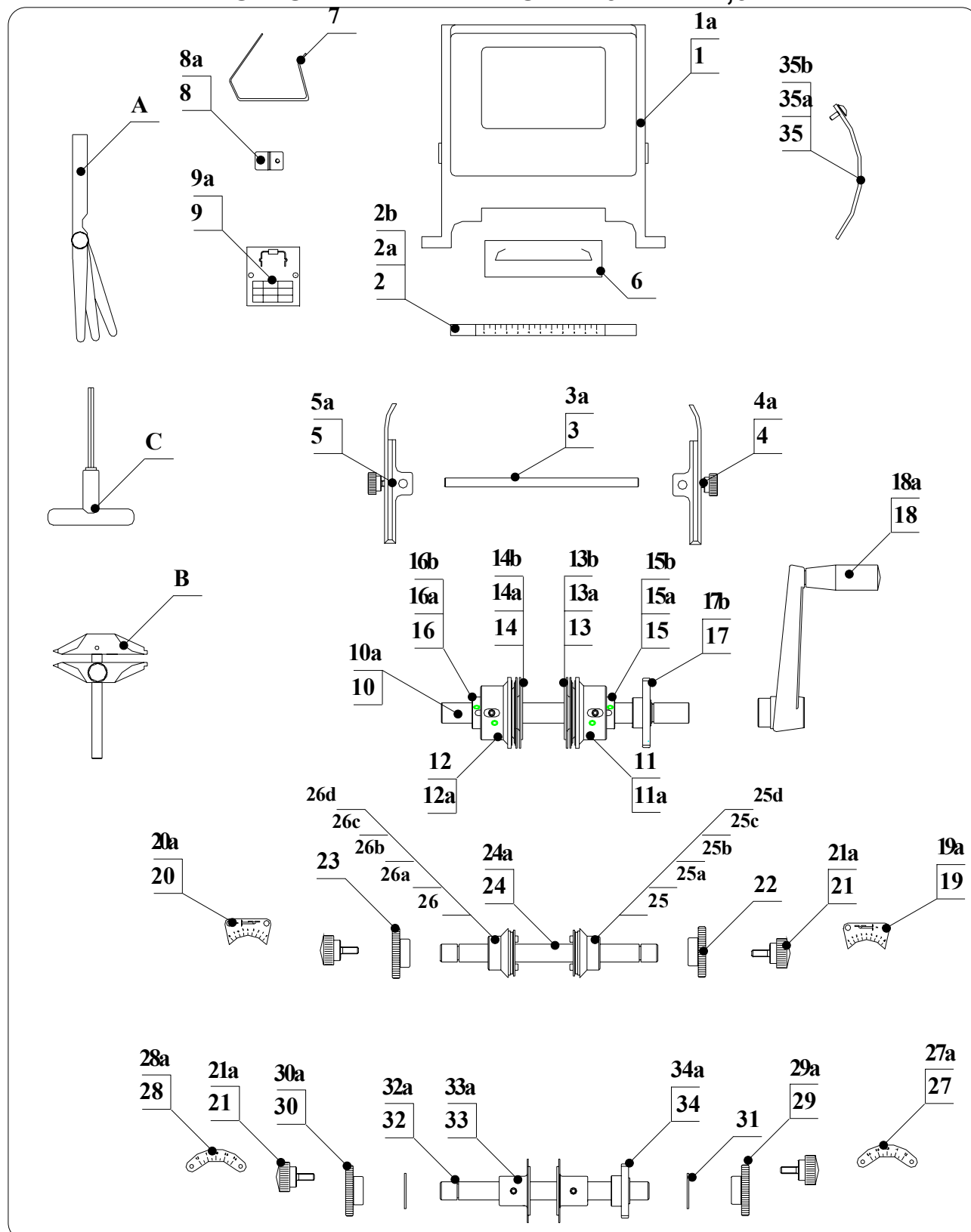


- 11 - SPARE PARTS

11.1 WARNING FOR THE CUSTOMER

Before ordering any particular spare part, it is always necessary to specify the serial number of the machine to which the part shall fit.

11.2 DETAILED DRAWING OF 40.OL21 TP6/PR-B/1 MAN. CUTTING BENDING FORM.MACH.AX.COM.Z=3.1 D.1-1,3



11.2.1 READING KEY FOR DETAILED DRAWING OF 40.OL21 TP6/PR-B/1 MAN. CUTTING BENDING FORM.MACH.AX.COM.Z=3.1 D.1-1,3

POS.	ITEM	DESCRIPTION	Q.TY
1	400101OL	MACHINE BODY TP6/PR-B	1
1a	400111	CENTRAL BUSHING F18/22/12 FOR MAIN SHAFT	2
2	400108	CENTERING SCALE	1
2a	400115	CS SCREW M3X16	2
2b	950704	NUT M3	2
3	400207	GUIDE HOLDING SHAFT	1
3a	750301	CS SCREW M5X12	1
4	400208	RIGHT TAPE GUIDE FOR TP6/PR-B	1
4a	400210	KNOB M5X16	1
5	400209	LEFT TAPE GUIDE FOR TP6/PR-B	1
5a	400210	KNOB M5X16	1
6	400801	PART BIN	1
7	400113	COMPONENT UNLOADER	1
8	400112	COMPONENT UNLOADER HOLDER	1
8a	400117	SCREW TCEI M4X10	2
9	400106	MIN-MAX DIAM. REF. PLATE	1
9a	600050	SCREW TBEI M4X6	2
10	400401	MAIN SHAFT	1
10a	400415	CLIP RS 15 DIN 6799	1
11	400409	RIGHT OUTER TOOTHED DISC 3.1	1
11a	400413	SCREW PPM6X5	1
12	400403	LEFT OUTER TOOTHED DISC 3.1	1
12a	400413	SCREW PPM6X5	1
13	400408	RIGHT CENTRAL TOOTHED DISC	1
13a	400413	SCREW PPM6X5	1
13b	400412	PARALLEL PIND. 5X6	1
14	400405	LEFT CENTRAL TOOTHED DISC	1
14a	400413	SCREW PPM6X5	1
14b	400412	PARALLEL PIND. 5X6	1
15	400130	RIGHT INNER TOOTHED DISC	1
15a	400304	SCREW PT M6X8	1
15b	770055	PARALLEL PIND. 5X8	1
16	400131	LEFT INNER TOOTHED DISC	1
16a	400304	SCREW PT M6X8	1
16b	770055	PARALLEL PIND. 5X8	1
17	400303	GEAR Z39 FOR MAIN SHAFT	1
17a	400304	SCREW PT M6X8	1
18	400301	HAND CRANK	1
18a	400305	SCREW PPM6X10	1
19	400104	RIGHT ECCENTRIC SCALE/PREF. REF.	1
19a	600050	VITE TBEI M4X6	2
20	400105	LEFT ECCENTRIC SCALE/PREF. REF.	1
20a	600050	SCREW TBEI M4X6	2
21	400501	KNOB M6X16	4
21a	750505	BLUED WASHER HOLE D. 6	4
22	400511	RIGHT ECCENTRIC BUSHING/PREF. FORM ADJ.	1
23	400502	LEFT ECCENTRIC BUSHING/PREF. FORM ADJ.	1
24	400504	CUTTING SHAFT	1
24a	400503	CLIP RS 12 DIN 6799	2
25	400340	COMPLETE RIGHT CUTTING AND FORMING ASSEMBLY 3.1 PR-B (note)	1
25a	400505	CUTTING WHEEL BODY	1
25b	400509	TOOTHED PREFORMING DISC 3,1 TP6/PR-B	1
25c	400508	PREFORMING WHEEL	1
25d	400341	SCREW TCEI M3X10	3

POS.	ITEM	DESCRIPTION	Q.TY
26	400350	COMPLETE LEFT CUTTING AND FORMING ASSEMBLY 3.1 PR-B (note)	1
26a	400505	CUTTING WHEEL BODY	1
26b	400506	LEFT TOOTHED PREFORMING DISC 3,1 FOR TP6/PR-B	1
26c	400508	PREFORMING WHEEL	1
26d	400341	SCREW TCEI M3X10	3
27	400102	RIGHT ECCENTRIC SCALE/LEAD REF.	1
27a	600050	SCREW TBEI M4X6	2
28	400103	LEFT ECCENTRIC SCALE/LEAD	1
28a	600050	SCREW TBEI M4X6	2
29	400703	RIGHT ECCENTRIC BUSHING/BENDING ADJ.	1
29a	400904	GLYCODUR BUSHING TFP D1=16	1
30	400704	LEFT ECCENTRIC BUSHING/BENDING ADJ.	1
30a	400904	GLYCODUR BUSHING TFP D1=16	1
31	420032	THRUST-BLOCK Ø 16- Ø30	2
32	400712	NEW BENDING SHAFT	1
32a	400503	CLIP RS12 DIN 6799	1
33	400702	BENDING WHEEL	2
33a	400304	SCREW PT M6X8	2
34	400306	GEAR Z31 FOR BENDING SHAFT	1
34a	400304	SCREW PT M6X8	1
35	400110	SAFETY COVER	1
35a	400109	SAFETY COVER PIN	2

ADJUSTMENTS TOOLSET

A	400805	THICKNESS GAUGE/BENDING WHEEL ADJ.	1
B	400901	CALIPER TP6/PITCH REF. LEAD 1/1,4mm	1
C	400804	ALLEN KEY mm. 3	1

ANOTHER VERSIONS

TP6 PR-B cod. 40.OL31 TP6/PR-B/11 MAN.CUTTING BENDING FORM.MACH. AX.COMP. Z=3.9 D.1-1,3

11	400410	RIGHT OUTER TOOTHED DISC 3.9	1
12	400404	LEFT OUTER TOOTHED DISC 3.9	1
25	400360	RIGHT CUTTING AND FORMING WHEEL COMPLETE ASSEMBLY TP6/PR-B 3.9	1
25a	400505	CUTTING WHEEL BODY	1
25b	400510	RIGHT TOOTHED PREFORMING DISC 3,9 TP6/PR-B	1
25c	400508	PREFORMING WHEEL	1
25d	400512	CAPSCREW M3X12	3
26	400370	LEFT CUTTING AND FORMING WHEEL COMPLETE ASSEMBLY TP6/PR-B 3.9	1
26a	400505	CUTTING WHEEL BODY	1
26b	400507	LEFT TOOTHED PREFORMING DISC 3,9 FOR TP6/PR-B	1
26c	400508	PREFORMING WHEEL	1
26d	400512	CAPSCREW M3X12	3

TP6 PR-B cod. 40.OL24 TP6/PR-B/4 MAN.CUTTING BENDING FORM.MAC.AX.COMPS. Z=5 D.1-1,3

11	400421	RIGHT OUTER TOOTHED DISC Z=5	1
12	400422	LEFT OUTER TOOTHED DISC Z=5	1
25	400380		1
25a	400505	CUTTING WHEEL BODY	1
25b	400423	RIGHT TOOTHED PREFORMING DISC Z=5	1
25c	400508	PREFORMING WHEEL	1
25d	400512	CAPSCREW M3X12	3
26	400390		1
26a	400505	CUTTING WHEEL BODY	1
26b	400424	LEFT TOOTHED PREFORMING DISC	1
26c	400508	PREFORMING WHEEL	1
26d	400512	CAPSCREW M3X12	3

TP6 PR-B cod. 40.OL22 TP6/PR-B/2 PREFORMING Z= 3,1 WITH REINFORCED BEND.WHEEL D.1-1,4

POS.	ITEM	DESCRIPTION	Q.TY
11	400409	RIGHT OUTER TOOTHED DISC 3.1	1
12	400403	LEFT OUTER TOOTHED DISC 3.1	1
15	400136	RIGHT INNER TOOTHED DISC*REINFORCED*	1
16	400135	LEFT INNER TOOTHED DISC*REINFORCED*	1
25	400340	COMPLETE RIGHT CUTTING AND FORMING ASSEMBLY 3.1 PR-B (note)	1
25a	400505	CUTTING WHEEL BODY	1
25b	400509	RIGHT TOOTHED PREFORMING DISC	1
25c	400508	PREFORMING WHEEL	1
25d	400341	SCREW TCEI M3X10	3
26	400350	COMPLETE LEFT CUTTING AND FORMING ASSEMBLY 3.1 PR-B (note)	1
26a	400505	CUTTING WHEEL BODY	1
26b	400506	LEFT TOOTHED PREFORMING DISC 31,00	1
26c	400508	PREFORMING WHEEL	1
26d	400341	SCREW TCEI M3X10	3
33	400711	EXTRA REINFORCED BENDING WHEEL	2

TP6 PR-B cod. 40.OL32 TP6/PR-B/12 PREFORMING Z= 3.9 WITH REINFORCED BEND.WHEEL D.1-1,4

11	400410	RIGHT OUTER TOOTHED DISC 3.9	1
12	400404	LEFT OUTER TOOTHED DISC 3.9	1
15	400135	RIGHT INNER TOOTHED DISC*REINFORCED*	1
16	400136	LEFT INNER TOOTHED DISC*REINFORCED*	1
25	400360	RIGHT CUTTING AND FORMING WHEEL COMPLETE ASSEMBLY TP6/PR-B 3.9	1
25a	400505	CUTTING WHEEL BODY	1
25b	400510	RIGHT TOOTHED PREFORMING DISC	1
25c	400508	PREFORMING WHEEL	1
25d	400512	CAPSCREW M3X12	3
26	400370	LEFT CUTTING AND FORMING WHEEL COMPLETE ASSEMBLY TP6/PR-B 3.9	1
26a	400505	CUTTING WHEEL BODY	1
26b	400507	LEFT TOOTHED PREFORMING DISC 39,00	1
26c	400508	PREFORMING WHEEL	1
26d	400512	CAPSCREW M3X12	3
33	400711	EXTRA REINFORCED BENDING WHEEL	2

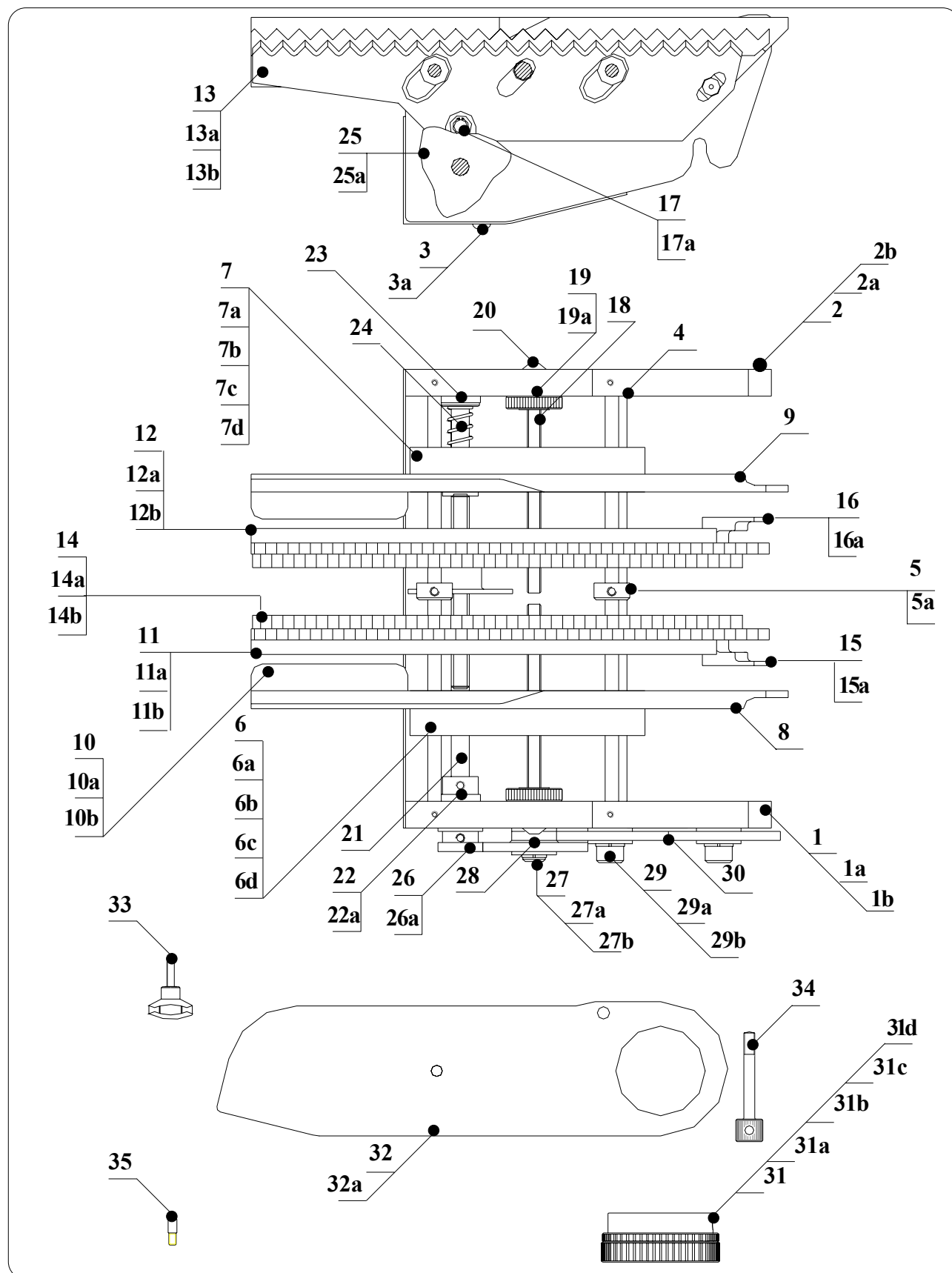
TP6 PR-B cod. 40.OL25 TP6/PR-B/5 PREFORMING Z=5 WITH REINFORCED BEND.WHEEL D. 1-1,4

11	400421	RIGHT OUTER TOOTHED DISC Z=5	1
12	400422	LEFT OUTER TOOTHED DISC Z=5	1
15	400135	RIGHT INNER TOOTHED DISC*REINFORCED*	1
16	400136	LEFT INNER TOOTHED DISC*REINFORCED*	1
25	400380	COMPLETE RIGHT CUTT/FORMING ASSEMBLY 5 TP6/PR-B	1
25a	400505	CUTTING WHEEL BODY	1
25b	400423	RIGHT TOOTHED PREFORMING DISC Z=5	1
25c	400508	PREFORMING WHEEL	1
25d	400512	CAPSCREW M3X12	3
26	400390	COMPLETE LEFT CUTT/FORMING ASSEMBLY 5 TP6/PR-B	1
26a	400505	CUTTING WHEEL BODY	1
26b	400424	LEFT TOOTHED PREFORMING DISC Z=5	1
26c	400508	PREFORMING WHEEL	1
26d	400512	CAPSCREW M3X12	3
33	400711	EXTRA REINFORCED BENDING WHEEL	2

SPECIAL PARTS

25a-26a	400709	ONLY CUTTING WHEEL	2
33	400707	REINFORCED BENDING WHEELS	2

11.3 DETAILED DRAWING OF 51.0100 CS10 FEEDER FOR LOOSE COMPONENTS FOR TP6*PR-B*TP6/S* MACHINE



11.3.1 READING KEY FOR DETAILED DRAWING OF 51.0100 CS10 FEEDER FOR LOOSE COMPONENTS FOR TP6*PR-B*TP6/S* MACHINE

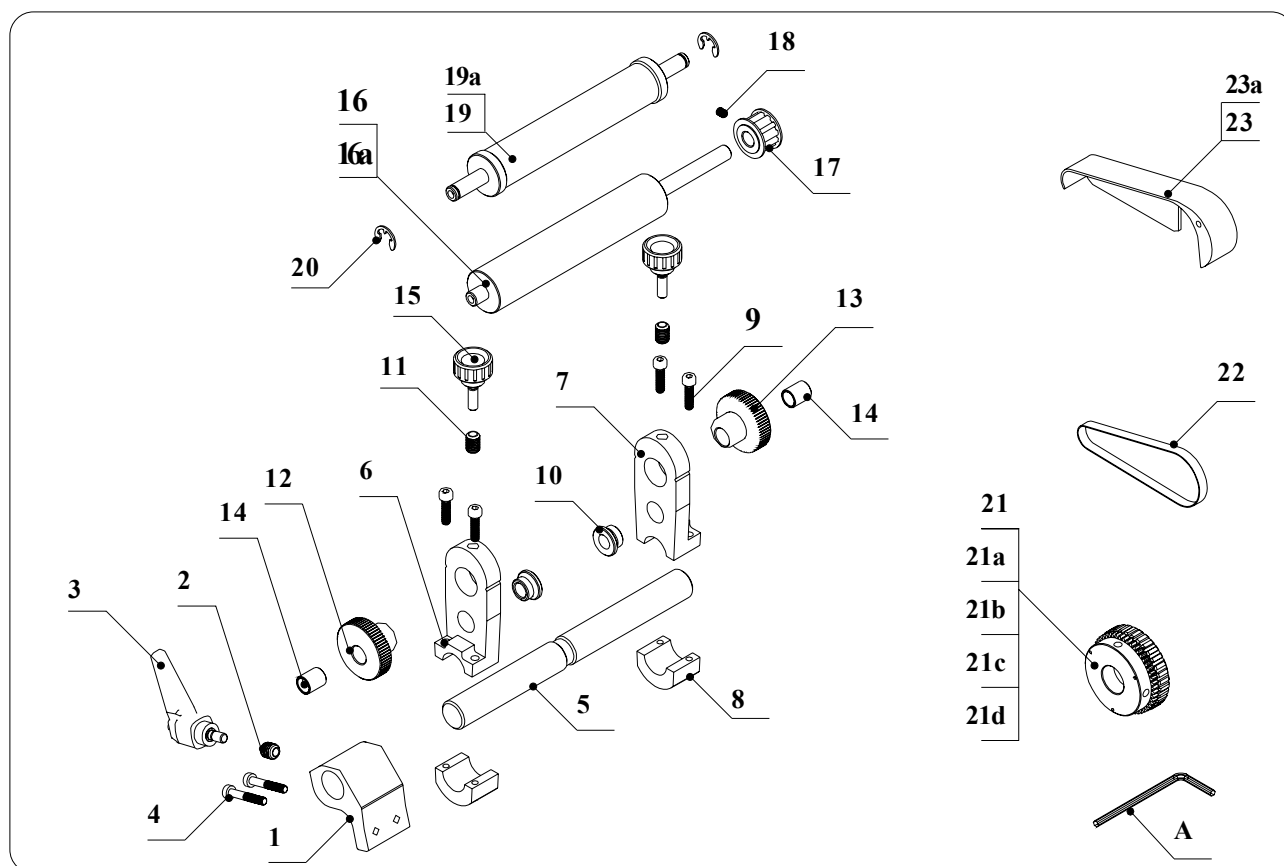
POS.	ITEM	DESCRIPTION	Q.TY
1	510001	COMPLETE RIGHT SIDE HOLDER	1
1A	510017	BUSHING F8/14/14 C 3	1
1B	500065	SCREW PCO M 4X5 UNBRAKO	3
2	510015	COMPLETE LEFT SIDE HOLDER	1
2A	510042	COLLARED BUSHING DIN 172	1
2B	500065	SCREW PCO M 4X5 UNBRAKO	3
3	510041	MAIN SHAFT PROTECTION	1
3A	500070	SCREW TBEI M 5X8	2
4	510043	SLIDING SHAFT	2
5	510052	RING	2
5A	510059	SCREW M 4X3	2
6	510018	RIGHT COMPONENT GUIDE BODY	1
6A	510023	SCISSOR SPRING	2
6B	600026	BLUED NUT M 5	2
6C	400017	SCREW TCEI M 4X10 UNBRAKO	1
6D	600027	SCREW TCEI M 4X15 UNBRAKO	1
7	510019	LEFTT COMPONENT GUIDE BODY	1
7A	510023	SCISSOR SPRING	2
7B	600026	BLUED NUT M 5	2
7C	400017	SCREW TCEI M 4X10 UNBRAKO	1
7D	600027	SCREW TCEI M 4X15 UNBRAKO	1
8	510035	RIGHT COMPONENT GUIDE	1
9	510034	LEFT COMPONENT GUIDE	1
10	510020	TAB FOR LOADING AREA	2
10A	600050	SCREW TBEI M 4X6	4
10B	950308	WASHER D4	4
11	510010	RIGHT STATIONARY STAIR	1
11A	500018	WASHER PP M 4X4 UNBRAKO	2
11B	900003	THREADED ENSAT BUSHING M 9/ M 6X12	1
12	510014	LEFT STATIONARY STAIR	1
12A	500018	SCREW PP M 4X4 UNBRAKO	2
12B	900003	THREADED ENSAT BUSHING M 9/ M 6X12	1
13	510011	RIGHT MOVING STAIR	1
13A	510042	COLLARED BUSHING DIN 172	2
13B	510053	NEEDLE BEARING FOR LIFTING PIN SKF HK0609	1
14	510013	LEFT MOVING STAIRS	1
14A	510042	COLLARED BUSHING DIN 172	2
14B	510053	NEEDLE BEARING FOR LIFTING PIN SKF HK0609	1
15	500042	RIGHT MOVING TAB	1
15A	500066	SCREW TC M 5X8 REDUCED UNBRAKO	1

POS.	ITEM	DESCRIPTION	Q.TY
16	500045	LEFT MOVING TAB	1
16A	500066	SCREW TC M 5X8 REDUCED UNBRAKO	1
17	500050	LIFTING PIN	1
17A	500026	STOP CLIP Ø 6	2
18	510008	M6 THREADED SHAFT L/R STAIRS/COMP.LENGTH	2
19	500039	KNURLED WHEEL DIN 467 M 6-A	2
19A	510049	SCREW PCO M 4X8	2
20	510037	NUT M6	2
21	510009	MAIN SHAFT CAM HOLDER	1
22	510033	FIXING RING DIN 705	2
22A	500065	SCREW PCO M 4X5 UNBRAKO	2
23	510038	BREACH WASHER	3
24	510032	SPRING D12210 Ø 8.2 L=29.5	1
25	510012	MOTION CAM	1
25A	850510	SCREW PP M 4X6	2
26	510007	GEAR Z 20 M1	1
26A	500018	SCREW PP M 4X4 UNBRAKO	1
27	510004	PIN FOR FREE GEAR	1
27A	400214	SCREW TSEI M 5X16 UNBRAKO	1
27B	770069	RADIAL CLIP RS 7 DIN 6799	1
28	510006	GEAR Z 48/20 M1	1
29	510003	PIN FOR FREE GEAR	2
29A	400214	SCREW TSEI M 5X16 UNBRAKO	2
29B	510058	RADIAL CLIP RS 9 DIN 6799	2
30	510005	GEAR Z 50 M1	2
31	510002	TOOTHED DISC	1
31A	510056	TOOTHED PULLEY Z33 XL 037	1
31B	400512	SCREW TCEI M 3X12 UNBRAKO	3
31C	510057	GEAR Z50 M120D	1
31D	210119	SCREW PP M 6X12	2
32	510016	SAFETY COVER	1
32A	500070	SCREW TBEI M 5X8	2
33	510040	LEFT T KNOB	1
34	510054	RIGHT T KNOB	1
35	510036	CENTERING PIN Ø 6 X H 9	2

FOR 51.0300 CS30 FEEDER FOR LOOSE COMPONENTS FOR TP6/V

16	550002	LEFT MOVING TAB	1
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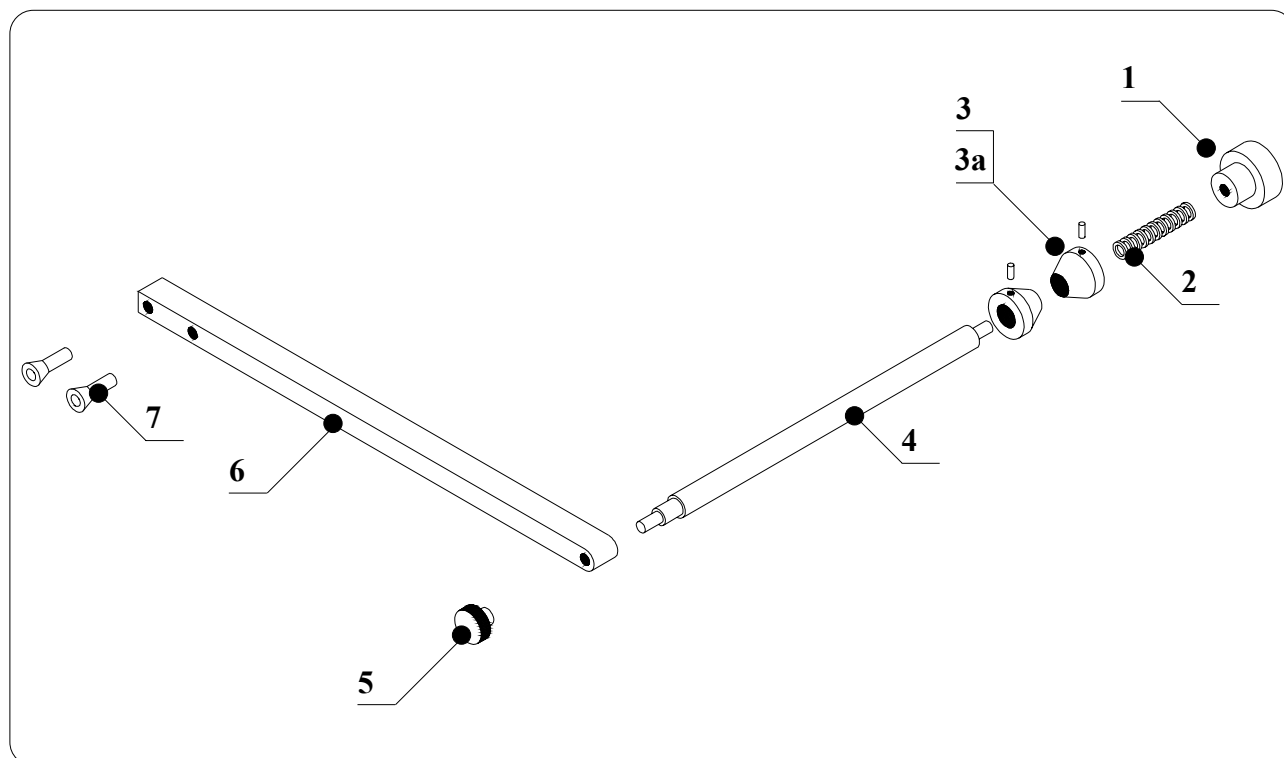
11.4 DETAILED DRAWING OF TNS/11 WASTE TAPE DRAWING ROLL SUITABLE 21.0011



11.4.1 READING KEY FOR DETAILED DRAWING OF TNS/11 WASTE TAPE DRAWING ROLL SUITABLE 21.0011

REF.	CODE	DESCRIPTION	Q.TY
1	210128	HOLDER FOR TNS SHAFT FOR TP6	1
2	740151	SELF LUBRICATING BUSHING M5 M8 X1 X7	1
3	850408	LOCKING HANDLE MR40 P M5 X10	1
4	210136	SCREW TCEI M4 X25	2
5	210129	TNS HOLDING SHAFT FOR TP6	1
6	210402	LEFT SIDE HOLDING LEVER	1
7	210410	RIGHT SIDE HOLDING LEVER	1
8	210401	FIXING RING FOR SIDE LEVER	2
9	930075	SCREW TCEI M4 X20	4
10	210102	BUSHING F08/12/08	2
11	400211	ENSAT BUSHING M5/M8 X10	2
12	210407	RIGHT ECCENTRIC	1
13	210408	LEFT ECCENTRIC	1
14	210409	GLYCODUR BUSHING Ø8 Ø10 h12	2
15	400210	KNOB M5 X16	2
16	210403	LOWER DRIVING SHAFT	1
16a	210406	LOWER ROLLER	1
17	500010	COMPLETE PULLEY Z11	1
18	500018	SCREW PP M4 X4 UNBRAKO	1
19	210404	UPPER SHAFT	1
19a	210405	UPPER ROLLER	1
20	500016	CLIP Ø8	2
21	510002	TOOTHED WHEEL FOR FEEDERS AND TNS	1
21a	510056	TOOTHED PULLEY Z33 XL037	1
21b	400512	TCEI SCREW M3 X12 UNBRAKO	3
21c	510057	GEAR Z50 M1 FOR CS10-CS30-TNS	1
21d	210119	SCREW PP M6 X12	2
22	550007	TOOTHED BELT 140 XL	1
23	210127	COMPLETE COVER FOR TNS FOR TP6	1
23a	210135	SCREW TBEI M5 X40	1
A	130080	CHIAVE A BRUGOLA 3mm	1

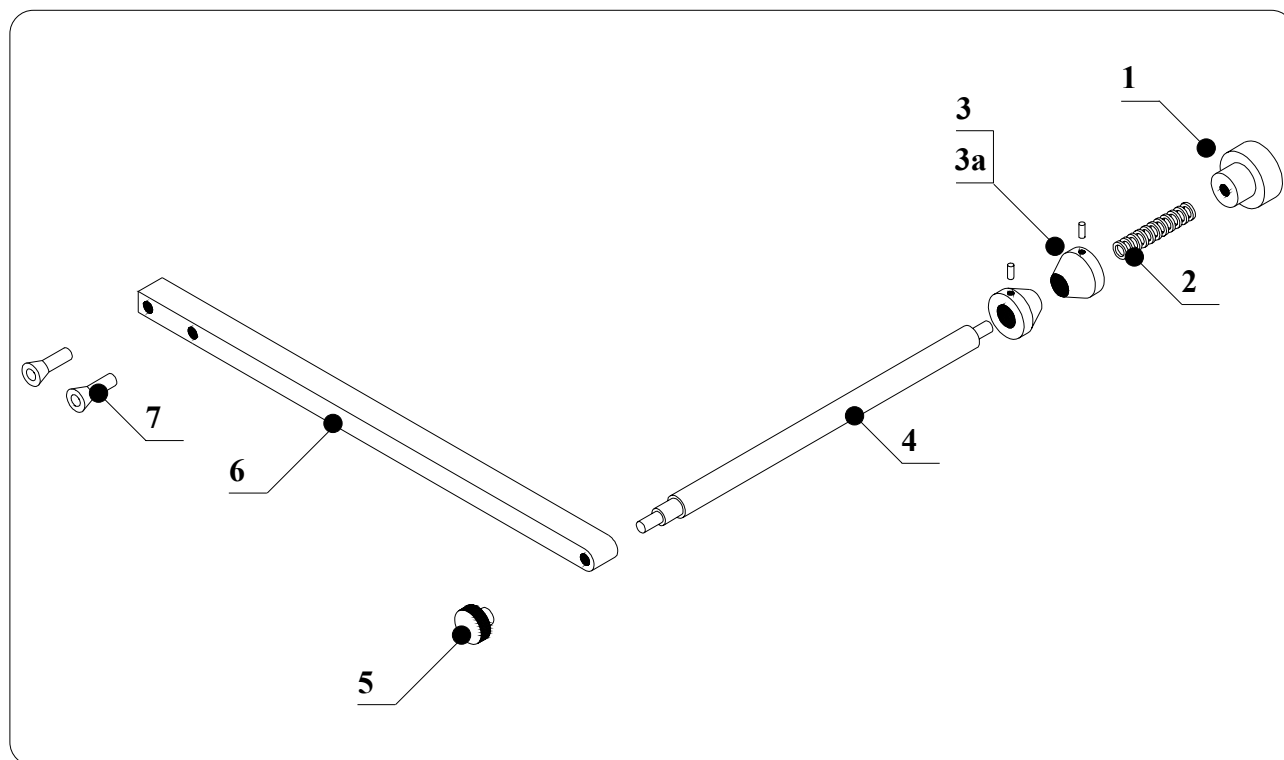
11.5 DETAILED DRAWING OF REEL HOLDER BR6 REEL HOLDER FOR TAPED COMPONENTS CODE 400200



11.5.1 READING KEY FOR DETAILED DRAWING OF BR6 REEL HOLDER FOR TAPED COMPONENTS CODE 400200

POS.	ITEM	DESCRIPTION	Q.TY
1	400206	KNOB M 12	1
2	400204	SPRING	1
3	400203	CENTERING CONE	2
3A	210119	SCREW PP M 6X12	2
4	400201	REEL HOLDER	1
5	400205	KNOB M 8	1
6	400202	BAR FOR REELHOLDER	1
7	400212	SCREW TSEI M 5X20	2

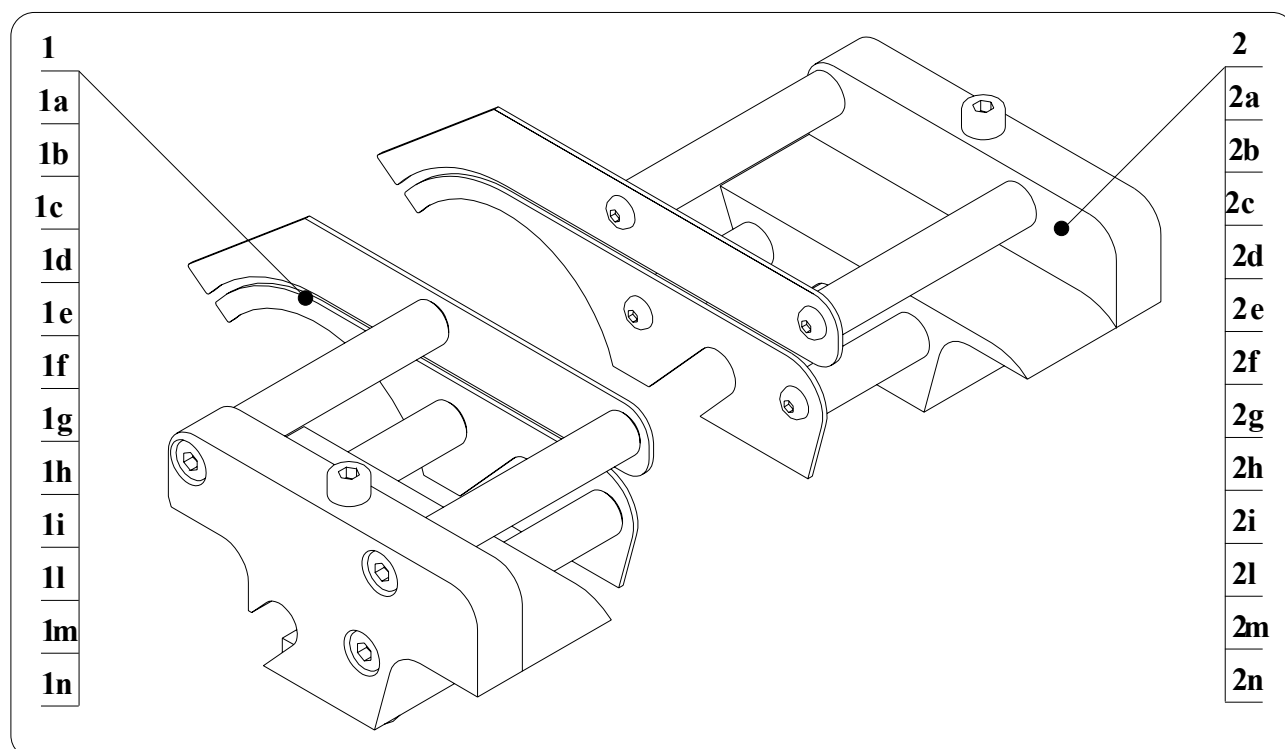
11.5 DETAILED DRAWING OF REEL HOLDER BR6 REEL HOLDER FOR TAPED COMPONENTS CODE 400200



11.5.1 READING KEY FOR DETAILED DRAWING OF BR6 REEL HOLDER FOR TAPED COMPONENTS CODE 400200

POS.	ITEM	DESCRIPTION	Q.TY
1	400206	KNOB M 12	1
2	400204	SPRING	1
3	400203	CENTERING CONE	2
3A	210119	SCREW PP M 6X12	2
4	400201	REEL HOLDER	1
5	400205	KNOB M 8	1
6	400202	BAR FOR REELHOLDER	1
7	400212	SCREW TSEI M 5X20	2

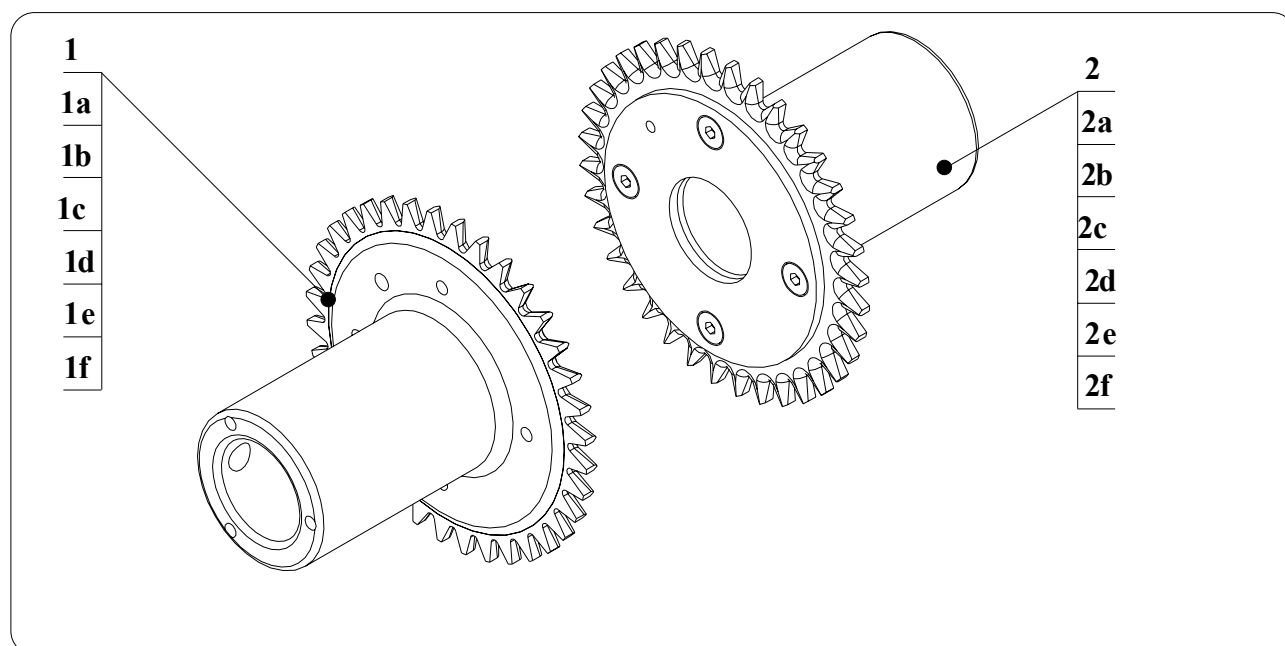
11.6 COMPONENT BODY GUIDE



11.6.1 READING KEY FOR DETAILED DRAWING COMPLETE COMPONENT BODY GUIDE cod. 200240

Pos.	Item	Description	Q.ty
1	200260	<u>LEFT COMPONENT GUIDE ASSEMBLY</u>	1
1a	200209	LEFT LOWER COMPONENTS GUIDE	1
1b	200210	GUIDA COMPONENTI SUPERIORE DX-SX	1
1c	750503INOX	LFT/RGT UPPER COMPONENTS GUIDE	4
1d	200252	UPPER SHAFT COMPONENT BODY GUIDE SUPPORT	2
1e	200253	LOWER SHAFT COMPONENT BODY GUIDE SUPPORT	2
1f	200261	LEFT GUIDE SUPPORT	1
1g	750107	SCREW TCEI M4X12	3
1h	930071	SCREW TCEI M4X30	1
1i	200211	LOCKING PIN	1
1l	760171	COMPRESSION SPRING 0,8X6,3 H=33 TC5	1
1m	150508	SCREW TCEI M4X35 UNBRAKO	1
1n	600050	SCREW TBEI M4X6	1
2	200250	<u>RIGHT COMPONENT GUIDE ASSEMBLY</u>	1
2a	200209	LEFT LOWER COMPONENTS GUIDE	1
2b	200210	GUIDA COMPONENTI SUPERIORE DX-SX	1
2c	750503INOX	LFT/RGT UPPER COMPONENTS GUIDE	4
2d	200252	UPPER SHAFT COMPONENT BODY GUIDE SUPPORT	2
2e	200253	LOWER SHAFT COMPONENT BODY GUIDE SUPPORT	2
2f	200251	RIGHT GUIDE SUPPORT	1
2g	750107	SCREW TCEI M4X12	3
2h	930071	SCREW TCEI M4X30	1
2i	200211	LOCKING PIN	1
2l	760171	COMPRESSION SPRING 0,8X6,3 H=33 TC5	1
2m	150508	SCREW TCEI M4X35 UNBRAKO	1
2n	600050	SCREW TBEI M4X6	1

11.7 DELRIN INNER TOOTHED DISC



11.7.1 READING KEY FOR DETAILED DRAWING OF DELRIN INNER TOOTHED DISC

POS.	ITEM	DESCRIPTION	Q.TY
1	<u>40040603</u>	<u>COMPLETE LEFT INNER TOOTHED DISC DELRIN</u>	<u>1</u>
1A	40040603A	LEFT HUB	1
1B	400304	SCREW PT M6X8	1
1C	770055	PARALLEL PIN D. 5X8	1
1D	40040603B	LEFT TOOTHED DELRIN WHEEL	1
1E	850412	CS SCREW M3X6	4
1F	400432	PARALLEL PIN D. 2X6	1
2	<u>40040703</u>	<u>COMPLETE RIGHT INNER TOOTHED DISC DELRIN</u>	<u>1</u>
2A	40040703A	RIGHT HUB	1
2B	400304	SCREW PT M6X8	1
2C	770055	PARALLEL PIN D. 5X8	1
2D	40040703B	RIGHT TOOTHED DELRIN WHEEL	1
2E	850412	CS SCREW M3X6	4
2F	400433	PARALLEL PIN D. 3X6	1

11.7.2 READING KEY FOR DETAILED DRAWING OF DELRIN INNER TOOTHED DISC EXTRA REINFORCED

1	<u>40042002</u>	<u>COMPLETE LEFT INNER TOOTHED DISC EXTRA REINFORCED IN DELRIN</u>	<u>1</u>
1a	40042002A	LEFT HUB FOR EXTRA REINFORCED DELRIN TOOTHED DISC	1
1b	400304	SCREW PT M6X8	1
1c	770055	PARALLEL PIN D. 5X8	1
1d	40042002B	LEFT TOOTHED DELRIN WHEEL FOR EXTRA REINFORCED TOOTHED DISC	1
1e	850412	CS SCREW M3X6	4
1f	400434	PARALLEL PIN D. 2X8	1
2	<u>40041901</u>	<u>COMPLETE RIGHT INNER TOOTHED DISC EXTRA REINFORCED IN DELRIN</u>	<u>1</u>
2a	40041901A	RIGHT HUB FOR EXTRA REINFORCED DELRIN TOOTHED DISC	1
2b	400304	SCREW PT M6X8	1
2c	770055	PARALLEL PIN D. 5X8	1
2d	40041901B	RIGHT TOOTHED DELRIN WHEEL FOR EXTRA REINFORCED TOOTHED DISC	1
2e	850412	CS SCREW M3X6	4
2f	160015	PARALLEL PIN D. 3x8	1