

SEITE

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BETRIEBSANLEITUNG
OPERATING INSTRUCTIONS
MODE D'EMPLOI
ISTRUZIONI PER L'USO

CM 61 DK / DA

Ab Serie-Nr. 2'000

From serie no 2'000

A partir du no de série 2'000

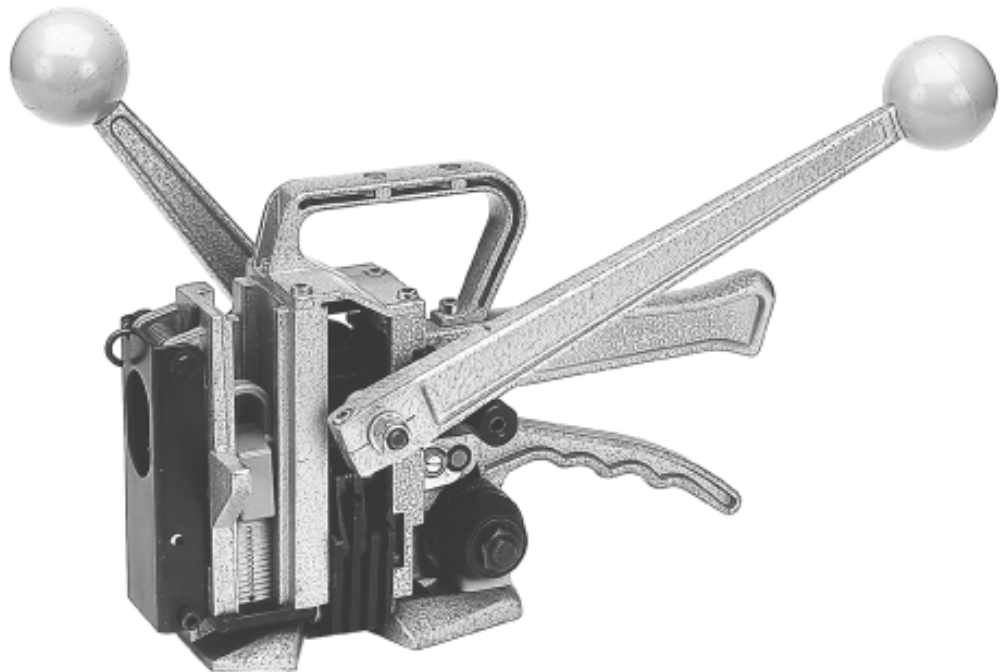
A partire dal no di serie 2'000

Handapparat zum Umreifen mit Kunststoffband

Hand tool for plastic strapping

Appareil pour le cerclage par bande plastique

Apparecchio per reggiare con reggetta di plastica



PACKAGING

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1

TECHNICAL DATA

Weight	4.1 kg (9 lbs)
Dimensions	L = 420 mm (16.5") W = 160 mm (6") H = 250 mm (10")
Strap tension	0–1800 N, fully variable
Sealing	with seals
Seal magazine	for 40 seals

PLASTIC STRAP

Strap quality	Polypropylene PP Polyester PET
Strap width	12–13, 16 mm ($\frac{1}{2}$ ", $\frac{5}{8}$ ")
Strap thickness	Polypropylene 0.50–0.70 mm (.020"–.028") Strap width 13 mm ($\frac{1}{2}$ "): 0.50–0.80 mm (.020"–.031") Polyester 0.50–0.70 mm (.020"–.028")

SEALS

Strap width 13 mm	CMP 464
Strap width 16 mm	CMP 564

2

GENERAL INFORMATION

These operating instructions are intended to simplify familiarisation with the strapping tool and the ways in which it may be used for the intended purpose. The operating instructions contain important information concerning the safe, proper and efficient use of the strapping tool. Compliance with the instructions will help to avoid danger, reduce repairs and stoppages and increase the reliability and service life of the strapping tool.

The operating instructions must always be available at the place of operation of the strapping tool. They must be read and observed by all persons concerned with work on the strapping tool. This work specifically includes operation, refilling of operating material, fault elimination and maintenance.

In addition to the operating instructions and the regulations for accident prevention effective in the country of use and place of application, the recognised technical regulations for safety and proper working must also be observed.



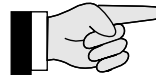
CAUTION!

Used where there is danger to life and health.



WARNING!

Used for danger which can cause material damage.



NOTE!

Used for general information and information which, if not followed, can cause faults in the operating sequence.

2.1 INFORMATION ON ENVIRONMENTAL PROTECTION

This tool is manufactured without any physical or chemical substances which could be dangerous to health. For disposal of all the parts, the governmental instructions must be observed.

2.2 CLEANING THE TOOL

The tool should be regularly cleaned and lubricated. Any particles of straps sticking in the tension wheel can be cleaned with the supplied steel brush.

Little oil between the jaws and on the sliding surfaces of the aluminium housing is sufficient.

3

SAFETY INSTRUCTIONS



Inform yourself!
Read the operating instructions carefully.

Use for the intended purpose

The tool is intended for strapping packages, pallet loads etc.

This tool was designed and manufactured for safe handling during the strapping operation.



Protect yourself!
When operating the tool, wear eye, face and hand protection (cut-proof gloves).

The tool processes plastic straps only (polypropylene and polyester).

Possible misuse

The use of steel straps is not possible.



Warning:
Strap will snap forward!
When cutting the strap, hold the upper portion and stand safely away from the strap.
Caution:
The lower strap will snap forward.



Warning:
Strap could break!
Do not stand in line with the strap while it is tensioned. The strap could break!



Caution:
Danger of squeezing!
Do not put your fingers into the tension wheel area.



Caution:
Only strap packed goods!
Do not put hands or other parts of the body between the strap and the package during the strapping process.



Original ORGAPACK seals must be used exclusively.



Original ORGAPACK spare parts must be used exclusively!
Not using original spare parts will dissolve the warranty and the liability.

4

DESCRIPTION

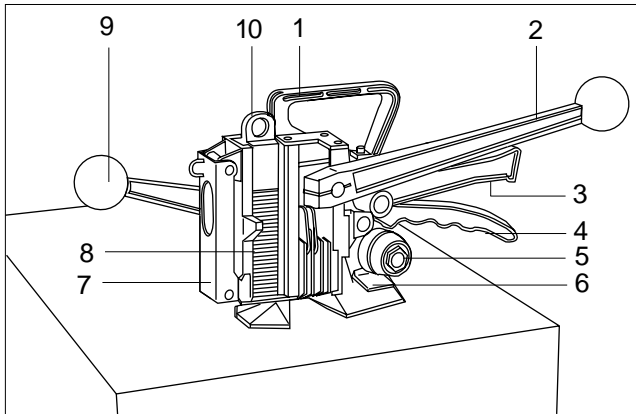


Fig. 1

4.1 DESIGN

- 1 Carrying handle
- 2 Sealing lever
- 3 Handle
- 4 Rocker lever
- 5 Tension wheel
- 6 Tension plug
- 7 Seal support
- 8 Seal magazine
- 9 Tension lever
- 10 Seal weight block

4.2 FUNCTION

- Cramping of strap through toothed plate (2/5).
- Tensioning by feed wheel principle (2/4).
- Feeding of seal (2/1) out of seal magazine.
- Sealing by notching (2/2) the seal.
- Strap cut with knife (2/3).

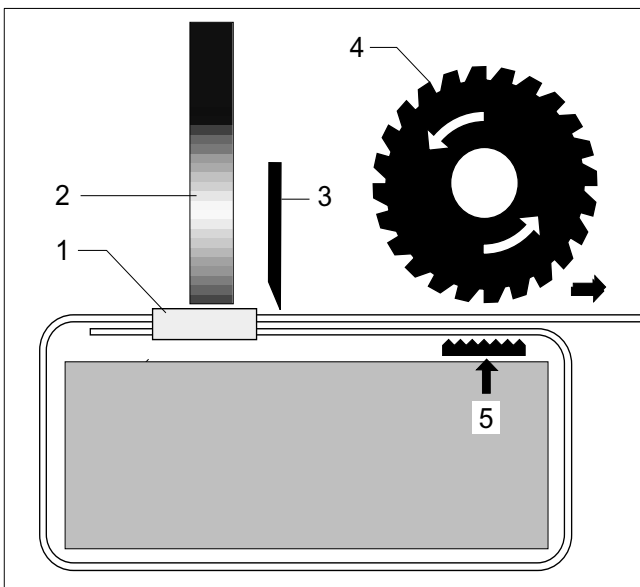


Fig. 2

5

OPERATING INSTRUCTIONS

5.1 REFILLING SEALS

- Pull out and fold back the seal weight block. Refill the magazine with a new stack of seals, so that the short part of the seals looks towards the open side of the magazine. Pull out the seal wire. Replace the seal weight block on top on the seals.
- If the sealing device is empty, the sealing lever must be operated once, so that one seal get pushed into the sealing mechanism.

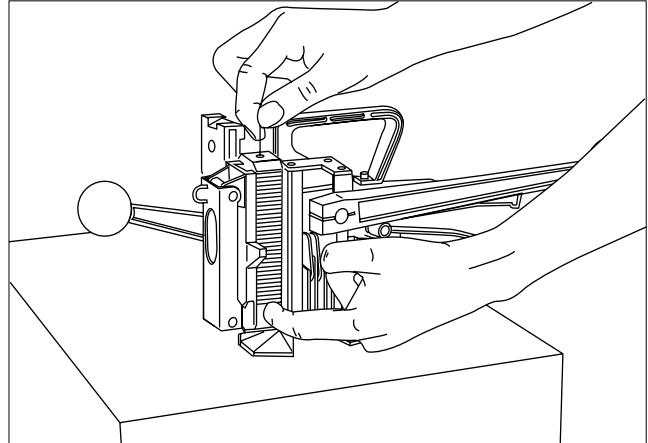


Fig. 3

5.2 OPERATING THE TOOL

- Place strap firm around the package and hold it with the left hand so that the lower strap start (4/1) is approx. 20 cm (8") away from the hand. The index finger lies between the two straps.
- Grip the tool with the right hand and lift the rocker lever towards the handle.
- Slide both straps into the tool until the stop is reached, the lower strap start must be below the seal magazine. Guide the straps with the index finger so that the tension plug is positioned between the two straps.
- Release the rocker lever.

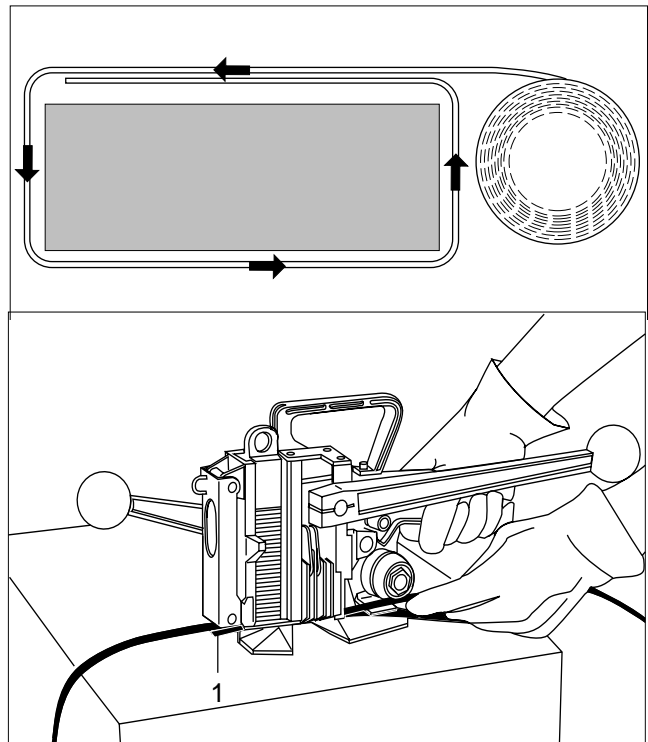


Fig. 4

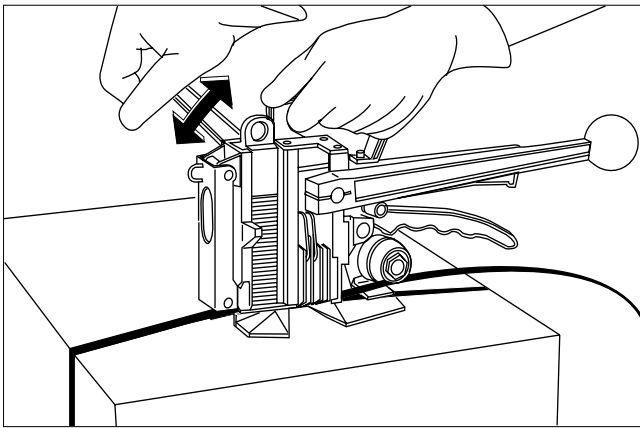
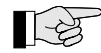


Fig. 5

- Hold the tool with the left hand by the carrying handle and move the tension lever with the right hand back- and forward until the desired strap tension is reached.



Adjustment of maximum strap tension, see Chapter 6.1 (only CM 61 DK with double clutch).

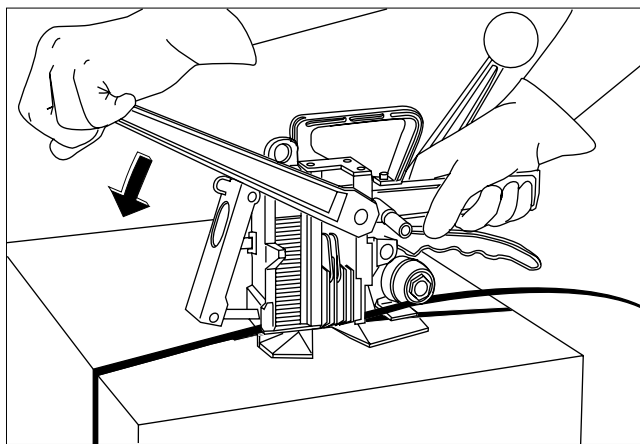


Fig. 6

- Grip the tool on the handle with the right hand and press the sealing lever with the left hand forward until the stop is reached.
- Pull back the lever.

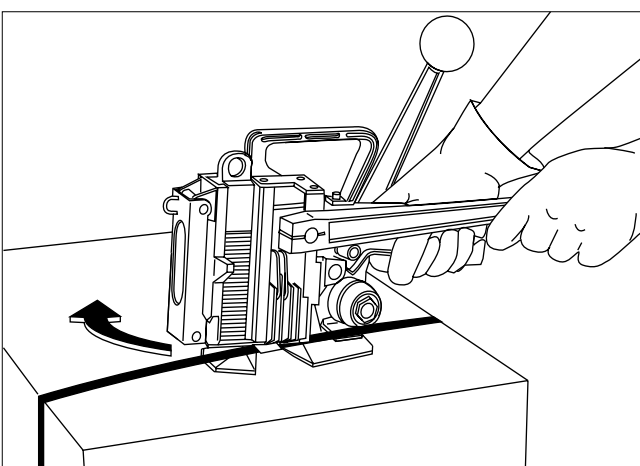


Fig. 7

- Pull the rocker lever towards the handle with the right hand and swivel the tool away to the right of the strap.

Check of seal

To obtain the maximum seal efficiency, the notches have to be cut properly into the seal.



An incorrect sealed strapping cannot secure the package and can thus lead to injuries.

6

PREVENTIVE AND CORRECTIVE MAINTENANCE

6.1 ADJUSTING STRAPTENSION



The maximum strap tension is determined by the adjustment of the friction clutch. For this reason a fork wrench is supplied.

- Block the tension shaft with a fork wrench (SW 11). With other fork wrench (SW 17) adjust the nut (8/1).
- Turning the nut in clockwise direction the strap tension is increased. Turning the nut in counter-clockwise direction the strap tension is reduced.



Best results are achieved by adjusting the clutch to the maximum tension for the package being strapped. But not tight that the tension wheel will turn over or the strap breaks.

Do not oil the friction clutch!

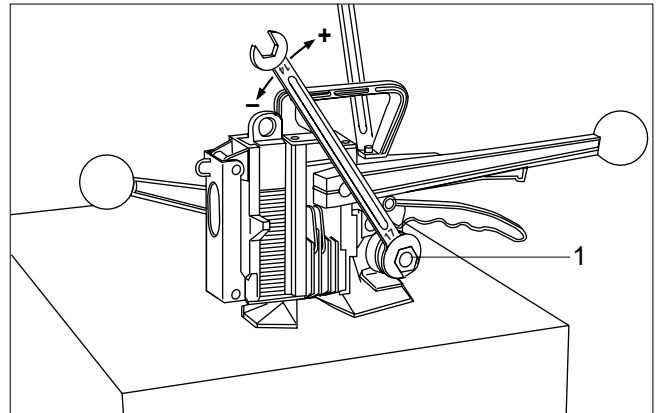


Fig. 8

6.2 SETTING CUT-OFF DEPTH



When correctly adjusted the upper strap will be cut through without damaging the lower strap.

- Turning the screw (9/1) in clockwise direction, the cutting will be increased, turning counter-clockwise the cut-off depth is reduced.

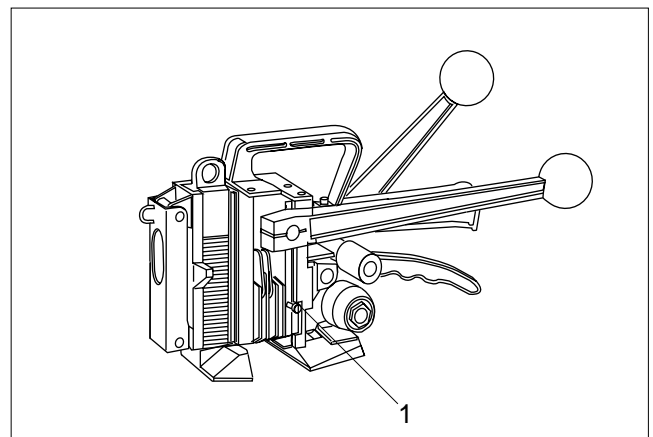


Fig. 9

6.3 REPLACING CUTTER KNIFE

Removal

- Remove seals from seal magazine.
- Remove two screws (10/5).
- Remove two screws (10/4).
- Remove seal housing (10/1) and seal guide (10/9).
- Remove jaw package (10/2).
- Remove two counter sunk screws (10/3).
- Remove two retaining rings (10/6) and remove guide link (10/7).
- Remove and replace cutter knife (10/8).

Installation

- Install the parts in reverse order. When installing jaw package, observe that the torsion spring (page 24, pos. 106) is positioned underneath the counter sunk screw.

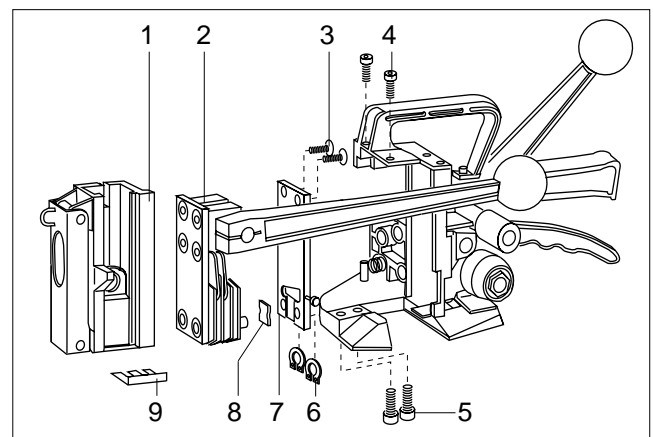


Fig. 10

7

PARTS LIST CM 61 DK / DA 2172.701.000/1

When ordering please indicate part number and quantity

Explosion drawing see page 24

* Recommended spare parts

Pos.	Part no	Part name	Quantity
1	2172.740.002	Base plate (incl. Pos. 3) 13 mm (1/2")	1
1	2172.750.002	Base plate (incl. Pos. 3) 16 mm (5/8")	1
2			
* 3	1820.020.140	Bushing	4
4			
5	1820.040.077	Holding plug	1
6	1911.005.088	Cylinder screw, M 5 x 8 13 mm (1/2")	1
7	2172.700.003	Strap guide	1
* 8	2172.600.017	Cutter plate 13 mm (1/2")	1
* 8	2172.750.003	Cutter plate 16 mm (5/8")	1
9	1927.600.620	O-Ring, ø 6 x ø 2	1
10	1911.905.082	Counter sunk screw, M 5 x 8	2
11	1910.505.062	Set screw, M 5 x 6	1
12	1820.040.014	Tension plug	1
13	1921.403.241	Spiral pin, ø 3 x 24	2
* 14	1820.040.040	Tension plate	1
15	1910.405.042	Set screw, M 5 x 4	1
16	1922.108.253	Ridged pin, ø 8 x 24	1
17			
18	1917.904.258	Counter sunk washer, M 4	1
19			
20			
21	2172.600.004	Rocker (incl. Pos. 3)	1
22			
23	1820.030.267	Shaft	1
24	1820.020.051	Rocker roll	1
25	1920.104.072	Retaining ring, ø 8	2
26	1933.716.160	Needle bearing	2
27	1926.501.160	Free-wheel needle bearing	1
28	1911.005.168	Cylinder screw, M 5 x 16	5
29	1820.030.330	Rocker shaft	1
30			
31			
32			
33			
34			
35	1921.404.181	Spiral pin, ø 4 x 18	1
36			
37			
38			
39			
40			
41	1820.080.051	Knob black	2
42			
43			
44	1920.216.102	External retaining ring, ø 16	1
* 45	1820.030.263	Bolt	1
* 46	1820.010.052	Tension spring	1
47			

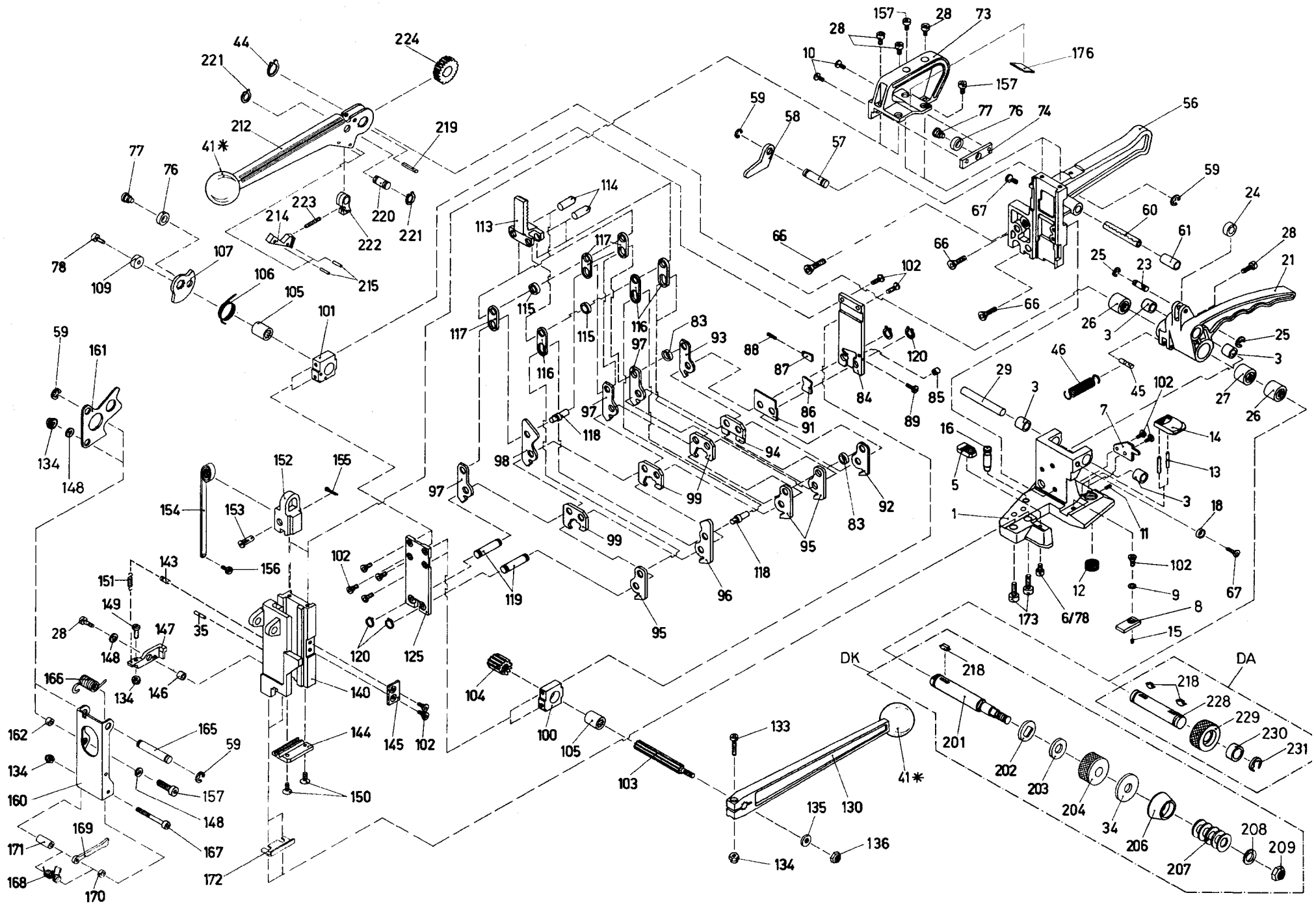
Pos.	Part no	Part name	Quantity
48			
49			
50			
51			
52			
53			
54			
55			
56	2172.600.003	Handle part 13 mm (1/2")	1
56	2172.900.002	Handle part 16 mm (5/8")	1
57	1820.030.271	Shaft	1
58	2172.600.018	Lifting segment 13 mm (1/2")	1
58	2172.750.006	Lifting segment 16 mm (5/8")	1
59	1920.106.072	Retaining ring, ø 6	4
60	1921.908.542	Roll pin, ø 8 x 60	1
61	1820.020.191	Bushing	1
62			
63			
64			
65			
66	1911.906.258	Counter sunk screw, M 6 x 25 13 mm (1/2")	3
66	1911.906.222	Counter sunk screw, M 6 x 22 16 mm (5/8")	3
67	1911.704.087	Counter sunk screw, M 4 x 8	2
68			
69			
70			
71			
72			
73	2172.700.004	Handle	1
74	2172.740.023	Guide roller holder complete (incl. Pos. 76, 77) 13 mm (1/2")	1
74	2172.750.007	Guide roller holder complete (incl. Pos. 76, 77) 16 mm (5/8")	1
75			
76	1820.020.138	Guide roller 13 mm (1/2")	1
76	1820.020.054	Guide roller 13 mm (1/2")	1
76	1820.020.054	Guide roller 16 mm (5/8")	2
77	1820.030.059	Rivet bolt	2
78	1911.005.108	Cylinder screw, M 5 x 10 13 mm (1/2")	1
78	1911.005.108	Cylinder screw, M 5 x 10 16 mm (5/8")	2
79			
80			
81			
82			
83	1820.020.203	Roller	2
84	2172.600.006	Guide link front 13 mm (1/2") (incl. Pos. 85)	1
84	2172.750.009	Guide link front 16 mm (5/8") (incl. Pos. 85)	1

Pos.	Part no	Part name	Quantity
85	1820.020.193	Bushing	1
* 86	2172.100.064	Cutter knife 13 mm (1/2")	1
* 86	2172.750.010	Cutter knife 16 mm (5/8")	1
87	2172.100.065	Key	1
88	1820.010.058	Compression spring	1
89	1820.030.017	Cylinder screw	1
90			
* 91	2172.100.066	Shim 13 mm (1/2")	1
* 91	2172.750.011	Shim 16 mm (5/8")	2
* 92	2172.600.011	Cutter jaw left 13 mm (1/2")	1
* 92	2172.750.012	Cutter jaw left 16 mm (5/8")	1
* 93	2172.600.012	Cutter jaw right 13 mm (1/2")	1
* 93	2172.750.013	Cutter jaw right 16 mm (5/8")	1
94	2172.740.016	Seal retainer 13 mm (1/2")	1
		(0,5–0,6 mm)	
94	2172.740.005	Seal retainer 13 mm (1/2")	1
		(0,7–0,8 mm)	
94	2172.750.014	Seal retainer 16 mm (5/8")	1
		(0,4–0,6 mm)	
94	2172.700.028	Seal retainer 16 mm (5/8")	1
		(0,9 mm)	
95	2172.740.019	Jaw left 13 mm (1/2")	3
95	2172.750.016	Jaw left 16 mm (5/8")	3
96	2172.740.018	Jaw left 13 mm (1/2")	1
96	2172.750.017	Jaw left 16 mm (5/8")	1
97	2172.600.034	Jaw right 13 mm (1/2")	3
97	2172.750.018	Jaw left 16 mm (5/8")	3
98	2172.600.033	Jaw left 13 mm (1/2")	1
98	2172.750.019	Jaw left 16 mm (5/8")	1
99	2172.740.020	Counter support 13 mm (1/2")	3
		(0,5 mm)	
99	2172.740.021	Counter support 13 mm (1/2")	3
		(0,6 mm)	
99	2172.740.006	Counter support 13 mm (1/2")	3
		(0,7–0,8 mm)	
99	2172.750.020	Counter support 16 mm (5/8")	3
		(0,4–0,6 mm)	
99	2172.700.027	Counter support 16 mm (5/8")	3
		(0,9 mm)	
100	2172.740.007	Bearing left 13 mm (1/2")	1
100	2172.750.022	Bearing left 16 mm (5/8")	1
101	2172.740.008	Bearing right 13 mm (1/2")	1
101	2172.750.023	Bearing right 16 mm (5/8")	1
102	1911.905.102	Counter sunk screw, M 5 x 10	
		13 mm (1/2")	9
102	1911.905.102	Counter sunk screw, M 5 x 10	
		16 mm (5/8")	11
103	2172.600.024	Sealer shaft	1
104	2172.600.058	Pignon	1
105	1820.020.159	Bushing	2
* 106	1820.010.150	Torsion spring	1
107	2172.600.016	Cam complete 13 mm (1/2")	1
		(incl. Pos. 76, 77)	
107	2172.750.024	Cam complete 16 mm (5/8")	1
		(incl. Pos. 76, 77)	
108			
109	1820.020.166	Roller	1
110			
111			

Pos.	Part no	Part name	Quantity
112			
113	2172.740.014	Pusher 13 mm (1/2")	1
113	2172.750.026	Pusher 16 mm (5/8")	1
114	1820.030.283	Bolt	2
115	1820.020.157	Jaw roller	2
116	2172.600.036	Link left 13 mm (1/2")	3
116	2172.750.027	Link left 16 mm (5/8")	3
117	2172.600.035	Link right 13 mm (1/2")	3
117	2172.750.028	Link right 16 mm (5/8")	3
118	1820.030.282	Bolt	2
119	1820.030.289	Bolt	2
* 120	1920.208.082	Retaining ring, ø 8	4
121			
122			
123			
124			
125	2172.740.009	Guide link rear 13 mm (1/2")	1
125	2172.750.029	Guide link rear 16 mm (5/8")	1
126			
127			
128			
129			
130	1820.080.043	Sealing lever complete 1	
		(incl. Pos. 41)	
131			
132			
133	1911.005.258	Cylinder screw, M 5 x 25	1
134	1916.305.052	Lock nut, M 5	4
135	1917.803.086	Washer, M 8	1
136	1916.308.082	Lock nut, M 8	1
137			
138			
139			
140	2172.740.010	Seal housing 13 mm (1/2")	1
		(incl. Pos.35, 143)	
140	2172.750.030	Seal housing 16 mm (5/8")	1
		(incl. Pos.35, 143)	
141			
142			
143	1922.104.123	Ridged pin, ø 4 x 12	1
144	2172.740.011	Seal guide left 13 mm (1/2")	1
144	2172.750.031	Seal guide left 16 mm (5/8")	1
145	2172.750.032	Guide plate 16 mm (5/8")	1
146	1820.020.162	Bushing	1
147	2172.600.028	Trigger	1
148	1917.803.056	Washer, M 5	3
149	1911.505.169	Hexagon screw, M 5 x 16	1
150	1911.905.162	Counter sunk screw, M 5 x 16	2
151	1820.010.032	Tension spring	1
152	2172.740.015	Seal weight block, blue	
		13 mm (1/2")	1
152	2172.750.033	Seal weight block, orange	
		16 mm (5/8")	1
153	1830.000.058	Spring tensioner	1
* 154	1830.000.057	Leaf spring	1
155	1923.501.120	Cotter pin, ø 2 x 12	1
156	1912.503.087	Pan head screw, M 3 x 8	1
157	1911.005.128	Cylinder screw, M 5 x 12	3

Pos.	Part no	Part name	Quantity
158			
159			
160	2172.600.026	Lever	1
161	2172.740.013	Trigger	13 mm ($\frac{1}{2}$ ") 1
161	2172.750.034	Trigger	16 mm ($\frac{5}{8}$ ") 1
162	1820.020.168	Bushing	1
163			
164			
165	1820.030.269	Shaft	1
* 166	1820.010.139	Torsion spring	1
167	1911.105.502	Cylinder screw, M 5 x 50	1
* 168	1820.010.138	Twin stud torsion spring	1
169	2172.700.005	Seal feed lever	1
170	1820.020.156	Spacer bushing short	1
171	1820.020.155	Spacer bushing long	1
172	2172.600.037	Seal guide right	13 mm ($\frac{1}{2}$ ") 1
172	2172.750.035	Seal guide right	16 mm ($\frac{5}{8}$ ") 1
173	1911.006.208	Cylinder screw, M 6 x 20	2
174			
175			
176	1821.090.003	Name plate	1
177			
178	1990.101.017	Fork wrench SW 17	1
179	1990.199.001	Wire brush	1
180			
181			
182			
183			
184			
185			
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190			
191			
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209			
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211			

Pos.	Part no	Part name	Quantity
212	1820.080.035	Tension lever complete (incl. Pos. 41)	1
213			
214	1830.000.289	Stop plate	1
215	1921.403.141	Spiral pin, \varnothing 3 x 14	2
216			
217			
218			
219	1921.405.241	Spiral pin, \varnothing 5 x 24	1
220	1820.030.329	Bolt	1
221	1920.209.102	External retaining ring, \varnothing 9	2
222	1820.050.052	Tension pawl	1
223	1820.010.061	Compression spring	1
224	1820.040.060	Blocking wheel	1
		Parts for suspension for normal working	
	1914.008.307	Suspension screw, M 8	1
	1916.008.088	Nut, M 8	2
		Parts for suspension for vertical working	
	2172.600.041	Suspension bow	1
	1911.006.168	Cylinder screw, M 6 x 16	2
	1916.006.088	Nut, M 8	2
		Parts for suspension for horizontal working	
	2172.600.038	Suspension link	1
	1911.005.128	Cylinder screw, M 5 x 12	2
		Parts for double clutch 13 mm ($\frac{1}{2}$") + 16 mm ($\frac{5}{8}$"), (DK)	
201	2173.900.032	Tension shaft	1
202	1830.000.304	Carrier disc	1
203	1830.000.302	Clutch disc	1
204	1820.040.091	Tension wheel	1
34	1830.000.262	Clutch disc	1
206	1830.000.303	Carrier	1
207	1925.210.162	Saucer spring, \varnothing 16,3	5
208	1917.803.106	Washer, M 10	1
209	1916.333.102	Lock nut, M 10 x 1.25	1
218	1830.000.062	Key	1
		Parts for direct drive 13 mm ($\frac{1}{2}$") + 16 mm ($\frac{5}{8}$"), (DA)	
218	1830.000.062	Key	2
228	2173.900.008	Tension shaft	1
229	1820.040.047	Tension wheel	1
230	1820.020.194	Spacer bushing	1
231	1920.112.132	Retaining ring, \varnothing 12	1
		Parts for steel baseplate	
	2172.700.026	Base plate	1
	1911.906.258	Counter sunk screw, M 6 x 25	1
	1916.006.088	Nut, M 6	1
	1911.905.162	Counter sunk screw, M 5 x 16 13 mm ($\frac{1}{2}$ ")	1
	1911.905.202	Counter sunk screw, M 5 x 20 16 mm ($\frac{5}{8}$ ")	1
	1911.005.128	Cylinder screw, M 5 x 12	1



* LOCTITE 480

DK = Double clutch DA = Direkt drive CM 61 DK / CM 61 DA

2172.701.000/2

11.98 wb/ja
11.00/WE