	213 920	902	Shim0,2x12x75	022 831



5.7 Holding-down jack cam box E2,5.2

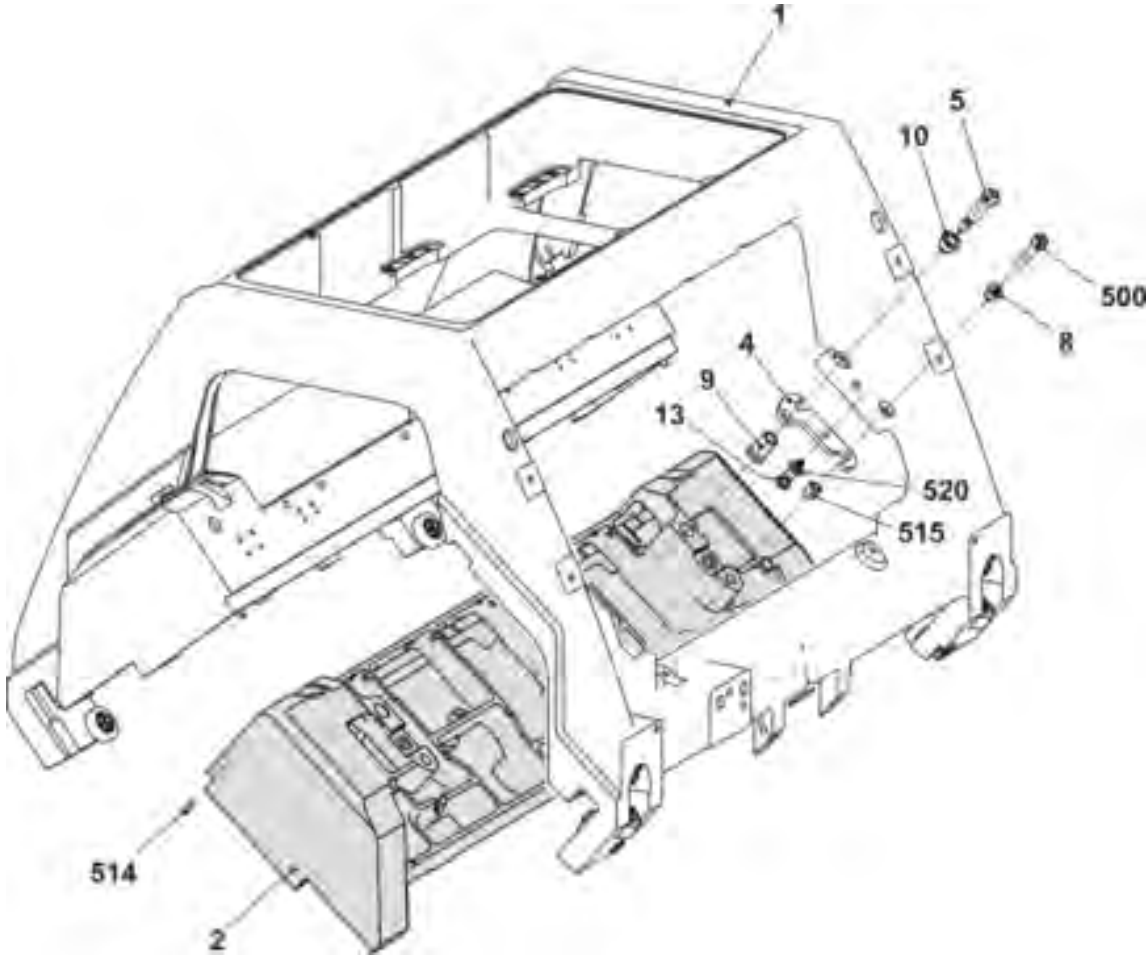
5.7 Holding-down jack cam box E2,5.2

Pos	Designation	ID		Pos	Designation	ID
Σ	Holding-down jack cam box E2,5.2	244 346		10	Magnet holderE4-5	237 285
1	Jack cam box plate	237 424		11	Slider	237 453
2	Closer outsideE2,5.2	237 436		500	Cap screw M4x8	020 020
3	CloserE2,5.2	237 435		501	Screw KB30x8	236 228
4	Jack openerE2,5.2	237 346		502	Cap screw M4x10	023 136
5	Jack opener switchable E2,5.2	237 437		503	Pan-head screw M4x10	023 450
6	Yoke	237 343		504	Cap screw M4x16	020 131
7	Magnet holding-down jack control40V/BI	237 426		505	Pan-head screw M4x10	020 295
8	Guide on the left	227 308		506	Compression spring 0,48x7,02x17,29	023 654
9	Guide on the right	227 309		507	Pan-head screw M4x8	023 579



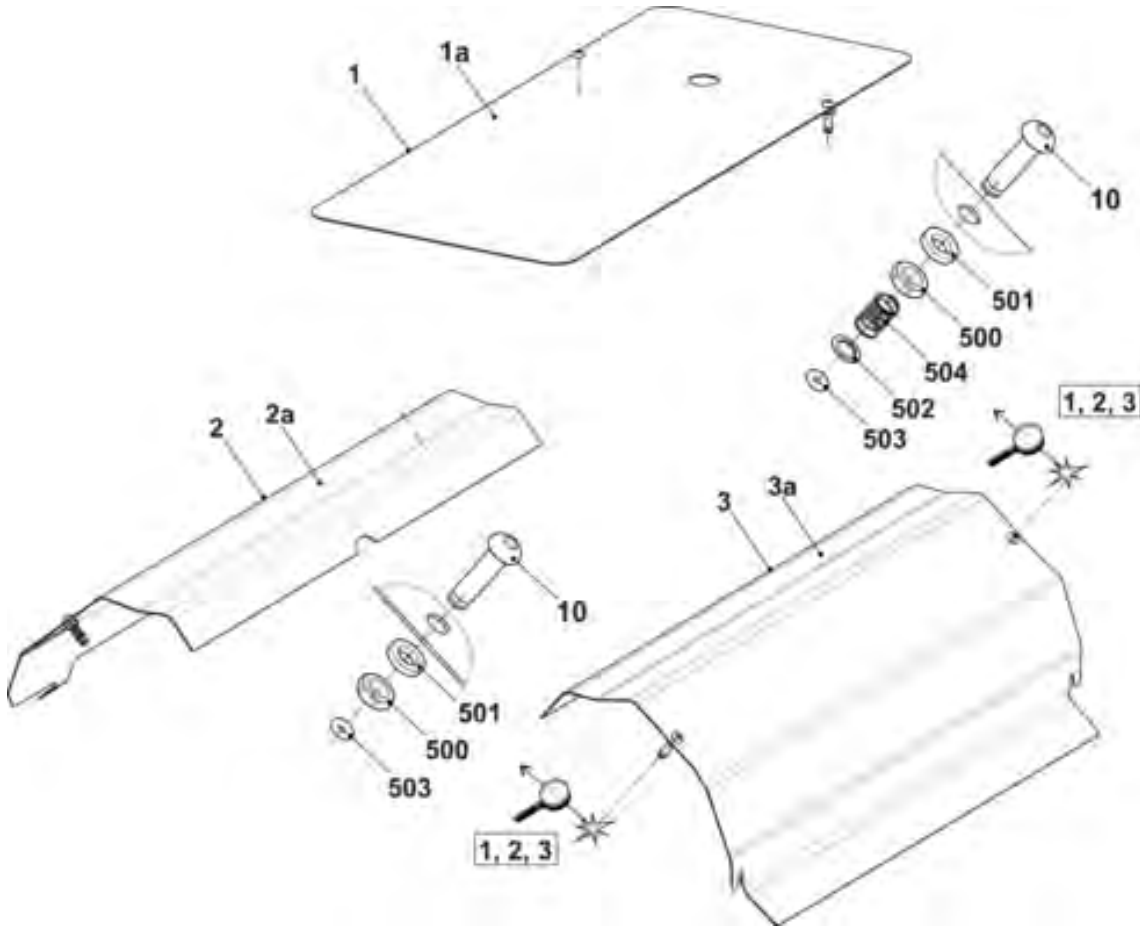
5.8 Carriage assembly

Pos	Designation	ID		Pos	Designation	ID
Σ	Carriage assembly 3 cam boxes C	256 500				
1	Carriage frame, 3 cam boxes	259 017		10	Bush	209 274
2	Carriage part 3 cam boxes C	242 697		13	Locating bolt linking spot	244 179
4	Shim	225 312		500	Cap screw M8x30	020 143
5	Shoulder screw	211 750		514	Dowel pin 5x14	020 670
8	Bush	207 546		515	Threaded bush	041 863
9	Bush	209 275		520	Circlip6	021 022



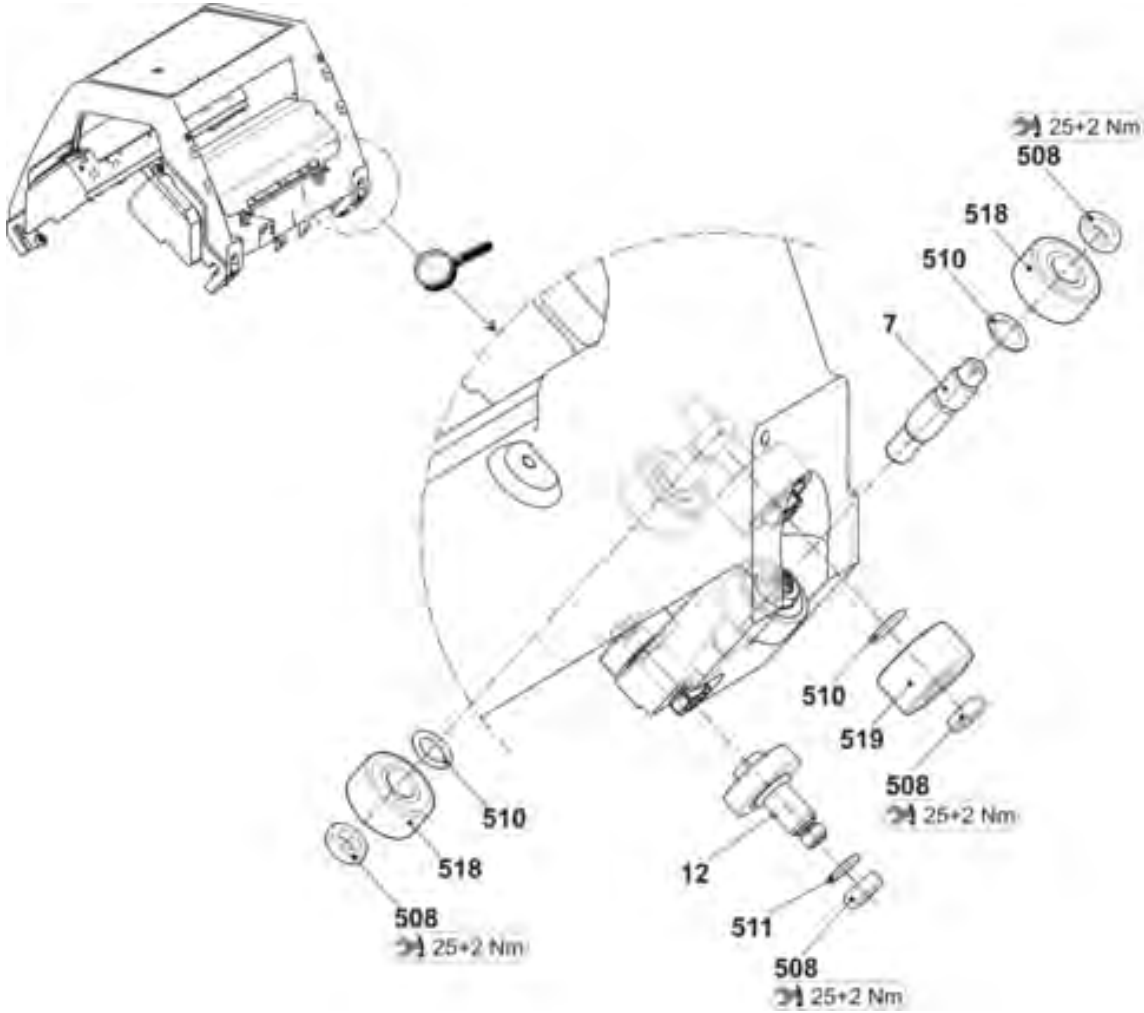
5.9 Carriage cover

Pos	Designation	ID	Pos	Designation	ID
1	Carriage cover at the top 4 cam boxes complete	257 101	10	Locating bolt	242 382
	1a Carriage cover at the top 4 cam boxes 6Z	256 511	500	Hexagon nut M6	257 088
2	Carriage cover at the rear complete	257 173	501	Serrated lock washer 6,4	022 385
	2a Carriage cover at the rear830C	256 772	502	Washer6.1x9x0,5	023 554
3	Carriage cover at the front complete	257 172	503	O-ring 3x2	242 420
	3a Carriage cover at the front 520C	256 771	504	Compression spring 0,48x7,02x17,29	023 654



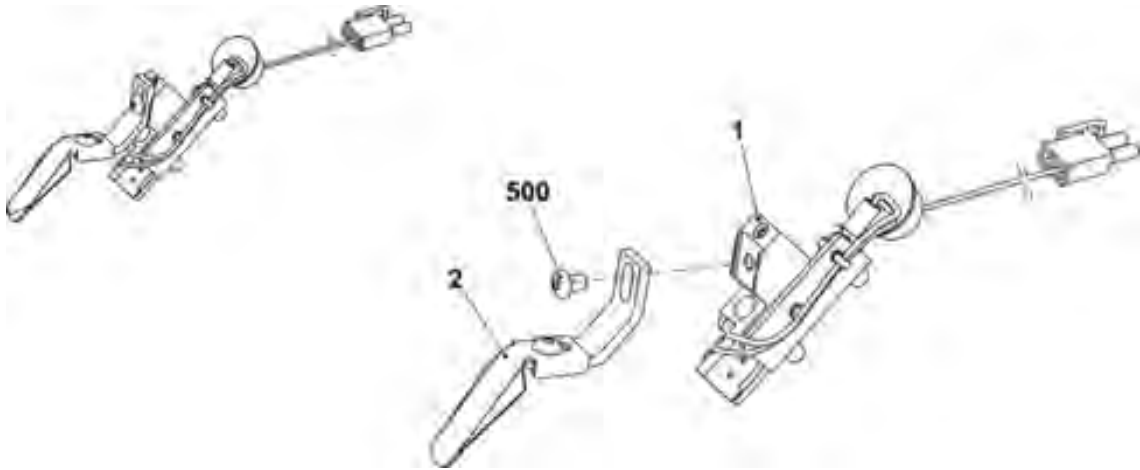
5.10 Carriage guide

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



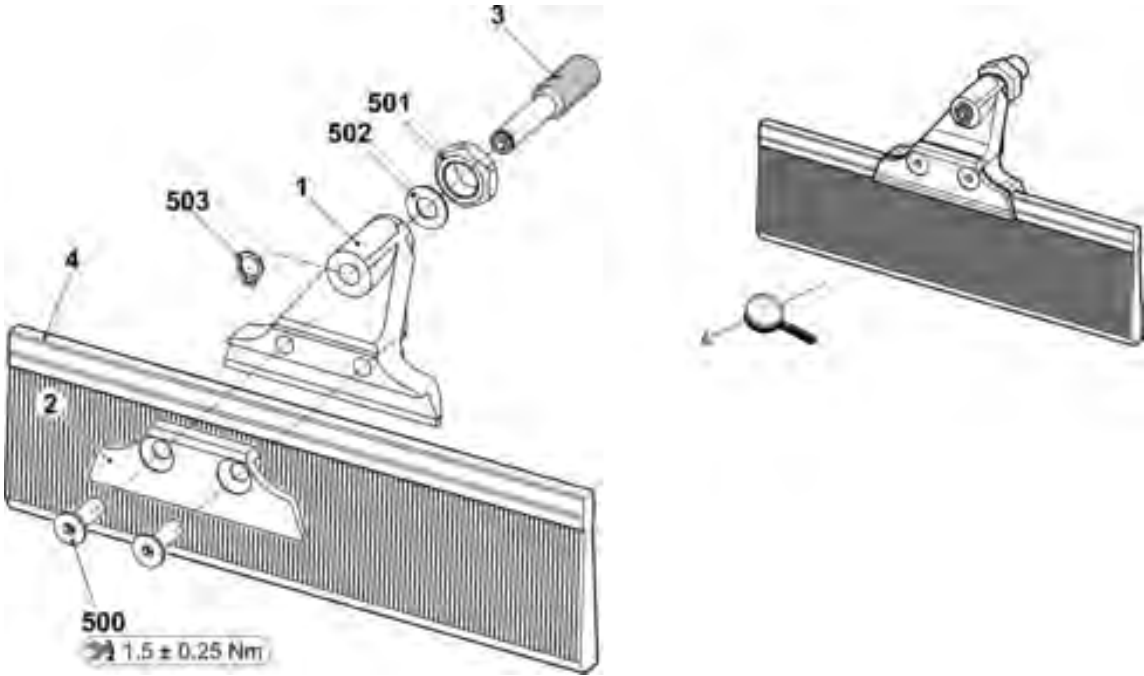
5.11 Needle detector

Pos	Designation	ID		Pos	Designation	ID
Σ	Needle detector	237 675		2	Sensor pre-assembled	237 674
1	Needle detector pre-assembled	221 773		500	Oval head-screwM4x6	023 427



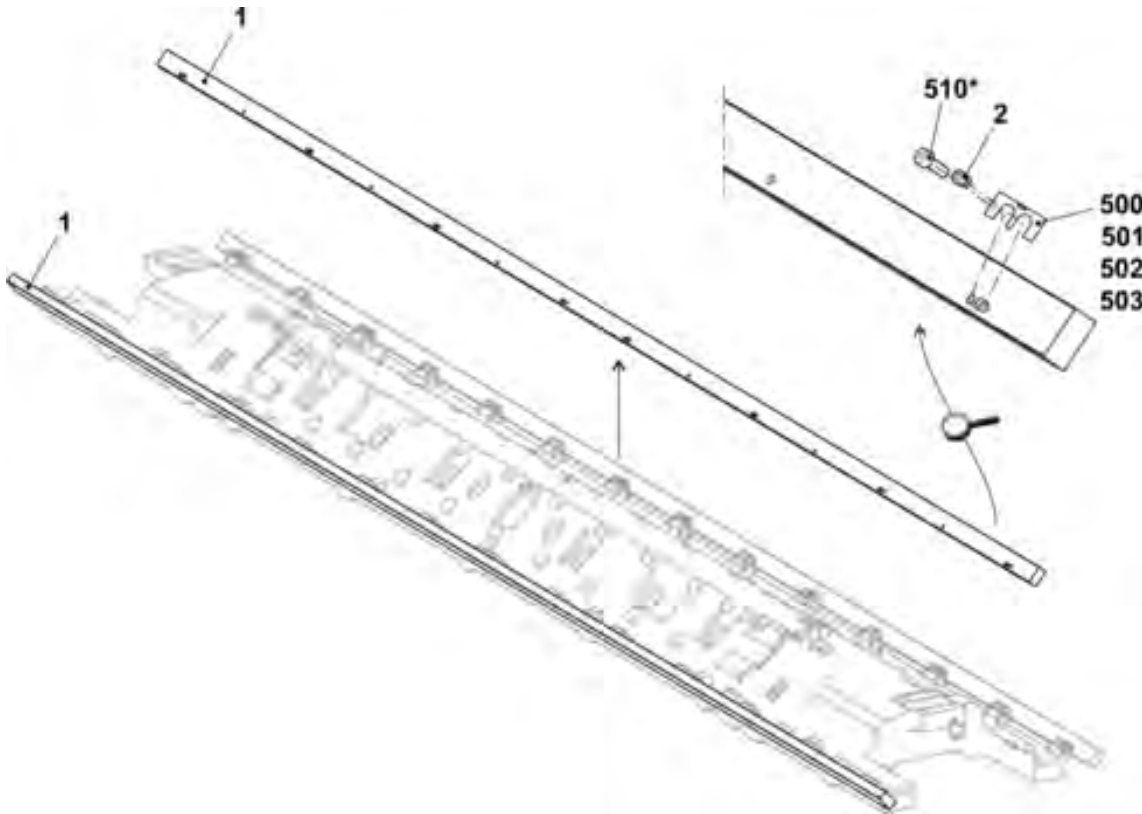
5.12 Brush holder

Pos	Designation	ID		Pos	Designation	ID
Σ	Brush holder completeE3 E4	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 ring5x0,6	023 347

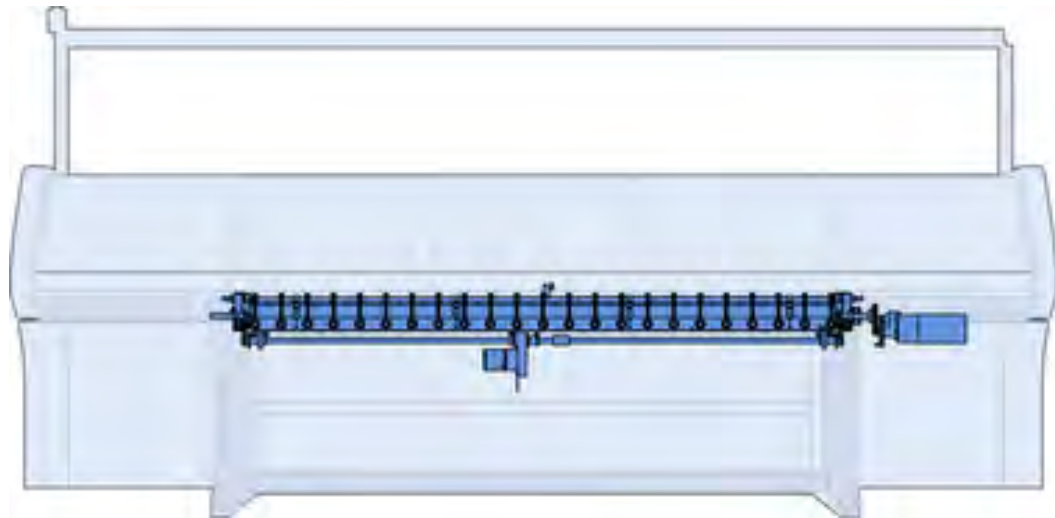


5.13 Spare parts package carriage guide rail

Pos	Designation	ID		Pos	Designation	ID
Σ	Spare parts package carriage guide rail 84"	252 993		501	Shim 0,05x22x42	243 291
1	Carriage guide rail	242 486		502	Shim 0,10x22x42	243 292
2	Adjusting eccentric	241 219		503	Shim 0,20x22x42	243 293
500	Shim 0,03x22x42	243 289		510*	Cap screwM8x20	020 141

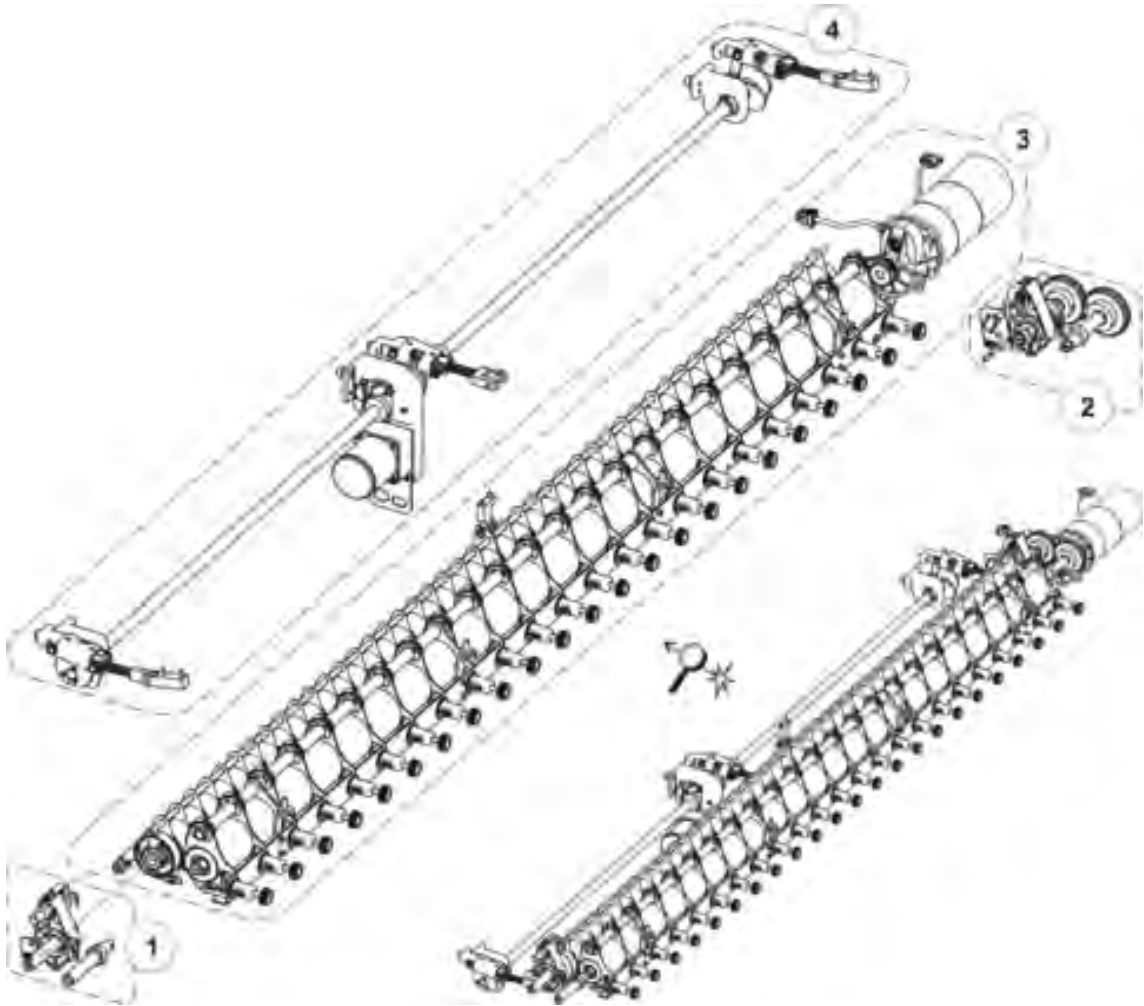


6 Main take-down



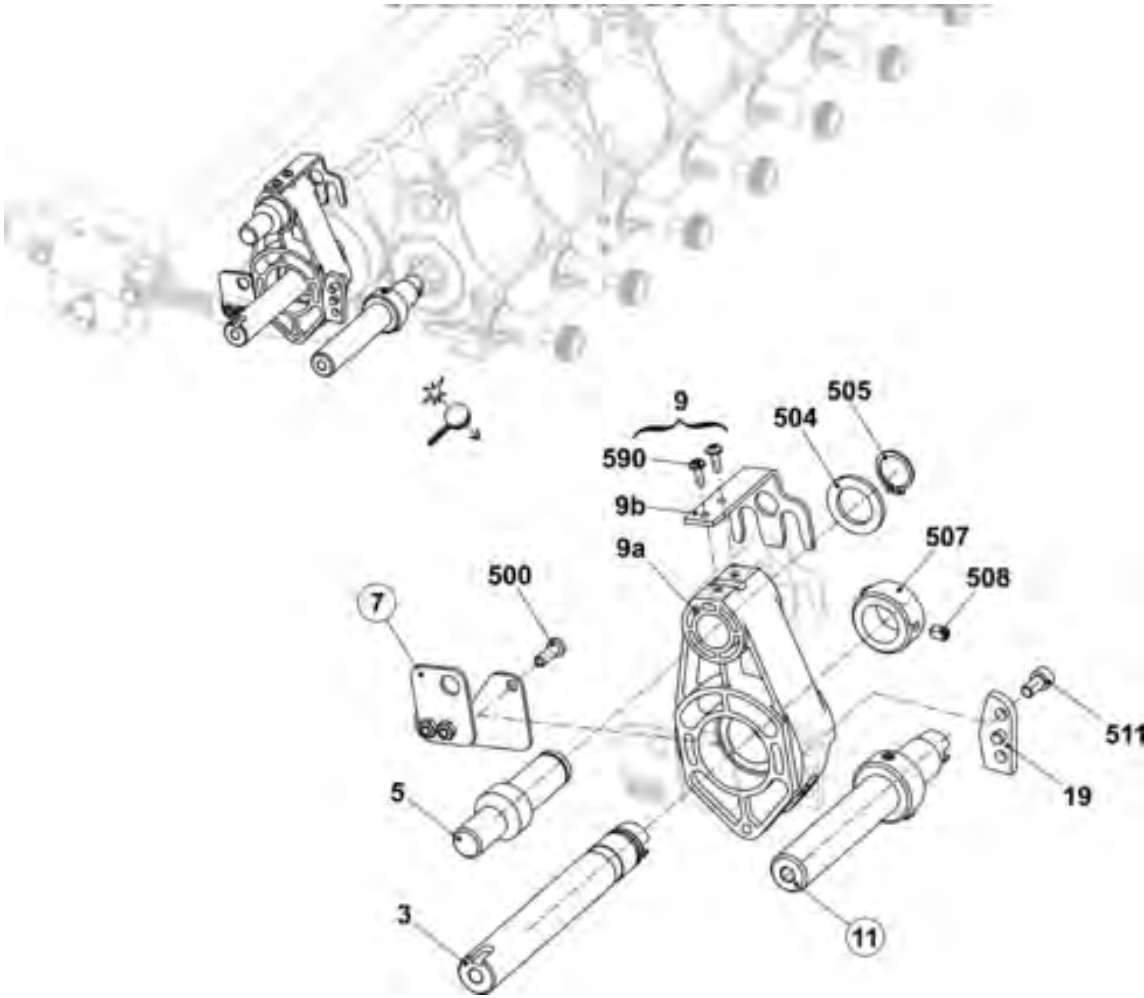
6.1 Main take-down

Pos	Designation	ID		Pos	Designation	ID
Σ	Main take-down					
1	Main take-down on the left	255 257		3	Main take-down in the middle E2,5.2	255 249
2	Main take-down on the right	255 258		4	Main take-down on / off complete 84"	253 387



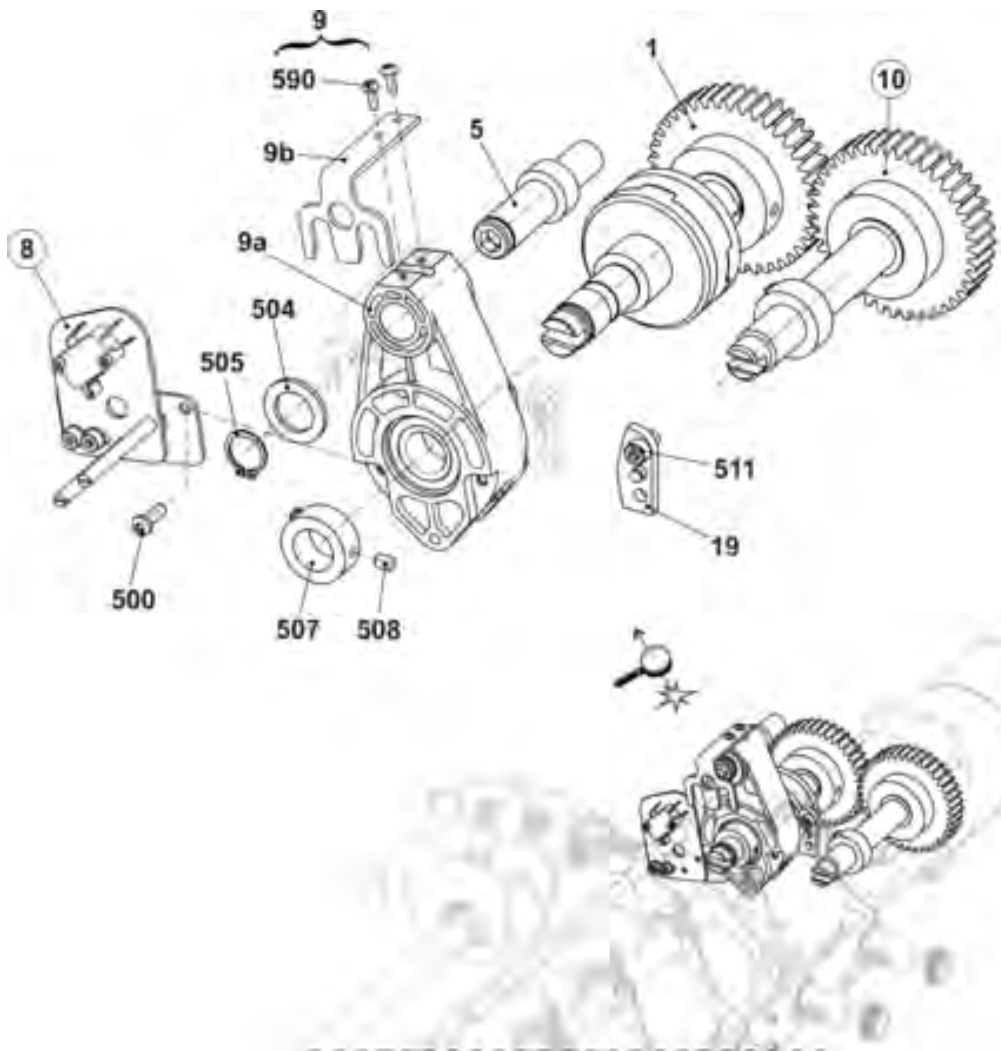
6.2 Main take-down on the left

Pos	Designation	ID		Pos	Designation	ID
Σ	Main take-down on the left	255 257		11	Full floating axle on the left	237 354
3	Shaft on the left at the rear	255 305		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	253 247		505	Locking ring18x1,2	020 955
	9a	Swivel-mounted bearing		507	Set collar	020 938
	9b	Sheet metal support		508	Setscrew	022 684
	590	Screw 35x10		511	Cap screw M6x12	020 134



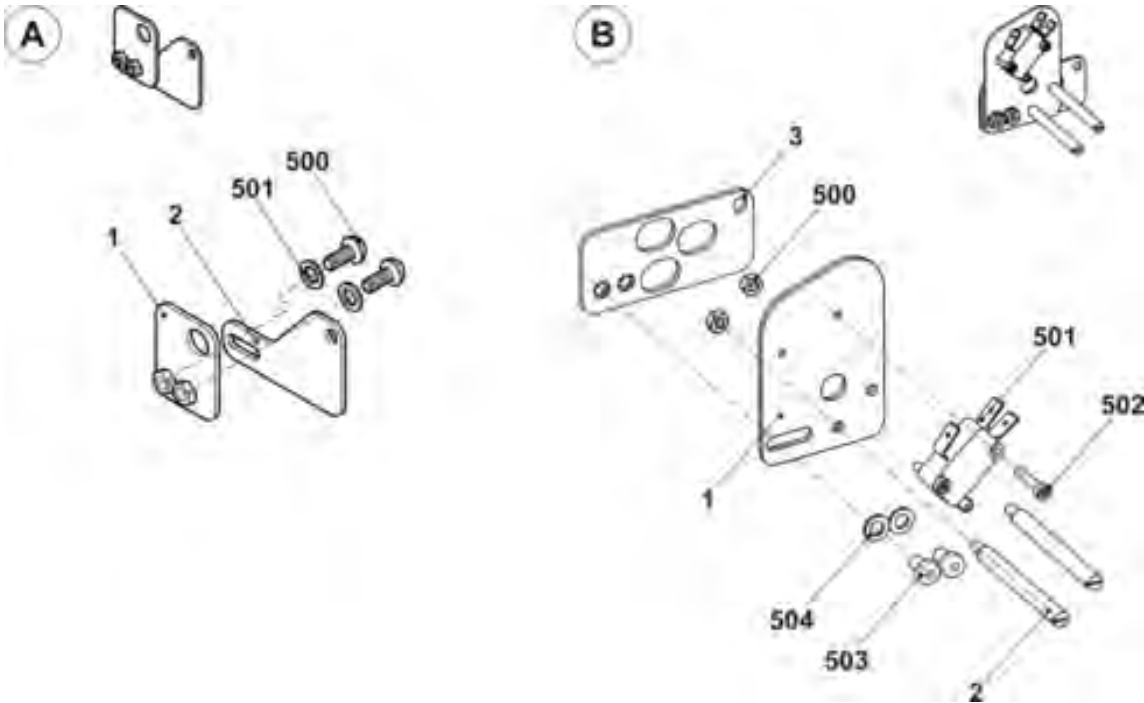
6.3 Main take-down on the right

Pos	Designation	ID		Pos	Designation	ID
Σ	Main take-down on the right	255 258		10	Full floating axle on the right	237 353
1	Clutch set	253 260		19	Stop point	252 503
5	Bolts	208 538		500	Screw 50x15	251 728
8	Mounting plate on the right complete	260 090		504	Washer18	023 295
9	Swivel-mounted bearing	253 247		505	Locking ring18x1,2	020 955
	9a	Swivel-mounted bearing	253 200	507	Set collarA20	020 938
	9b	Sheet metal support	253 212	508	Setscrew M6x8	022 684
	590	Screw 35x10	251 729	511	Cap screw M6x12	020 134



6.3.1 Mounting plate

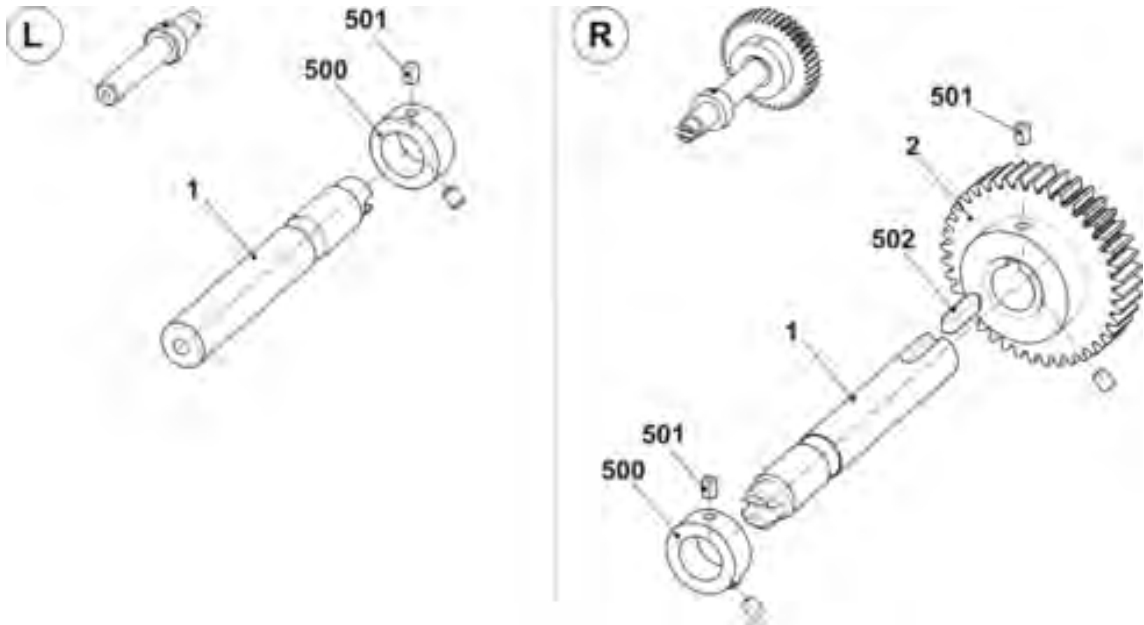
Pos	Designation	ID		Pos	Designation	ID
Σ L	Mounting plate on the left complete	231 725		Σ R	Mounting plate on the right complete	260 090
1	Mounting plate on the left	231 541		1	Mounting plate on the right	260 067
2	Retaining plate on the left	231 539		2	Shoulder screw	240 067
500	Pan-head screw M5x10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



6.3 Main take-down on the right

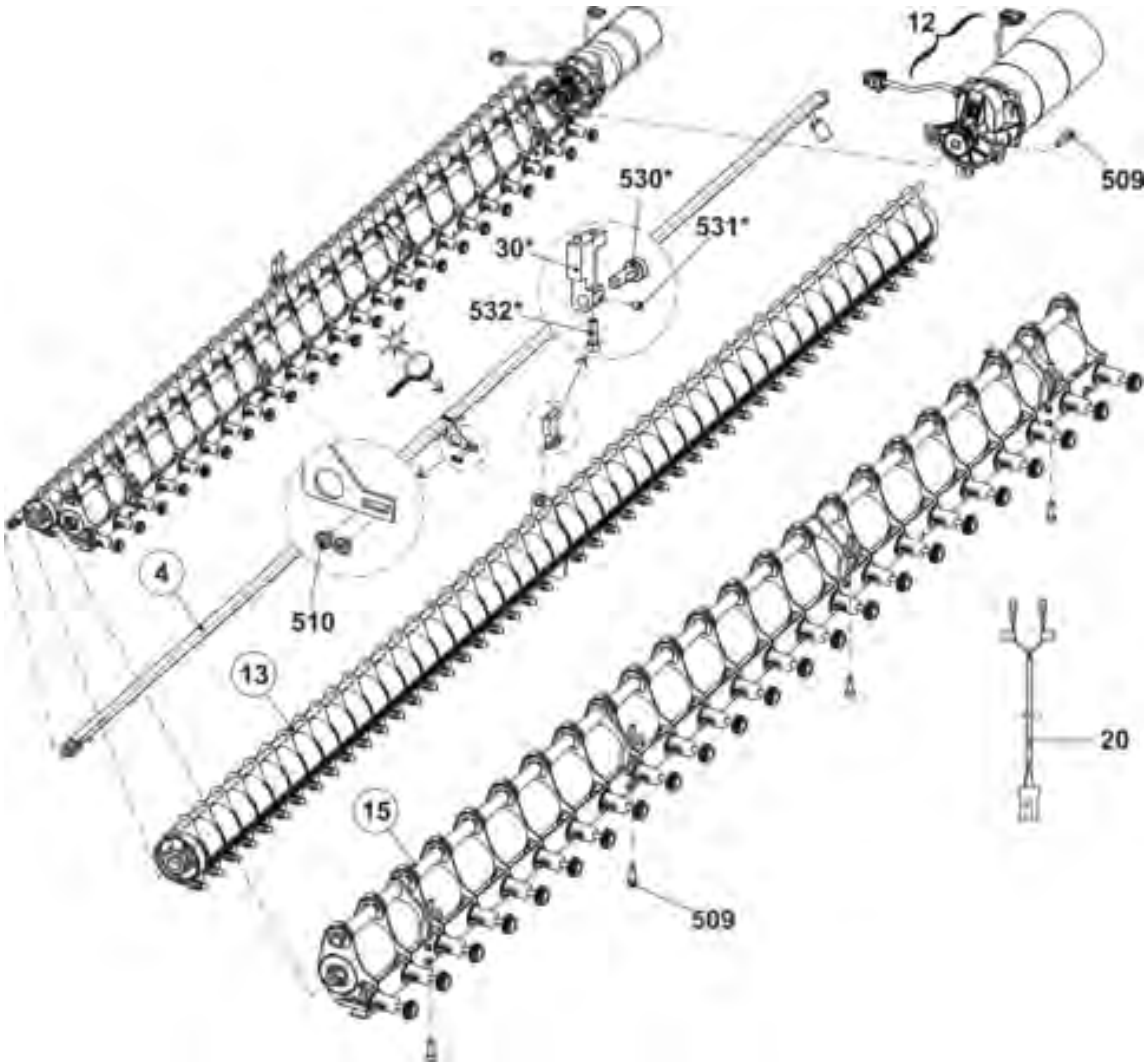
6.3.2 Full floating axle

Pos	Designation	ID		Pos	Designation	ID
Σ L	Full floating axle on the left	237 354		Σ R	Full floating axle on the right	237 353
1	Shaft on the left at the front	237 334		1	Shaft on the right in front	237 340
500	Set collar	020 938		2	Gear wheel Z=40, M=2	213 744
501	SetscrewM6x8	022 684		500	Set collar	020 938
				501	SetscrewM6x8	022 684
				502	Feather key A 6x6x25	023 017



6.4 Main take-down in the middle

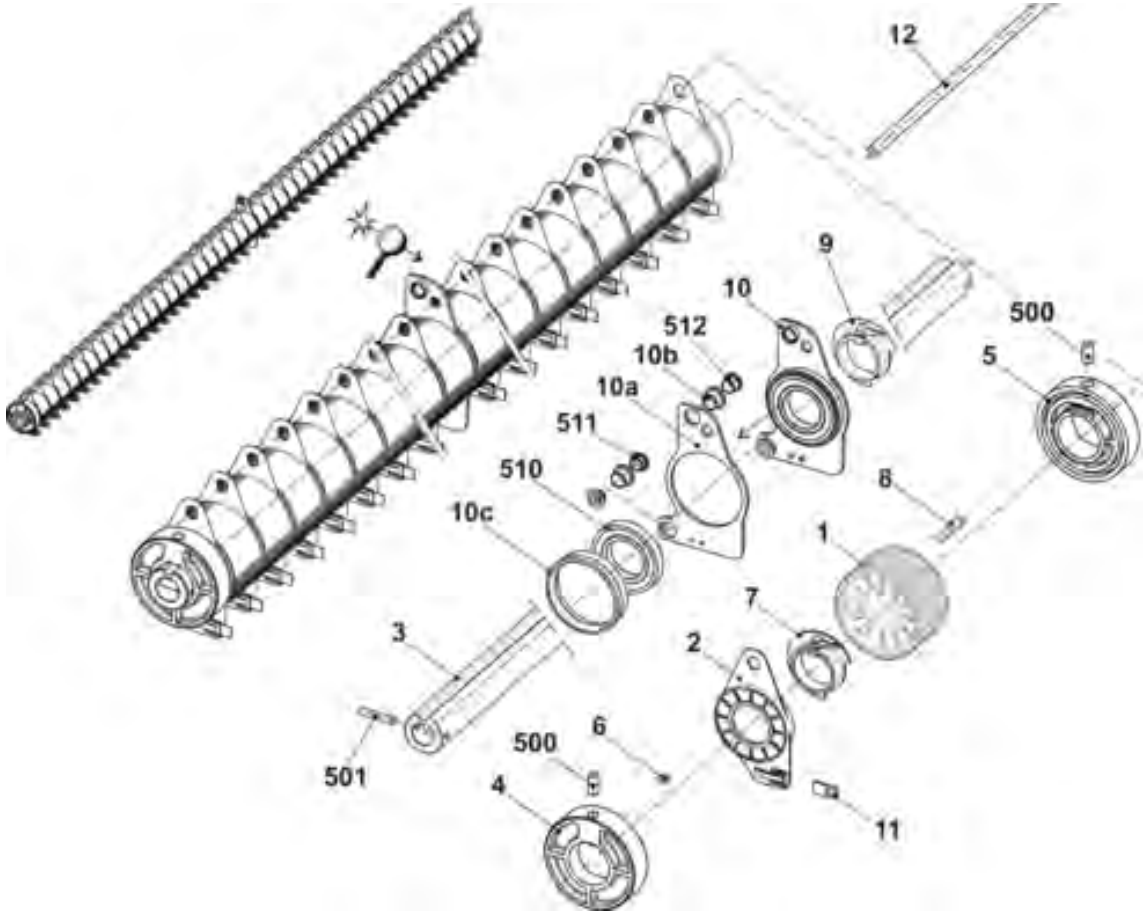
Pos	Designation	ID		Pos	Designation	ID
Σ	Main take-down in the middle E5-14	255 249		509	Cap screw M8x25	020 142
4	Stripper angle at the rear complete	259 987		510	Pan-head screw M4x6	235 450
12	Motor take-down unit complete	253 803		30*	Bearing block	237 204
13	Take-down roller at the rear complete E3-14	243 810		530*	Bolts	237 211
15	Take-down roller at the front complete	253 390		531*	Setscrew M6x8	023 723
20	Connection cable winding plate	241 703		532*	Cap screw M8x20	020 136



6.4 Main take-down in the middle

6.4.1 Rear take-down roller

Pos	Designation		ID		Pos	Designation		ID
Σ	Take-down roller at the rear complete E3-14		243 810					
1	Roller		206 770			10b	Bearing	232 571
2	Stripper		241 612			10c	Ring	222 895
3	Wave		237 190		9	Stop ring on the left		222 910
4	Ring on the left		255 830		11	Brush		225 819
5	Ring on the right		255 831		12	Rod		237 192
6	Spacer slide		222 062		500	Setscrew		258 910
7	Stop ring on the left		204 369		501	Dowel pin 6x32		020 685
8	Spacer slide		240 104		510	Grooved ball bearing 16007		021 697
10	Support		232 578		511	Slide bearing GFM-101216-06		023 280
	10a	Supporting plate	232 512		512	Slide bearing GFM-101216-09		023 356



6.4.2 Front take-down roller

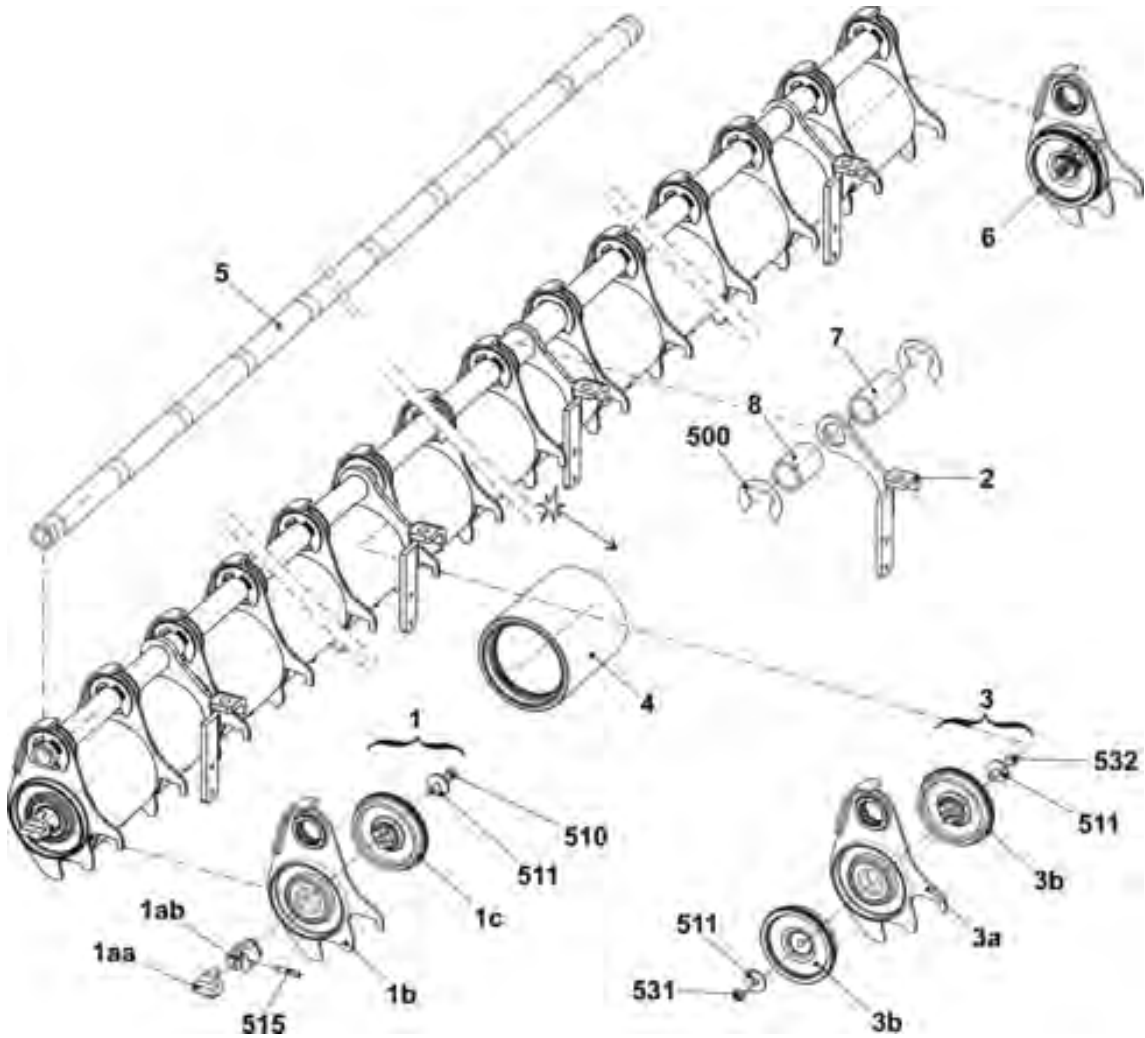
Pos	Designation	Id		Pos	Designation	Id
Σ	Take-down roller at the front complete	253 390		4	Locating piece	221 935
1	Take-down roller at the front	253 423		500	Compression spring 1x10x30	023 741
2	Angle rail complete	242 316		501	Cap screwM5x12	020 132
3	Pressure sleeve	220 911		502	Washer5-200	020 880



6.4 Main take-down in the middle

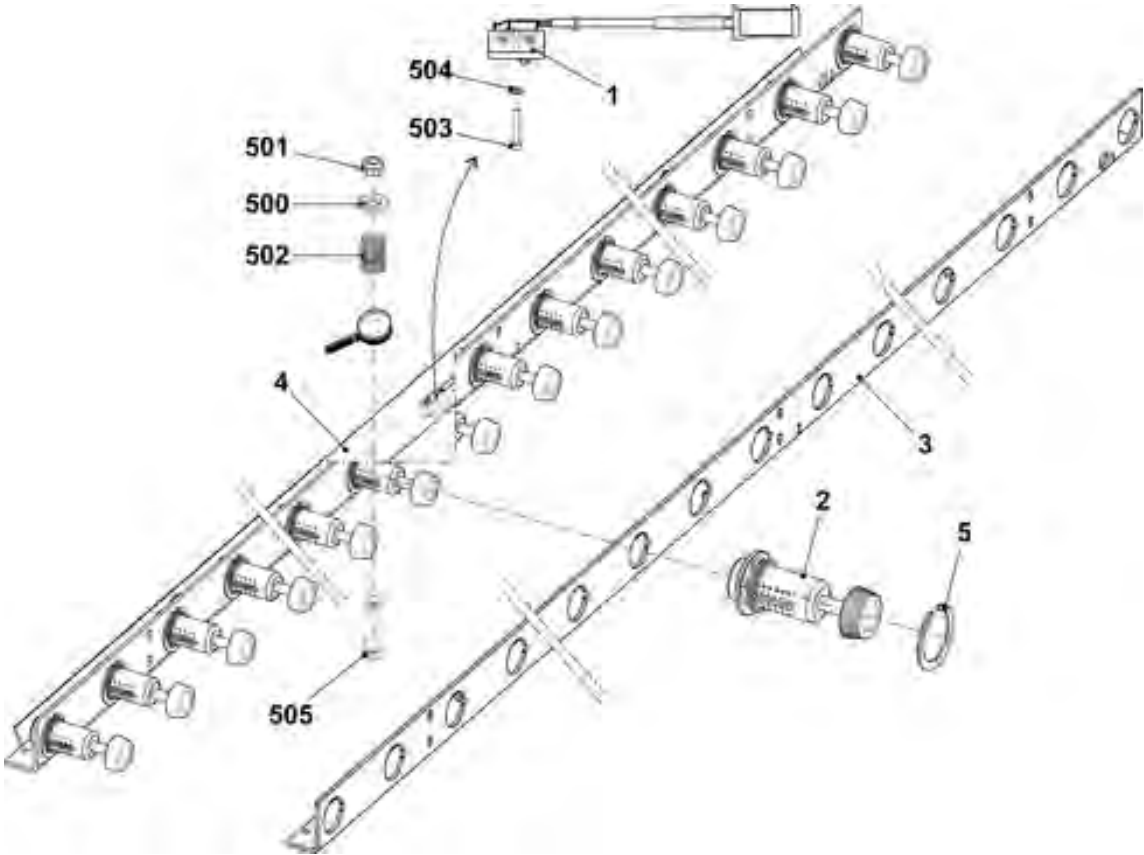
6.4.3 Front roller elements

Pos	Designation		ID		Pos	Designation		ID
Σ	Take-down roller at the front		253 423		4	Roller		220 905
1	Bearing support on the left complete		221 225		5	Tube		237 191
	1aa	adaptor	221 132		6	Bearing support on the right complete		221 240
	1ab	Universal joint	221 137			1aa	Universal joint	221 137
	1b	Bearing support	220 913			1ab	adaptor	221 132
	1c	Gear wheel	220 910			1b	Bearing support	220 913
	510	Cap screwM5x20	020 133			1c	Gear wheel	220 910
	511	Washer5	023 542			510	Cap screwM5x20	020 133
	515	Spring dowel sleeve 4x20	023 551			511	Washer5	023 542
						515	Spring dowel sleeve 4x20	023 551
2	Support		251 557		7	Spacer pipe on the right		253 407
3	Bearing support complete		221 241		8	Spacer pipe on the left		253 408
	3a	Bearing support	220 913		500	Circlip		021 025
	3b	Gear wheel	220 910					
	531	Hexagon nut M5-8	023 541					
	532	Cap screwM5x30	022 396					



6.4.4 Pressure angle rail

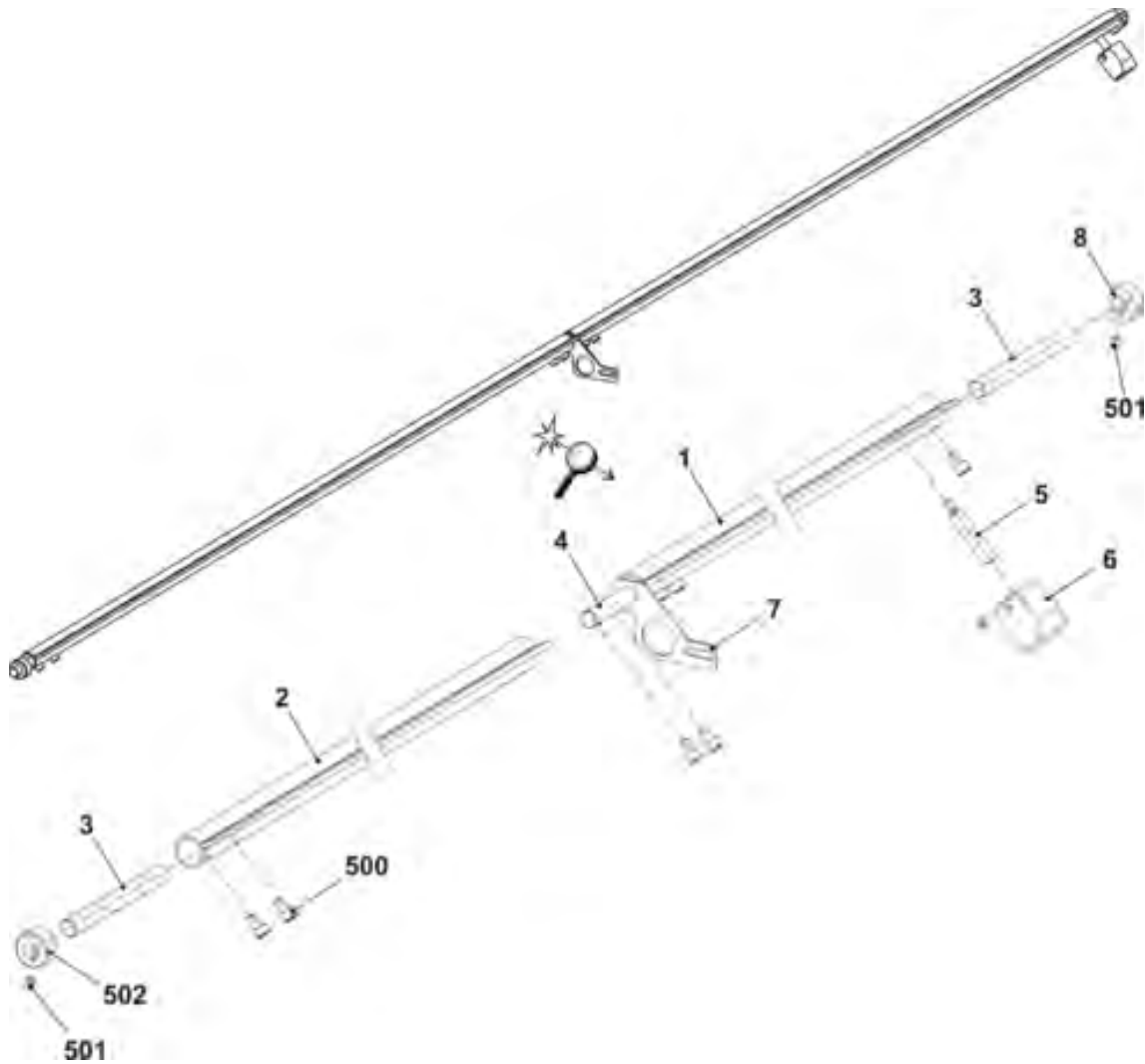
Pos	Designation	ID		Pos	Designation	ID
Σ	Angle rail complete	242 316		500	Washer6	022 431
1	Switch complete with cable	221 265		501	Hexagon nut M5-8	023 541
2	Spring flange	242 327		502	Compression spring 0,8x9,2x27,5	023 537
3	Angle rail	242 277		503	Cap screwM2x12	023 522
4	Winding plate	237 195		504	Washer2-200	022 908
5	Locking ring	242 325		505	Shoulder screw M5x20x5	023 675



6.4 Main take-down in the middle

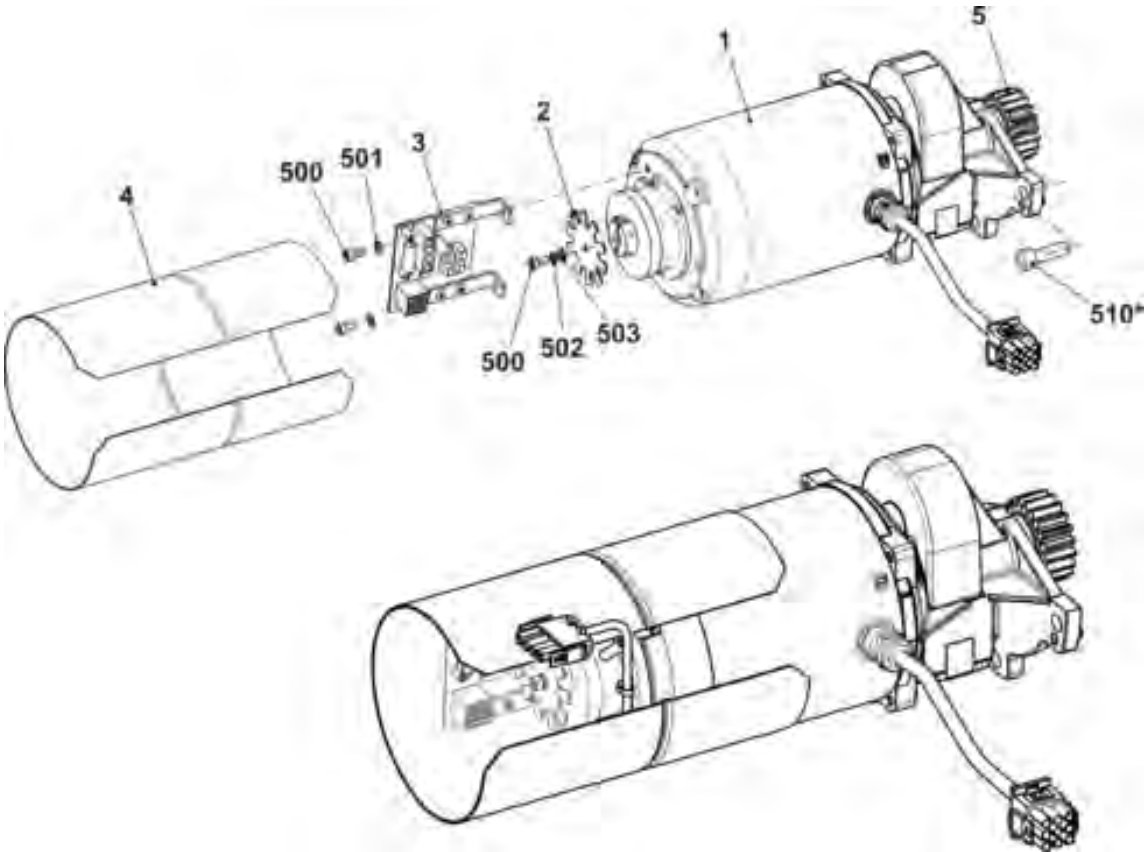
6.4.5 Stripper angle

Pos	Designation	Id		Pos	Designation	Id
Σ	Stripper angle at the rear complete	259 987		6	Adjustment weight	260 426
1	Stripper angle on the right	259 976		7	Bracket	260 060
2	Stripper angle on the left	259 977		8	Cam	260 109
3	Axle	259 969		500	Cap screw M5x8	023 319
4	Axle	259 970		501	Setscrew M5x6	022 738
5	Bolts	228 310		502	Set collar	020 934



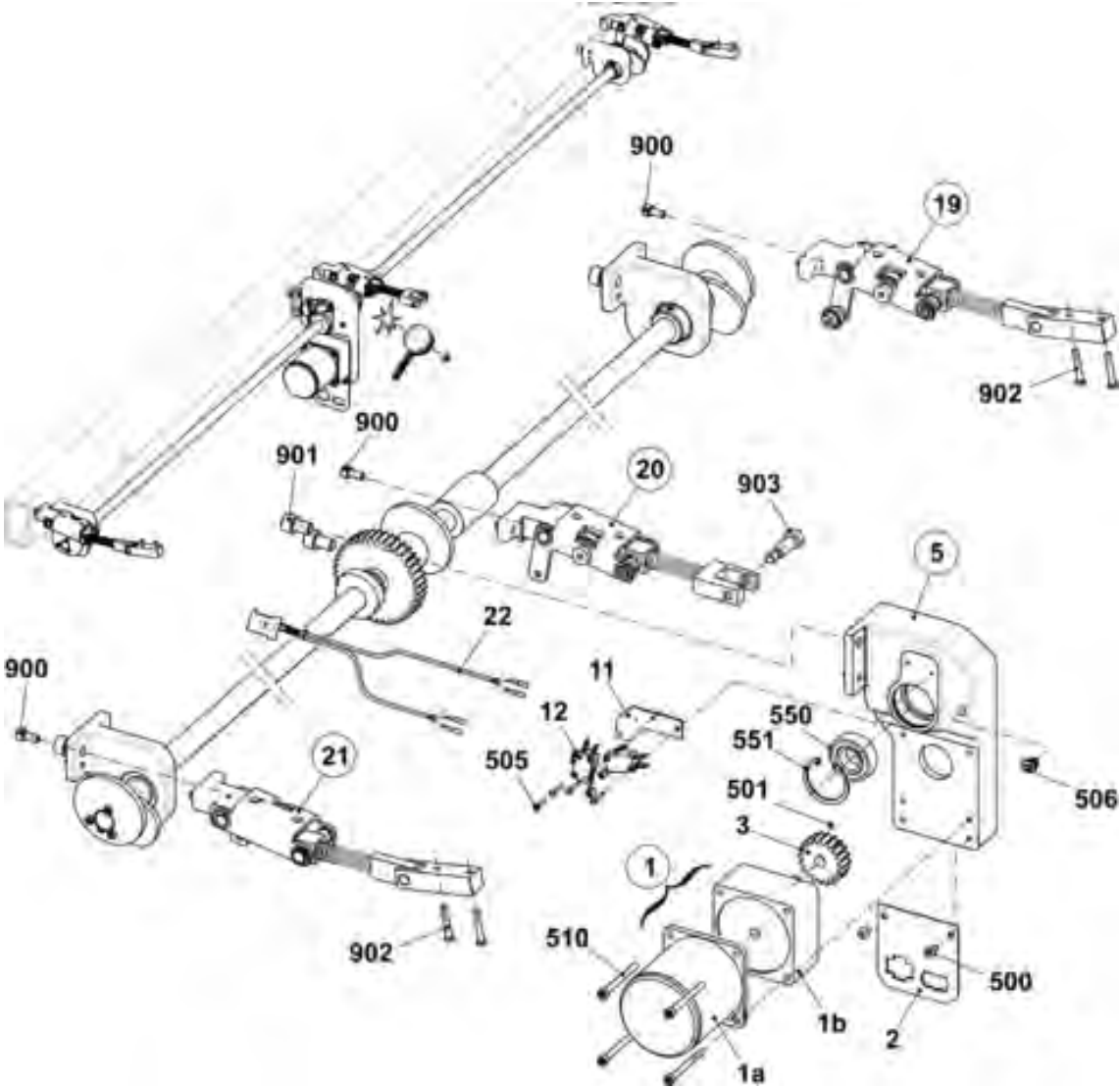
6.4.6 Impulse sensor and motor

Pos	Designation	ID		Pos	Designation	ID
Σ	Motor take-down unit complete	253 803				
1	Asynchronous torque motor (complete)	257 438		500	Cap screw M4x8	022 501
2	Impulse disc	208 716		501	Washer4-200	020 879
3	Light barrier take-down + comb	300 744		502	Circlip	022 774
4	Cover	212 262		503	Shim ring 4x8x1	023 369
5	Gear wheel	241 668		510*	Cap screw M8x25	020 142



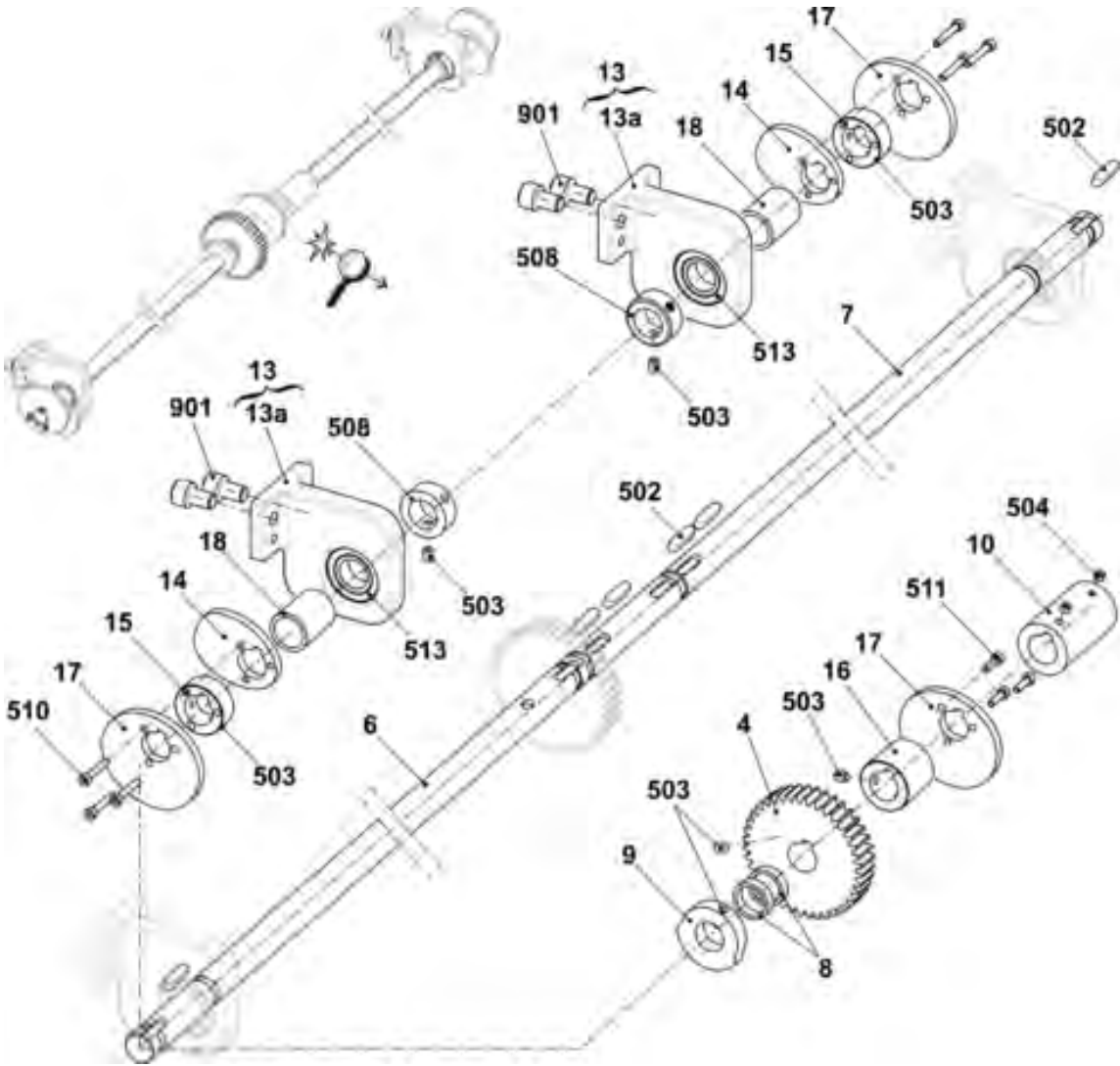
6.5 Take-down closing device

Pos	Designation		ID		Pos	Designation		ID
Σ	Main take-down on / off complete		253 387		19	Swivel support on the right complete		253 389
1	Motor complete				20	Swivel holder in the middle complete		239 188
	1a	Motor 25W	232 456		21	Swivel holder on the left complete		253 388
	1b	Gear unit	234 983		22	Cable switch HAAB open		232 442
	510	Cap screw M5x55	023 321		500	Cap screw M5x8		023 319
2	Sheet metal		232 992		501	Setscrew M4x4		022 875
3	Gear wheel		232 434		505	Cap screw M3x15		020 009
5	Support in the middle complete				506	Assembling element		209 543
	550	Grooved ball bearing 6004-2Z	022 720		900	Cap screw M6x14		022 658
	551	Locking ring 42x1,75	023 293		901	Cap screw M10x16		023 895
11	Limit switch retaining plate		235 190		902	Screw M50x30		253 257
12	Microswitch XGK2-S21 250 VAC		210 510		903	Cap screw M10x25		023 751



6.6 Continuation of take-down closing device

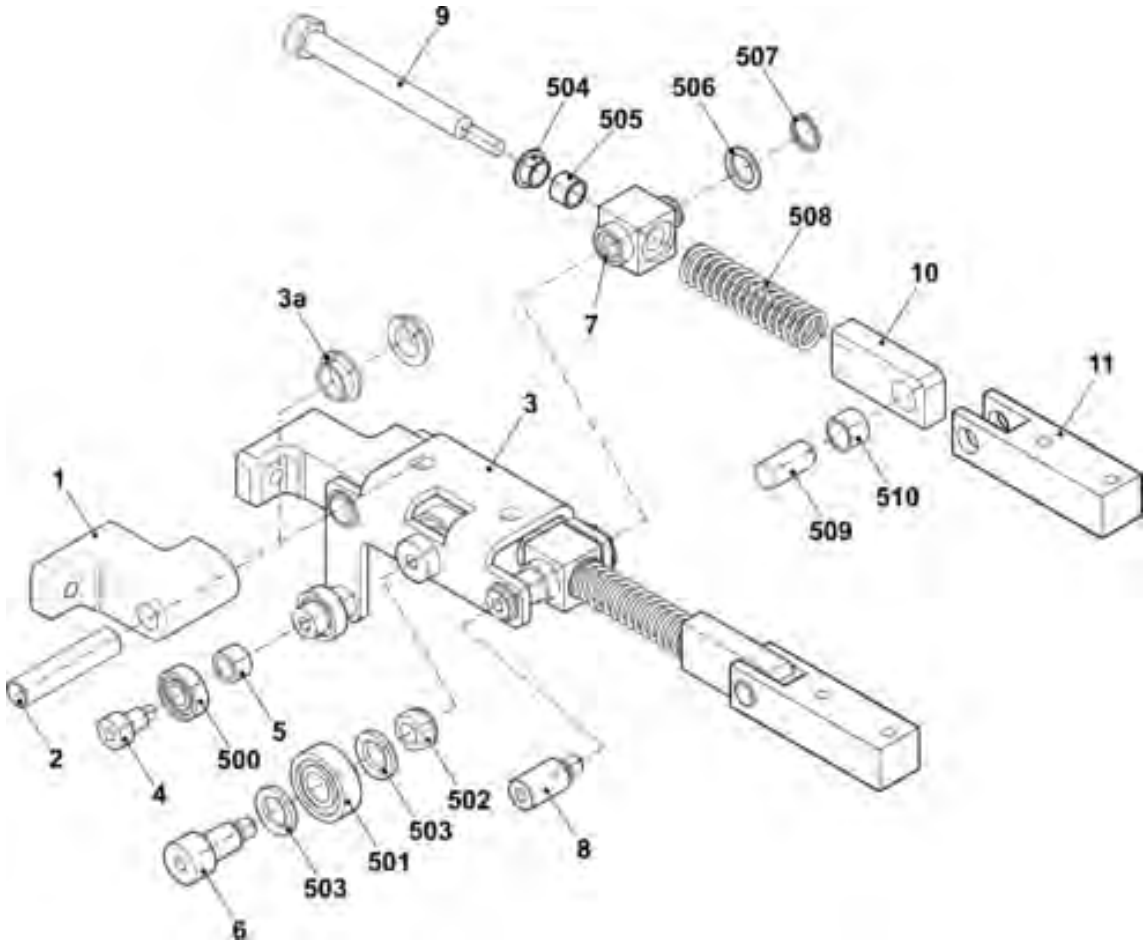
Pos	Designation	ID	Pos	Designation	ID
Σ	Main take-down on/off complete	253 387	15	Guide bush	234 876
4	Gear wheel	213 744	16	Guide bush	235 623
6	Shaft	237 180	17	Eccentric	232 382
7	Wave	237 181	18	Spacer pipe	235 128
8	Threaded spacer	232 385	502	Feather key A 6x6x25	023 017
9	Trip cam	232 383	503	SetscrewM6x8	023 723
10	Coupling	232 604	504	SetscrewM6x5	023 192
13	Support on the outside complete	235 248	508	Set collarA20	020 938
13a	Support	234 780	510	Cap screw M4x25	023 302
513	Grooved ball bearing 6004-2Z	022 720	511	Cap screw M4x14	023 604
14	Eccentric	235 135	901	Cap screw M10x16	023 895



6.6 Continuation of take-down closing device

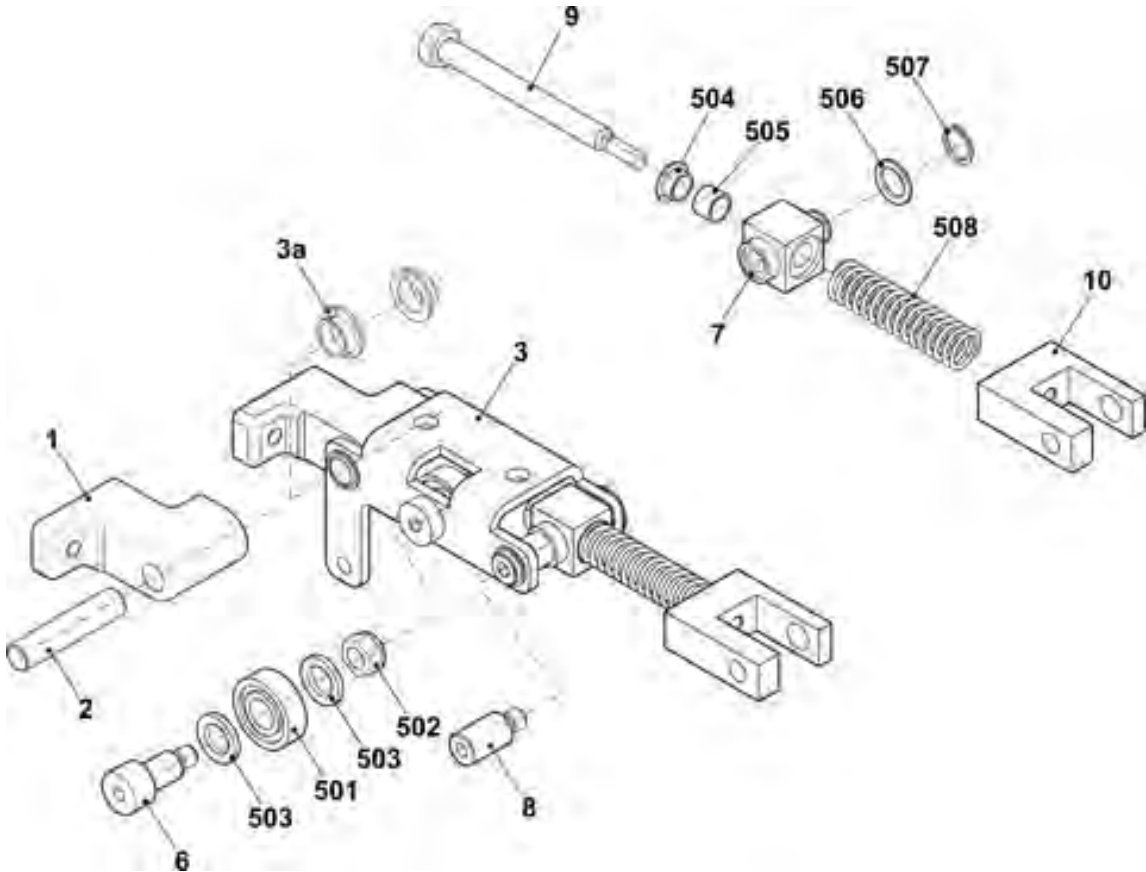
6.6.1 Right swivel support

Pos	Designation	ID		Pos	Designation	ID
Σ	Swivel support on the right complete	253 389		11	Lever	253 199
1	Support	239 163		500	Grooved ball bearing 619/8-2RS	023 728
2	Bearing pin	239 164		501	Grooved ball bearing 6000-2Z	022 599
3	Bow	238 974		502	Hexagon nut M8-8	022 843
	3a	Clip bearing 11-MCM-12-04	023 639	503	Shim ring 10x16x2	023 600
4	Shoulder screw	239 133		504	Slide bearing GFM-081014-06	023 358
5	Threaded spacer	239 134		505	Slide bearing GSM-0810-10	023 896
6	Shoulder screw	239 132		506	Shim ring 12x18x1	023 315
7	Swivel-mounted bearing	239 100		507	Locking ring12x1	020 951
8	Bearing bolt	239 117		508	Compression spring 2,5x12,5x67,5	023 743
9	Spring mandrel on the inside	232 388		509	Dowel pin 10x20	023 616
10	Lever	238 370		510	Slide bearing GSM-1012-10	239 178



6.6.2 Swivel holder in the middle

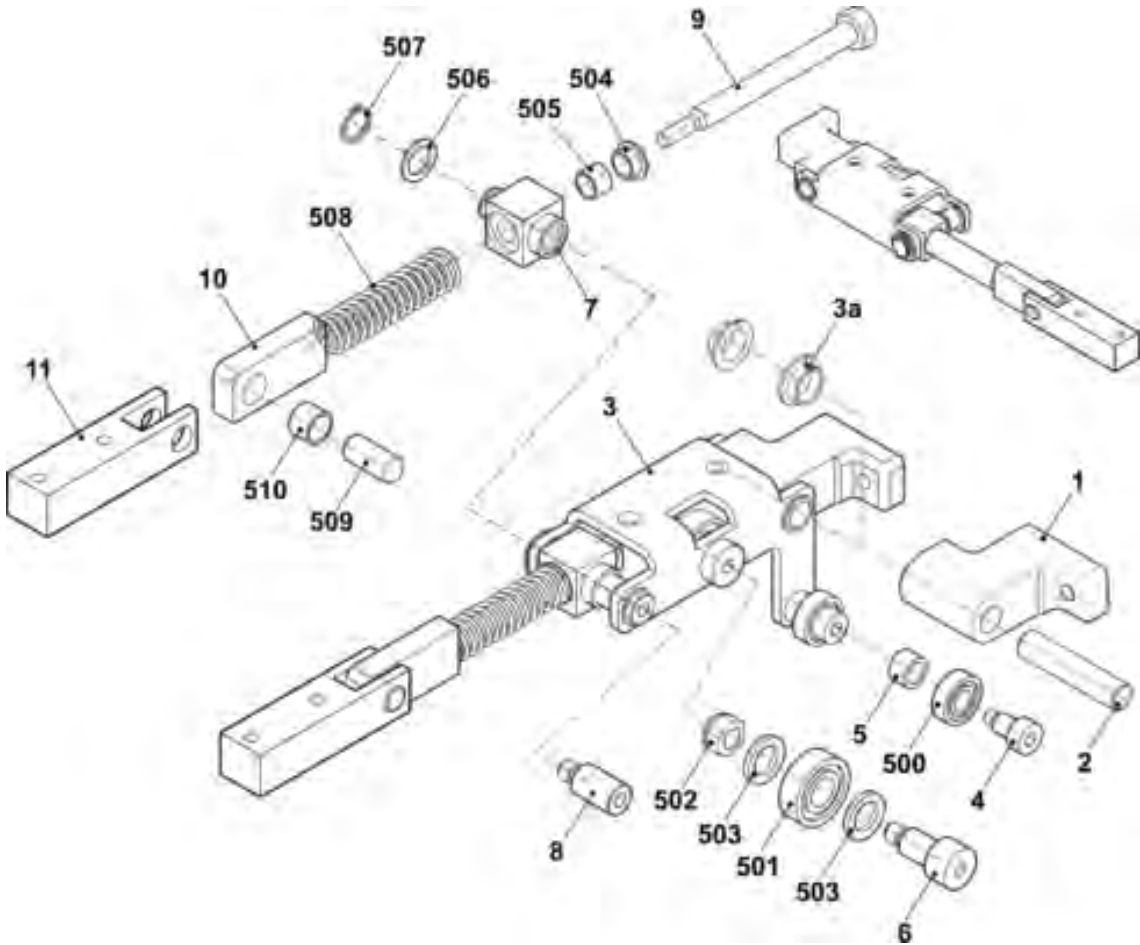
Pos	Designation	ID	Pos	Designation	ID
Σ	Swivel holder in the middle complete	239 188	10	Angle	238 778
1	Support	239 163	501	Grooved ball bearing 6000-2Z	022 599
2	Bearing pin	239 164	502	Hexagon nut M8-8	022 843
3	Bow	238 974	503	Shim ring 10x16x2	023 600
3a	Clip bearing 11-MCM-12-04	023 639	504	Slide bearing GFM-081014-06	023 358
6	Shoulder screw	239 132	505	Slide bearing GSM-0810-10	023 896
7	Swivel-mounted bearing	239 100	506	Shim ring 12x18x1	023 315
8	Bearing bolt	239 117	507	Locking ring 12x1	020 951
9	Spring mandrel on the inside	232 388	508	Compression spring 2,5x12,5x67,5	023 743



6.6 Continuation of take-down closing device

6.6.3 Left swivel holder

Pos	Designation	ID	Pos	Designation	ID
Σ	Swivel holder on the left complete	253 388	11	Lever	253 199
1	Support	239 163	500	Grooved ball bearing 619/8-2RS	023 728
2	Bearing pin	239 164	501	Grooved ball bearing 6000-2Z	022 599
3	Bow on the left	239 184	502	Hexagon nut M8-8	022 843
3a	Clip bearing 11-MCM-12-04	023 639	503	Shim ring 10x16x2	023 600
4	Shoulder screw	239 133	504	Slide bearing GFM-081014-06	023 358
5	Threaded spacer	239 134	505	Slide bearing GSM-0810-10	023 896
6	Shoulder screw	239 132	506	Shim ring 12x18x1	023 315
7	Swivel-mounted bearing	239 100	507	Locking ring 12x1	020 951
8	Bearing bolt	239 117	508	Compression spring 2,5x12,5x67,5	023 743
9	Spring mandrel on the inside	232 388	509	Dowel pin 10x20	023 616
10	Lever	238 370	510	Slide bearing GSM-1012-10	239 178

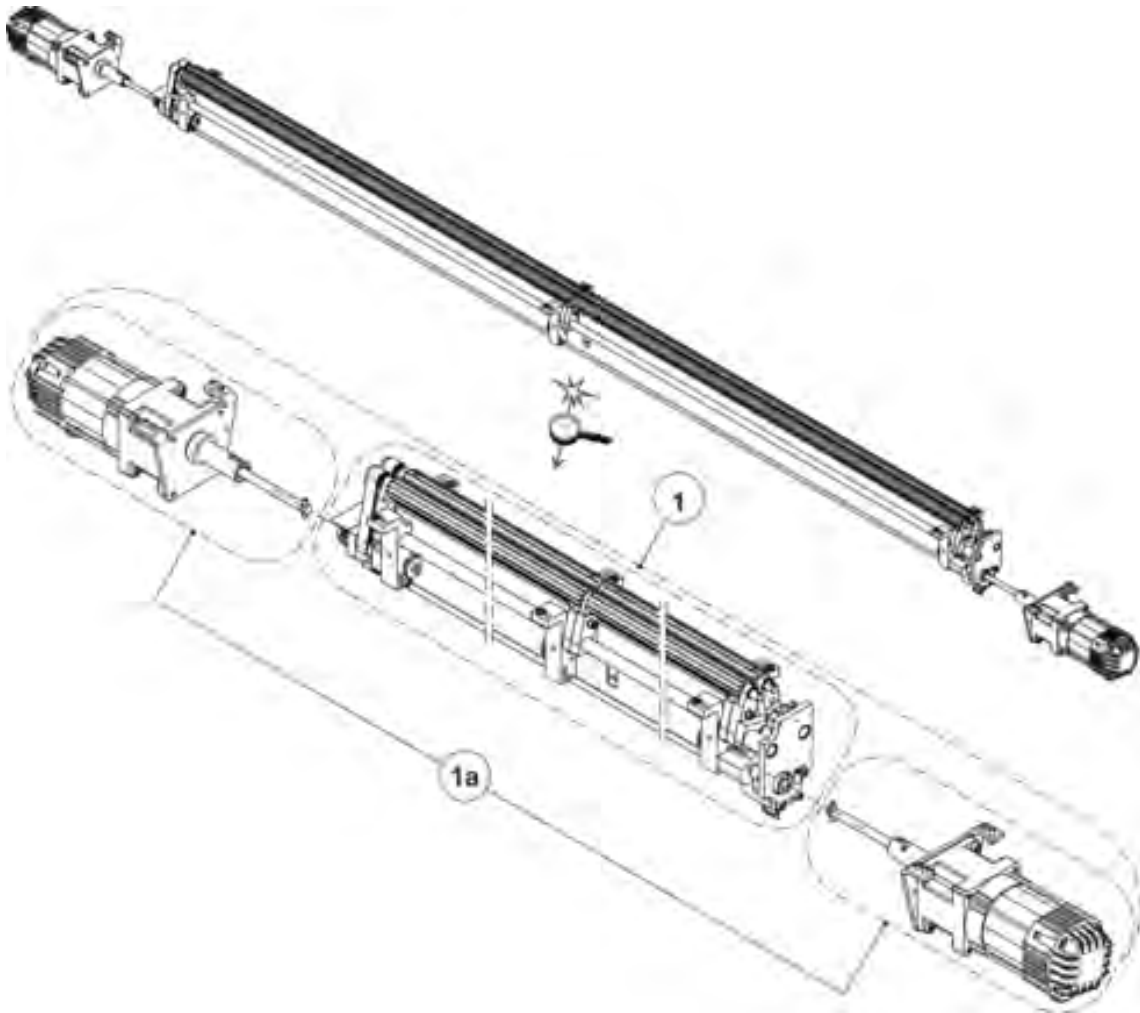


7 Auxiliary take-down



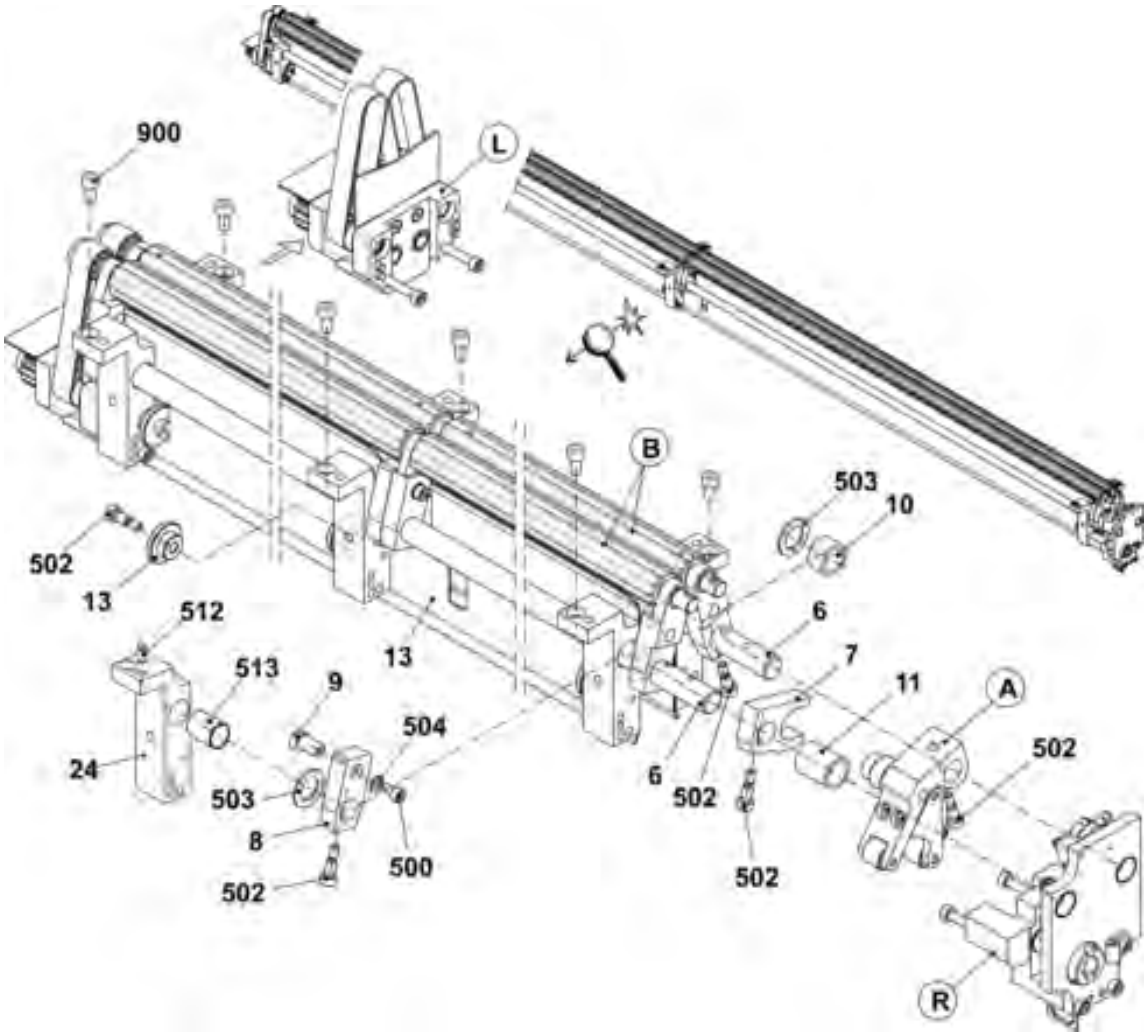
7.1 Auxiliary take-down

Pos	Designation	Id		Pos	Designation	Id
Σ	Auxiliary take-down					
1	Auxiliary take-down pre-assembled	254 974		1a	Motor with 2 phases auxiliary take-down complete	235 602



7.1.1 Auxiliary take-down pre-assembled

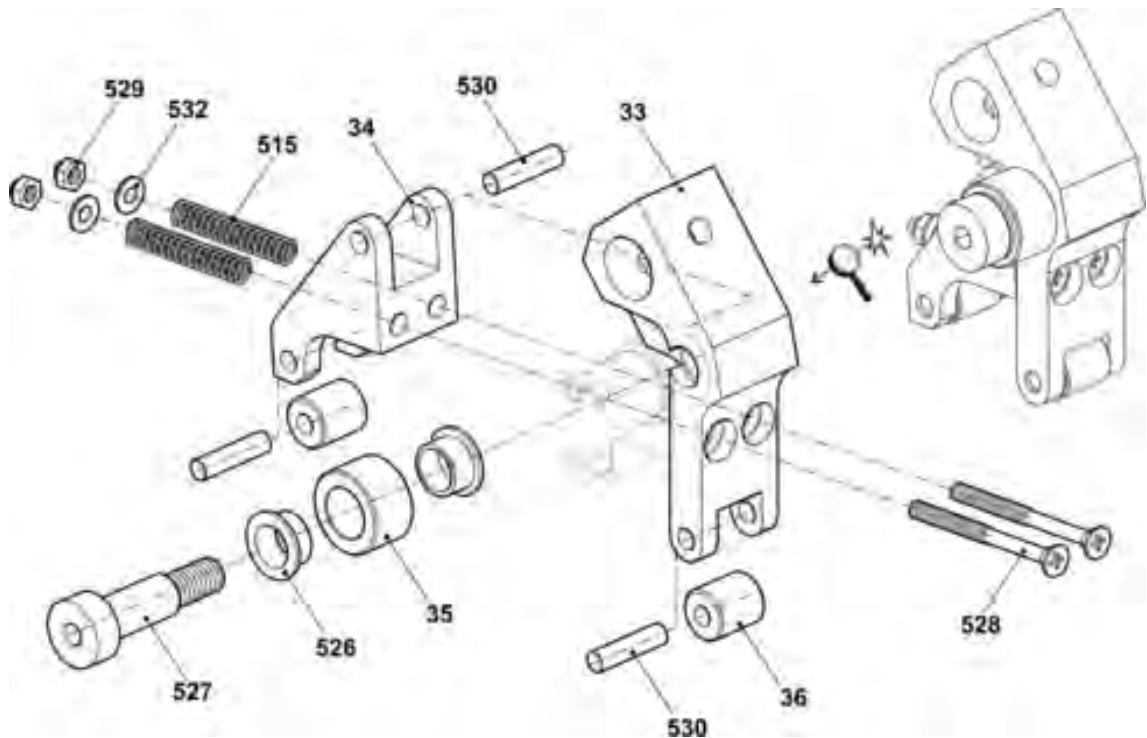
Pos	Designation	Id		Pos	Designation	Id
Σ	Auxiliary take-down pre-assembled	254 974				
6	Contact shaft	237 126		B	Take-down roller	237 128
7	Lever	235 164		L	Bearing on the left	236 894
8	Clamping lever	235 156		R	Bearing on the right	235 353
9	Eccentric	236 952		500	Cap screw M5x10	022 918
10	Spacer pipe	235 189		502	Cap screw 6x10	235 448
11	Spacer pipe	235 192		503	Stop disk GTM-1524-015	235 447
12	Cover plate	237 127		504	Disk5	020 871
13	Roll	235 178		512	Dowel pin 6x10	023 268
24	Support	235 150		513	Slide bearing FSM-1517-20	237 060
A	Contact lever	235 356		900	Cap screw M6x12	020 134



7.1 Auxiliary take-down

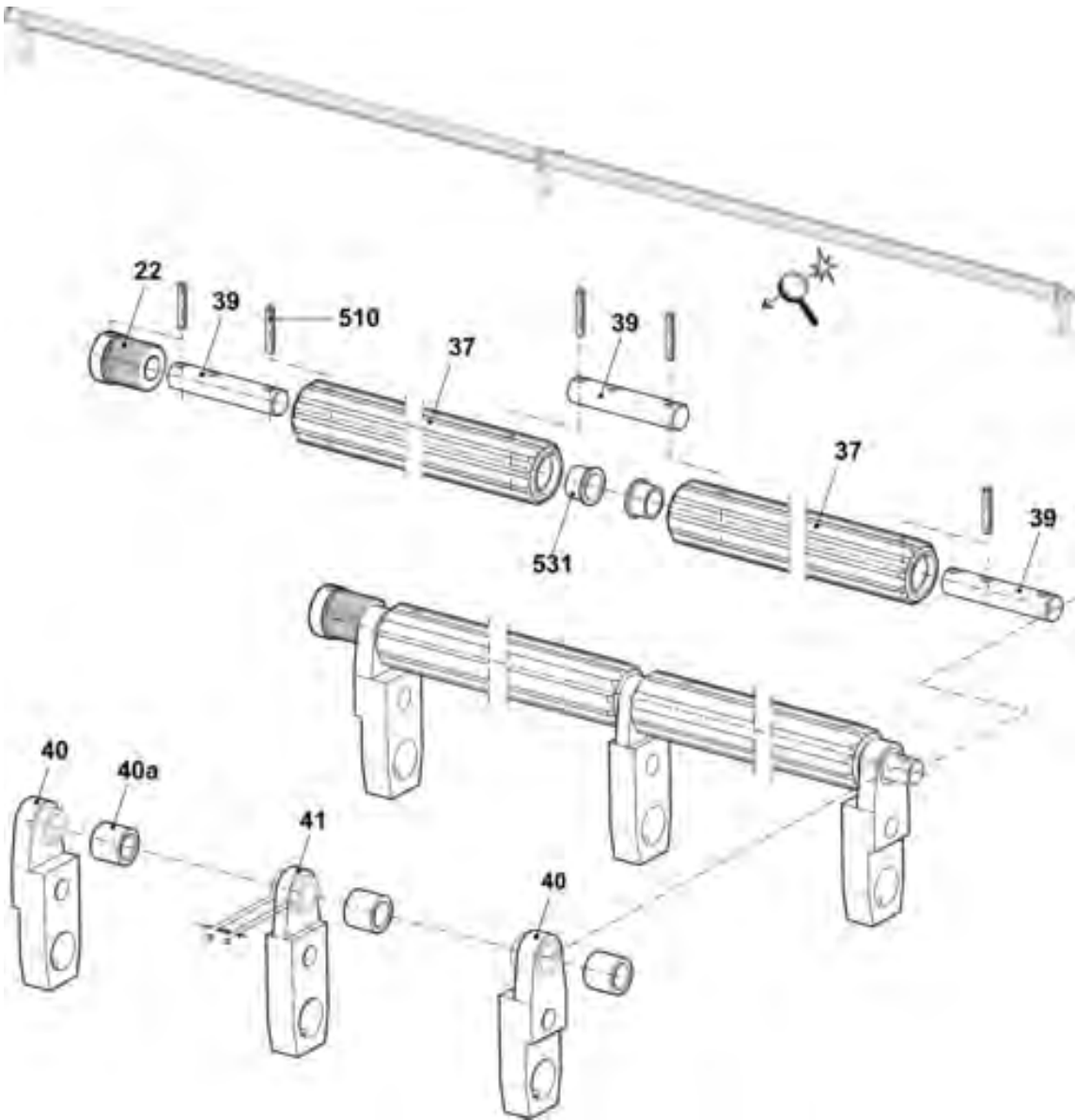
7.1.1.1 Contact lever

Pos	Designation	Id		Pos	Designation	Id
Σ	Contact lever	235 356		526	Slide bearing GFM-10x1216-06	023 280
33	Lever	235 172		527	Cap screw M10x16	023 748
34	Toggle	235 173		528	Countersunk screw M4x45	023 291
35	Roller	235 176		529	Hexagon nut M4-8	023 046
36	Roll	235 171		530	Dowel pin 5x22-A-ST	023 716
515	Compression spring 1,6x6,4x27,1	023 288		532	Washer4	020 870



7.1.1.2 Take-down roller

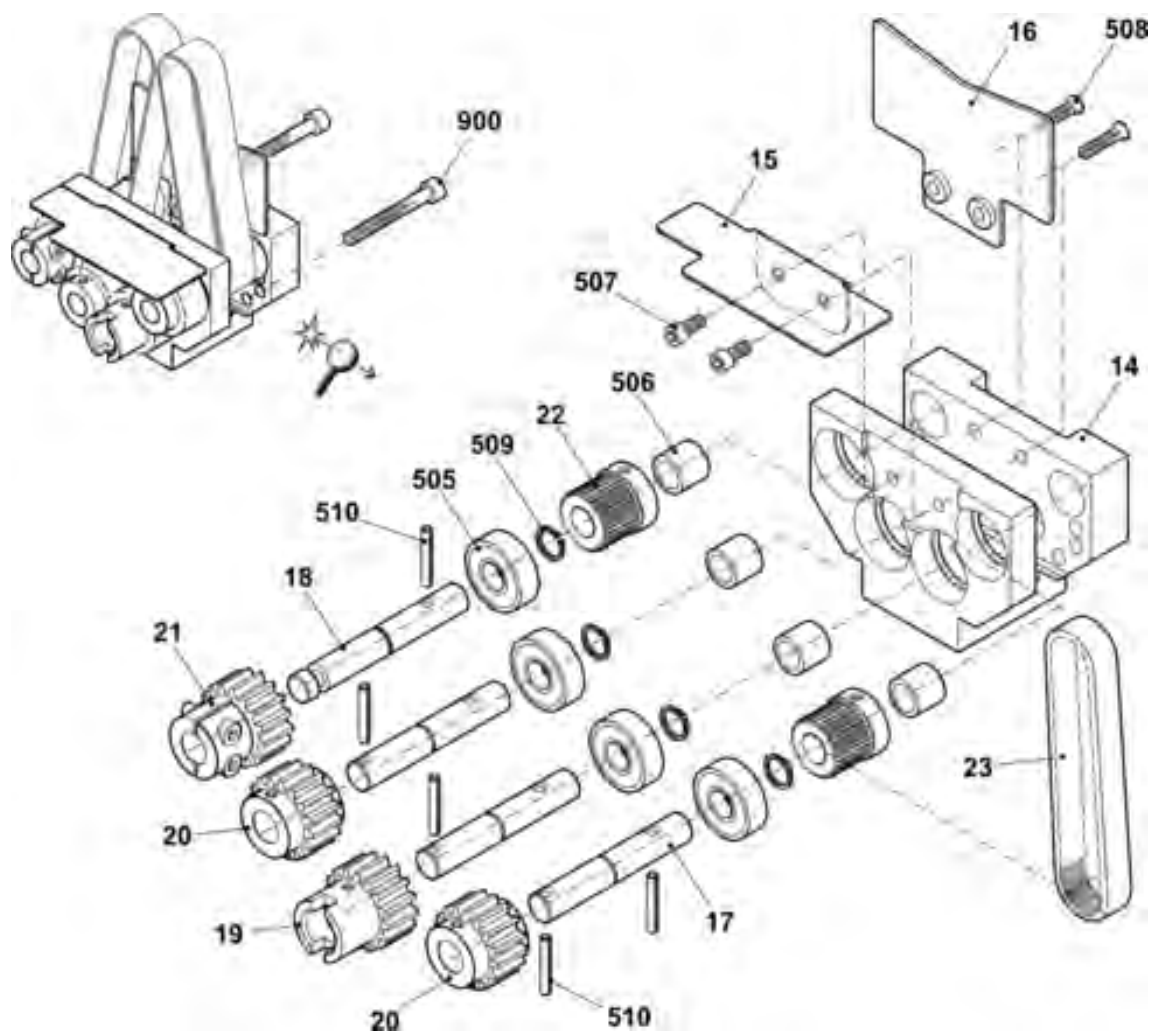
Pos	Designation	Id		Pos	Designation	Id	
Σ	Take-down roller	237 128					
22	Toothed belt pulley	237 043			40a	Needle roller bearing 10x14x12	023 665
37	Take-down roller	237 125		41	Lever bearing in the middle complete		235 359
39	Bolts	236 973		531	Slide bearing GFM-101214-07		023 627
40	Lever bearing on the right/left complete	235 358		510	Spring dowel sleeve 3x18		237 059



7.1 Auxiliary take-down

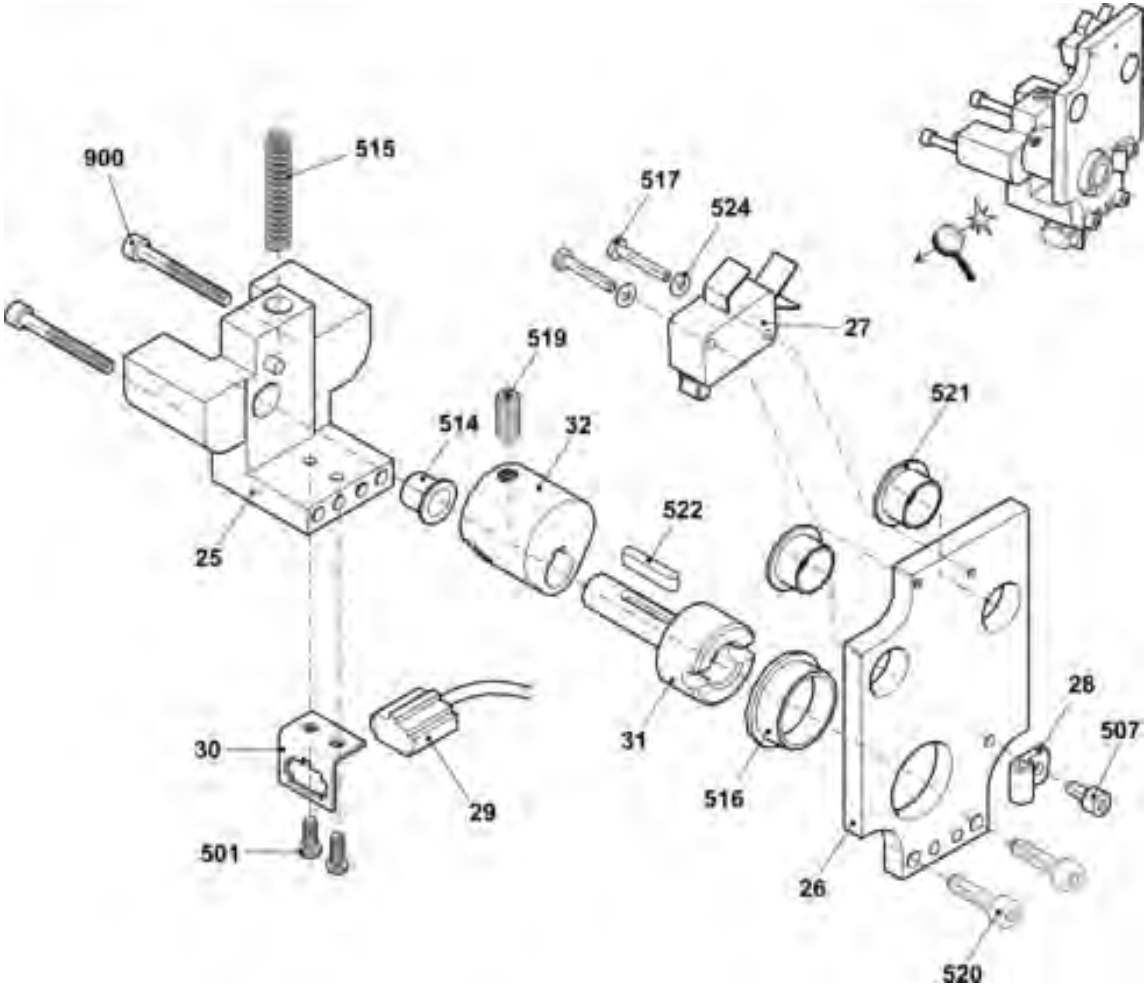
7.1.1.3 Left bearing of the auxiliary take-down

Pos	Designation	Id		Pos	Designation	Id
Σ	Bearing on the left	236 894		22	Toothed belt pulley	237 043
14	Drive bearing	237 422		23	Toothed beltHPS5M NG CLEAN	237 118
15	Cover plate	236 970		505	Grooved ball bearing 61900-2RS1	023 714
16	Cover plate	237 037		506	Needle roller bearing 10x14x10	023 664
17	Bolts	236 964		507	Cap screw M4x8	022 501
18	Bolts	236 963		508	Countersunk screw M4x12	023 062
19	Gear wheel	236 914		509	Locking ring10x1	020 950
20	Gear wheel	236 916		510	Spring dowel sleeve 3x18	237 059
21	Gear wheel	236 917		900	Cap screw M5x35	022 879



7.1.1.4 Right bearing of the auxiliary take-down

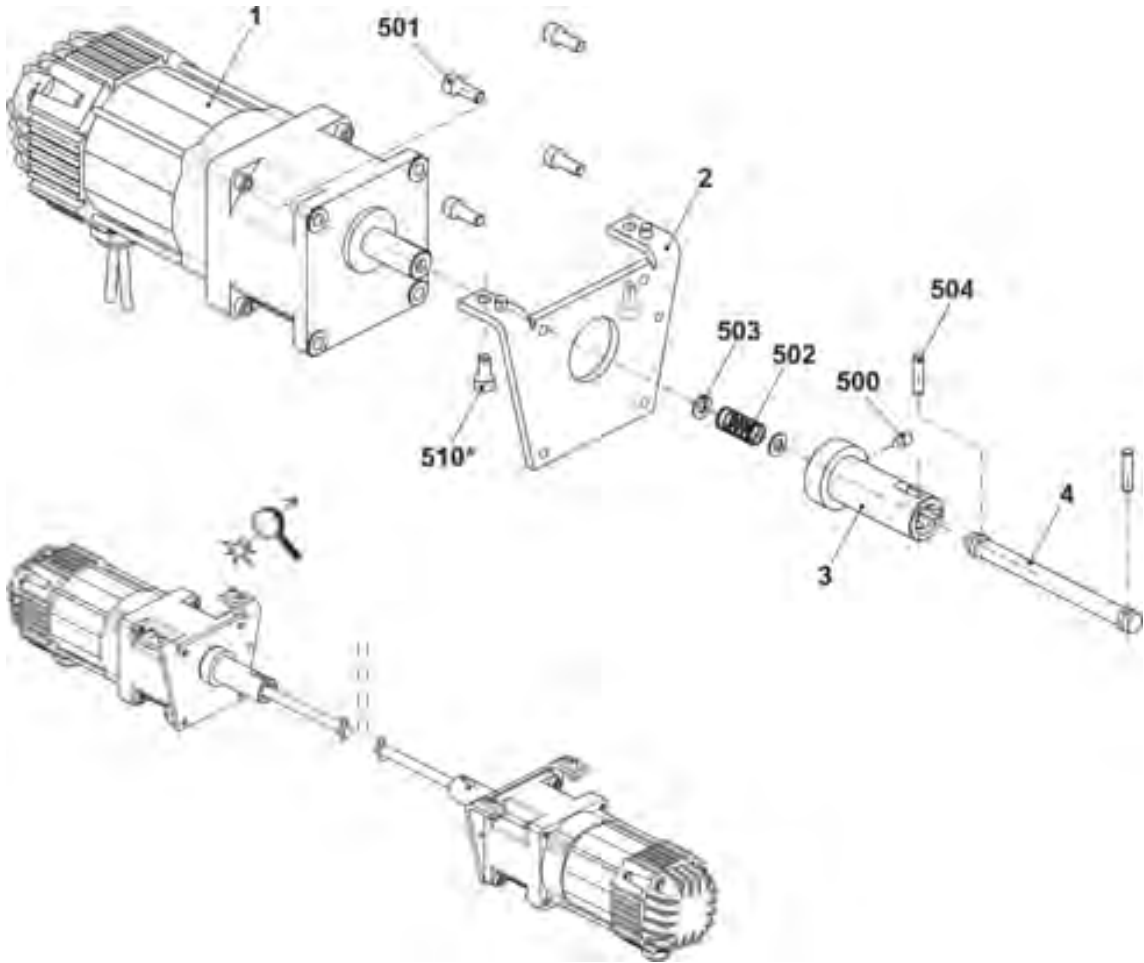
Pos	Designation	Id	Pos	Designation	Id
Σ	Bearing on the right	235 353			
25	Bearing on the right	237 520	514	Slide bearing GFM-101216-09	023 356
26	Plate	235 168	515	Compression spring 1,6x6,4x27,1	023 288
27	Microswitch	026 259	516	Slide bearing GFM-2427-07	023 712
28	Cable clip N-3B 5mm	210 729	517	Hexagon screw M3x16	237 058
29	Cable switch HIAB St468	235 027	519	Setscrew M6x12	023 724
30	Sheet metal for plug	236 068	520	Cap screw M5x16	022 726
31	Shaft	235 159	521	Slide bearing GFM-1517-09	235 342
32	Eccentric	235 165	522	Feather key A 4x4x20	235 349
501	Pan-head screw M4x8	023 579	524	Washer3	020 877
507	Cap screw M4x8	022 501	900	Cap screw M5x35	022 879



7.1 Auxiliary take-down

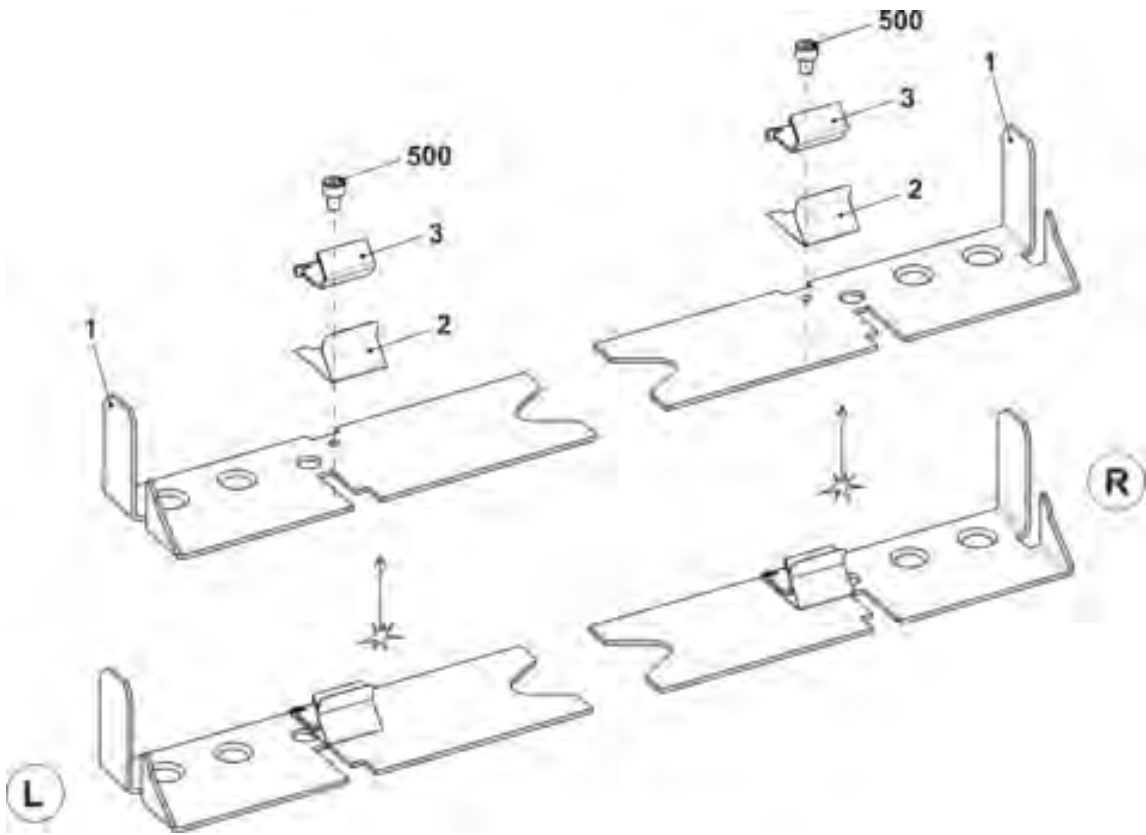
7.1.2 Motor

Pos	Designation	Id		Pos	Designation	Id
Σ	Motor with 2 phases auxiliary take-down complete	235 602				
1	Motor 1,8NM 30MIN-1	234 805		501	Cap screw M6x16	020 135
2	Motor bracket	235 276		502	Compression spring 0,63x10,97x40	023 500
3	Drive sleeve	235 285		503	Shim ring 6x12x1	023 444
4	Wave	235 300		504	Dowel pin 5x22-A-ST	023 716
500	Setscrew M6x10	023 543		510*	Cap screw M6x12	020 134



7.2 Yarn brake at clamping and cutting bed

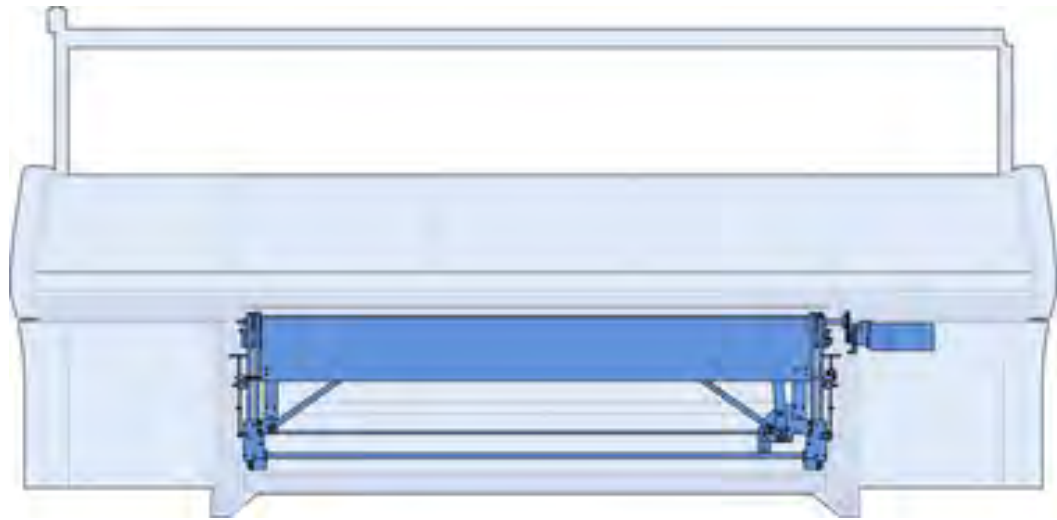
Pos	Designation	Id		Pos	Designation	Id
Σ L	Yarn brake on the left	262 378		Σ R	Yarn brake on the right	262 377
1	Cover on the left	262 376		3	Cover on the right	262 375
2	Leaf spring	256 712		1	Leaf spring	256 712
3	Test clamping plate	256 713		2	Test clamping plate	256 713
500	Cap screw M4x6	023 067		500	Cap screw M4x6	023 067



7.2 Yarn brake at clamping and cutting bed

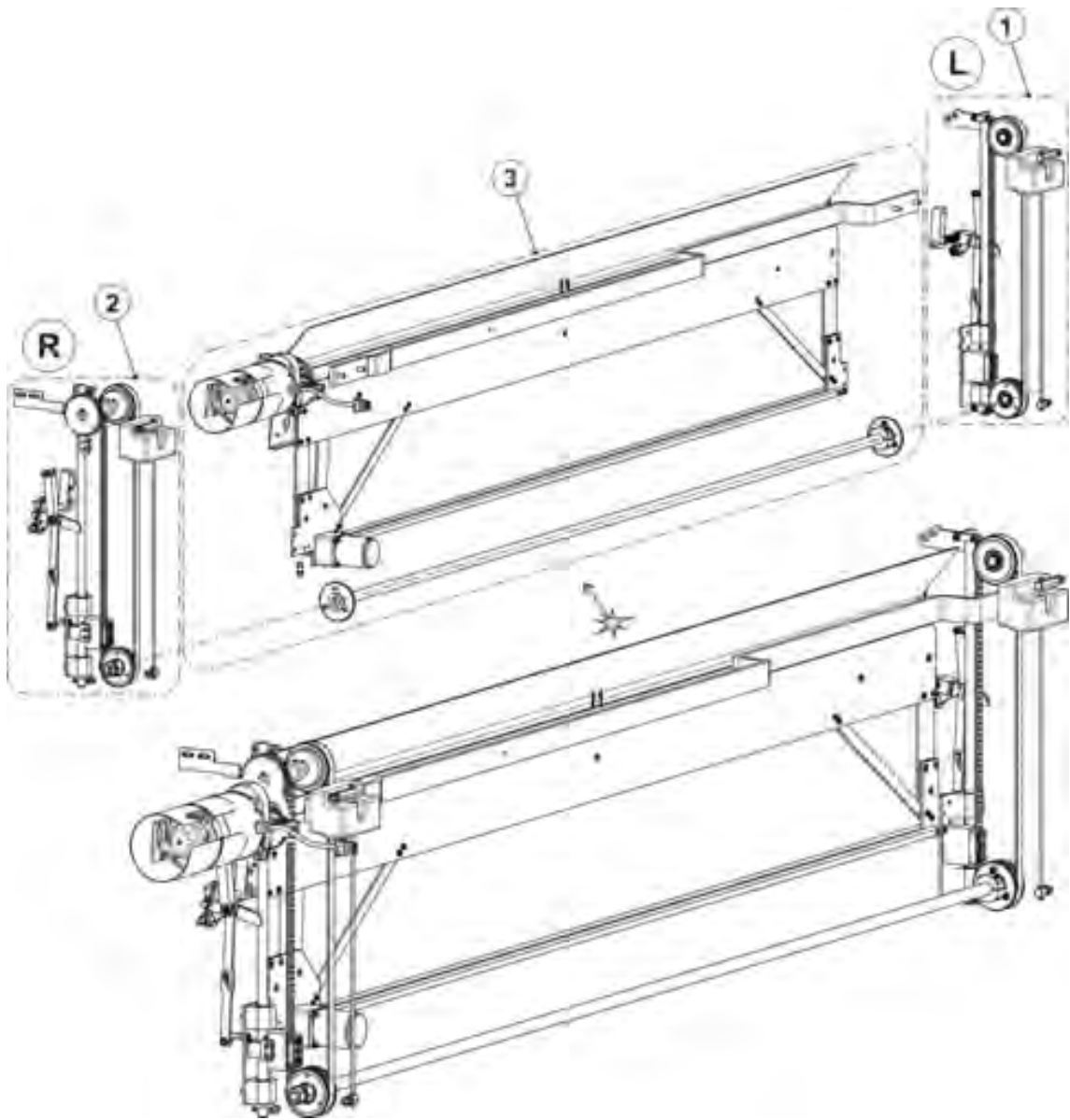
Notes:

8 Comb take-down



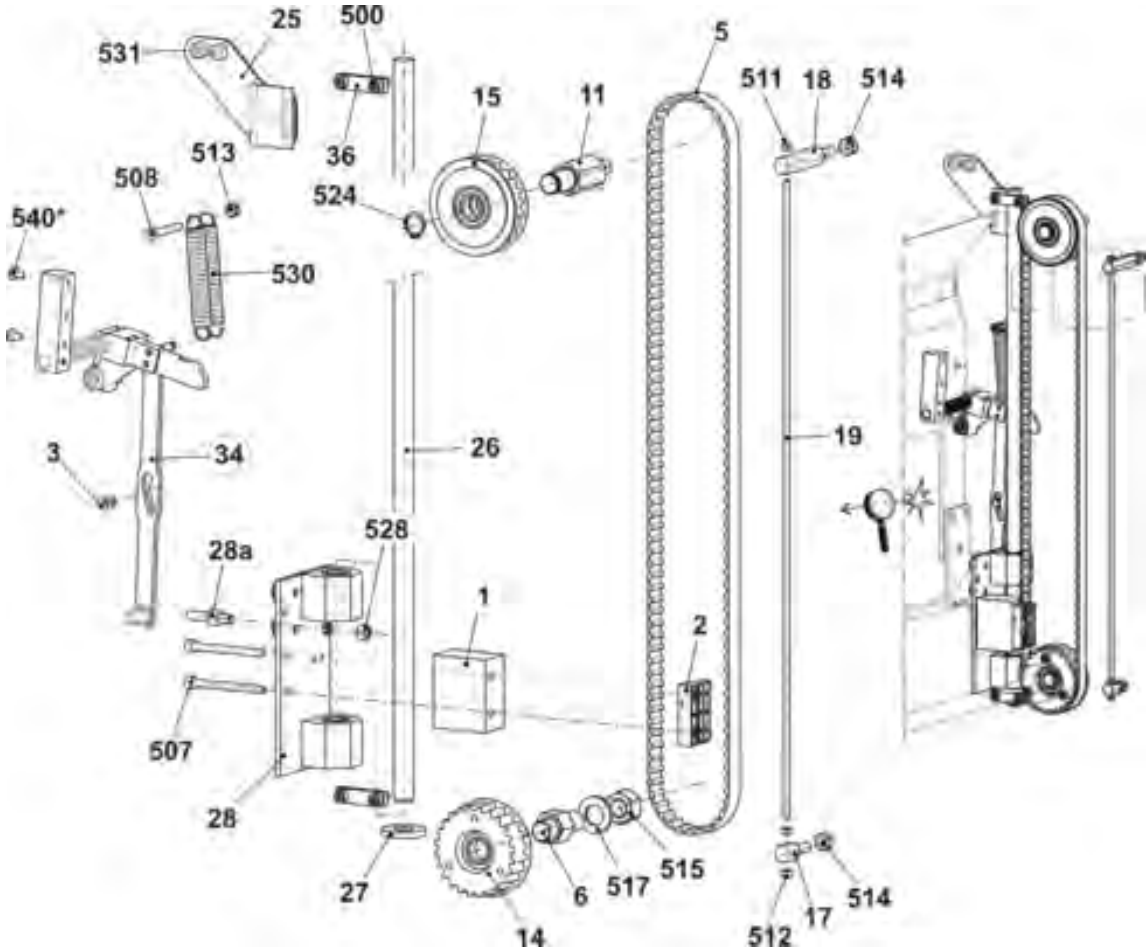
8.1 Comb take-down

Pos	Designation	ID		Pos	Designation	ID
Σ	Comb take-down			2	Comb take-down on the right	256 839
1	Comb take-down on the left	261 815		3	Comb take-down in the middleE2,5.2	255 289



8.1.1 Comb take-down on the left

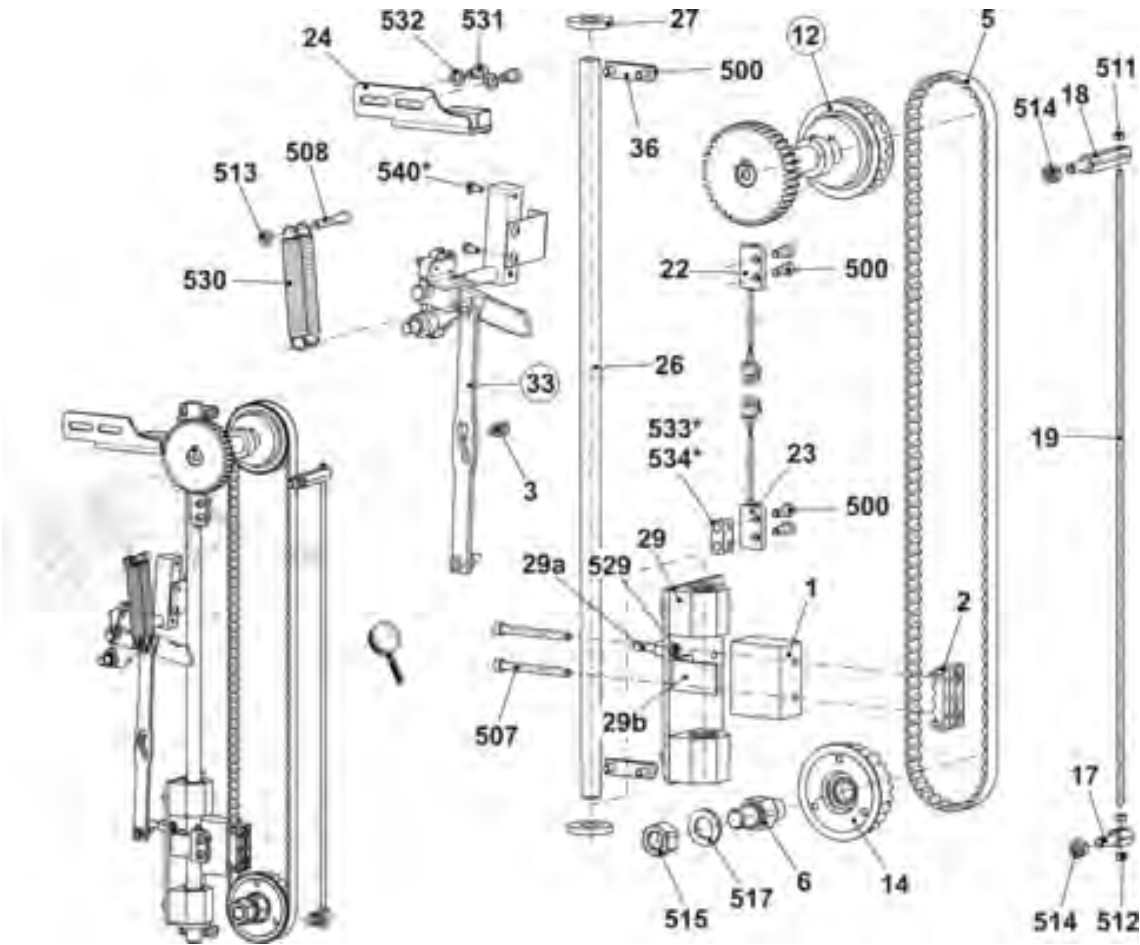
Pos	Designation		Id		Pos	Designation		Id
Σ	Comb take-down on the left		261 815					
1	Clamping piece		209 379			528	Hexagon nut M8-6	020 838
2	Pressure plate		241 967		34	Swivel lever on the left		252 859
3	Bolts		222 152		36	Clamping plate		227 159
5	Toothed belt16T10/1300		240 065		500	Cap screw M6x16		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		261 374		517	Washer16		020 876
26	Guide bar C35		206 560		524	Retaining ring17x1		023 299
27	Rubber buffer		206 561		530	Tension spring Din2097 15x1,50x70,94		251 614
28	Comb guide on the left		255 425		531	Cap screw M6x12		020 134
	28a	Driving bolt	255 427		540*	Pan-head screw M5x10		023 247



8.1 Comb take-down

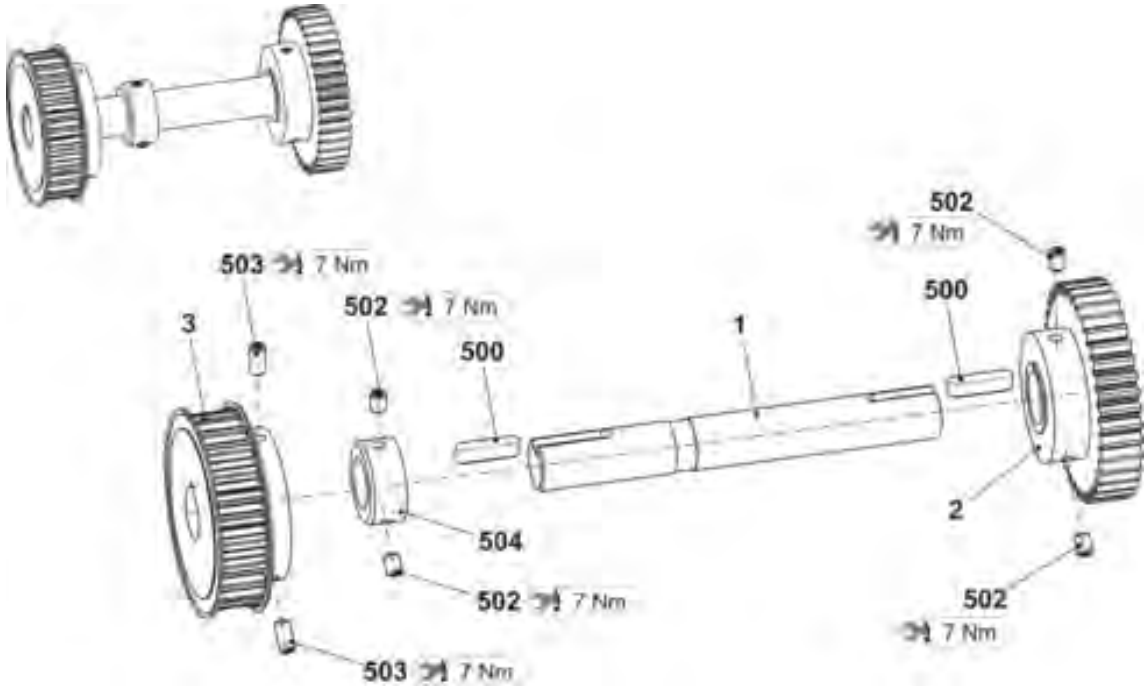
8.1.2 Comb take-down on the right

Pos	Designation	Id		Pos	Designation	Id
Σ	Comb take-down on the right	256 839				
1	Clamping piece	209 379		529	Hexagon nut M8-6	020 838
2	Pressure plate	241 967		33	Swivel lever on the right	252 858
3	Bolts	222 152		36	Clamping plate	227 159
5	Toothed belt16T10/1300	240 065		500	Cap 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	Washer16	020 876
24	Holding angle light barrier	257 409		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	Washer6	020 872
29	Comb guide on the right	255 424		533*	Shim0,2x12x27	023 735
29a	Driving bolt	255 427		534*	Shim0,5x12x27	023 736
29b	Angle	240 112		540*	Pan-head screw M5x10	023 247



8.1.2.1 Drive shaft of comb

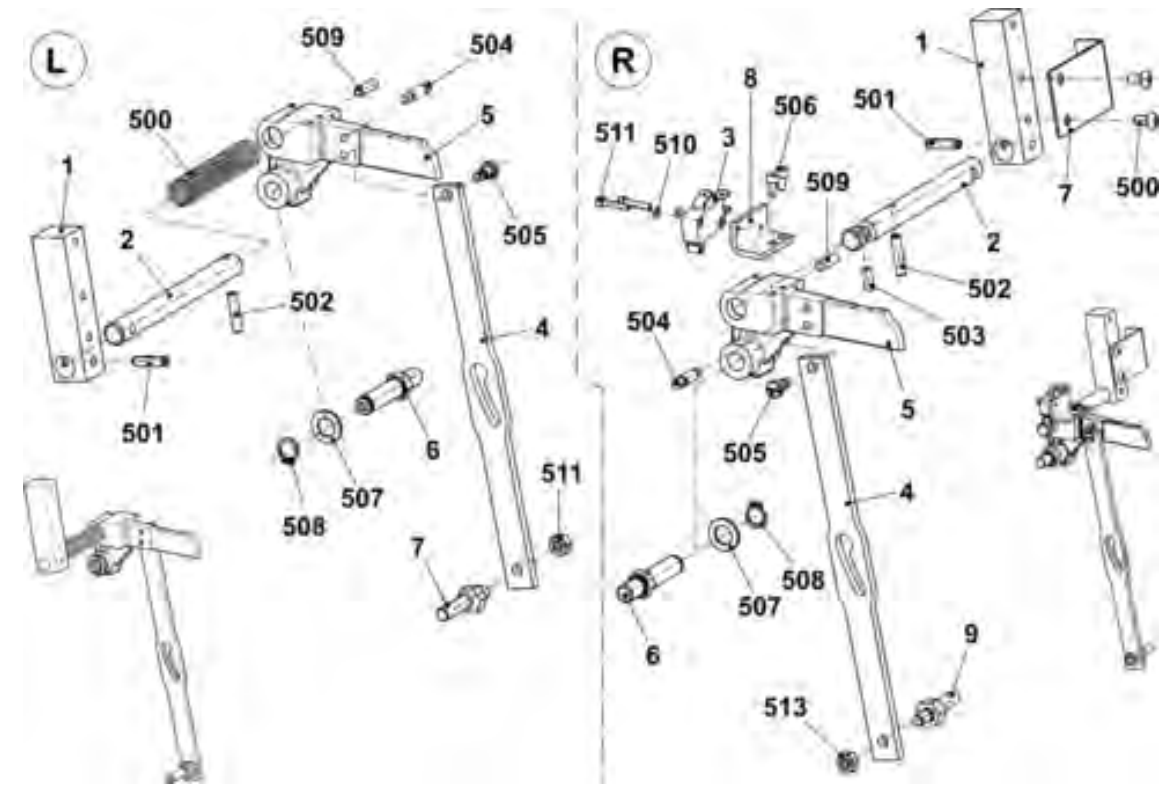
Pos	Designation	Id		Pos	Designation	Id
Σ	Drive shaft comb complete	214 583				
1	Shaft	213 969		500	Feather key A 6x6x25	023 017
2	Gear wheel Z=40, M=2	213 744		502	Setscrew M6x8	022 684
	Always order position 502 additionally			503	Setscrew M6x12	023 898
3	Toothed belt pulley at the top	206 394		504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



8.1 Comb take-down

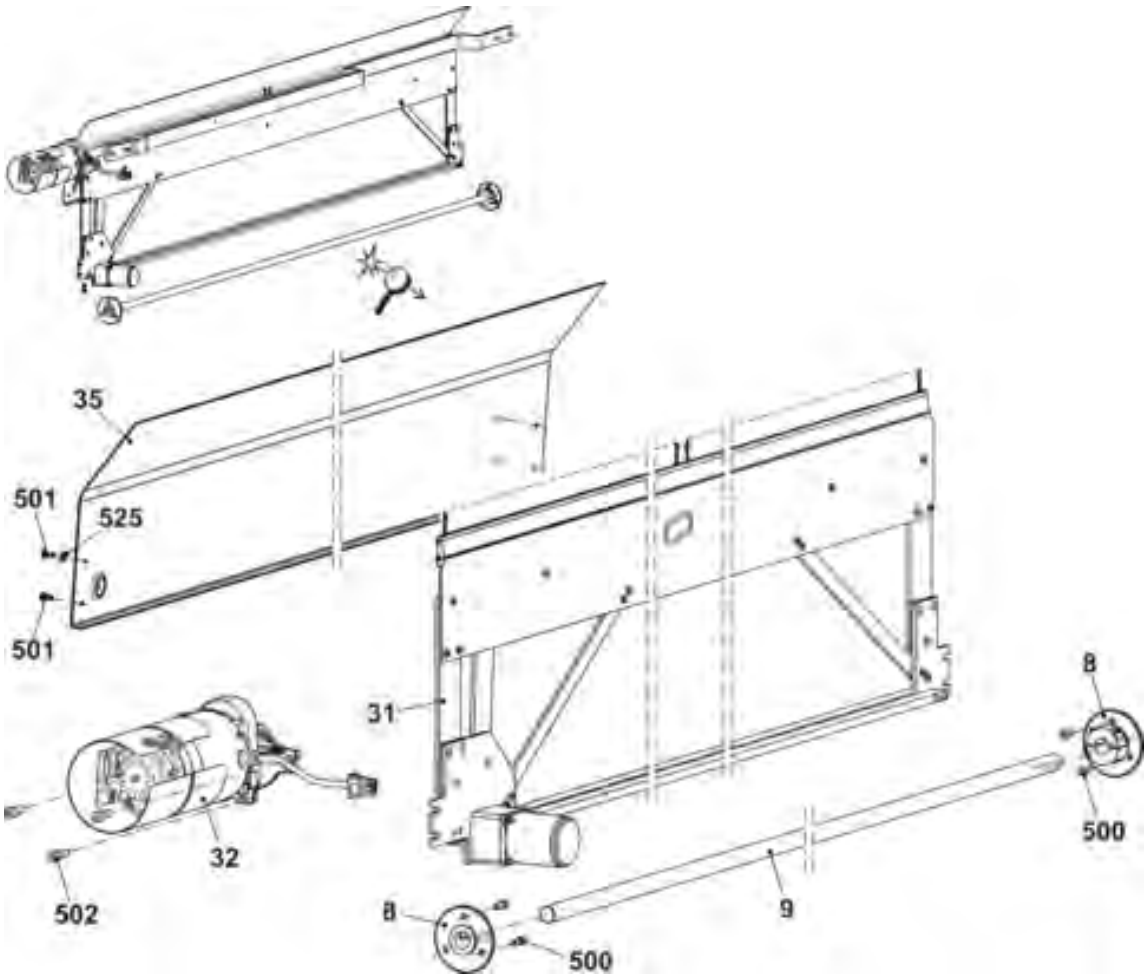
8.1.2.2 Swivel lever comb take-down

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



8.1.3 Comb take-down in the middle

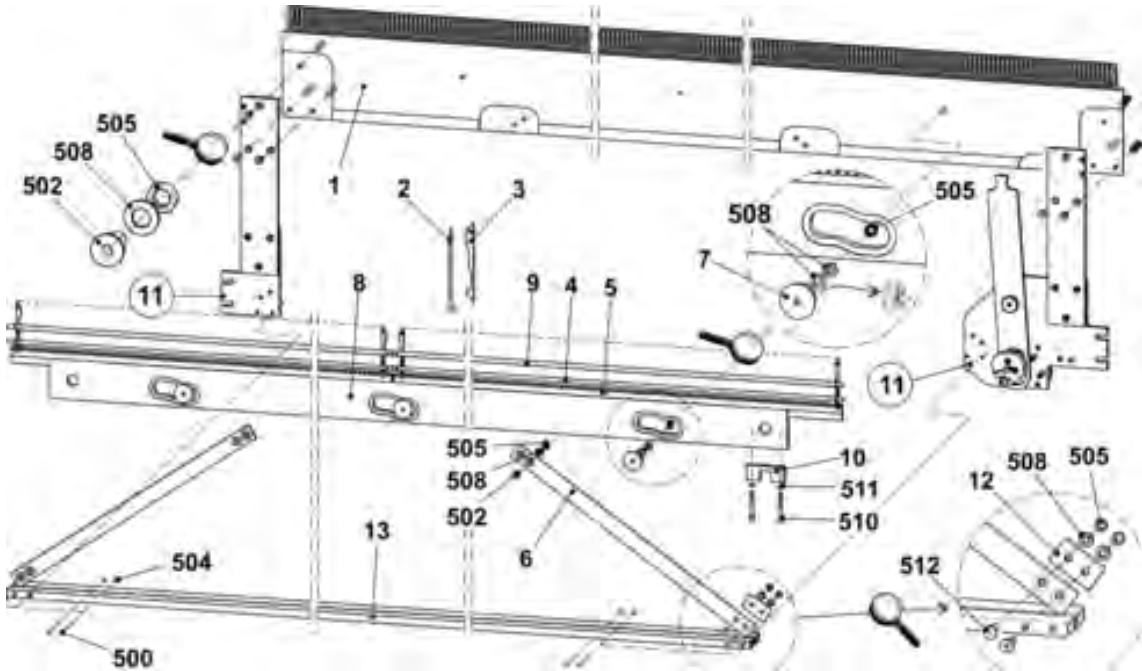
Pos	Designation	ID		Pos	Designation	ID
Σ	Comb take-down in the middle E2,5.2	255 289			Comb unit E2,5.2	244 329
8	Flange	207 695		32	Motor take-down unit complete	253 803
9	Shaft long	236 875		35	Marking plate open	252 830
500	Cap screw M6x16	020 135		502	Cap screw M8x25	020 142
501	Pan-head screw M5x10	023 247		525	Serrated lock washer J5,3	022 489



8.1 Comb take-down

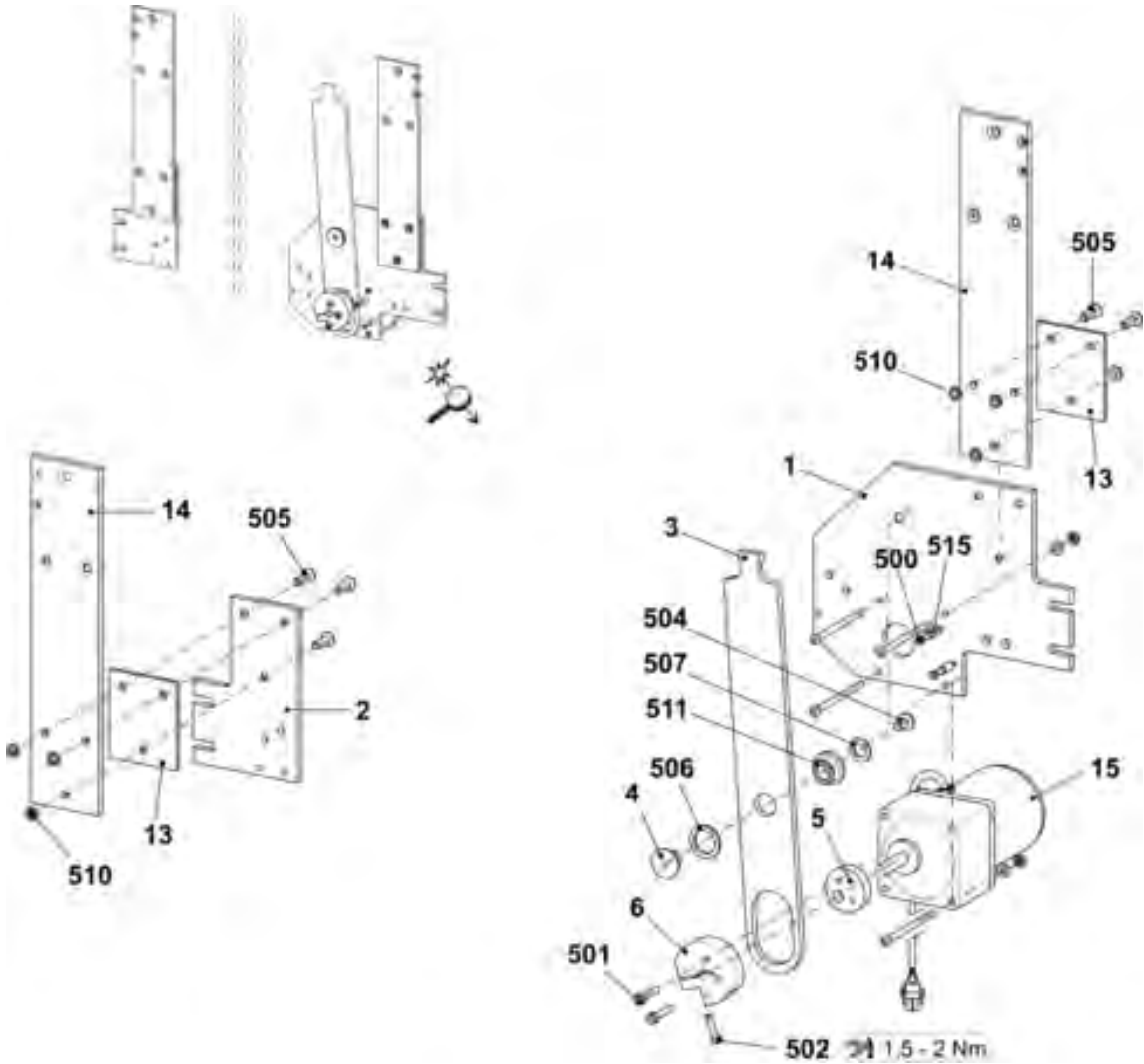
8.1.3.1 Comb unit

Pos	Designation	ID		Pos	Designation	ID
Σ	Comb unitE2,5.2	244 329		11	Switching lever complete	240 060
1	Hook bedE5	237 468		12	Intermediate plate	218 742
2	CloserE3-8	230 105		13	Stabilizer	237 056
3	BodyE2,5.2	230 093		500	Cap screw M4x50	023 102
4	Cover rail	237 065		502	Countersunk head screw M5x12	023 340
5	Hook sliderE5	237 463		504	Hexagon nut M4-8	023 046
6	Strut	218 740		505	Hexagon nut M5-04	020 854
7	Collar bolt complete	211 036		508	Washer5-200	020 871
8	Cross slider	237 069		510	Cap screw M4x30	023 290
9	Cover rail	237 074		511	Circlip	022 774
10	Plunger	205 678		512	Countersunk screw M5x16	023 417



8.1.3.1.1 Switching lever comb take-down

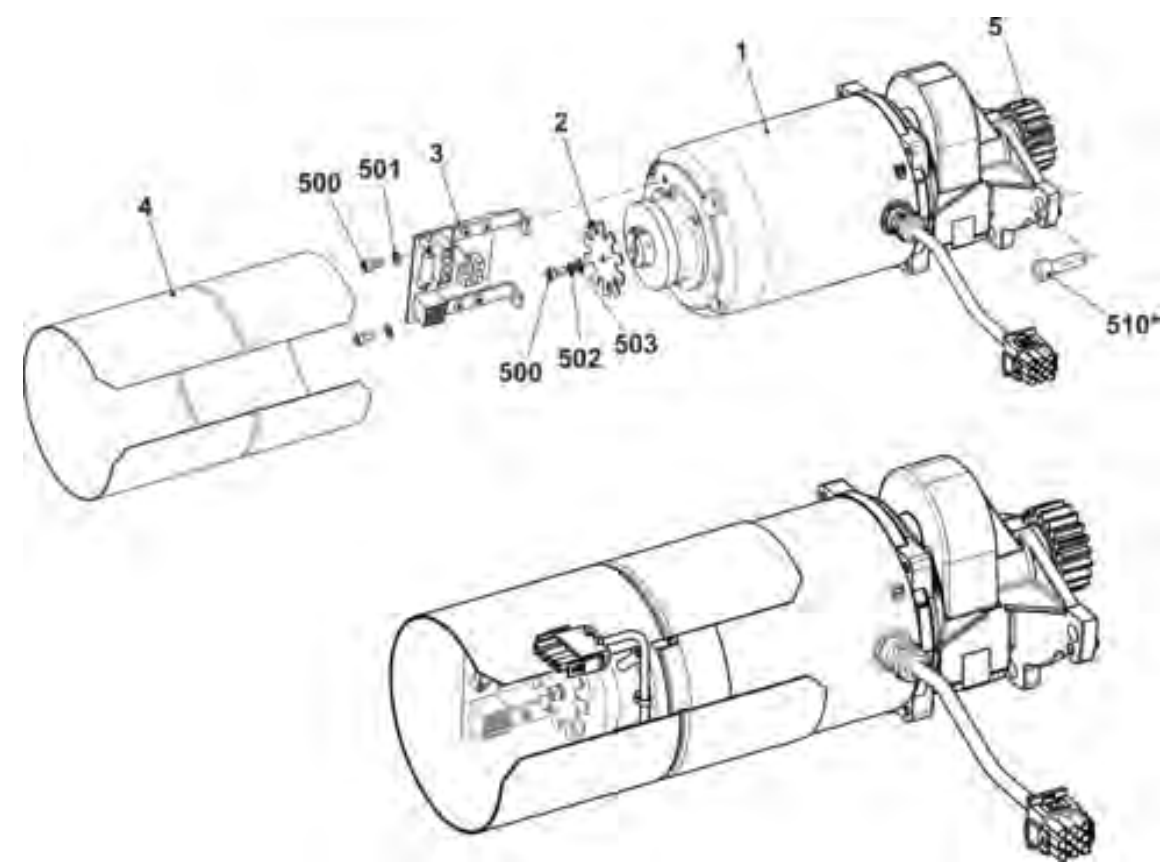
Pos	Designation	ID		Pos	Designation	ID
Σ	Switching lever complete	240 060		500	Cap screwM3x25	023 093
1	Screw-on plate on the right	240 058		501	Cap screwM4x20	023 171
2	Screw-on plate on the left	240 059		502	Cap screwM4x16	023 123
3	Lever	215 228		504	Pan-head screw M6x12	023 435
4	Bearing bolt	215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



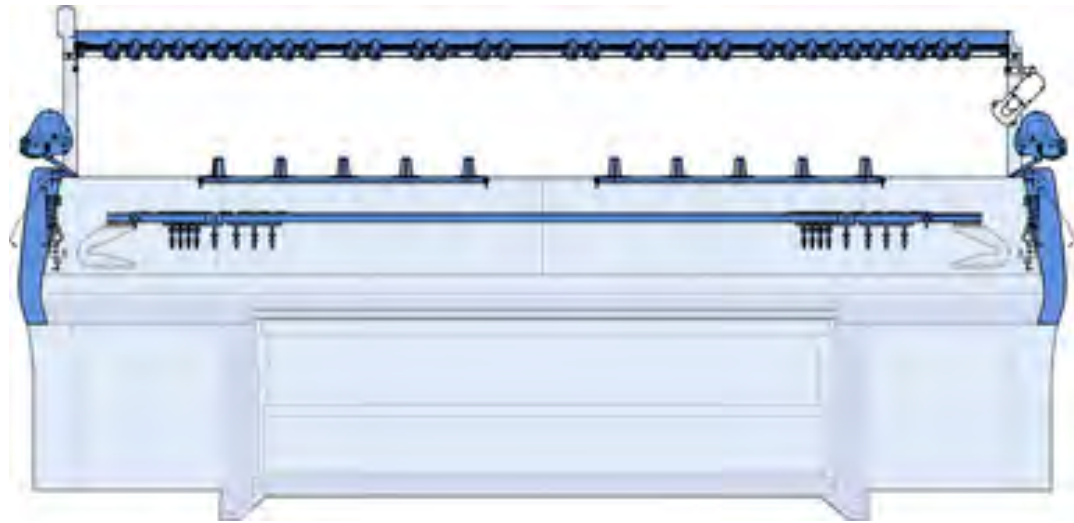
8.1 Comb take-down

8.1.3.2 Impulse sensor and motor

Pos	Designation	ID		Pos	Designation	ID
Σ	Motor take-down unit complete	253 803				
1	Asynchronous torque motor (complete)	257 438		500	Cap screw M4x8	022 501
2	Impulse disc	208 716		501	Washer4-200	020 879
3	Light barrier take-down + comb	300 744		502	Circlip	022 774
4	Cover	212 262		503	Shim ring 4x8x1	023 369
5	Gear wheel	241 668		510*	Cap screw M8x25	020 142



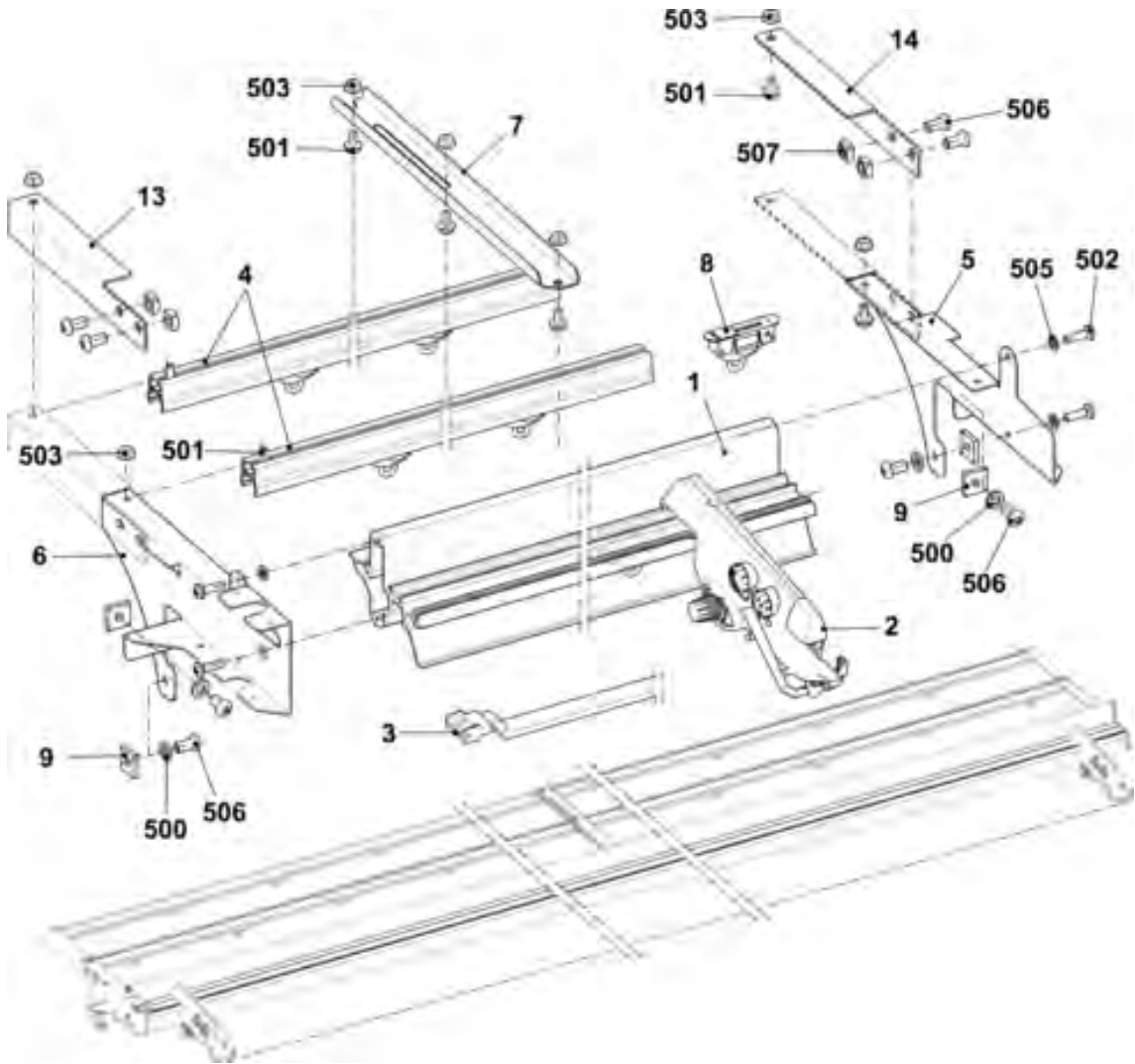
9 Yarn delivery device



9.1 Yarn guide system with 32 FKE

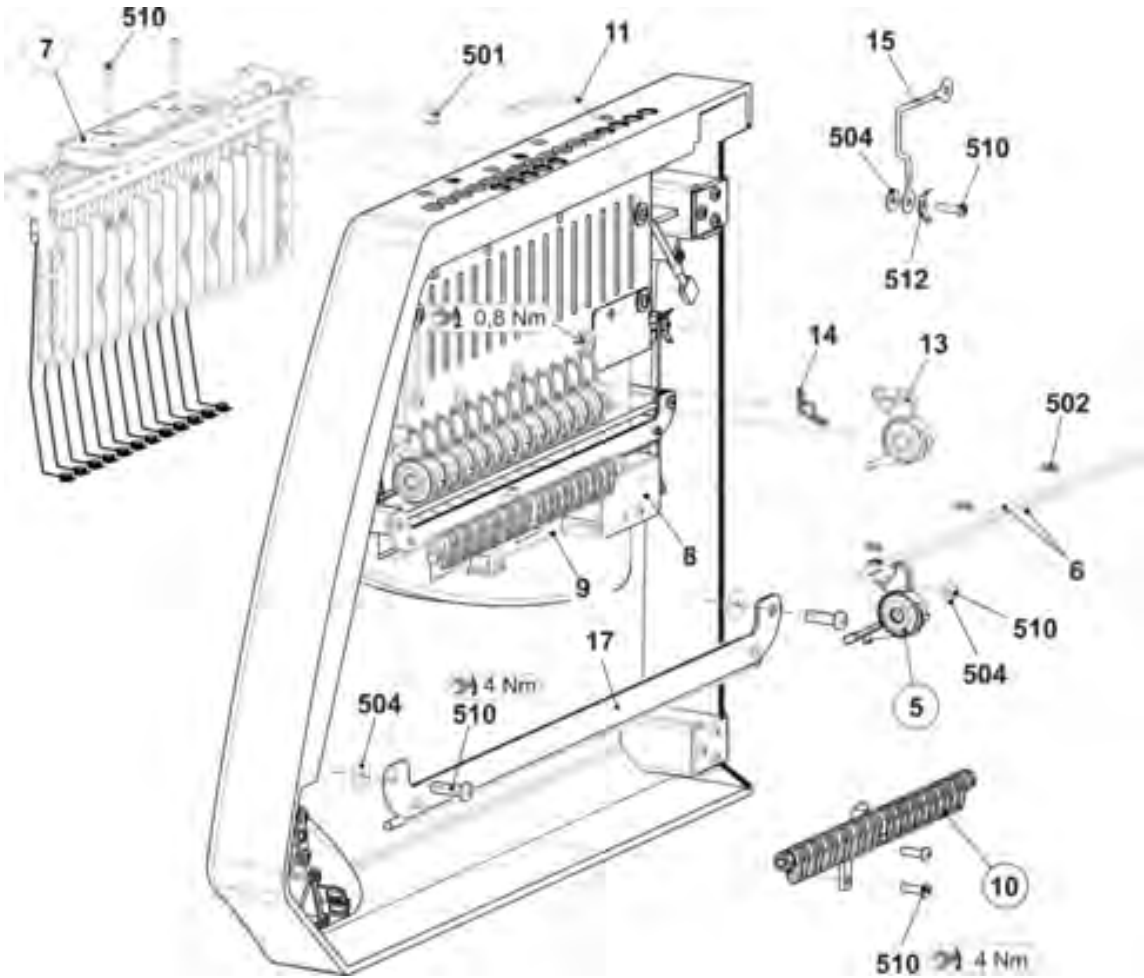
9.1 Yarn guide system with 32 FKE

Pos	Designation	ID	Pos	Designation	ID
Σ	Yarn guide system 32 FKE 84"	242 991			
1	Support	243 112	13	Support on the left	243 602
2	Yarn control device(FKE)	237 124	14	Support on the right	243 603
3	Connection cable FKE-3 84"	240 349	500	Serrated lock washer	023 388
4	Yarn guide bar	236 932	501	Self-locking screw M6x12	023 415
5	Support on the right	243 601	502	Screw M6x20	023 721
6	Support on the left	243 600	503	Serrated nut M6-10	023 414
7	Support	239 295	505	Washer6	022 431
8	Yarn guide bracket complete	241 581	506	Pan-head screwM8x16	023 113
9	Slot nut	228 851	507	Square nut M8	023 269



9.2 Left yarn guide

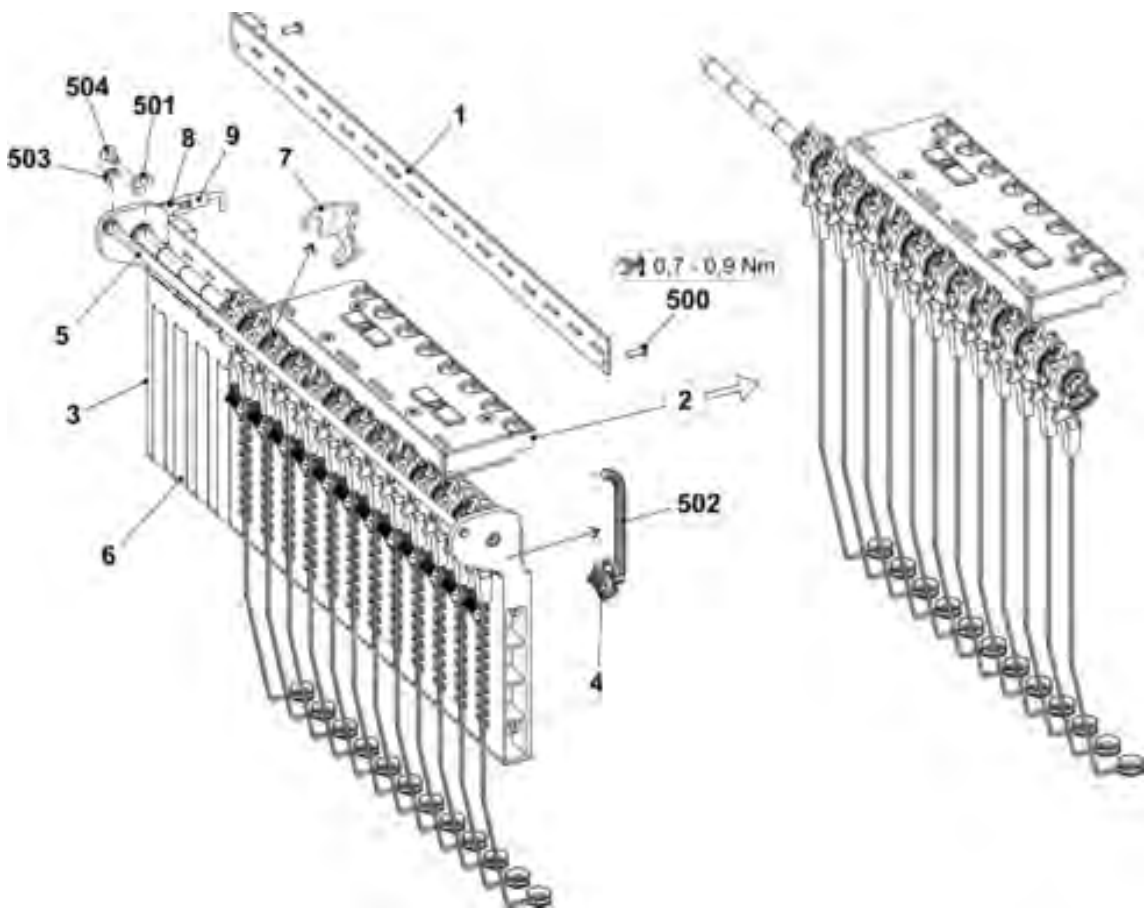
Pos	Designation	ID	Pos	Designation	ID
Σ	Safety door on the left complete E3-4	262 430			
5	Yarn brake completeE3-4	262 429	14	Clamping bow	244 409
6	Wave	241 318	15	Ground cable	244 404
7	Yarn tensioner on the left complete E3-5	241 363	17	Stop bar on the left complete	258 454
8	Cover	240 783	501	Ceramic eyelet	240 640
9	Wire bow on the leftE3-4	262 435	502	Compression spring 0,90x5,40x13,60	241 360
10	Yarn deflector completeE3-4	262 437	504	Washer6	022 537
11	Connection cable yarn tensionerokc	240 808	510	Screw KB 60x20	237 682
13	Yarn brake not adjustable	244 356	512	Flat connector 2x45° M6	243 117



9.2 Left yarn guide

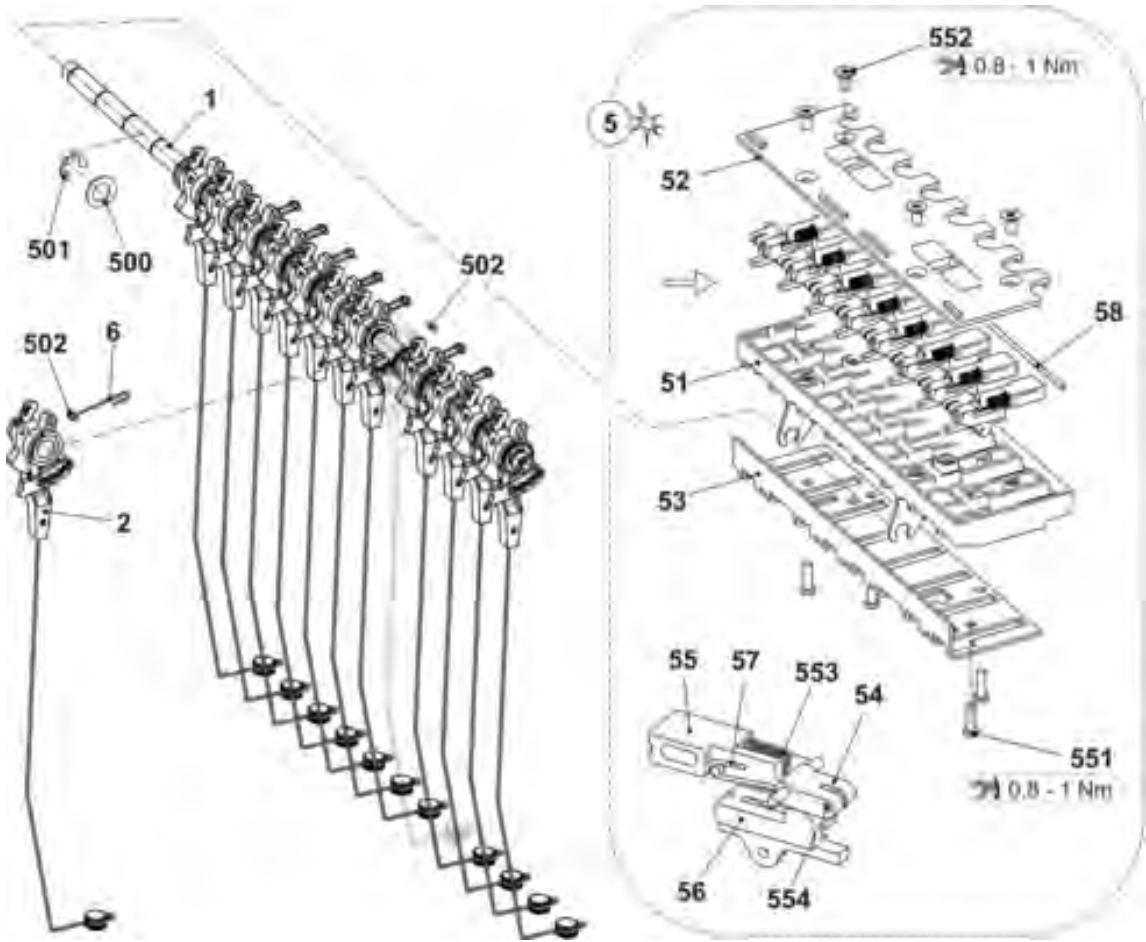
9.2.1 Left yarn tensioner

Pos	Designation	ID		Pos	Designation	ID
Σ	Yarn tensioner on the left completeE3-5	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

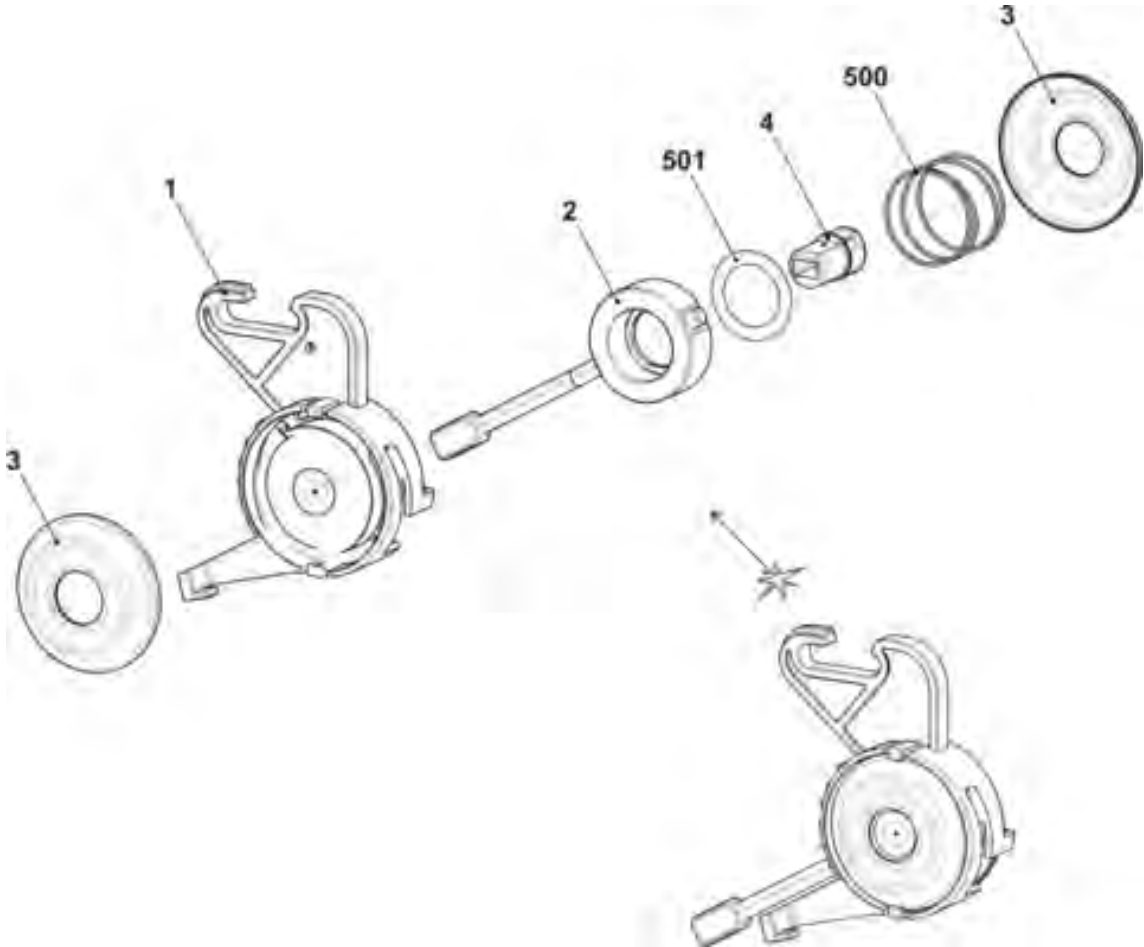
Pos	Designation	ID		Pos	Designation	ID
Σ	Tension axle on the left complete E3-8	241 366		53	Sheet metal at the bottom (housing AKF)	240 719
1	Axle	243 107		54	Lever AKF	238 692
2	Tension arm pre-assembled E3-8	259 448		55	Pressure piece AKF	238 690
6	Wire bow	238 694		56	Slider AKF	238 691
500	Shim ring 8x14x0,5	023 501		57	Wire bow	238 694
501	Circlip	021 022		58	Wire	237 940
502	Grooved pin 2x6	243 172		551	Screw KB 35x12	237 681
5	Thread clamp AKF	238 695		552	Screw KB 40x8	236 227
51	Housing AKF	238 689		553	Compression spring 0,30x4,50x18,50	241 437
52	Cover AKF	237 926		554	Grooved pin 2x6	243 172



9.2 Left yarn guide

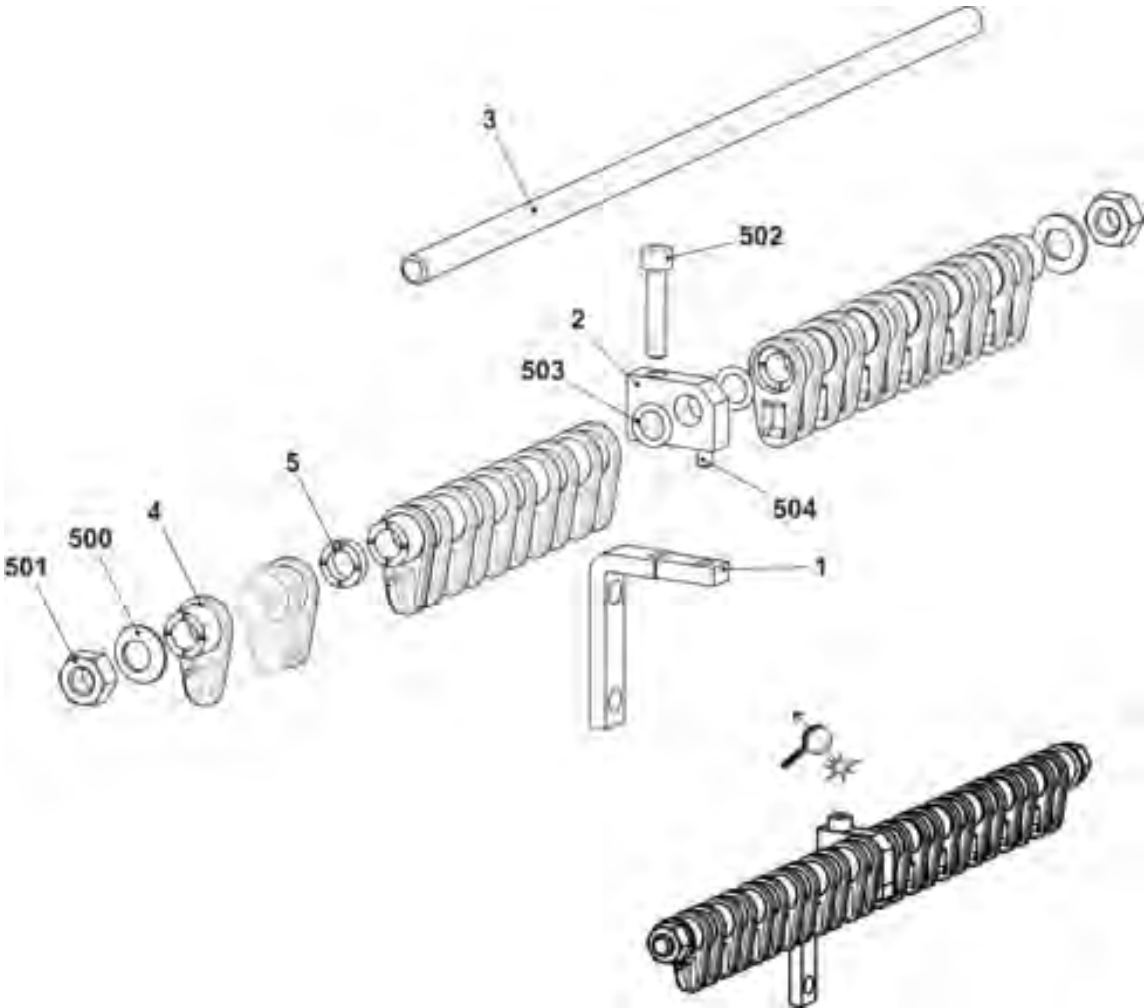
9.2.3 Yarn brake

Pos	Designation	ID		Pos	Designation	ID
Σ	Yarn brake complete E3-4	262 429				
1	Support	240 607		4	Ceramic eyelet open	262 271
2	Slider	240 606		500	Compression spring 0,65x20,15x14,80	241 361
3	Brake disk	244 355		501	O-ring 11x2	241 434



9.2.4 Yarn deflector

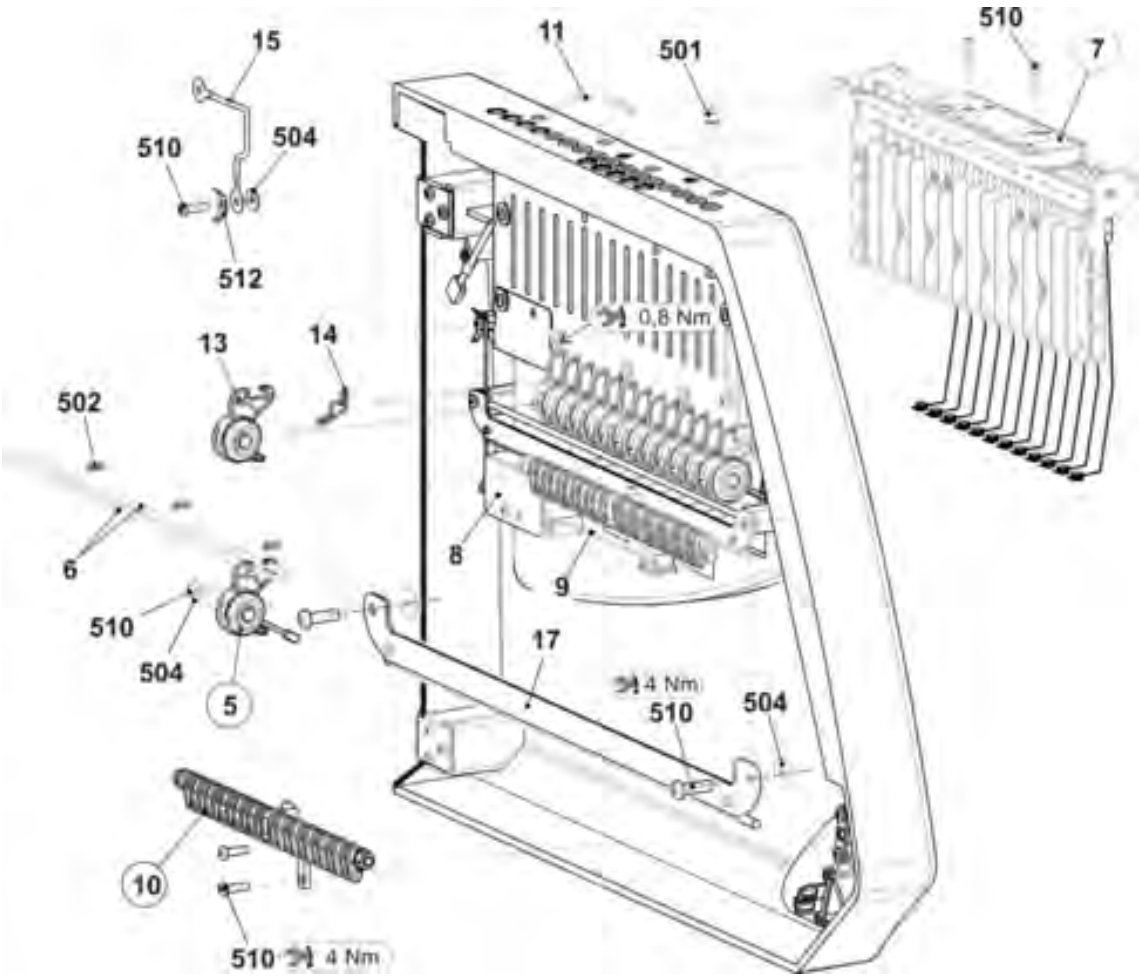
Pos	Designation	ID		Pos	Designation	ID
Σ	Yarn deflector completeE3-4	262 437				
1	AngleE3-4	262 439		500	Washer 8	022 854
2	Fastening piece E3-4	262 440		501	Hexagon nut M8-6	020 838
3	AxleE3-4	262 441		502	Cap screw M5x25	023 523
4	Yarn carrier MH10 E3-4	262 391		503	O-ring 8x2	262 438
5	Distance bushingE3-4	262 445		504	Dowel pin10-A	023 753



9.3 Right yarn guide

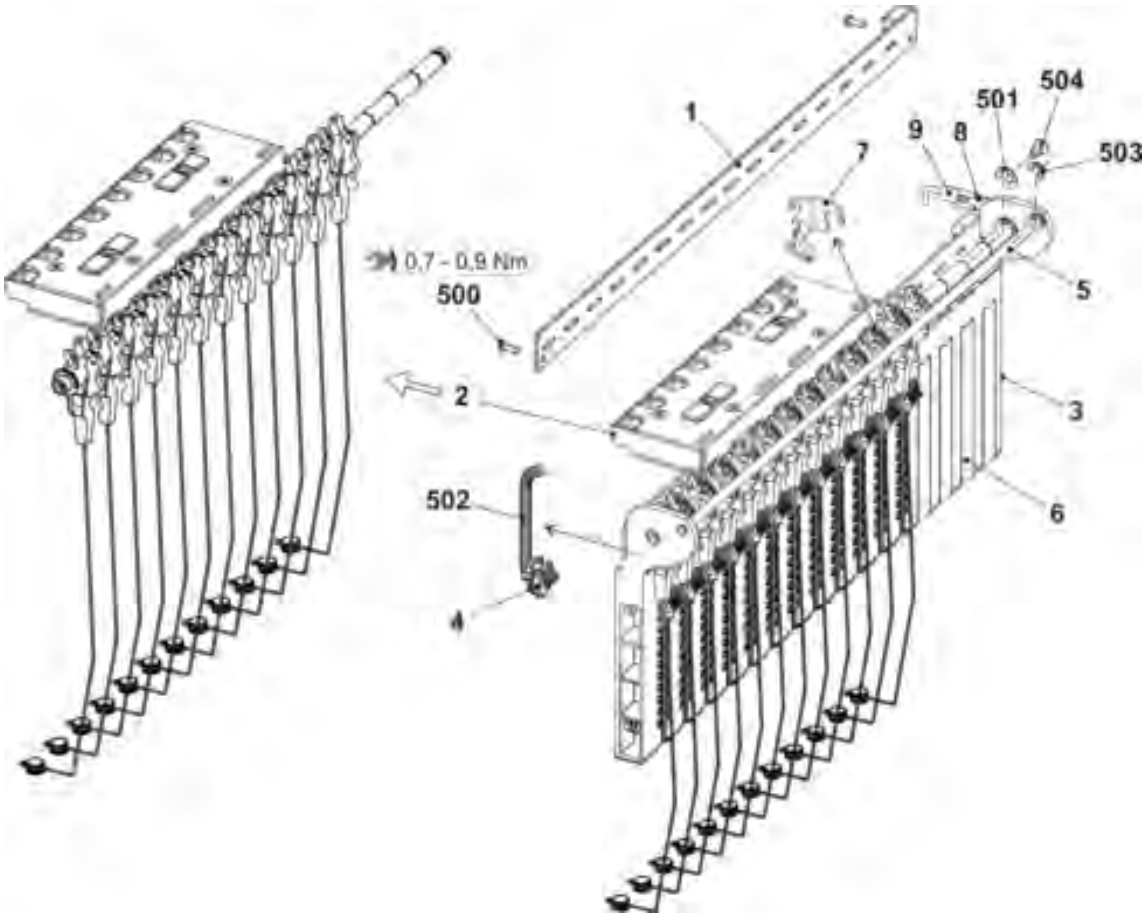
9.3 Right yarn guide

Pos	Designation	ID	Pos	Designation	ID
Σ	Safety door on the right complete E3-4	262 431			
5	Yarn brake completeE3-4	262 429	14	Clamping bow	244 409
6	Wave	241 318	15	Ground cable	244 404
7	Yarn tensioner on the right complete E3-5	241 382	17	Stop bar on the right complete	258 562
8	Cover	240 783	501	Ceramic eyelet	240 640
9	Wire bow on the rightE3-4	262 436	502	Compression spring 0,90x5,40x13,60	241 360
10	Yarn deflector completeE3-4	262 437	504	Washer6	022 537
11	Connection cable yarn tensionerokc	240 808	510	Screw KB 60x20	237 682
13	Yarn brake not adjustable	244 356	512	Flat connector 2x45° M6	243 117



9.3.1 Right yarn tensioner

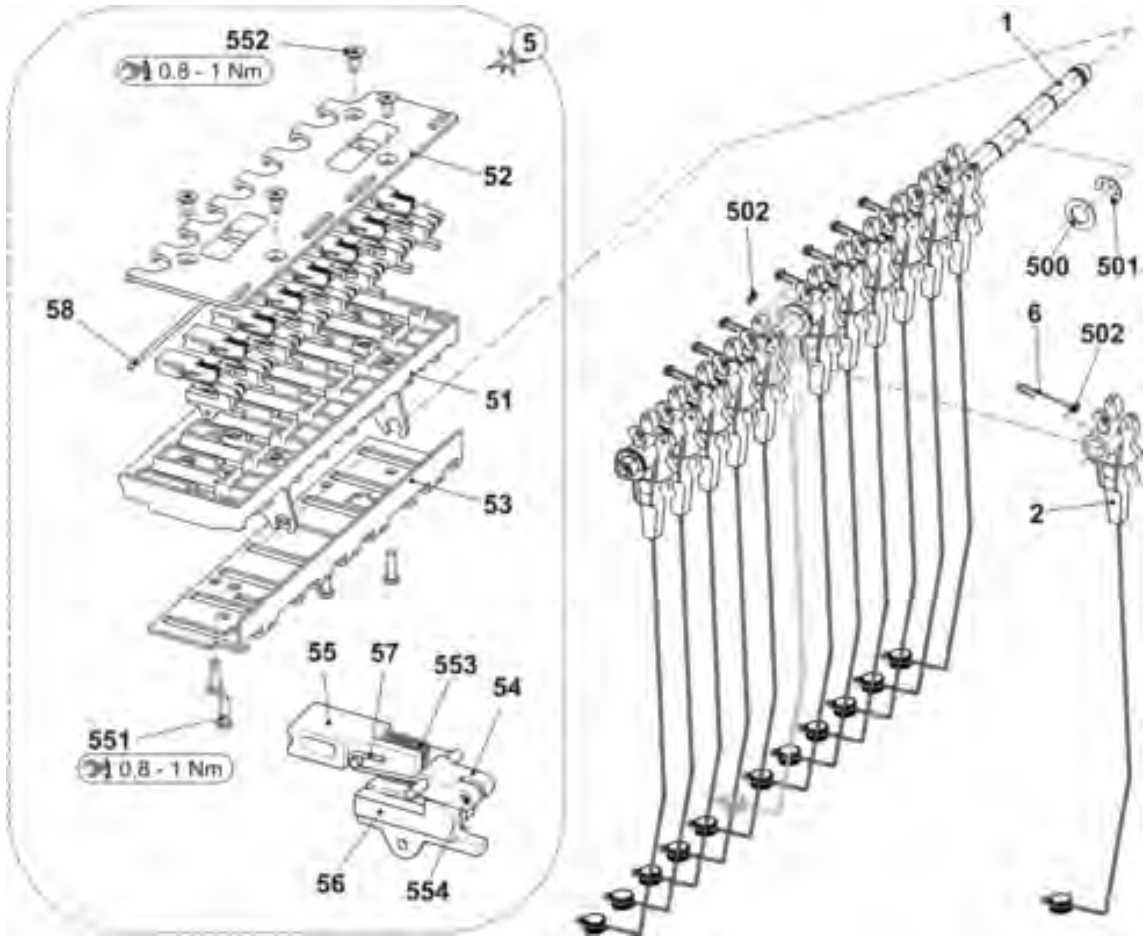
Pos	Designation	ID		Pos	Designation	ID
Σ	Yarn tensioner on the right complete E3-5	241 382				
1	Card yarn tensioner 16-fold on the right	241 346		8	Grounding plate of tension axle	243 121
2	Tension axle on the right completeE3-8	241 379		9	Ground cable yarn tensioner okc	243 105
3	Housing	241 367		500	Screw KB 30x8	236 228
4	Slider	241 694		501	Circlip	021 022
5	Stop point	241 368		502	Tension spring 5,05x0,55x53 E3-5	023 502
6	Border	242 268		503	Circlip	021 020
7	Spacer	242 048		504	Countersunk screw M4x10	241 914



9.3 Right yarn guide

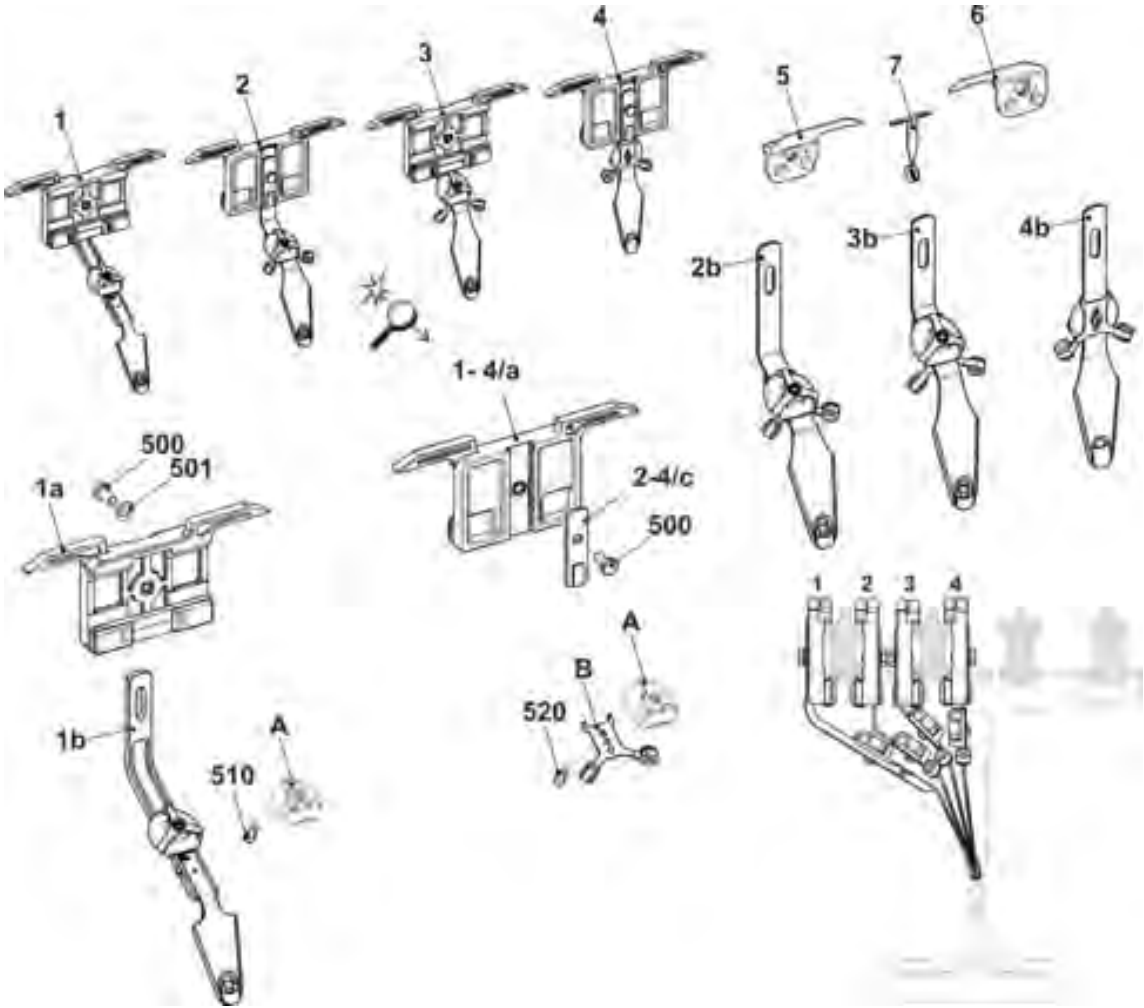
9.3.2 Right tension axle

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



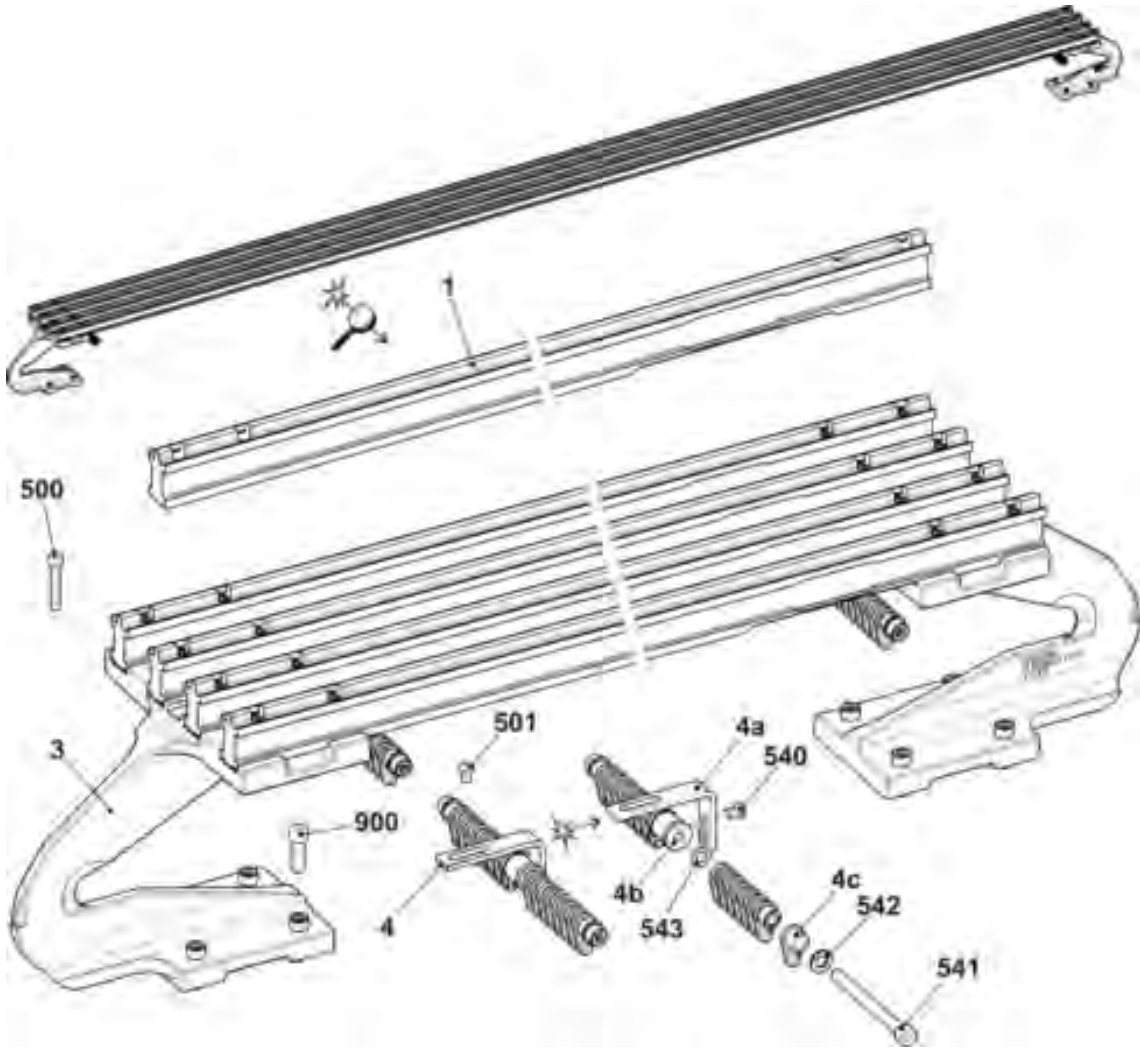
9.4 Carriage of yarn carrier

Pos	Designation	ID		Pos	Designation	ID
Σ	Yarn guide complete	262 423		1-4/a	FF carriage complete	241 887
1	FF carriage 1+8 complete E3-4m.3L	217 486		1b	FF bow 1+8 complete E3-4	216 266
2	FF carriage 2+7 complete E3-4m.3L	262 386		2b	FF bow 2+7 complete E3-4m.3L	262 383
3	FF carriage 3+6 complete E3-4m.3L	262 387		3b	FF bow 3+6 complete E3-4m.3L	262 384
4	FF carriage 4+5 complete E3-4m.3L	262 388		4b	FF bow 4+5 complete E3-4m.3L	262 385
5	Limiter on the left	244 099		2-4/c	Shim	213 035
6	Limiter on the right	244 098		A	Yarn guide star	202 146
7	Slider with eyelet	230 709		B	Yarn guide star complete	262 036
500	Hexagon screw M5x10	020 351		510	Pan-head screw M3x12	023 033
501	Washer 8	259 666		520	Pan-head screw M3x10	023 032



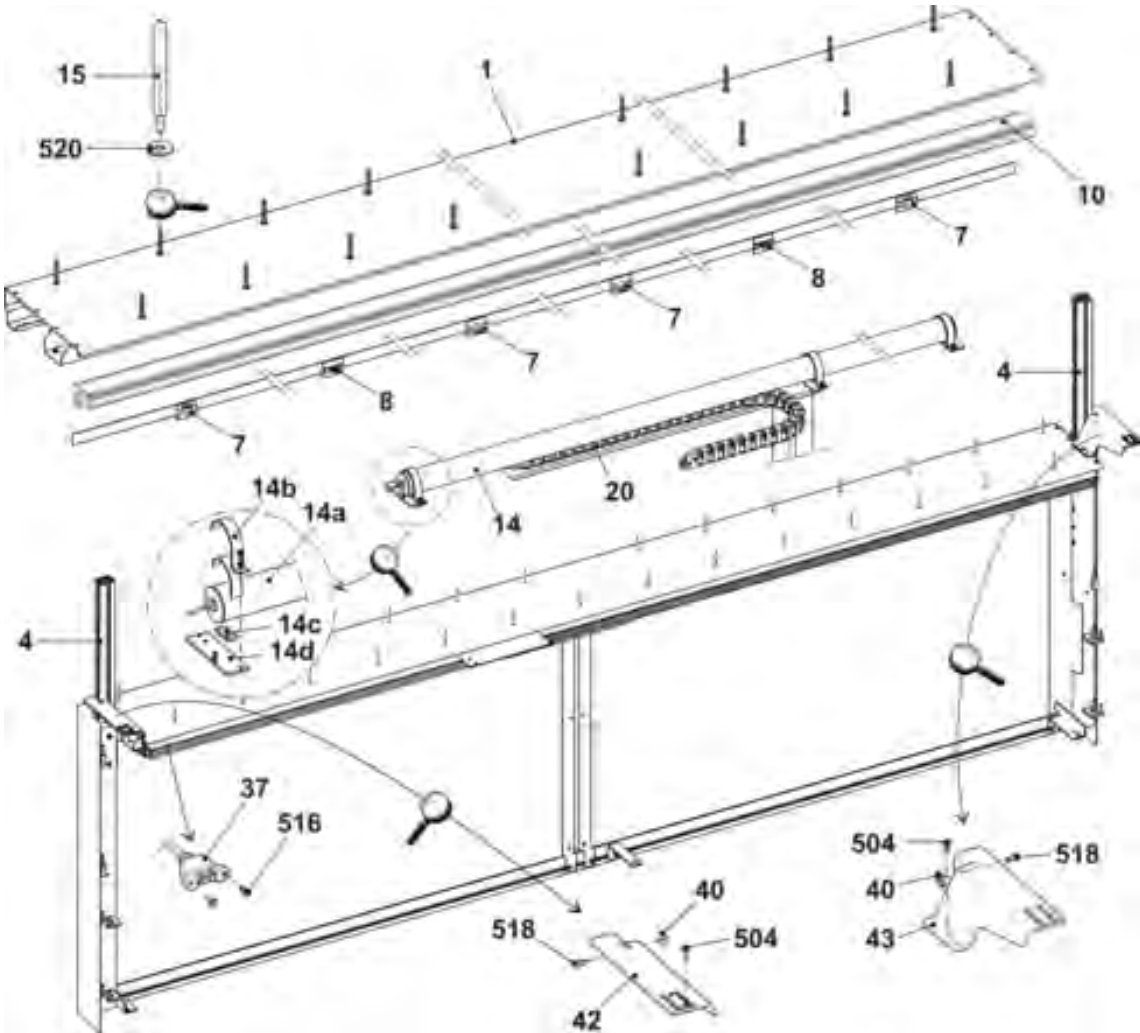
9.5 Bar unit

Pos	Designation		ID	Pos	Designation		ID
Σ	Bar unit		262 467	540	Pan-head screw M6x10		023 183
1	Yarn carrier rail		255 467	541	Cap screw M8x90		022 698
3	FF support		253 674	542	Washer8		023 183
4	Yarn deflector complete		262 465	543	O-ring 8x3		022 858
	4a	Holding angle	262 463	500	Cap screw M6x35		020 139
	4b	Bolts	262 462	501	Pan-head screw M6x10		023 183
	4c	Yarn carrier MH 10	262 391	900	Cap screw M8x25		020 142



9.6 Bobbin board

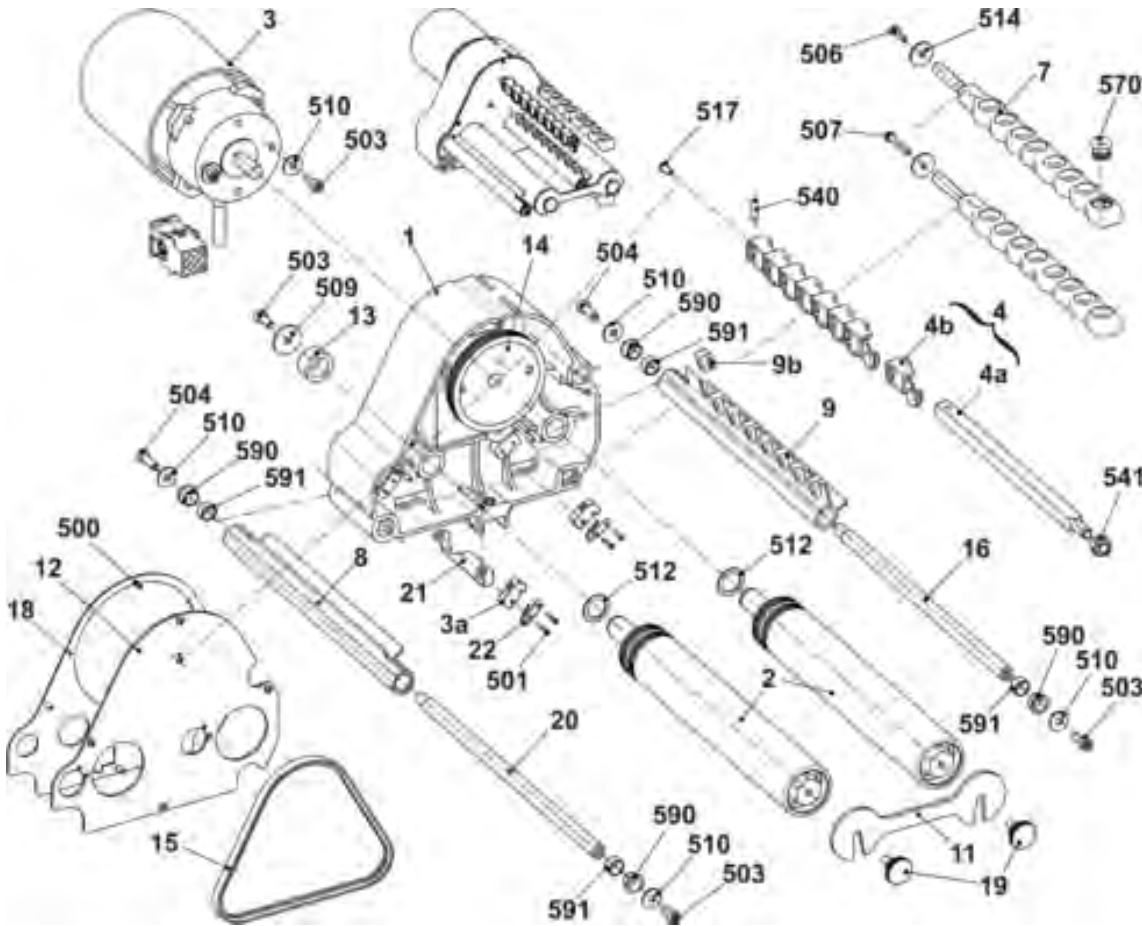
Pos	Designation		ID		Pos	Designation		ID
Σ	Table complete 84" (E3)		240 681					
1	Table		251 246		15	Positioning pin		204 819
4	Support element		228 594		20	Energy chain display 38 links		253 888
7	Magnet switch safety door		219 983		37	Cable USB extension84 okc		243 070
8	Magnet switch safety door		220 159		40	Slot nut		228 851
10	Guide rail at the top complete		240 684		42	Support of left feed wheel		250 966
14	Lamp at the top complete		236 693		43	Support of right feed wheel		250 967
	14a	Long light RL60V - 230 V	212 580		504	Pan-head screw M8x16		023 113
	14b	Clamping bow	209 504		516	Pan-head screw M3x8		023 251
	14c	Cellular caoutchouc 40x20	208 018		518	Pan-head screw M8x18		251 331
	14d	Lamp support	221 951		520	Washer		020 901



9.7 Left friction feed wheel

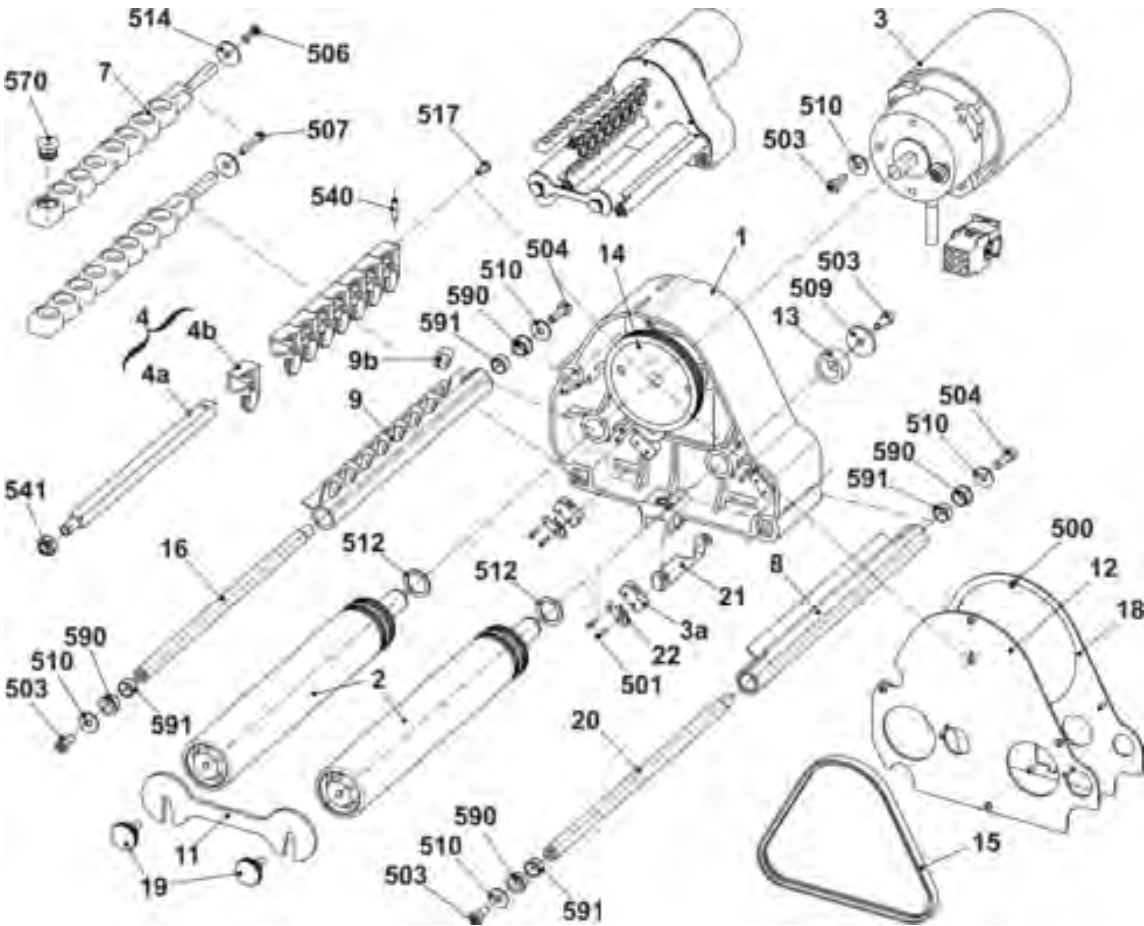
9.7 Left friction feed wheel

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



9.8 Right friction feed wheel

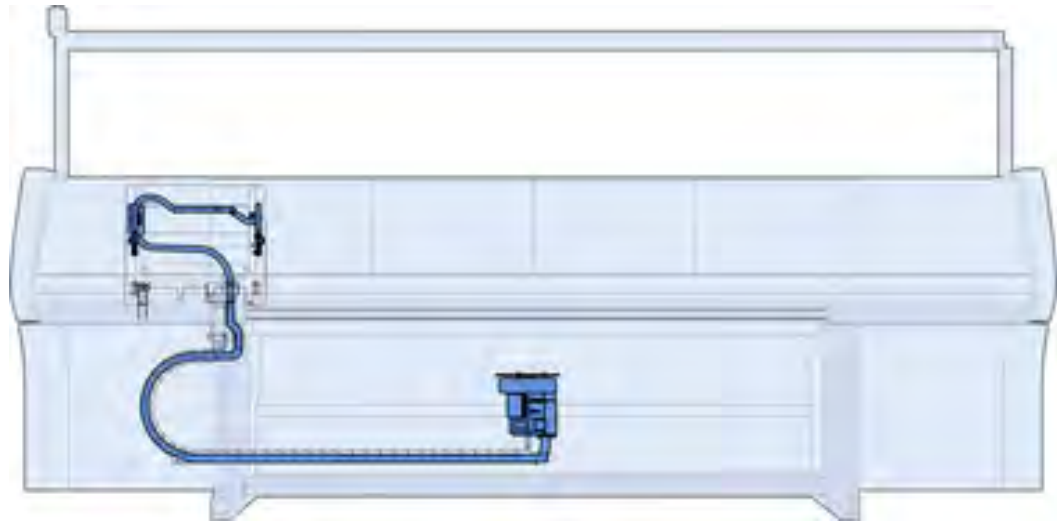
Pos	Designation		Id	Pos	Designation		Id
Σ	Friction feed wheel on the right complete		243 572	14	V-ribbed belt pulley		221 268
1	Housing		240 368	15	Ribbed V-belt V3J 406		206 927
2	Friction roller complete		231 704	16	Rod		221 319
3	Three-phase AC motor complete		219 800	18	Cover		230 758
	3a	Microswitch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



9.8 Right friction feed wheel

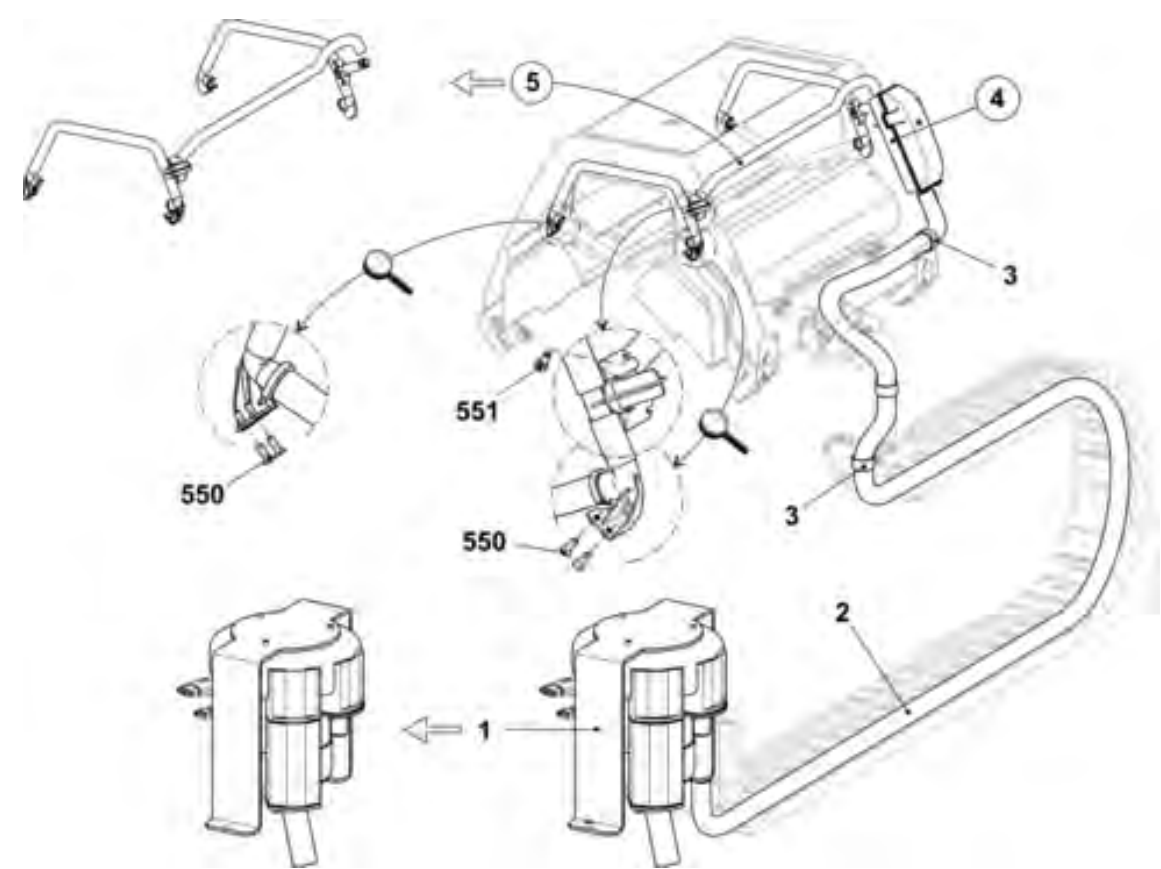
Notes:

10 Fluff absorption



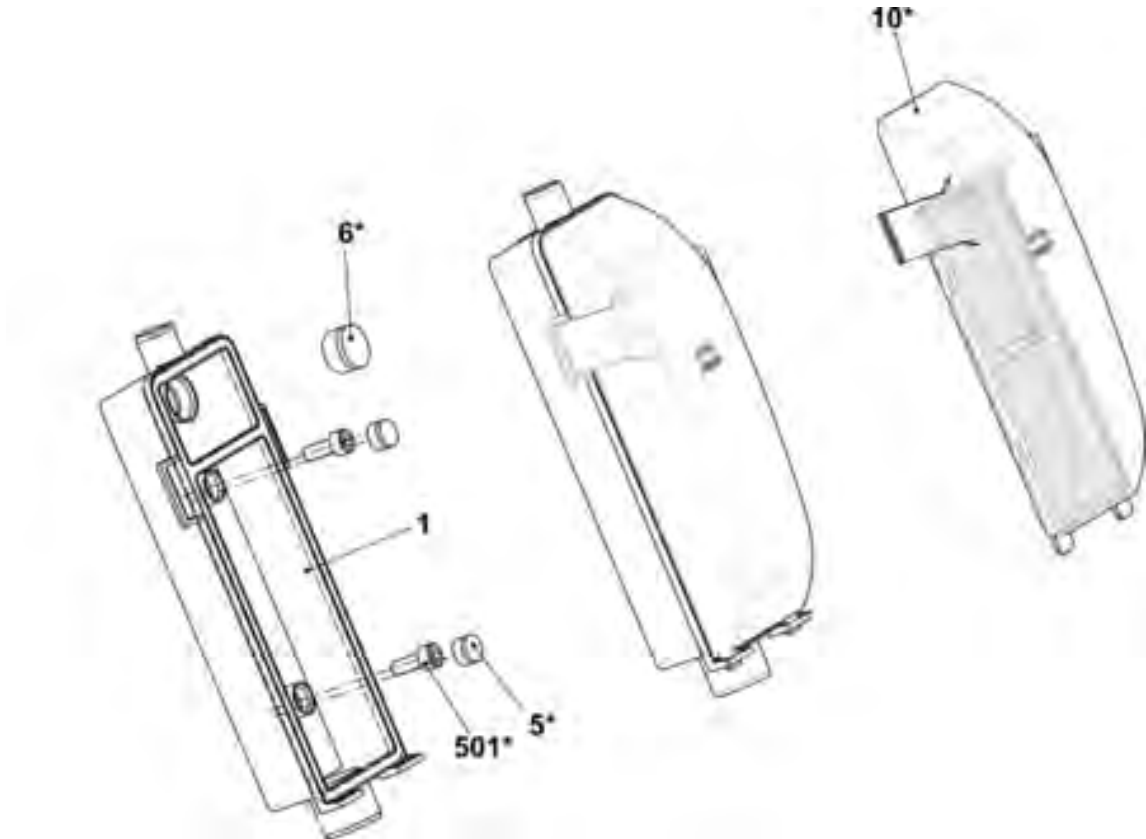
10.1 Fluff absorption

Pos	Designation	ID		Pos	Designation	ID
Σ	Fluff absorption			4	Lint container	245 024
1	Suction fan complete	251 332		5	Set of hose complete 730/830C	251 341
2	Suction hose 29x25x3750	251 336		550	Countersunk head screw M4x8	251 011
3	Hose clip	214 653		551	Cap screw M4x8	022 501



10.2 Lint container

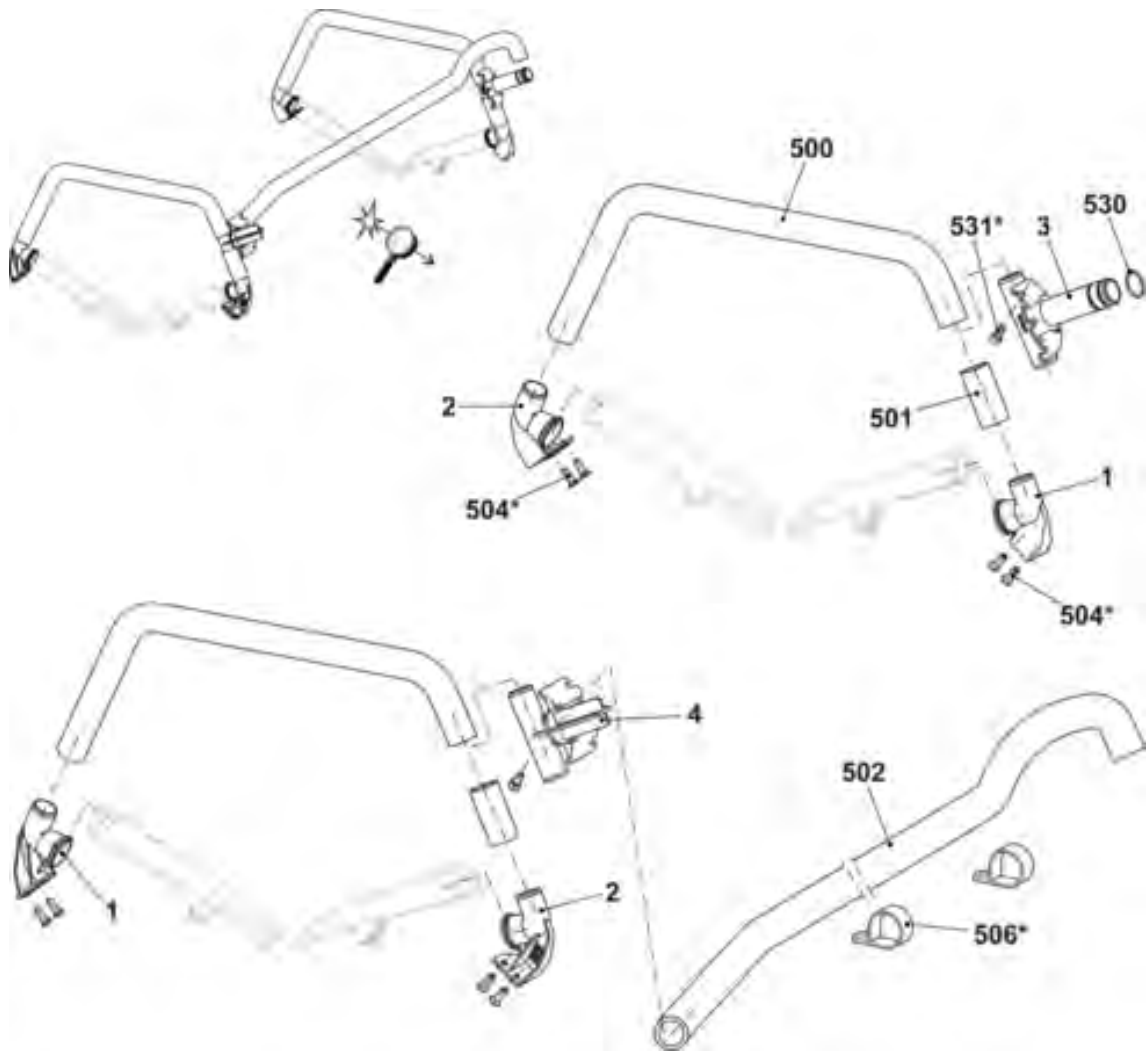
Pos	Designation	Id		Pos	Designation	Id
Σ	Lint container			6*	Sealing plug	245 029
1	Lint container	245 024		10*	Cover with filter	251 335
5*	Sealing plug	245 028		501*	Cap screw M6x10	023 690



10.3 Set of hose

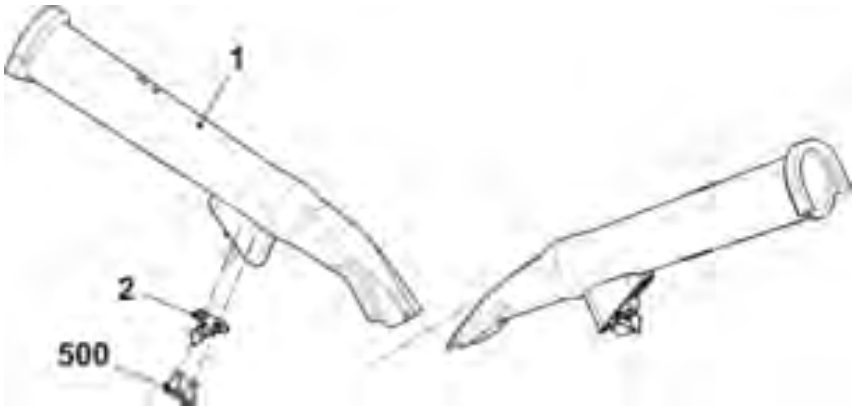
10.3 Set of hose

Pos	Designation		Id		Pos	Designation		Id
Σ	Set of hose complete 740/830C		251 341		4	Connection piece FLENT		245 022
1	Angle connection on the right		250 121		500	Suction hose 20x16x400		244 983
2	Angle connection on the left		251 101		501	Suction hose 20x16x40		251 043
3	T-piece FLENT		245 021		502	Suction hose 20x16x720		251 046
	530	O-ring 15x1,5	250 054		504*	Countersunk head screw M4x12		023 062
	531*	Cap screw M4x8	022 501		506*	Cable clip		250 051



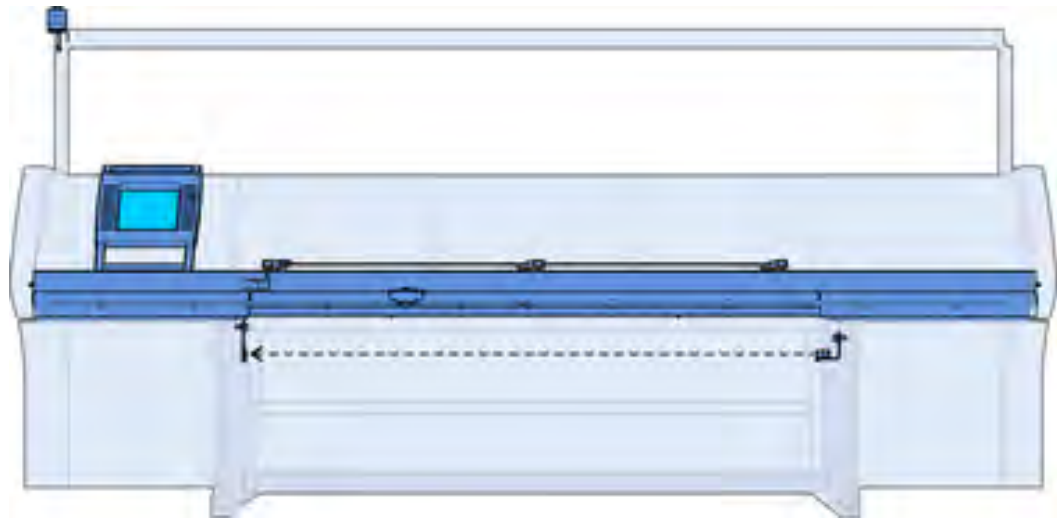
10.4 Suction tube

Pos	Designation	Id		Pos	Designation	Id
Σ	Suction tube complete	251 314				
1	Suction tube	255 606				
2	Bracket	255 628				
500	Screw KB30x6	241 424				



Notes:

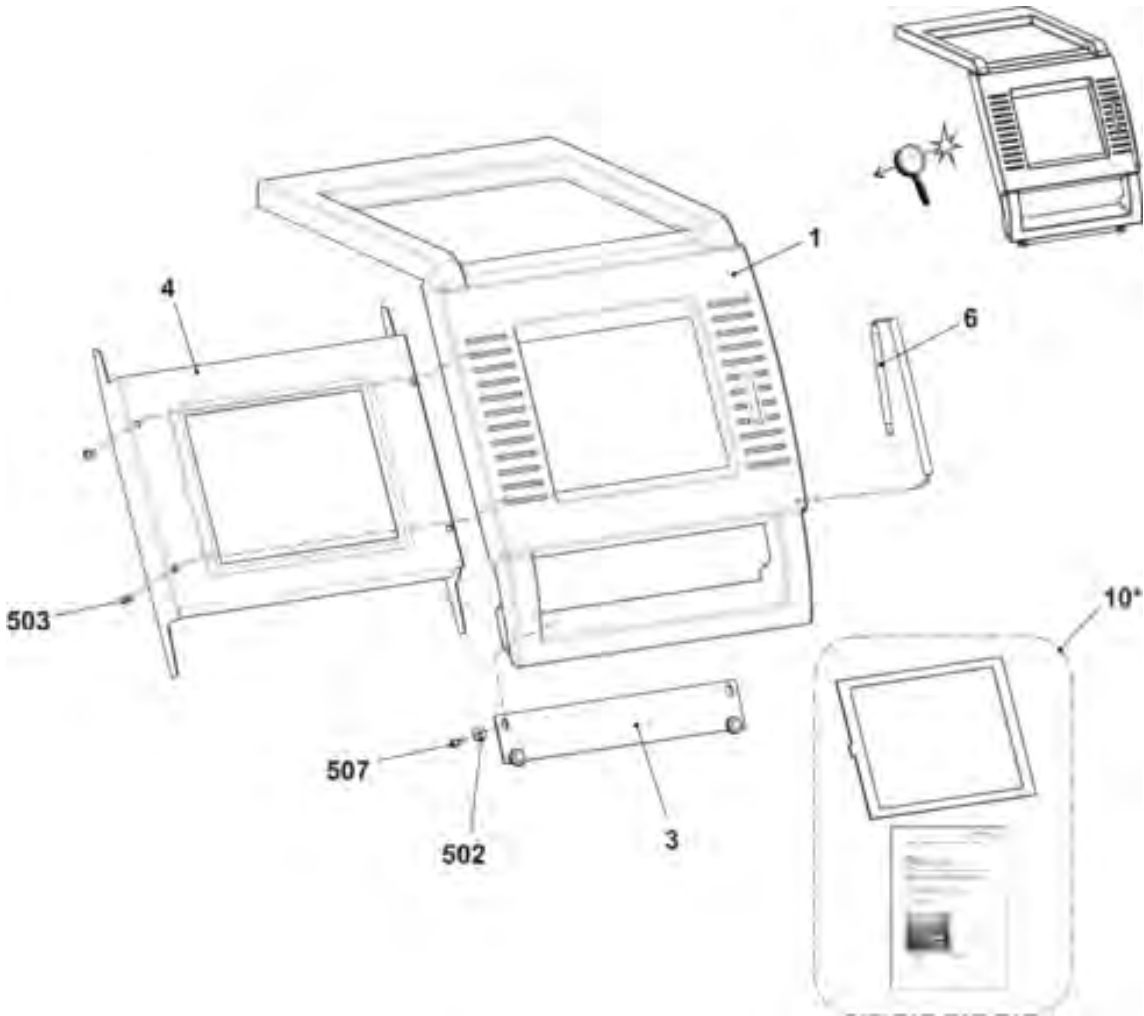
11 Operation and control



11.1 Input unit

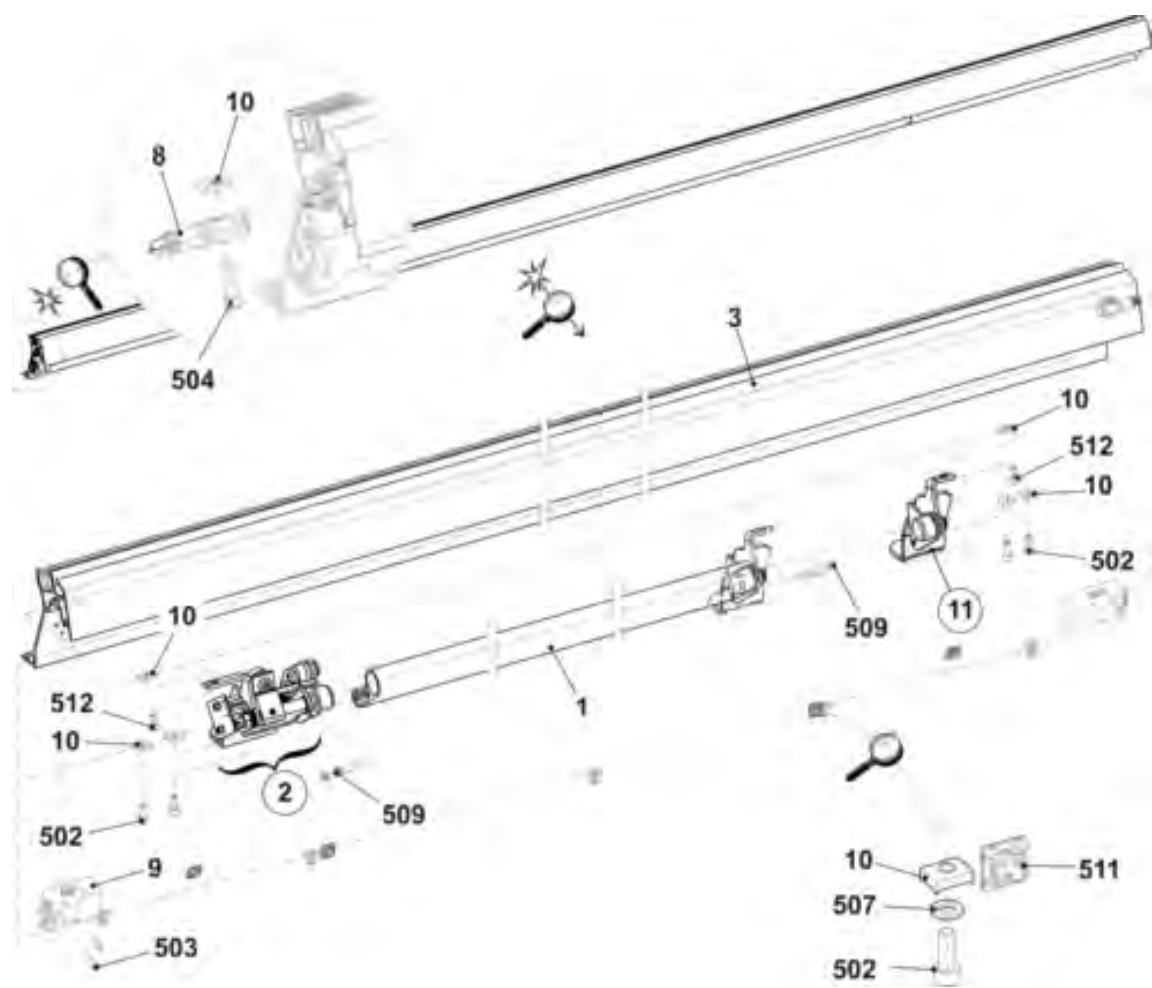
11.1 Input unit

Pos	Designation	Id		Pos	Designation	Id
Σ	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

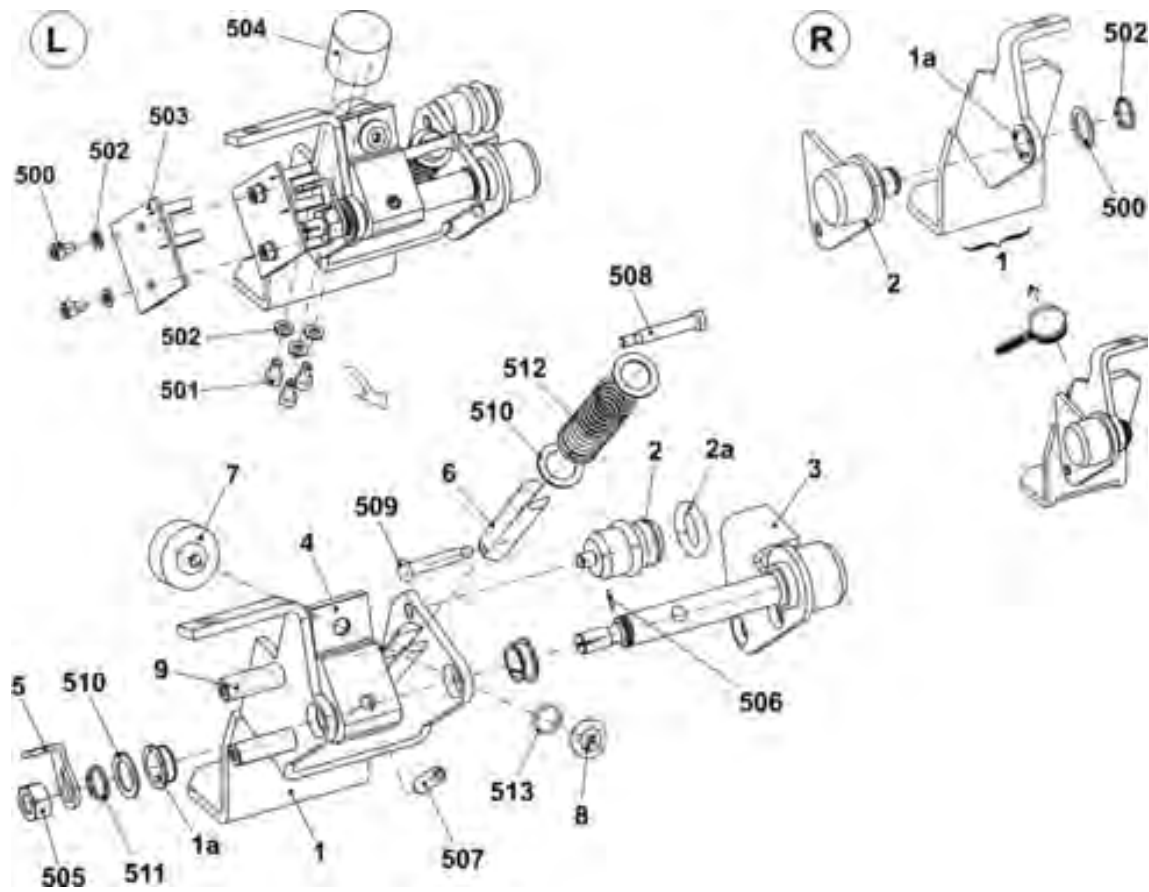
Pos	Designation	ID		Pos	Designation	ID
Σ	Starting device complete	241 039				
1	Engaging rod	241 030		502	Cap screw M6x16	020 135
2	Bearing on the left complete	250 071		503	Pan-head screw M5x14	023 588
3	Guide rail at the bottom complete	257 540		504	Cap screw M6x20-12.9	020 136
8	Locating bolt	219 107		507	Washer	020 872
9	Switch with cable to safety doors	223 350		509	Screw M6x25	023 510
10	Sliding nut (slot nut)	225 099		511	Cable holder	262 037
11	Bearing on the right complete	252 964		512	Cap screw M6x10	023 690



11.2 Starting device

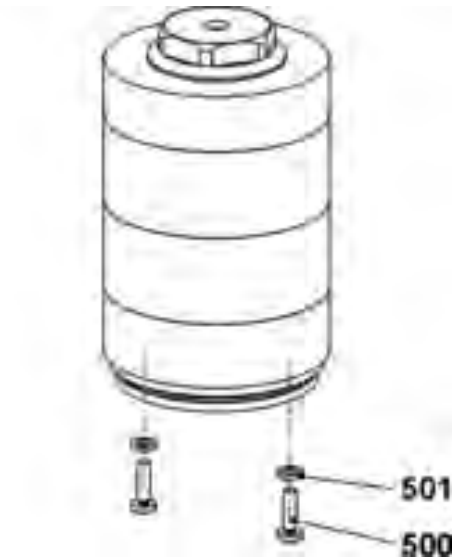
11.2.1 Bearing of the engaging rod

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 ring12x1	020 951
6	Spring mandrel	251 340	512	Compression spring 1,25x15x98,2	023 609
7	Disk	245 222	513	Compression spring 0,5x11x12	251 369
8	Shoulder screw	254 528			
9	Distance bolt	240 287	R	Bearing on the right complete	252 964
500	Cap screw M4x6	023 067	1	Bearing on the right	240 230
501	Cap screwM4x8	022 501	1a	Clip bearing MCM 12-04	023 639
502	Shim ring 4x8x1	023 369	2	Shaft on the right	242 888
503	Card engaging	259 000	500	Shim ring 12x18x1	023 315
504	Adhesive magnet direct current	026 233	502	Locking ring12x1	020 951



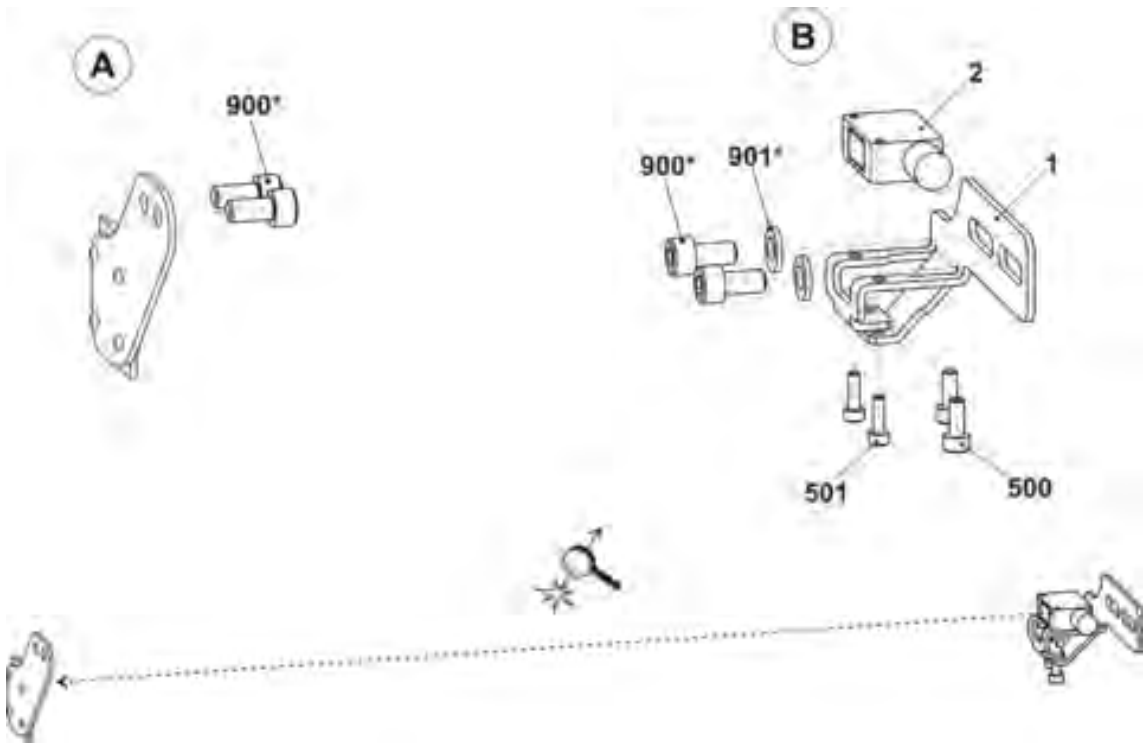
11.3 Signal light

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					



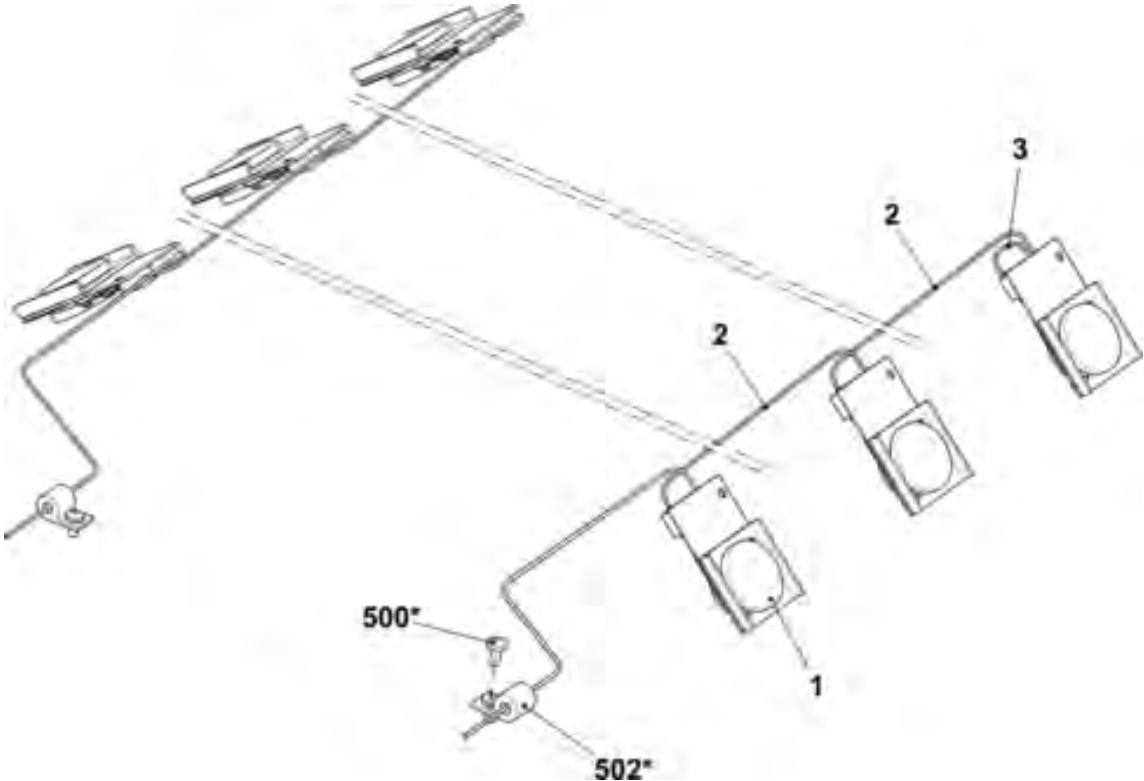
11.4 Collecting area - control

Pos	Designation	Id		Pos	Designation	Id
A	Reflector complete	261 374		B	Holding angle light barrier	257 409
900*	Cap screw M6x12	020 134		1	Holding angle	256 806
				2	Light barrier	243 355
				500	Cap screw M4x10	023 136
				501	Cap screw M3x10	022 991
				900*	Cap screw M6x12	020 134
				901*	Washer	020 872



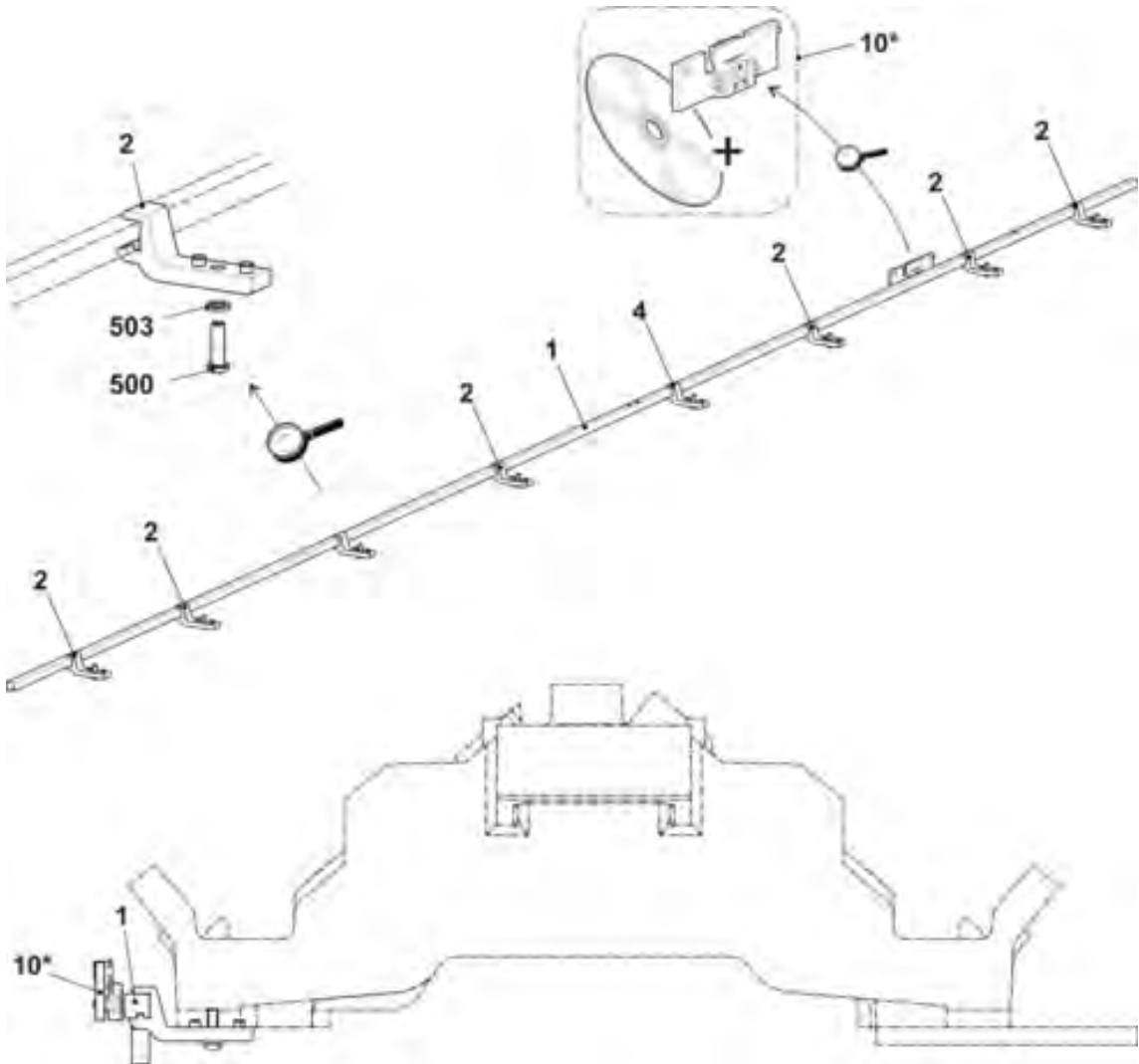
11.5 Shock stop motion

Pos	Designation	ID		Pos	Designation	ID
Σ	Shock stop motion complete	237 280		3	End plug piezo sensor	220 062
1	Shock stop motion (Piezo)	220 011		500*	Pan-head screw M4x8	023 036
2	Cable connection piezo	220 061		502*	Cable clip N-3B 5 mm	210 729



11.6 Measuring device

Pos	Designation	Id		Pos	Designation	Id
Σ	Measuring device					
1	Measuring bar	258 308		10*	Spare parts package impulse sensor GLM	259 613
2	Guide	212 210		501	Washer6	020 881
4	Guide	240 672		502	Pan-head screw M6x20	241 603



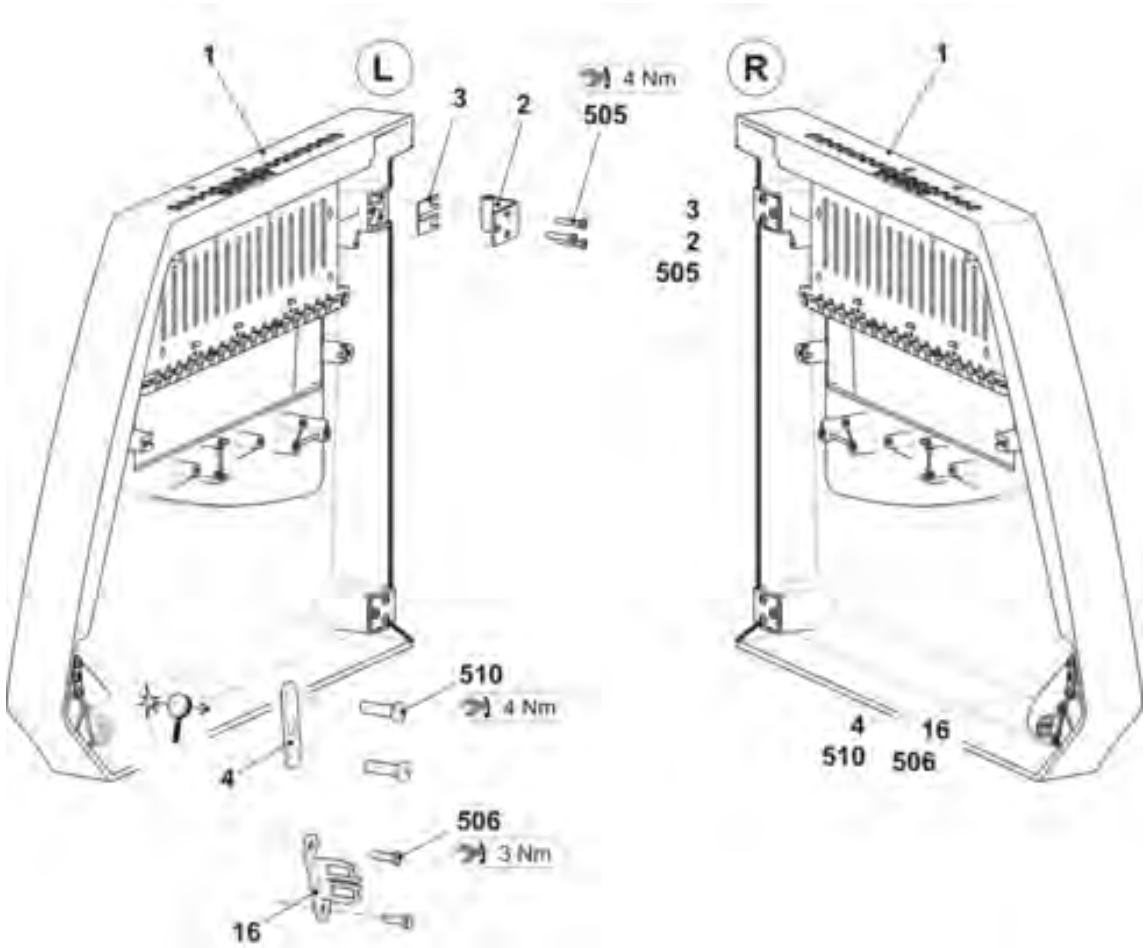
12 Protective units



12.1 Lateral safety doors

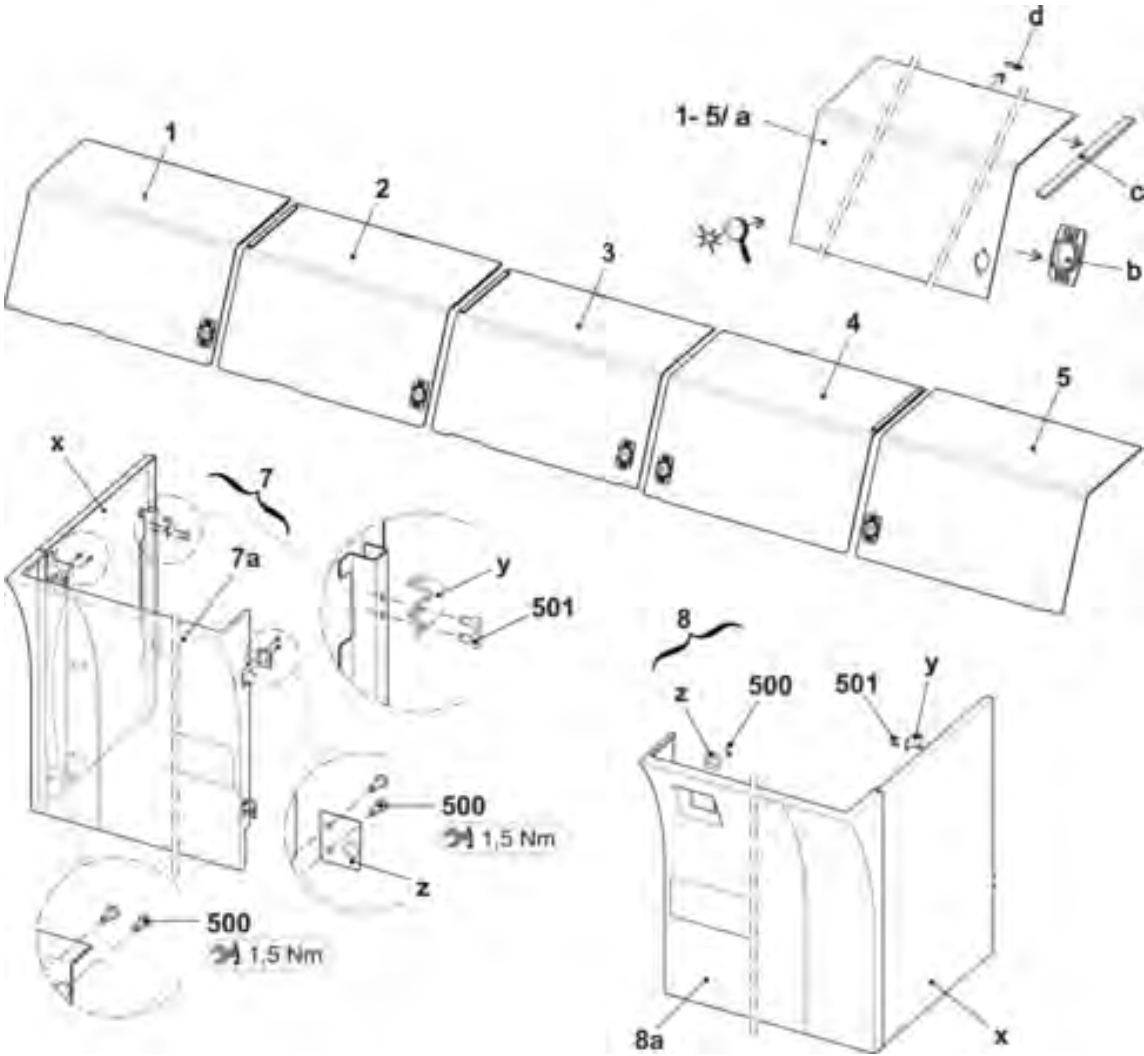
12.1 Lateral safety doors

Pos	Designation	ID		Pos	Designation	ID
Σ	Safety door on the left complete E3-4	262 430		Σ	Safety door on the right complete E3-4	262 431
1	Safety door on the left	250 562		1	Safety door on the right	250 563
2	Hinge	241 994		505	Screw KB 60x30	237 683
3	Plate	224 717		510	Screw KB 60x20	237 682
4	Locking plate	219 748				



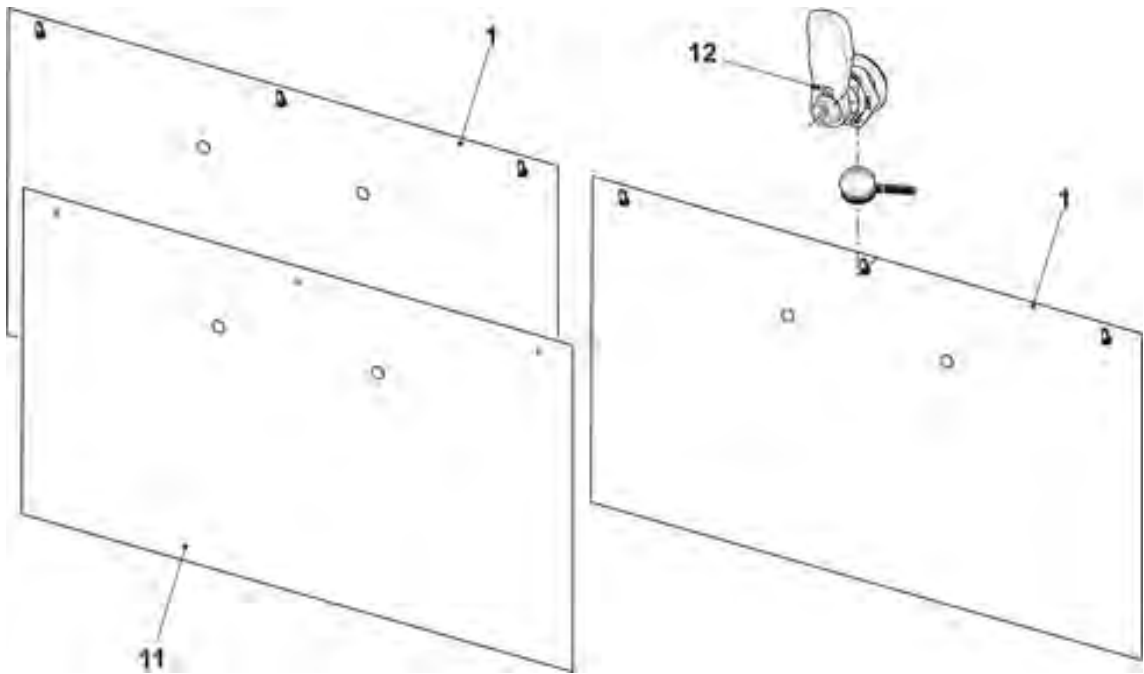
12.2 Panelling

Pos	Designation		Id		Pos	Designation		Id	
1	Cover 1 (complete)		257 532		1-5	b	Inlet type handle	251 376	
	1a	Cover 1	257 527			c	Stripper	219 393	
2	Cover 2 (complete)		257 533			d	Magnet	255 129	
	2a	Cover 2	257 528		7	Control unit panelling on the left complete		251 237	
3	Cover 3 (complete)		257 534			7a	Control unit panelling on the left	251 190	
	3a	Cover 3	257 529		8	Control unit panelling on the right complete		251 238	
4	Cover 4 (complete)		257 535			8a	Control unit panelling on the right	251 191	
	4a	Cover 4	257 530		7-8	x	Side part	244 989	
5	Cover 5 (complete)		257 536			y	Hinge	250 273	
	5a	Cover 5	257 531			z	Bracket	240 412	
						500	Screw KB 50x12		240 359
						501	Cap screwM6x16		020 135

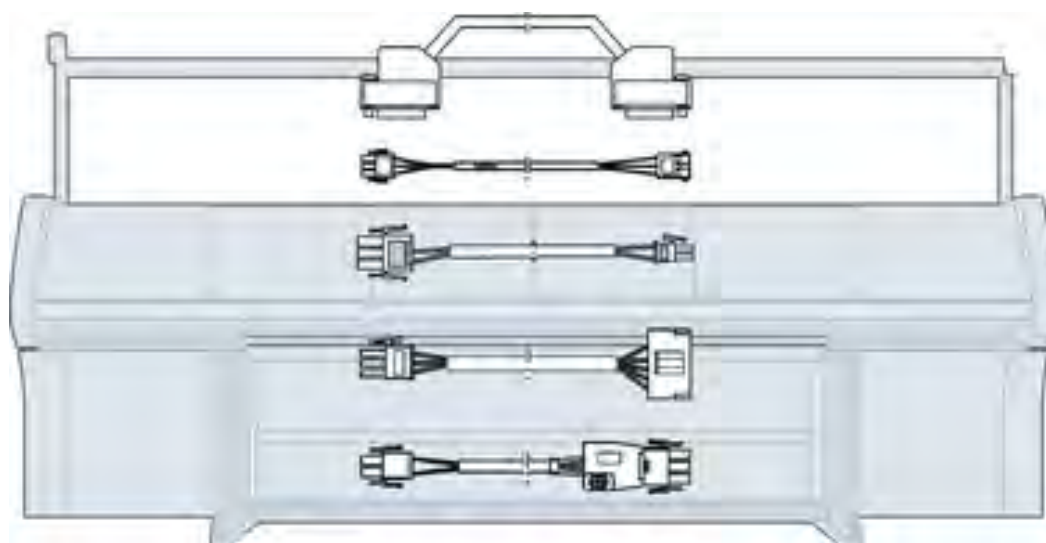


12.3 Rear panel

Pos	Designation	Id		Pos	Designation	Id
1	Panelling at the rear complete	257 670		11	Panelling	257 664
				12	Safety sash fastener	243 052



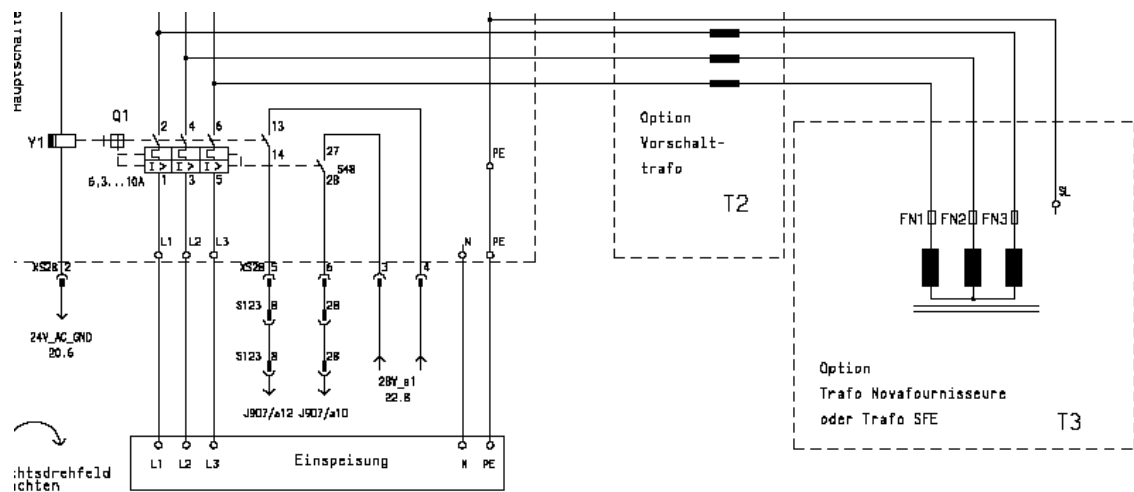
13 Electrical equipment



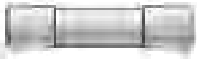
13.1 Circuit diagram (221) as PDF

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

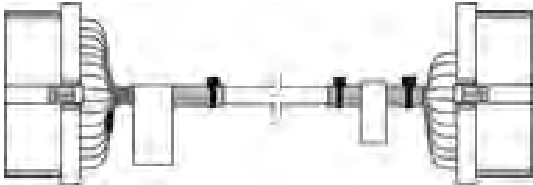
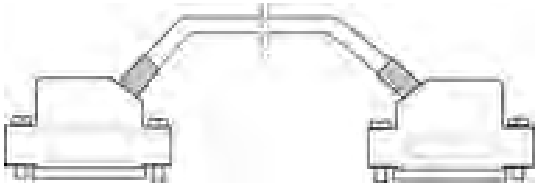
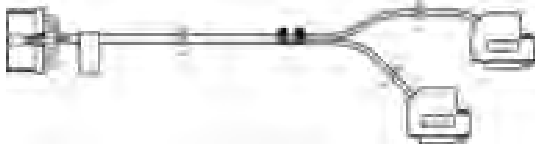
You will find the circuit diagram 221 on the CMS documentation DVD with the ID no.: 257 157



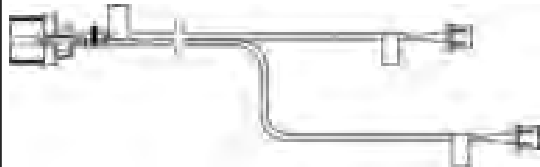
13.2 Fuses

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

13.3 Trailing cable

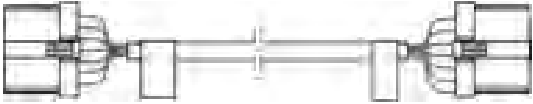
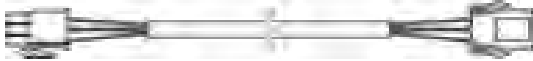
Designation	ID	Designation	ID
Trailing cable set 830C OKC 1IMP-2	259 297		
Cable impulse sensor 2 at the rear on the right XL136 822 OKC3	259 369	Cable SM at the rear XL325 830C OKC	244 225
		Cable SM at the front XL327 830C OKC	244 229
			
Cable yarn carrier 830C OKC	244 224	Cable signal at the rear XL326 830C OKC	244 226
		Cable signal at the front XL328 830C OKC	244 230
			
Cable holding-down jack control830C OKC	244 231		
			

13.4 Cable set installation

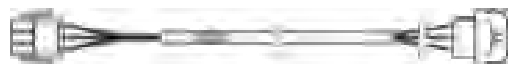
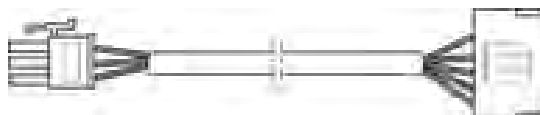
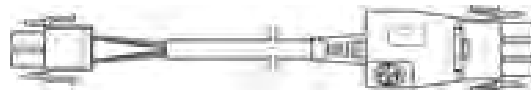
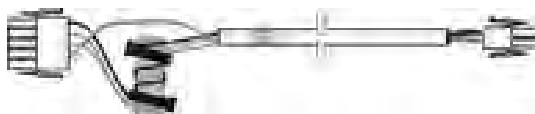
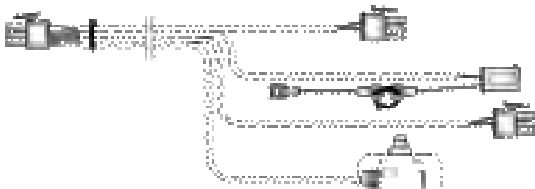
Designation			ID	Designation			ID
Σ	Cable set installation 8XX OKC	242 224					
1	Loom of cables base 1 OKC	240 256		4	Loom of cables comb OKC	240 259	
2	Loom of cables base 2OKC	240 257		8	Cable Piezo needle bed OKC	240 518	
3	Loom of cables 84" OKC	242 225					

13.4 Cable set installation

13.4.1 Loom of cables base 1

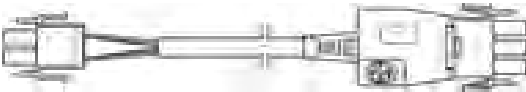
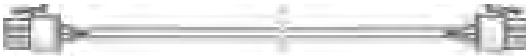
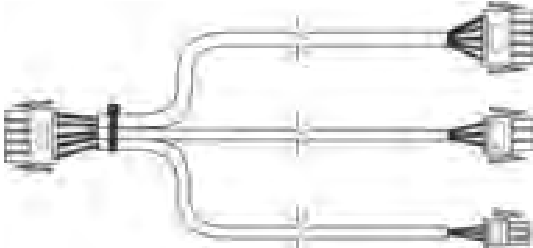
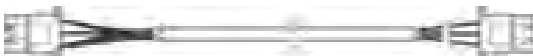
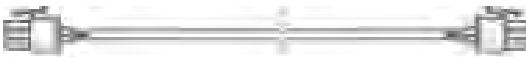
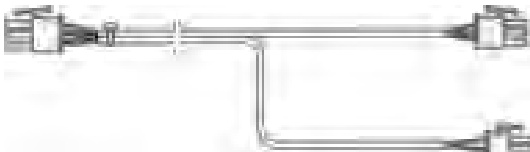
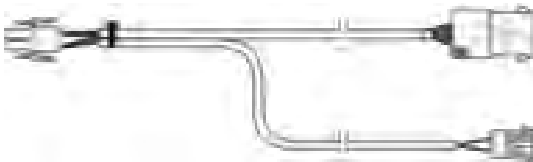
Designation	ID		Designation	ID
Loom of cables base 1 OKC	240 256			
Cable Engaging rod OKC 3XX	240 289		Cable supply FKE lamp OKC	240 290
				
Cable protective device on the left OKC	253 442			
				

13.4.2 Loom of cables base 2

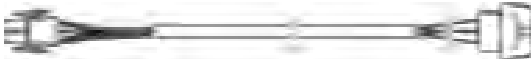
Designation	ID		Designation	ID	
Loom of cables base 2OKC	240 257				
Cable motor HAAB OKC	240 291		Cable racking limit switch OKC	240 292	
					
Cable fan drive OKC	240 293		Cable Feed wheel on the right OKC	240 294	
					
Cable drive motor OKC	240 295		Cable resolver drive OKC	240 296	
Cable racking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

13.4 Cable set installation

13.4.3 Kabelstrang 84"

Designation	ID		Designation	ID
Loom of cables 84" OKC	242 225			
Cable CAN 84"	240 461		Cable Electro 84" OKC	240 463
				
Cable feed wheel on the left 84" OKC	240 466		Cable motor HIAB84" OKC	242 226
				
Cable switch HIAB 84" OKC	242 227		Cable power supply WAZ/F 84" OKC	240 471
				
Cable power supply servo 84"	240 504		Cable power supply unit of mains supply OKC	240 505
				
Cable power supply lighting84" OKC	240 507		Cable motor HAABOEF/S 84" OKC	242 228
				
Cable switch HAOS 84" OKC	242 229		Cable switch HIAB Anpr. OKC	240 593
				
Cable motor HIAB Anpress OKC	240 592		Cable power supply FLENT 84" OKC	251 243
				

13.4.4 Loom of cables COMB

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

Notes:

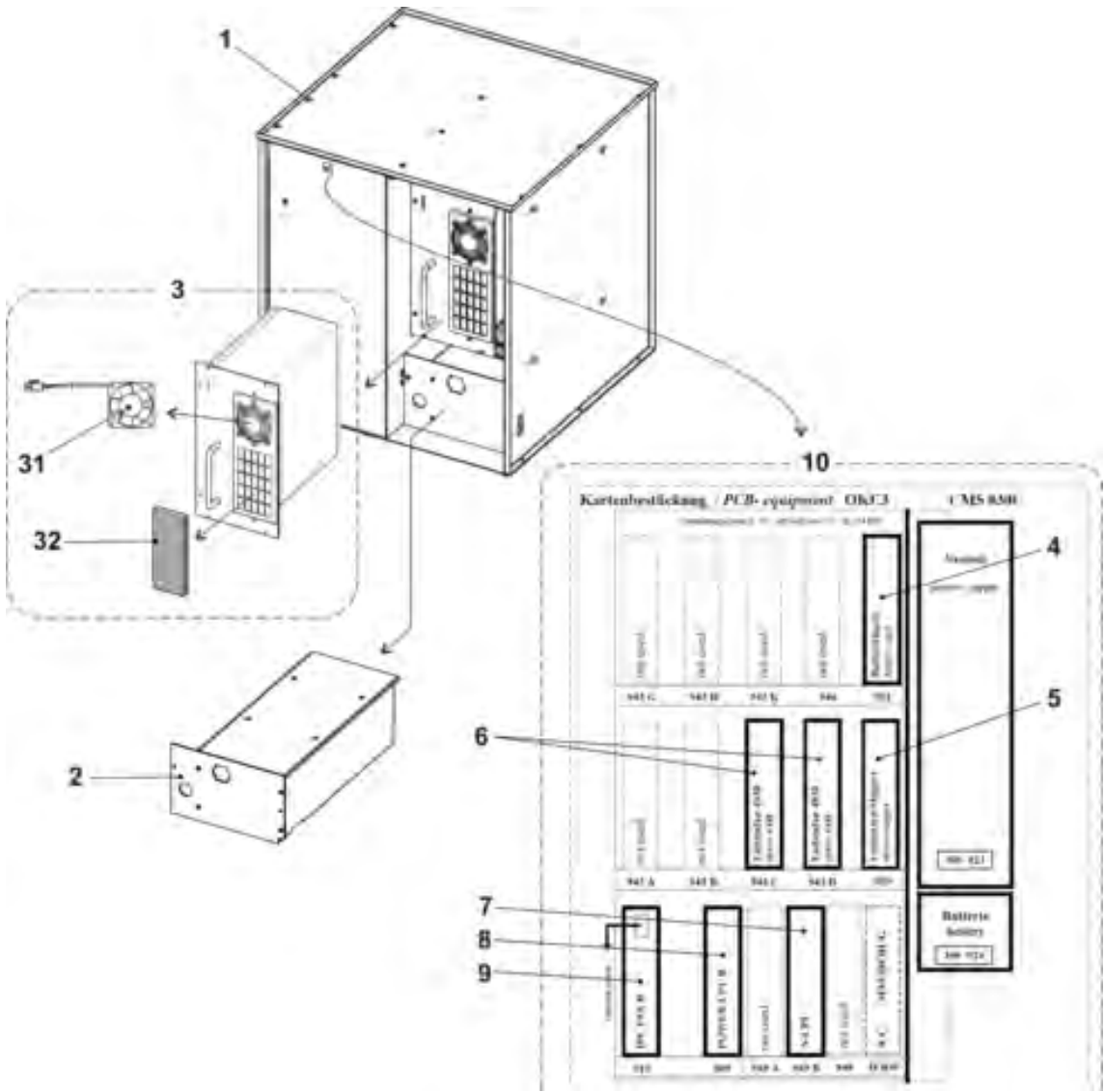
14 Control electronics



14.1 Left control cabinet

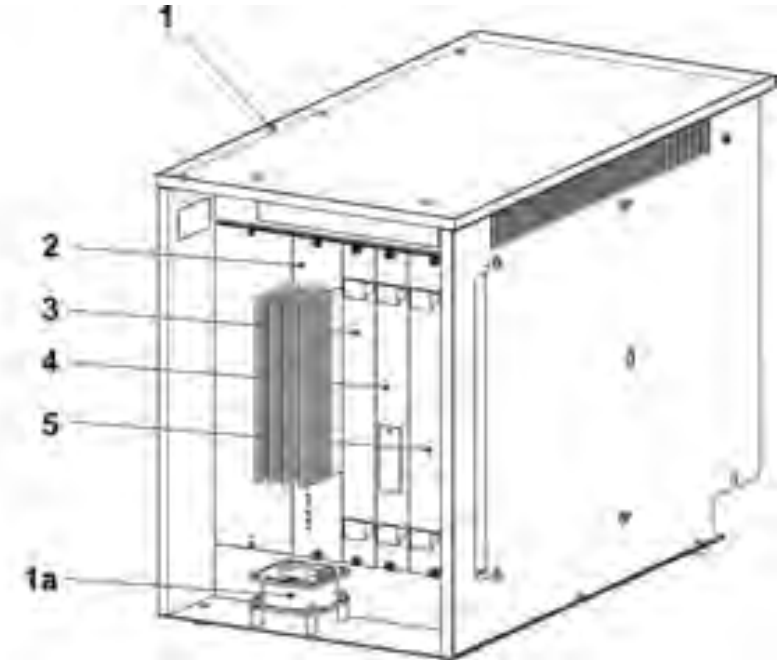
14.1 Left control cabinet

Pos	Designation	ID	Pos	Designation	ID
Σ	Control unit on the left complete830C OKC3	255 954			
1	Control unit on the left without any equipment	254 868	5	Card YC final stages short circuit proof	300 939
2	Battery plug-in unit	300 924	6	Card final stages 4SM 7TE	300 943
3	Power supply unit CG54	300 923	7	Card N-CPU 432	300 965
	31 Fan power supply unit	239 305	8	Card Power CPU1	301 009
	32 Filter pad CG54	239 350	9	Card IPC P8X OKC	301 010
4	Card battery OKC	300 951	10	Adhesive label of card equipment	255 955



14.2 Right control cabinet

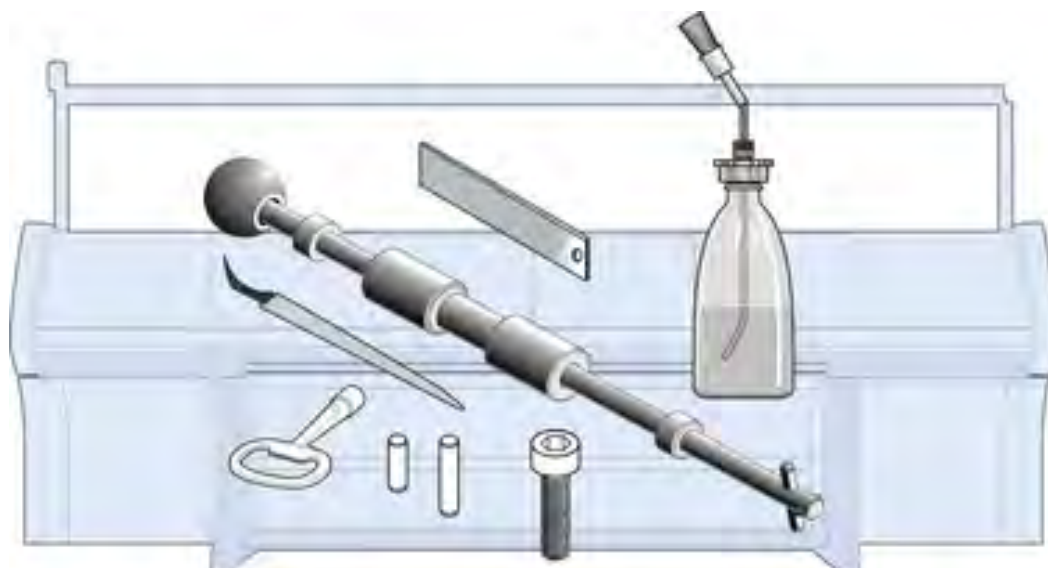
Pos	Designation		Id		Pos	Designation		Id
Σ	Control unit on the right complete 2A 72" okc		238 738					
1	Control unit on the right without equipment		238 737		3	Card relay okc		300 953
	1a	Axial flow fan Servo 05	229 059		4	Card CWAZ		300 929
2	Card Servo6 okc		301 000		5	Capacitor card CWAZ		300 936



14.2 Right control cabinet

Notes:

15 Deliverable accessories



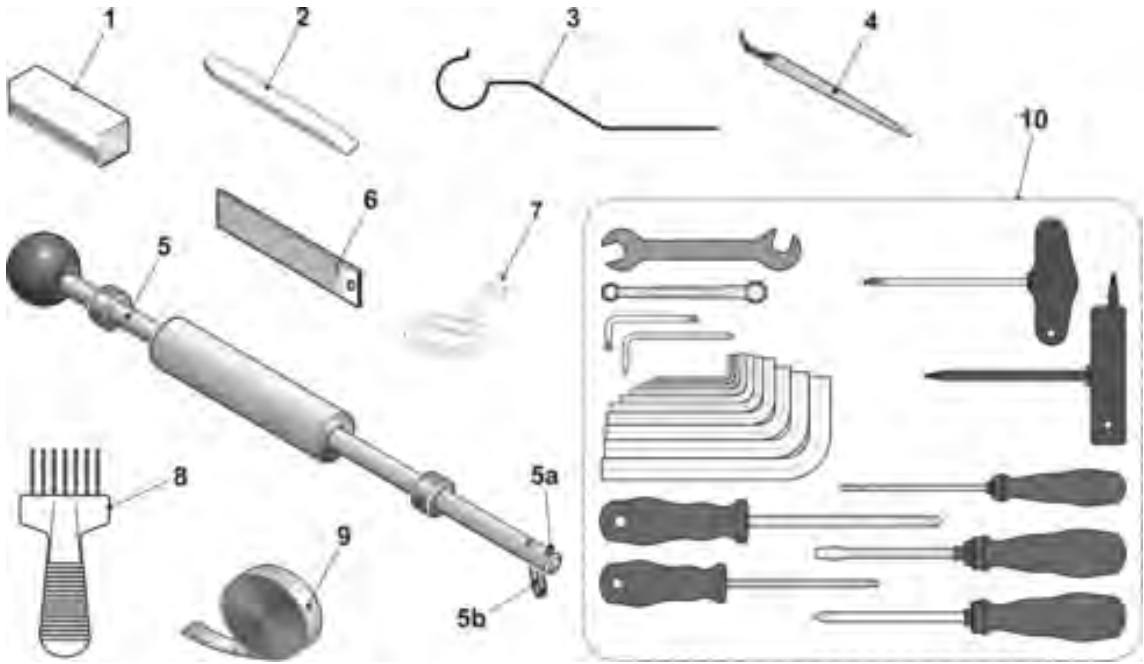
You can order the following tools, lubricants and expendables.

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

15.1 Tool

15.1 Tool

Pos	Designation	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	8	Groove cleaner E4	031 232
	Channel support E16, E8.2	230 188		Groove cleaner E5	031 233
	Channel support E18, E9.2	230 189		Groove cleaner E6	031 234
	Channel support E20	230 190		Groove cleaner E7, E3,5.2	031 235
2	Channel chisel E14-20 (E5-14)	062 316		Groove cleaner E8	031 236
	Channel chisel E4-8 (E3,5.2)	062 317		Groove cleaner E10 (E5.2)	031 238
	Channel chisel E10-14	062 318		Groove cleaner E12 (E6.2)	031 240
3	Yarn guide on the left	227 071		Groove cleaner E14 (E7.2)	031 242
	Yarn guide on the right	227 070		Groove cleaner E16	225 111
4	Working hook	227 249		Groove cleaner E18 (E9.2)	225 112
5	Extraction hook	232 027		Groove cleaner E20	225 113
	5a Small pin	202 843	9	Measuring tape L=150cm	228 180
	5b Pencil	232 022	10	Tool kit	209 527



15.2 Lubricating stuff

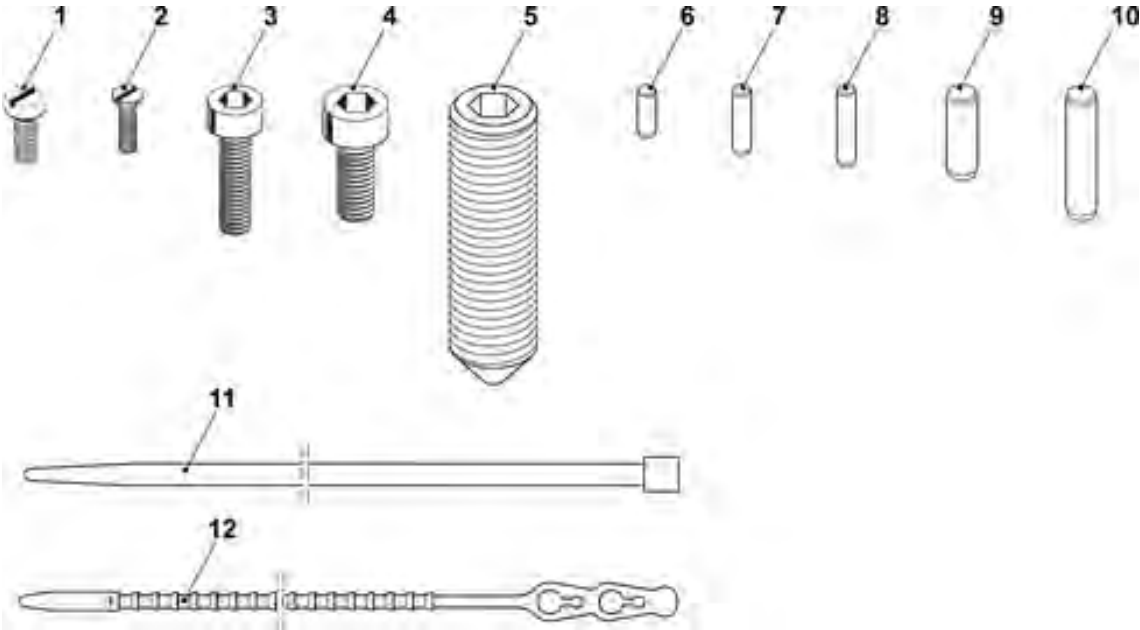
Pos	Designation	Id		Pos	Designation	Id
1	Silvertex T 46, 1l	230 614		4	Oil combifix	216 732
2	Grease OKS 475, 1kg	009 200		5	White grease paste OKS270	229 372
3	Grease OKS 475, 150g	005 351		6	Grease Staburags NBU 12/300KP	231 191



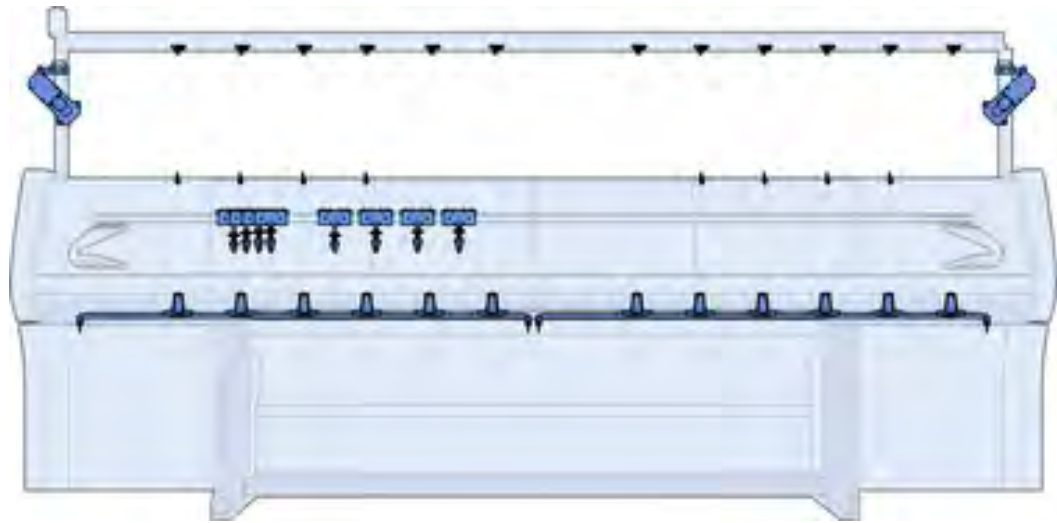
15.3 Mechanical parts

15.3 Mechanical parts

Pos	Designation	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				



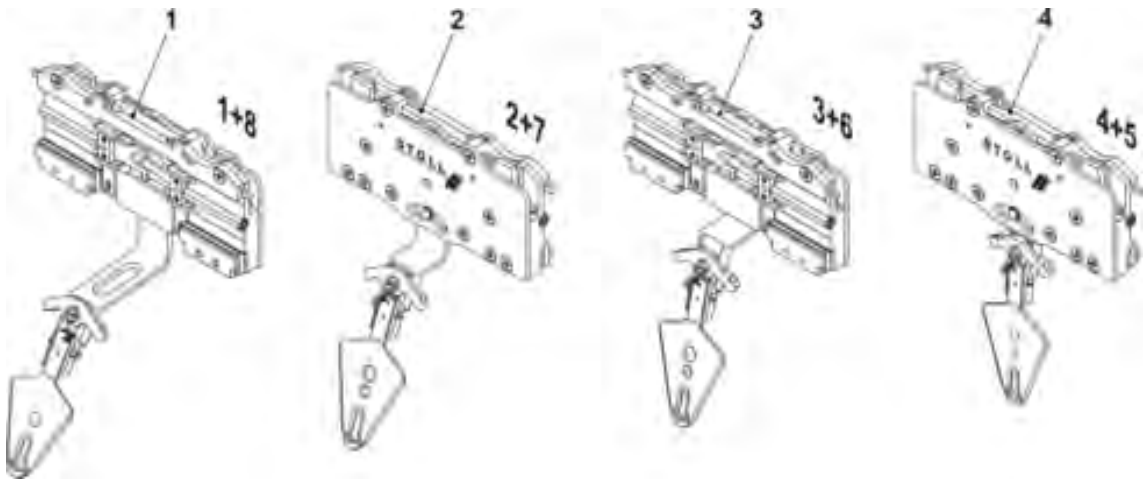
16 Special equipment



16.1 Complete intarsia yarn carriers

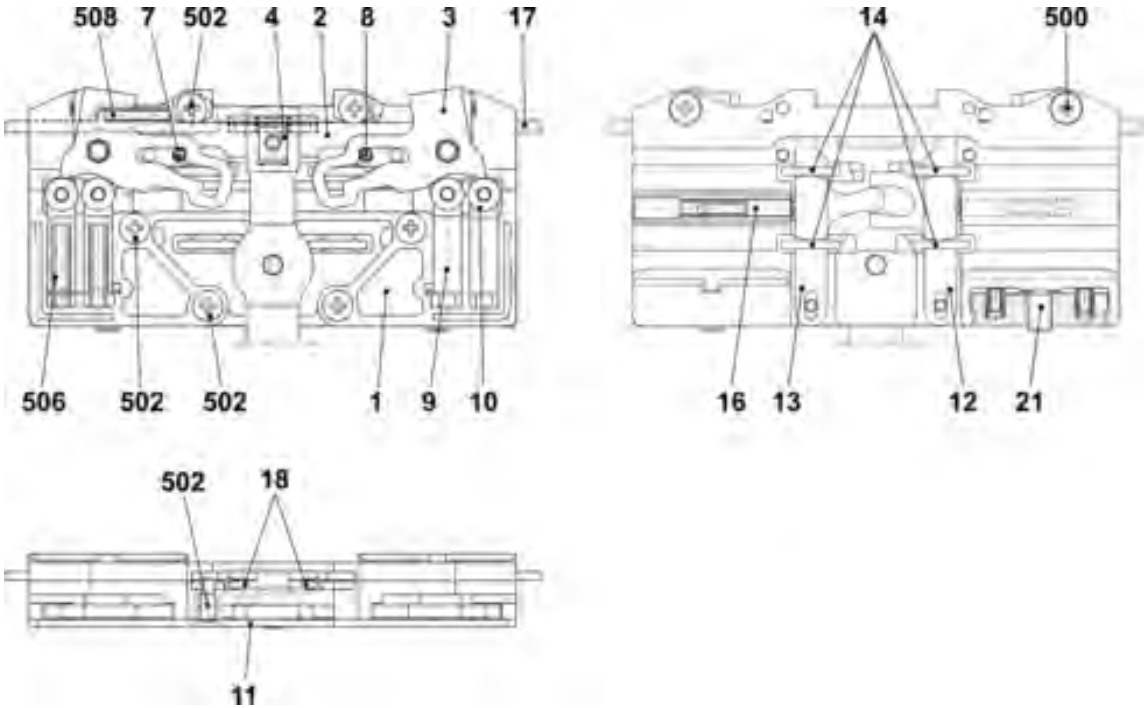
16.1 Complete intarsia yarn carriers

Pos	Designation	ID		Pos	Designation	ID
1	IFF carriage 1+8 complete	213 773		3	IFF carriage 3+6 complete	213 775
2	IFF carriage 2+7 complete	213 774		4	IFF carriage 4+5 complete	213 776



16.1.1 Carriage IFF

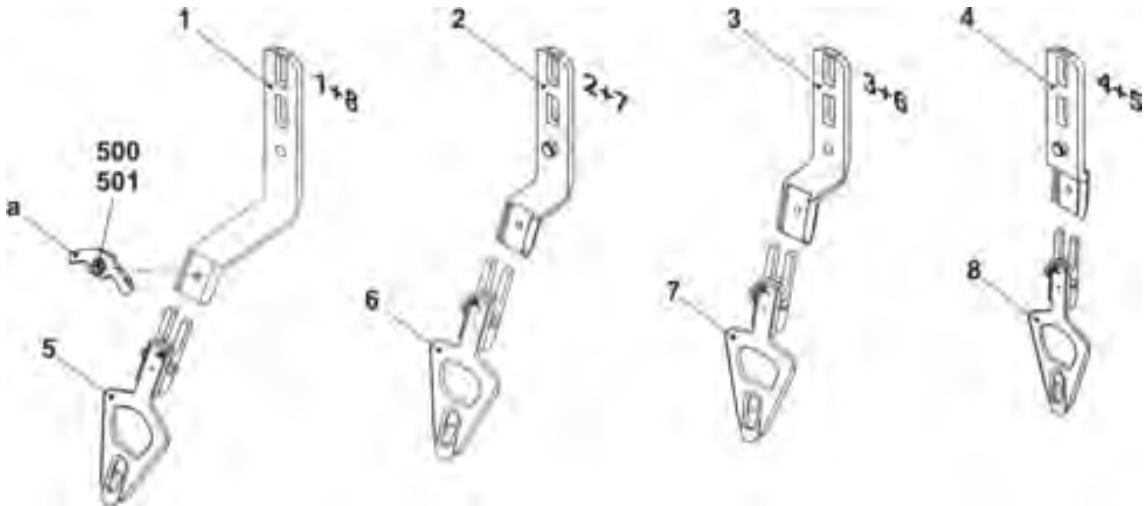
Pos	Designation	ID		Pos	Designation	ID
Σ	IFF carriage 1+8 complete	213 773				
	IFF carriage 2+7 complete	213 774		11	Cover	213 392
	IFF carriage 3+6 complete	213 775		12	Clamping lever on the right	216 100
	IFF carriage 4+5 complete	213 776		13	Clamping lever on the left	216 101
1	Basic plate complete	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
7	Locating pin 3,3 (2+7/3+6)	212 504		18	Sliding part	213 391
	Locating pin 3,4 (1+8/2+7/3+6/4+5)	212 505		21	Threaded bolt	213 399
8	Locating pin 3,3 (2+7/3+6/4+5)	212 504		500	Countersunk head screw M4x6	022 994
	Locating pin 3,4 (2+7/3+6/4+5)	212 505		502	Countersunk head screw M4x12,5	022 979
	Locating pin 3,5 (1+8)	212 506		506	Compression spring 4,0x0,7x25	022 969
9	Thrust piece	212 773		508	Compression spring 2,8x0,35x19	023 394
10	Pressure roller	212 774				



16.1 Complete intarsia yarn carriers

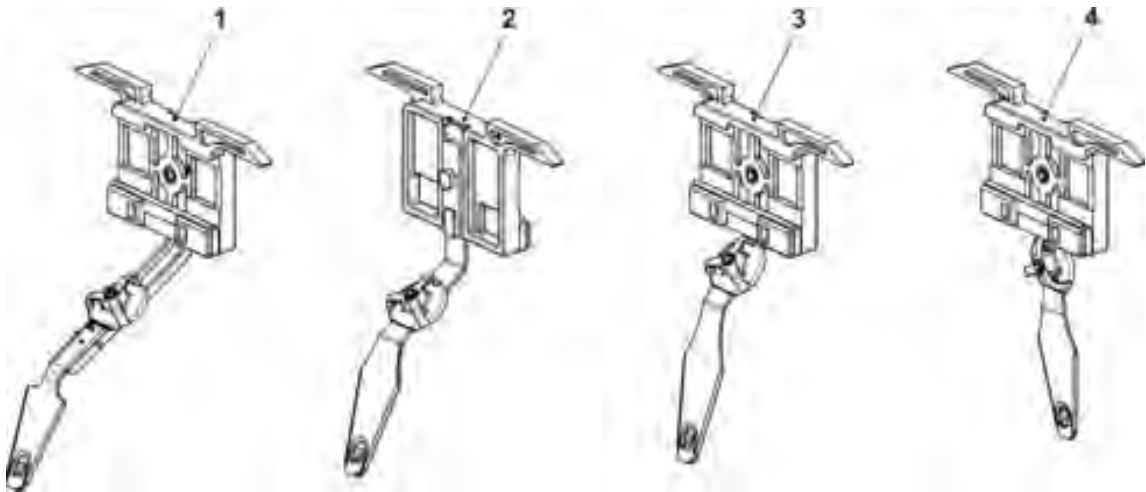
16.1.2 Bow and head IFF

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



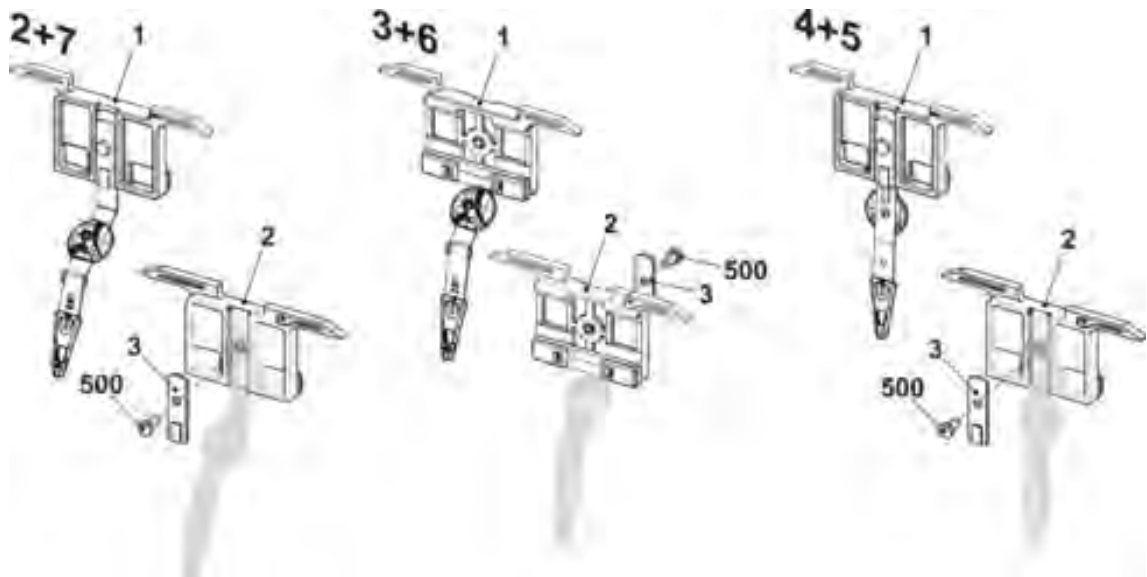
16.2 Complete yarn carriers

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



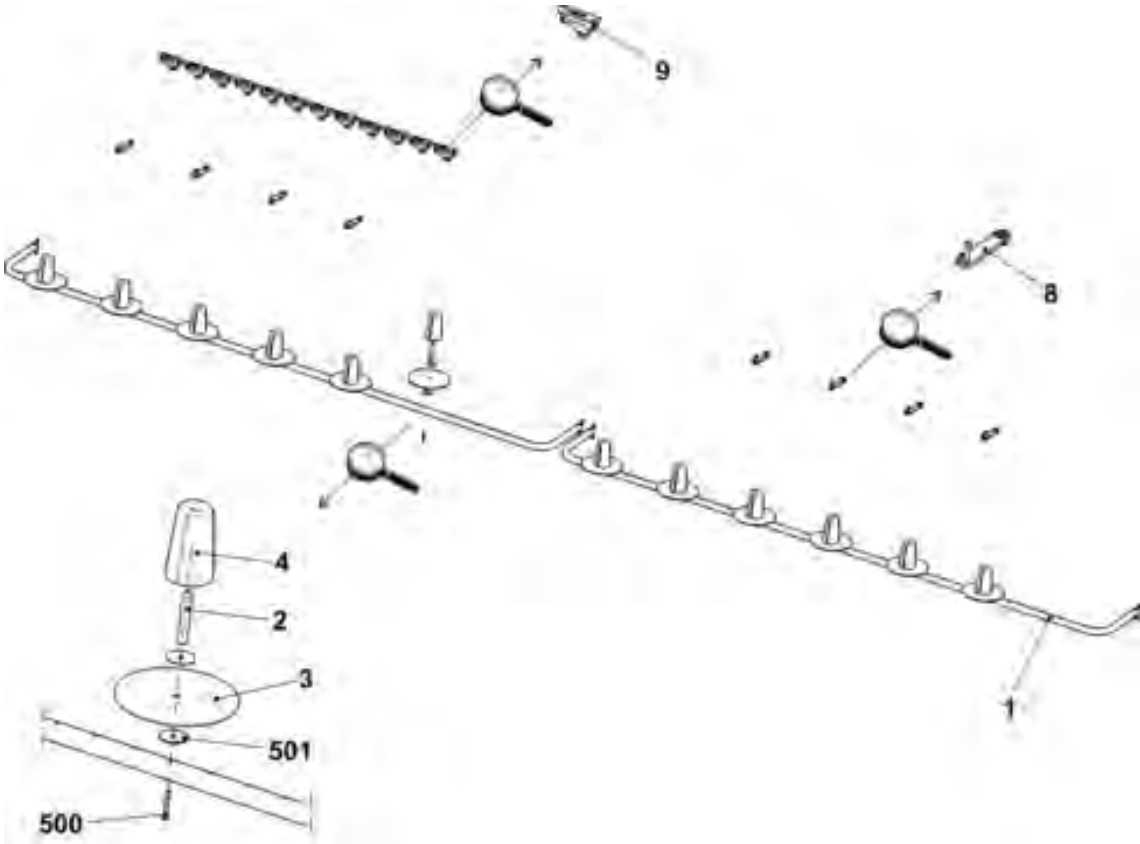
16.3 Carriage of plating yarn carrier

Pos	Designation	ID		Pos	Designation	ID
Σ2+7	Carriage set of plating YC2+7	258 600		Σ2+7	Carriage set of plating YC2+7	258 603
1	Yarn carrier carriage 2+7 completeE7-8	257 642		1	Yarn carrier carriage 2+7 completeE10-14	257 646
2	Yarn carrier carriage complete EW 35	257 610		2	Yarn carrier carriage complete EW 35	257 610
3	Shim	213 035		3	Shim	213 035
500	Hexagon screw M5x10	020 351		500	Hexagon screw M5x10	020 351
Σ3+6	Carriage set of plating YC3+6	258 601		Σ3+6	Carriage set of plating YC3+6	258 604
1	Yarn carrier carriage 2+7 completeE7-8	257 643		1	Yarn carrier carriage 2+7 completeE10-14	257 647
2	Yarn carrier carriage complete EW 35	257 610		2	Yarn carrier carriage complete EW 35	257 610
3	Shim	213 035		3	Shim	213 035
500	Hexagon screw M5x10	020 351		500	Hexagon screw M5x10	020 351
Σ4+5	Carriage set of plating YC4+5	258 602		Σ4+5	Carriage set of plating YC4+5	258 605
1	Yarn carrier carriage 2+7 completeE7-8	257 644		1	Yarn carrier carriage 2+7 completeE10-14	257 648
2	Yarn carrier carriage complete EW 35	257 610		2	Yarn carrier carriage complete EW 35	257 610
3	Shim	213 035		3	Shim	213 035
500	Hexagon screw M5x10	020 351		500	Hexagon screw M5x10	020 351



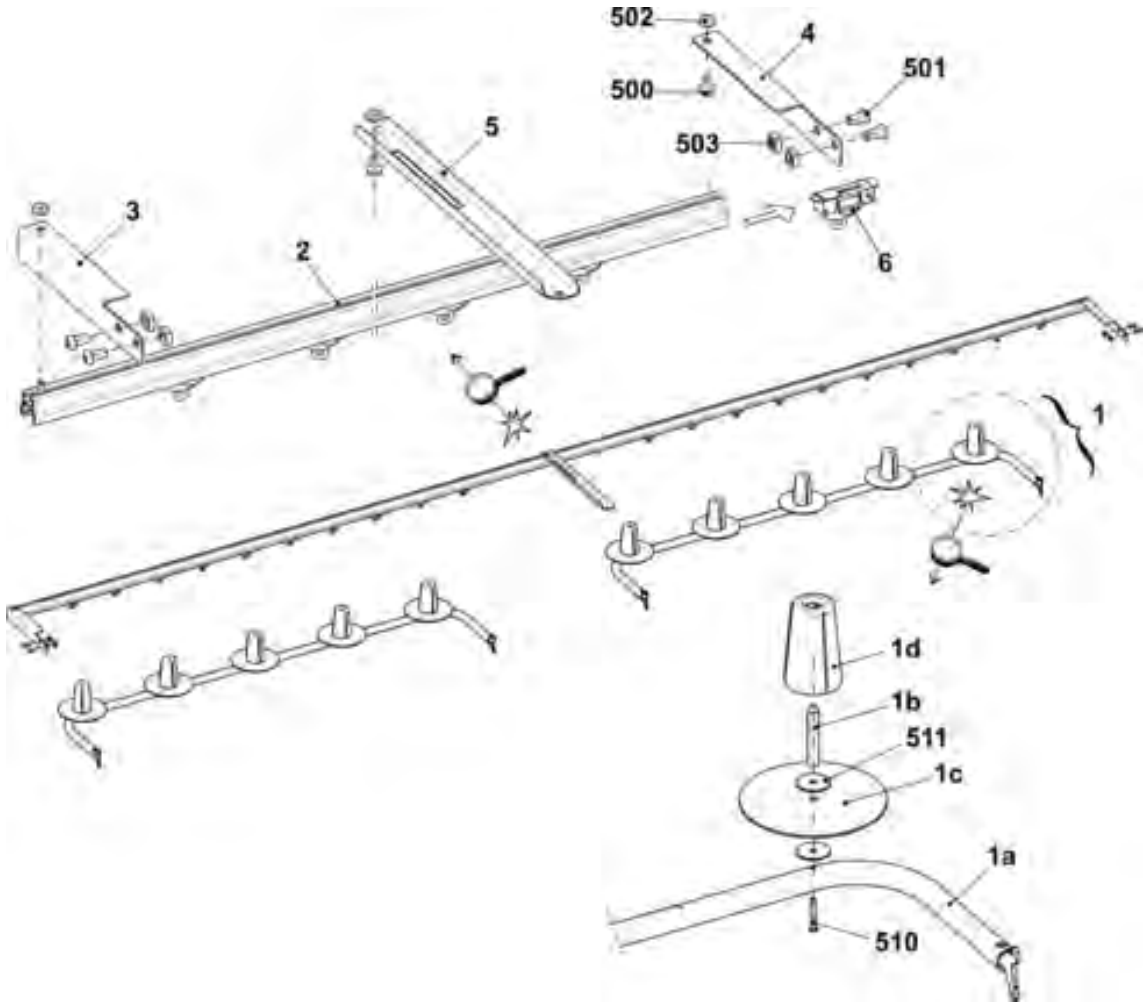
16.4 Additional board at the bottom

Pos	Designation	Id		Pos	Designation	Id
Σ	Zusatztisch 8XX unten	253 646				
1	Additional bobbin board welded	253 472		8	Yarn guide	243 765
2	Positioning pin	202 777		9	Yarn guide bracket	241 581
3	DiskD=130	062 385		500	Pan-head screw M4x30	023 681
4	Bobbin support	200 363		501	Washer5,3x30x1,25	023 556



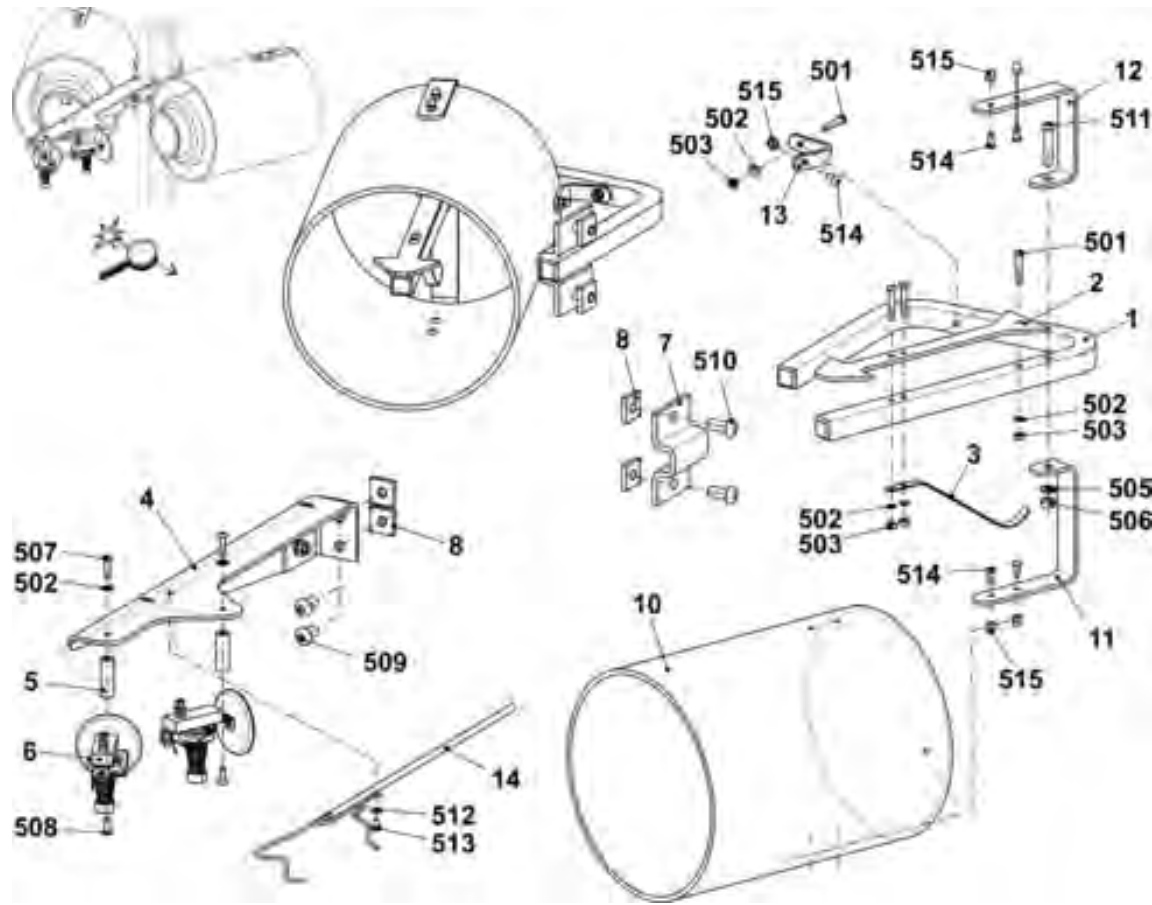
16.5 Additional board retrofit kit

Pos	Designation	Id	Pos	Designation	Id
Σ	Additional board retrofit kit 8XX	243 776			
1	Additional bobbin board 7XX/8XX	241 928	3	Support on the left	243 602
	1a Additional bobbin board welded	241 927	4	Support on the right	243 603
	1b Positioning pin	202 777	5	Support	239 295
	1c DiskD=130	062 385	6	Yarn guide bracket complete	241 581
	1d Bobbin support	200 363	500	Self-locking screw M6x12	023 415
	510 Pan-head screw M4x30	023 681	501	Pan-head screw M8x16	023 113
	511 Washer5,3x30x1,25	023 556	502	Serrated nut M6-10	023 414
2	Yarn guide bar84"	236 932	503	Square nut M8	023 269



16.6 Bobbin holder on the left

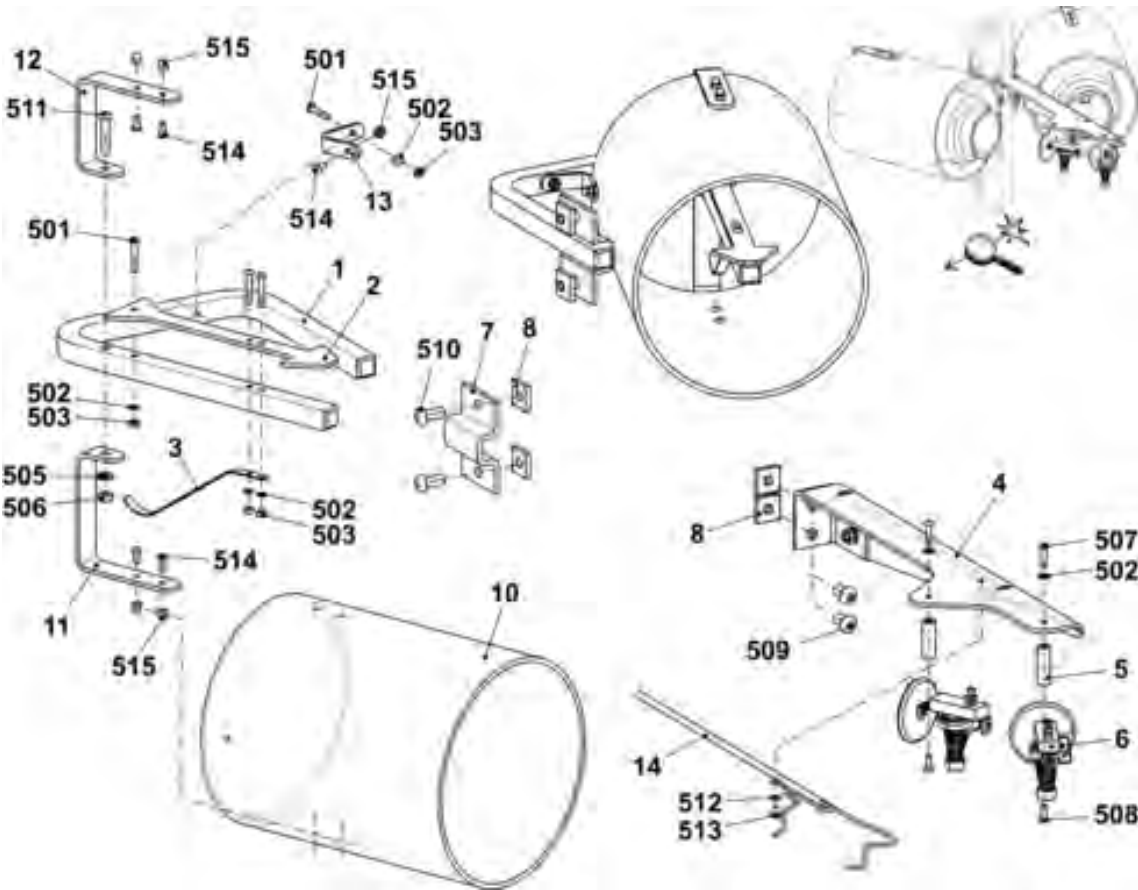
Pos	Designation	ID		Pos	Designation	ID
Σ	Bobbin holder on the left	253 965		501	Pan-head screwM4x25	023 511
1	Support	253 969		502	Washer4	022 481
2	Support	252 769		503	Hexagon nut M4-6	022 536
3	Leaf spring	253 350		505	Washer6	022 431
4	Support on the left	253 347		506	Hexagon nut M6-6	022 899
5	Spacer	253 349		507	Pan-head screwM4x16	023 412
6	Yarn detector Massardi	226 964		508	Pan-head screw M4x12	023 062
7	Clamp	228 583		509	Pan-head screwM8x16	023 113
8	Slot nut	228 851		510	Pan-head screwM8x18	251 331
10	Cover	253 968		511	Pan-head screwM6x30	023 451
11	Holding angle	253 964		512	Serrated lock washer A4,3	022 482
12	Holding angle	253 963		513	Pan-head screwM4x6	022 946
13	Holding angle	253 967		514	Pan-head screwM4x10	023 450
14	Cable plating	253 468		515	Cap nut M4-6	253 805



16.7 Bobbin holder on the right

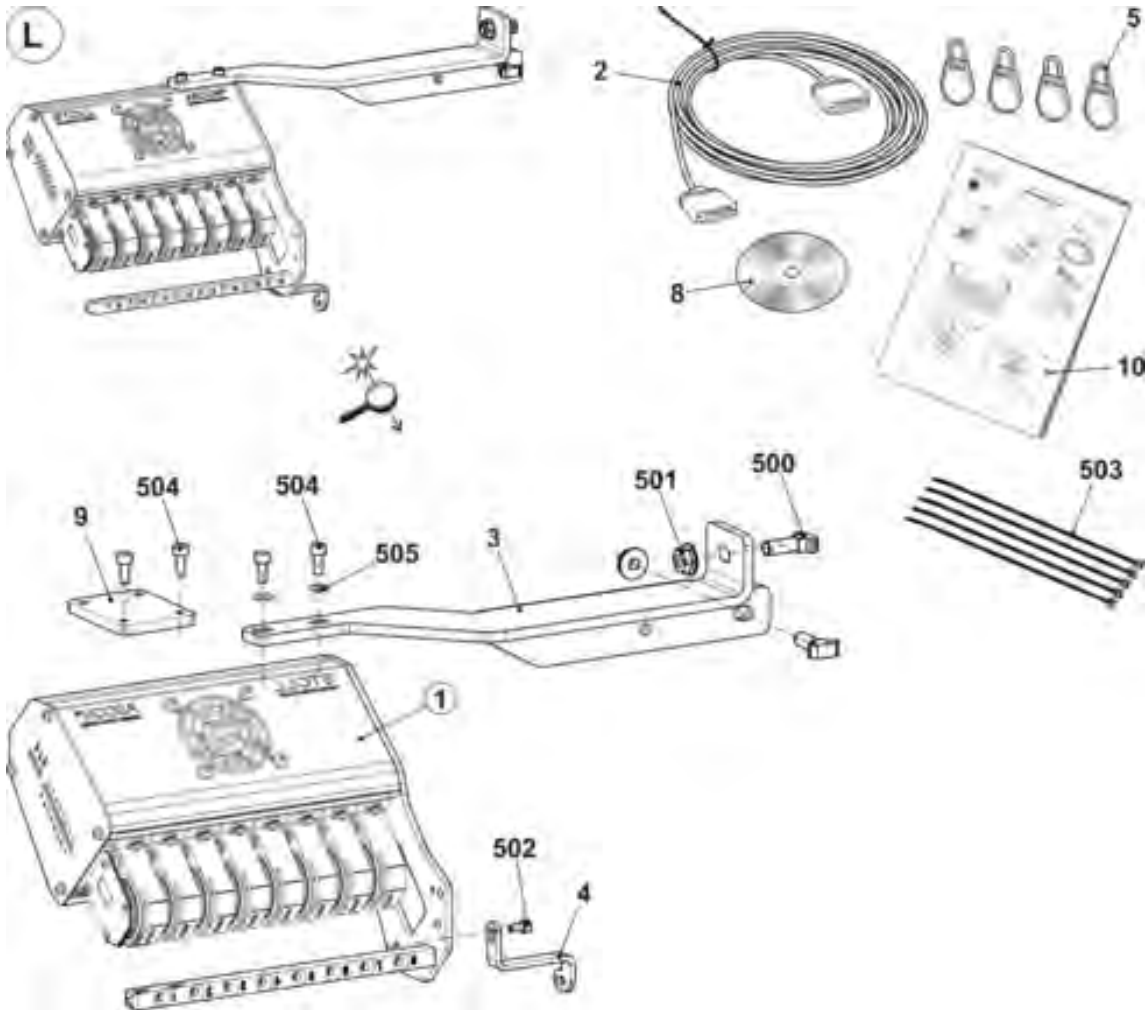
16.7 Bobbin holder on the right

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



16.8 Yarn length measuring device on the left complete

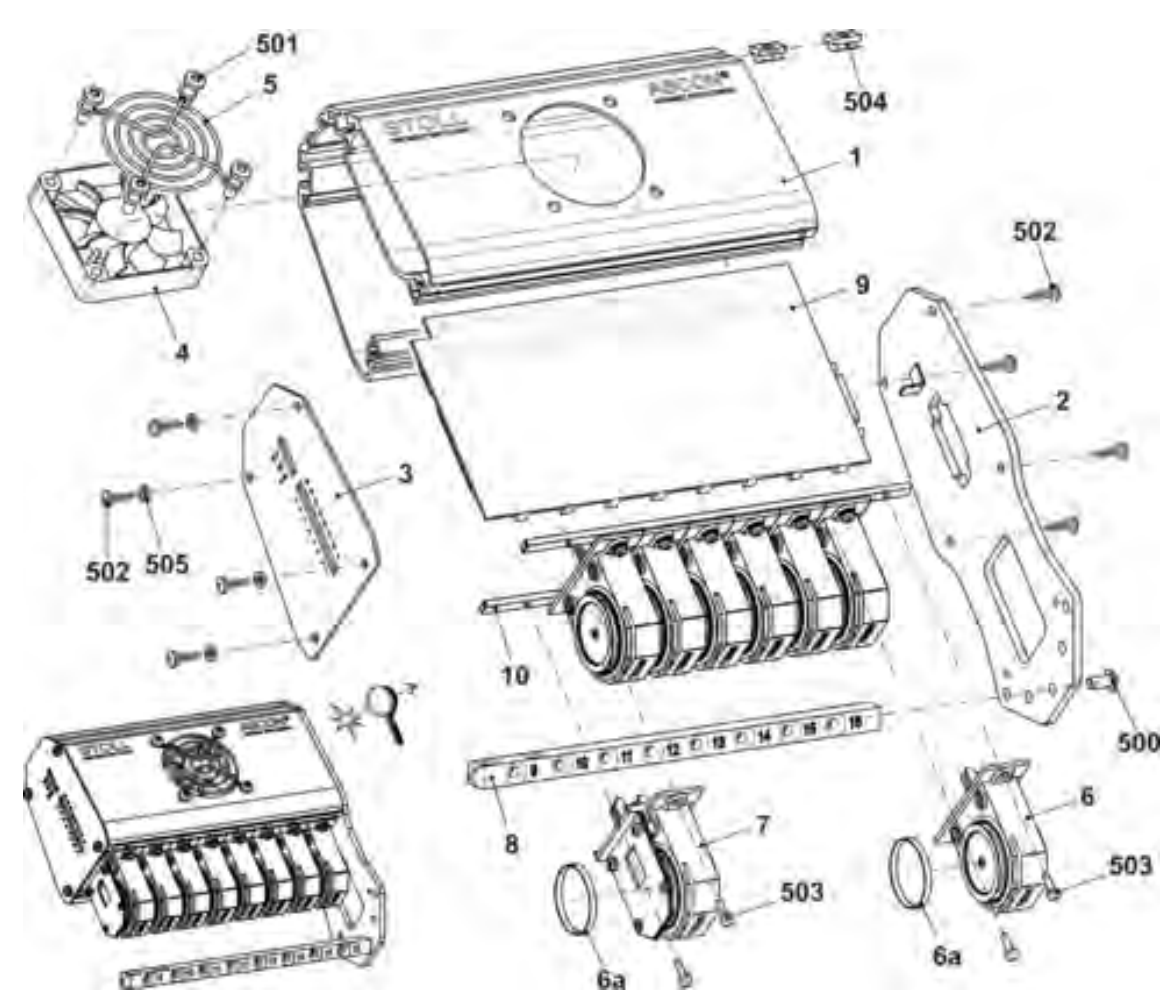
Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn length measuring device on the left complete	257 600				
1	Yarn length measuring device on the left complete	257 283		10	Operating instructions of ASCON assembly	259 381
2	Cable ASCON	257 239		500	T-head bolt M8x25	022 866
3	Support on the left	257 122		501	Serrated nut M8-10	023 026
4	Connecting lug on the left	257 137		502	Cap screw M4x8	022 501
5	Adjustment weight	212 241		503	Cable tape 302x4,8	008 642
8	DVD with operating instructions	258 391		504	Cap screw M5x12	020 132
9	Holding plate	258 386		505	Washer5	020 871



16.8 Yarn length measuring device on the left complete

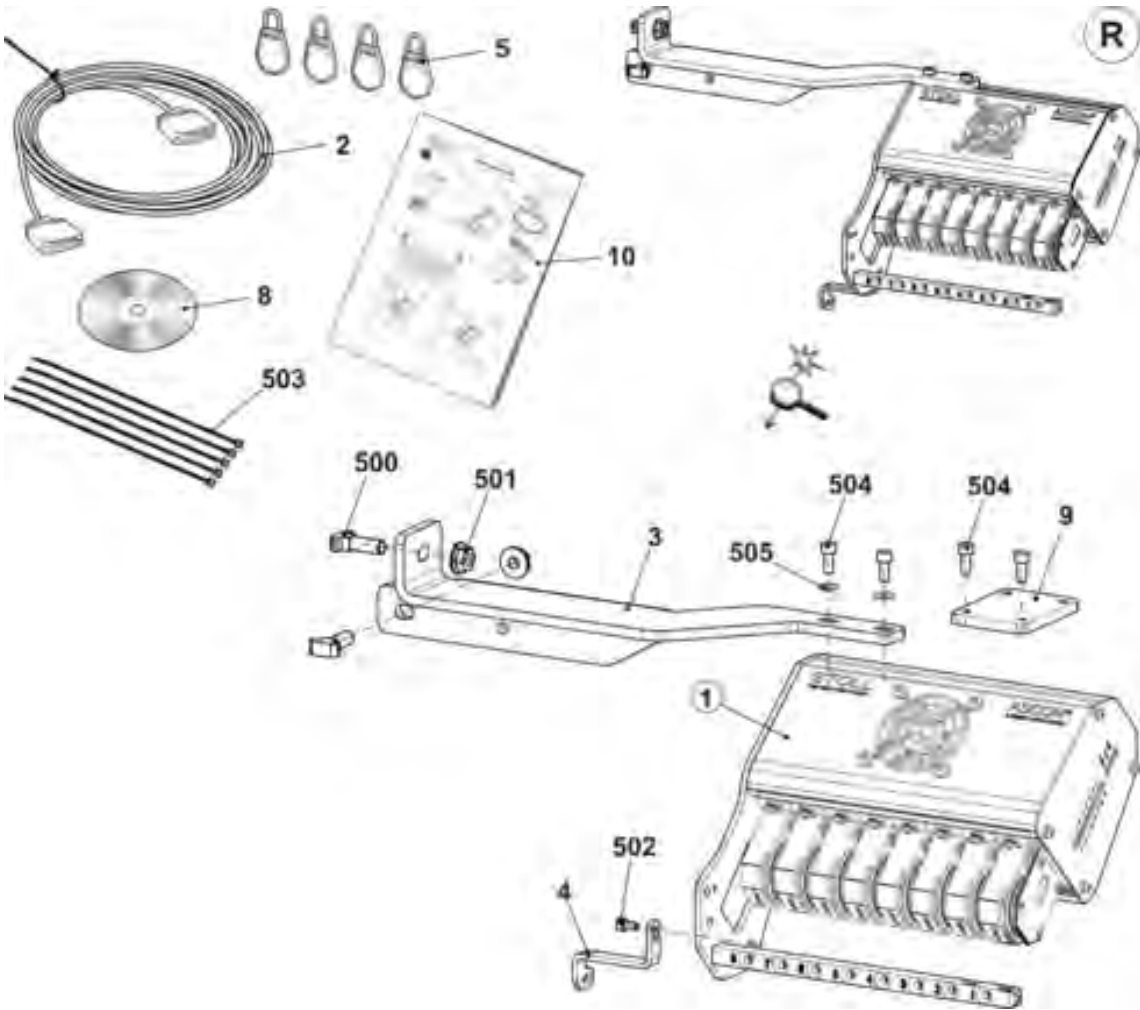
16.8.1 Yarn length measuring device

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



16.9 Yarn length measuring device on the right complete

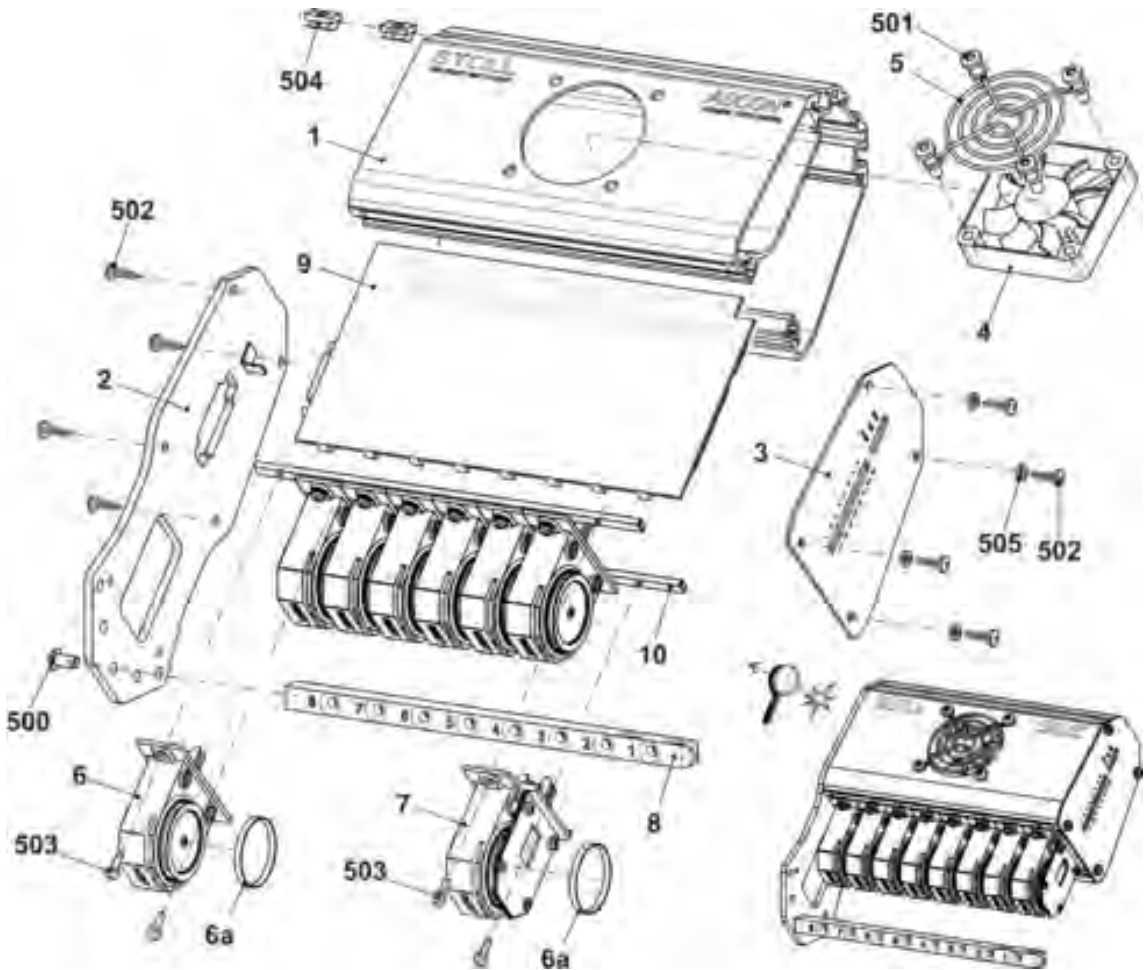
Pos	Designation	Id		Pos	Designation	Id
Σ	Yarn length measuring device on the right complete	257 599				
1	Yarn length measuring device on the right complete	257 282		6	Operating instructions of ASCON assembly	259 381
2	Cable ASCON	257 239		500	T-head bolt M8x25	022 866
3	Support right	257 121		501	Serrated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



16.9 Yarn length measuring device on the right complete

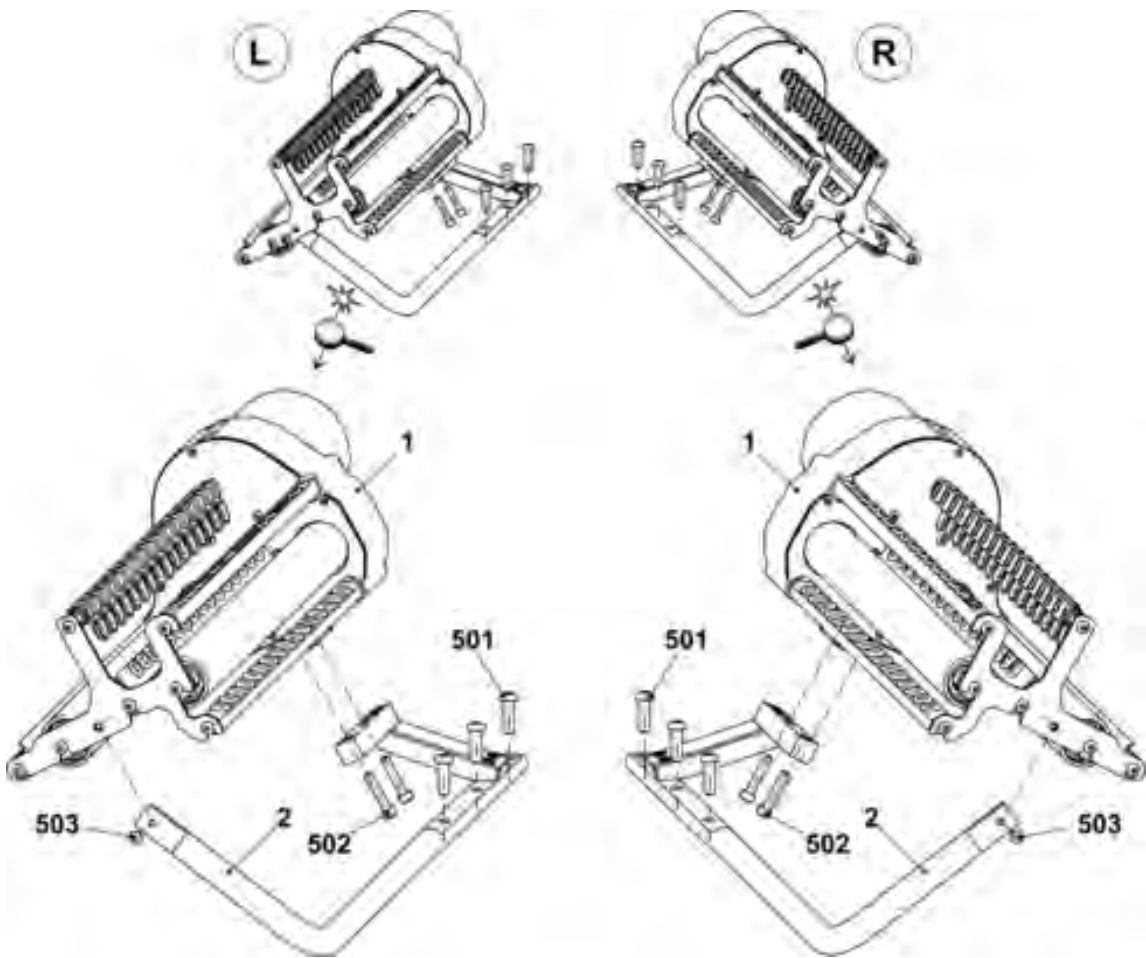
16.9.1 Yarn length measuring device on the right

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



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

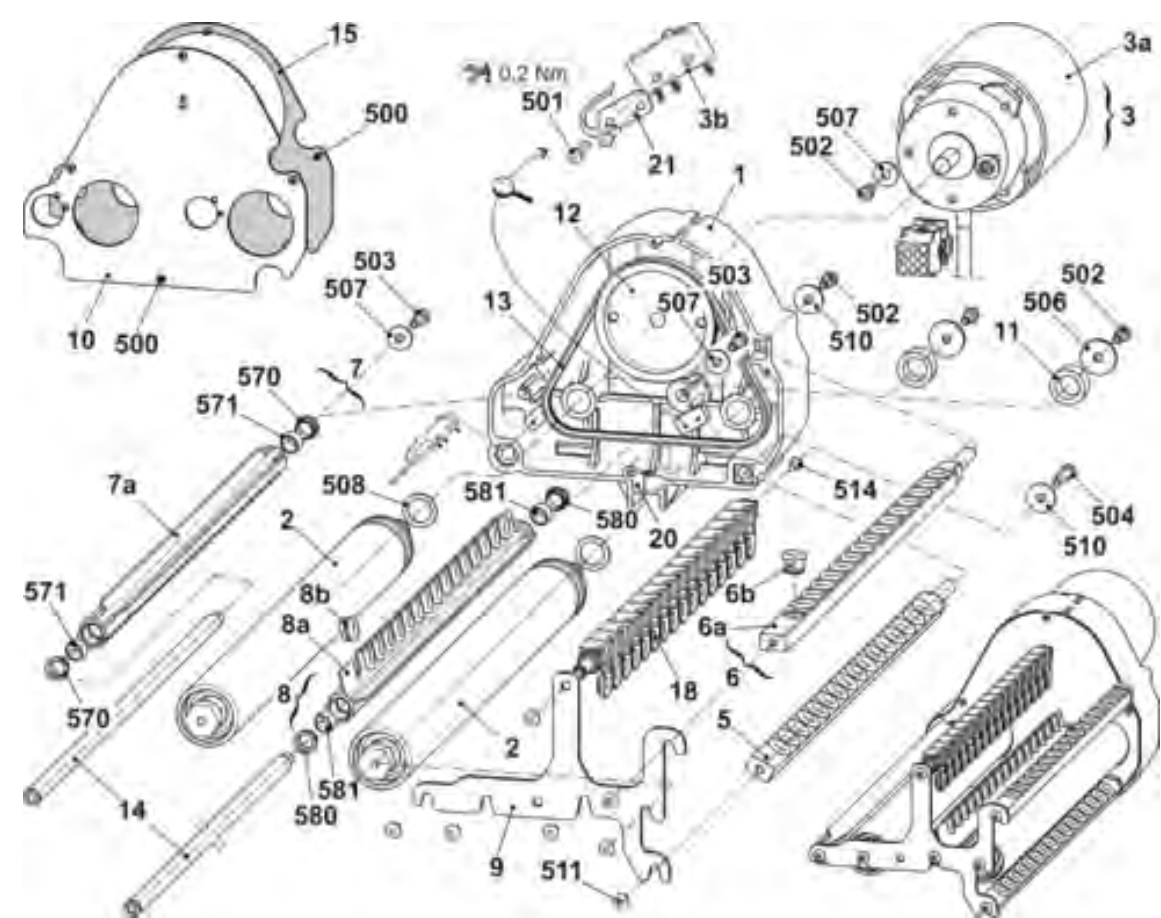
Pos	Designation	ID		Pos	Designation	ID
ΣL	Friction feed wheel 16 fold on the left complete			ΣR	Friction feed wheel 16 fold on the right complete	
1	Friction feed wheel on the left	244 185		1	Friction feed wheel on the right	244 186
2	Support on the left	243 869		2	Support right	244 142
501	Pan-head screw M8x25	023 027		501	Pan-head screw M8x25	023 027
502	Cap screw M6x30	020 138		502	Cap screw M6x30	020 138
503	Pan-head screw M5x8	239 408		503	Pan-head screw M5x8	239 408



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

16.10.1 Friction feed wheel on the left

Pos	Designation	ID		Pos	Designation	ID
Σ	Friction feed wheel 16 fold on the left complete	244 185		10	Cover	251 098
1	Housing	240 368		11	Bush	221 391
2	Friction roller complete	243 860		12	V-ribbed belt pulley	221 268
3	Three-phase AC motor 3x42V complete	219 800		13	Ribbed V-belt	206 927
	3a	Three-phase AC motor	220 161	14	Rod	243 868
	3b	Microswitch	008 664	15	Cover	230 758
5	Yarn guide rod 16-fold complete	244 576		18	Deflector complete 16-fold	250 102
6	Yarn guide rod 16-fold complete	244 578		19	Protective plate	251 096
	6a	Yarn guide rod 16-fold	244 577	500	Screw KB30x8	236 228
	6b	Ceramic eyelet	240 640	501	Screw M20x10	244 736
7	Stop motion rail on the right complete	243 863		502	Cap screw M5x12	020 132
	7a	Stop motion rail on the right	243 864	503	Cap screw M5x16	022 726
	570	Slide bearing GFM-101214-07	023 627	504	Cap screw M5x25	023 523
	571	O-ring 10x1,3	244 895	506	Washer5,3x22x2,5	023 219
8	Stop motion rail on the left complete	243 865		507	Washer5	020 901
	8a	Stop motion rail on the left	243 866	508	Shim ring 15x21x1	023 216
	8b	Eyelet	230 662	510	Washer5	023 542
	580	Slide bearing GFM-101214-07	023 627	511	Pan-head screw M5x8	239 408
	581	O-ring 10x1,3	244 895	512	Pan-head screw M4x5	239 549
9	Bracket	251 113		513	Pan-head screw M4x10	023 450



16.10.2 Friction feed wheel on the right

Pos	Designation		ID		Pos	Designation		ID
Σ	Friction feed wheel 16 fold on the right complete		244 186		10	Cover		251 098
1	Housing		240 368		11	Bush		221 391
2	Friction roller complete		243 860		12	V-ribbed belt pulley		221 268
3	Three-phase AC motor 3x42V complete		219 800		13	Ribbed V-belt		206 927
	3a	Three-phase AC motor	220 161		14	Rod		243 868
	3b	Microswitch	008 664		15	Cover		230 758
5	Yarn guide rod 16-fold complete		244 772		18	Deflector complete 16-fold		250 102
6	Yarn guide rod 16-fold complete		244 578		19	Protective plate		251 096
	6a	Yarn guide rod 16-fold	244 577		500	Screw KB30x8		236 228
	6b	Ceramic eyelet	240 640		501	Screw M20x10		244 736
7	Stop motion rail on the right complete		243 863		502	Cap screw M5x12		020 132
	7a	Stop motion rail on the right	243 864		503	Cap screw M5x16		022 726
	570	Slide bearing GFM-101214-07	023 627		504	Cap screw M5x25		023 523
	571	O-ring 10x1,3	244 895		506	Washer5,3x22x2,5		023 219
8	Stop motion rail on the right complete		244 530		507	Washer5		020 901
	8a	Stop motion rail on the right	244 531		508	Shim ring 15x21x1		023 216
	8b	Eyelet	230 662		510	Washer5		023 542
	580	Slide bearing GFM-101214-07	023 627		511	Pan-head screw M5x8		239 408
	581	O-ring 10x1,3	244 895		512	Pan-head screw M4x5		239 549
9	Bracket		251 113		513	Pan-head screw M4x10		023 450

