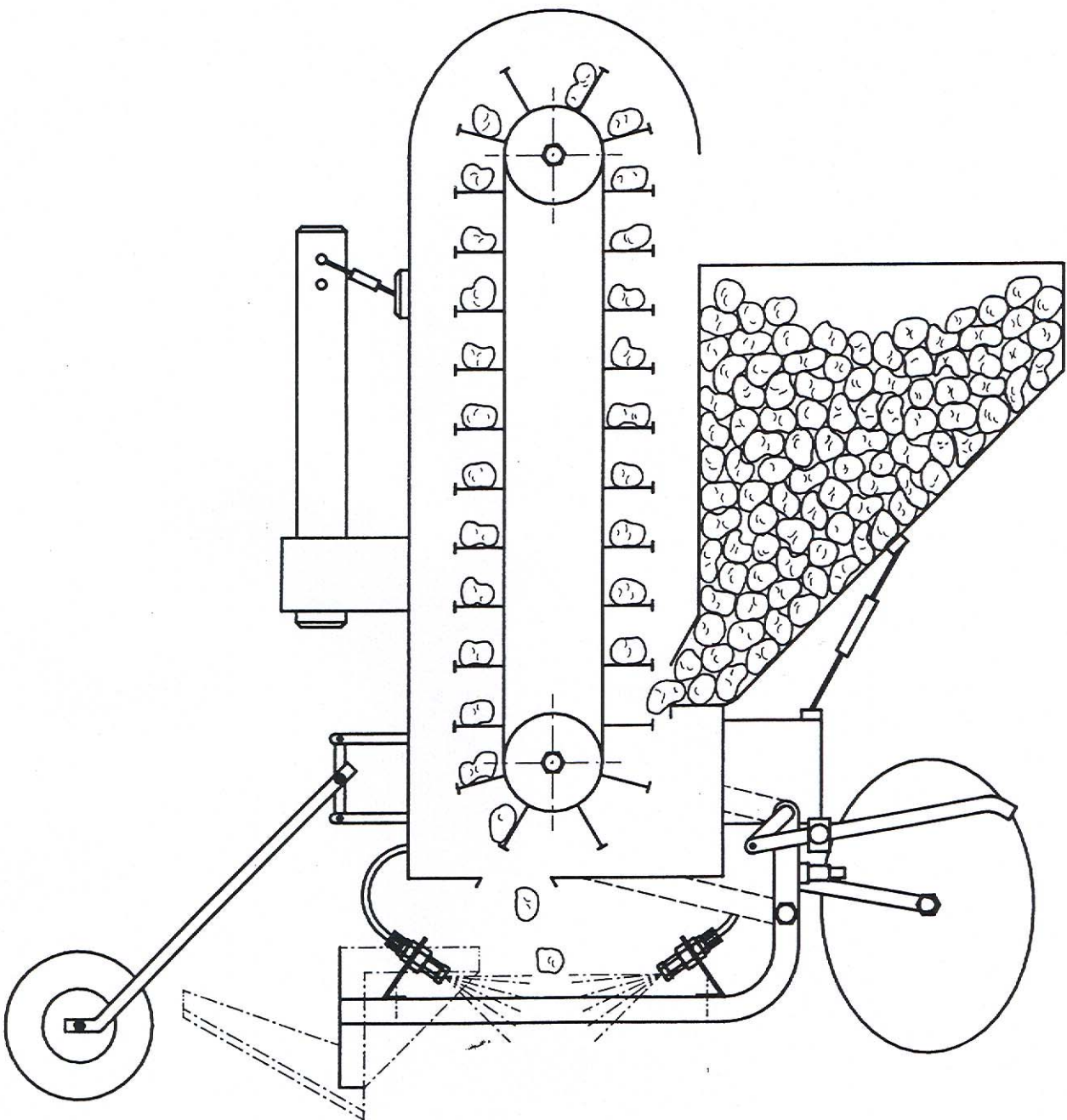




**Lechler
Attachment kit
for seed dressing**

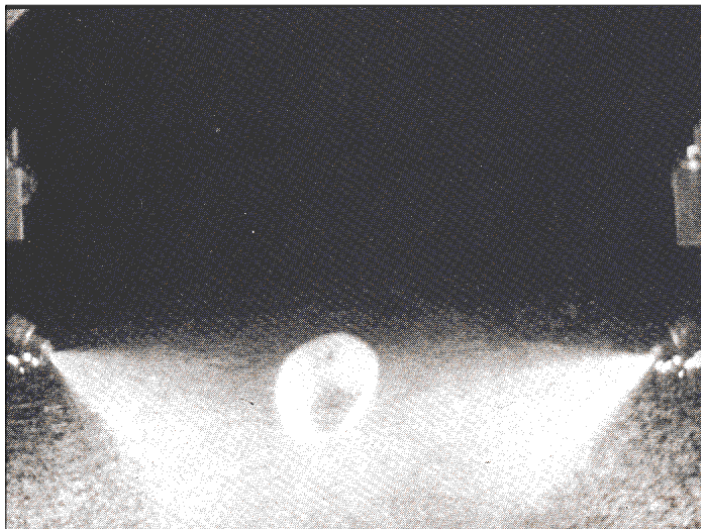




Lechler Attachment kit for seed dressing

- even effective coating of potatoes on all sides
- safe function
- can be retrofitted easily

Potatoes are effectively protected from infestation by *Rhizoctonia* (the main cause of vegetable skin diseases) if they are treated on all sides with a protective agent before tuber storage. In planting machines, the potatoes are evenly sprayed with a suitable protective fluid agent by means of spray nozzles under the layering shaft just before they are stored. During this process, the layering channel leading up to the front unit is also covered by the spray jet so that ground treatment also occurs at the same time. The time-consuming task involving dust powder agents is therefore no longer required.



The Lechler attachment kit for fluid seed dressing allows any type of universally available planting machine to be retrofitted to "automatic" spray coating. The tried and tested Lechler hollow cone nozzles ensure this and are installed in a favourable spray position in the grooved unit and behind the layering shaft. The spray jet can be set precisely to the ejection point of the tubers under the layering shaft through the use of a ball joint.

All components, in particular the line filters, have good access, can be simply monitored and cleaned without any problems.

You can purchase the attachment kit from co-operatives, specialist dealers and specialist workshops.

Attachment kit for one row

Only **one** attachment kit, **order no. 400.440.C6.10** is required per layering shaft. 4 attachment kits are therefore required for a four-row machine.

The attachment kit consists of 2 nozzle stems (**Fig. A, Page 3**) as well as the valve unit (**Fig. B, Page 3**). Furthermore, 4 attachment brackets, 4 m hosing and the associated hosing clamps and replacement gaskets are also supplied as loose components.

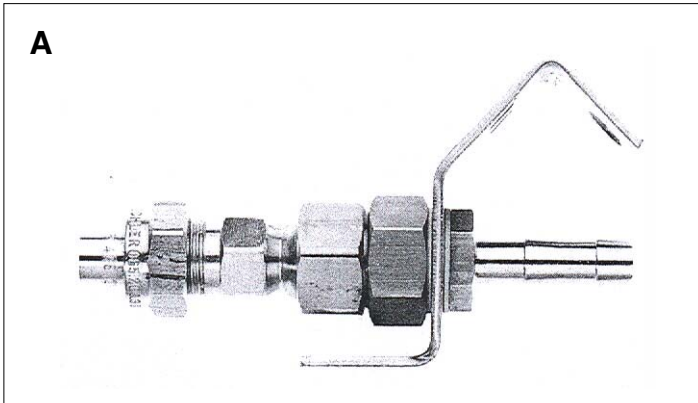
Filter and distribution unit

As a result of the relatively low throughput of fluid, fine filtering (80-100M) is required at the pressure end. If an appropriate filter unit is not already integrated in the fixtures available, we would recommend the use of the **Lechler filter and distribution unit, order no. 400.440.30.21.00.3 (Fig. C, Page 3)**.

A maximum of six attachment kits (corresponding to 6-row planting machine) can be connected to the distributor kit. The appropriate connections should be mortise-locked for smaller machine units (2 to 4 rows).



Scope of supply and accessories



A
Nozzle stem with fastening bracket

Barrel, pump and fittings do not fall within the scope of supply!

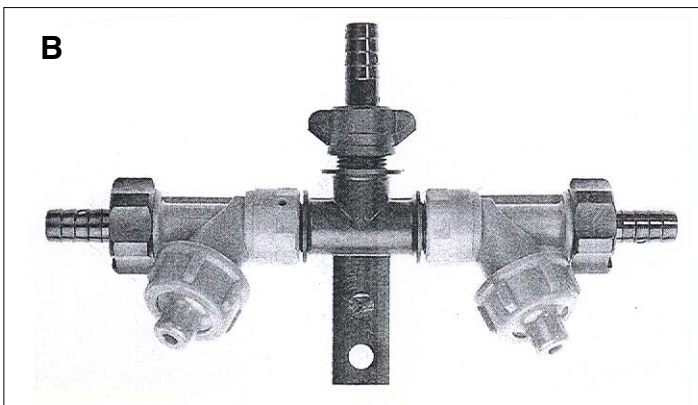
If the appropriate basic devices are not available, we would recommend the use of commercially available belt spray equipment (assembly).

Additional nozzle equipment

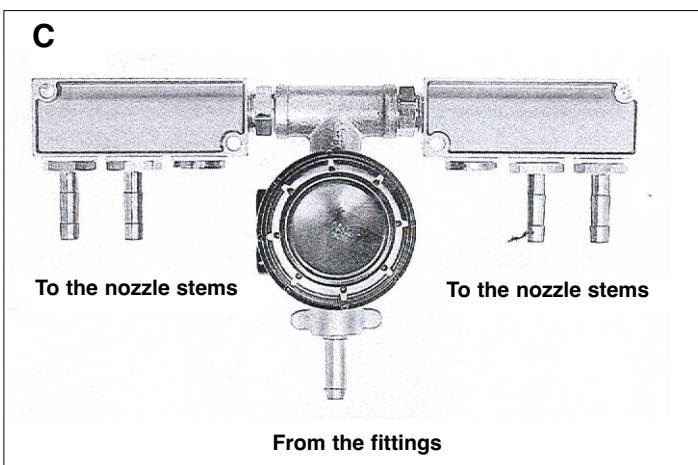
The attachment kit is supplied as standard together with the hollow cone nozzle, **order no. TR80-01C** (approx. 100 to 150 l/ha at 4km/h). For higher speeds or lower quantities, nozzles with smaller or larger orifice can be requested (refer to production table on page 4).

Replacement gaskets:

The gaskets used in the attachment kit and in the distributor unit can be reordered under the **collective order no. 095.016.73.07.73.0.**



B
Valve unit (pre-assembled)



C
Filter and distributor unit (pre-assembled, here for a 4-row machine)

Additional accessories	Order no.
Teflon sealing tape	095.009.55.09.30
Hose nipple G1/2A	095.016.30.07.68
Quality pressure gauge, glycerine dampened (connection: G1/4A)	095.009.00.10.55



Assembly and Commissioning

The nozzle stem and dual valve are already pre-assembled with the appropriate gaskets (Figures A and B, page 3). During the final assembly, ensure seal integrity. Union nuts, valves and hose nipples should be tightened well, but not too tight as a result of the Teflon gaskets. If necessary use the Teflon sealing tape.

Before commissioning, the nozzle inserts (1) and screen filter (4) should first be removed (Table D, page 6) and the entire system should be rinsed with water. Then the machine is supplied with the nozzles installed in accordance with the production table (page 4). (Note differences in pressure between the fittings and nozzles).

Fitting the nozzle stems




Various fastening brackets are also provided for fitting the nozzle stems to the planting machine.

Installation stages

1. Select the brackets required for the appropriate machine type in accordance with the installation (Table E). (Two brackets are required per row - 2 brackets are therefore remaining).

2. Loosen hose (7) of ball joint (5) (Fig. D, page 6)

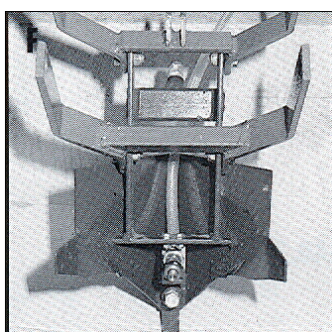
3. Attach fastening brackets (8) together with the gaskets (6) onto the thread of the hose nipple and firmly screw together with the ball joint (5) (Fig. D, page 6).

Tab. E Fastening brackets Versions	Pos. (Fig. D)	Length (not bent) (mm)	PLANTING MACHINE TYPE*					
			CRAMER Junior	CRAMER Marathon	GRUSE/GRIMME sämtliche	HASSIA "GL"	HASSIA "KLE"	HASSIA "GLS"
	8a	122	S	S	S,R	S		S
	8b	250	R			R	R	R
	8c	143		R			S	

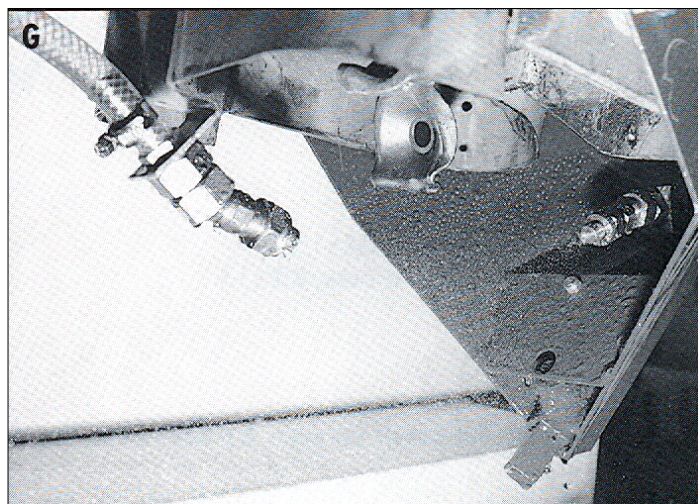
* if using a different machine type, please contact with the manufacturer in question

S = Fastening in the unit (= front nozzle, against direction of travel)

R = Fastening in the frame (= rear nozzle in direction of travel)



4. Screw one fastening bracket and nozzle stem into grooved unit (Fig. F)



5. The second nozzle stem is fastened opposite to the frame and/or to the layering shaft. The nozzles spraying against one another should be aligned to ensure that the upper jet is directed horizontally or slightly downwards (Example, Fig. G). Ensure that the cup chain is not directly subjected to the spray jet.



Application tables

2 nozzles per row, row width 0,75 m

Nozzle	Pressure [bar]	l/min per nozzle	Liter per hectare rate l/ha at sprayer speed					
			3,0 km/h	4,0 km/h	5,0 km/h	6,0 km/h	7,0 km/h	8,0 km/h
TR 80-005	1,5	0,14	75	56	45	37	32	28
	2,0	0,16	85	64	51	43	37	32
	2,5	0,18	96	72	58	48	41	36
	3,0	0,20	107	80	64	53	46	40
TR 80-0067	1,5	0,17	90	68	54	45	39	34
	2,0	0,22	117	88	70	59	50	44
	2,5	0,25	133	100	80	67	57	50
	3,0	0,27	144	108	86	72	62	54
TR 80-01	1,5	0,28	149	112	89	75	64	56
	2,0	0,32	171	128	102	85	73	64
	2,5	0,36	192	144	115	96	82	72
	3,0	0,39	208	156	125	104	89	78

2 nozzles per row, row width 0,80 m

Nozzle	Pressure [bar]	l/min per nozzle	Liter per hectare rate l/ha at sprayer speed					
			3,0 km/h	4,0 km/h	5,0 km/h	6,0 km/h	7,0 km/h	8,0 km/h
TR 80-005	1,5	0,14	70	53	42	35	30	26
	2,0	0,16	80	60	48	40	34	30
	2,5	0,18	90	68	54	45	39	34
	3,0	0,20	100	75	60	50	52	38
TR 80-0067	1,5	0,17	85	64	51	43	36	32
	2,0	0,22	110	83	66	55	47	41
	2,5	0,25	125	94	75	63	54	47
	3,0	0,27	135	101	81	68	58	51
TR 80-01	1,5	0,28	140	105	84	70	60	53
	2,0	0,32	160	120	96	80	69	60
	2,5	0,36	180	135	108	90	77	68
	3,0	0,39	195	146	117	98	84	73

2 nozzles per row, row width 0,85 m

Nozzle	Pressure [bar]	l/min per nozzle	Liter per hectare rate l/ha at sprayer speed					
			3,0 km/h	4,0 km/h	5,0 km/h	6,0 km/h	7,0 km/h	8,0 km/h
TR 80-005	1,5	0,14	66	49	40	33	28	25
	2,0	0,16	75	56	45	38	32	28
	2,5	0,18	85	64	51	42	36	32
	3,0	0,20	94	71	56	47	40	35
TR 80-0067	1,5	0,17	80	60	48	40	34	30
	2,0	0,22	103	78	62	52	44	39
	2,5	0,25	118	88	71	59	50	44
	3,0	0,27	127	95	76	64	54	48
TR 80-01	1,5	0,28	132	99	79	66	56	49
	2,0	0,32	151	113	90	75	65	56
	2,5	0,36	169	127	102	85	73	64
	3,0	0,39	184	138	110	92	79	69

2 nozzles per row row width 0,90 m

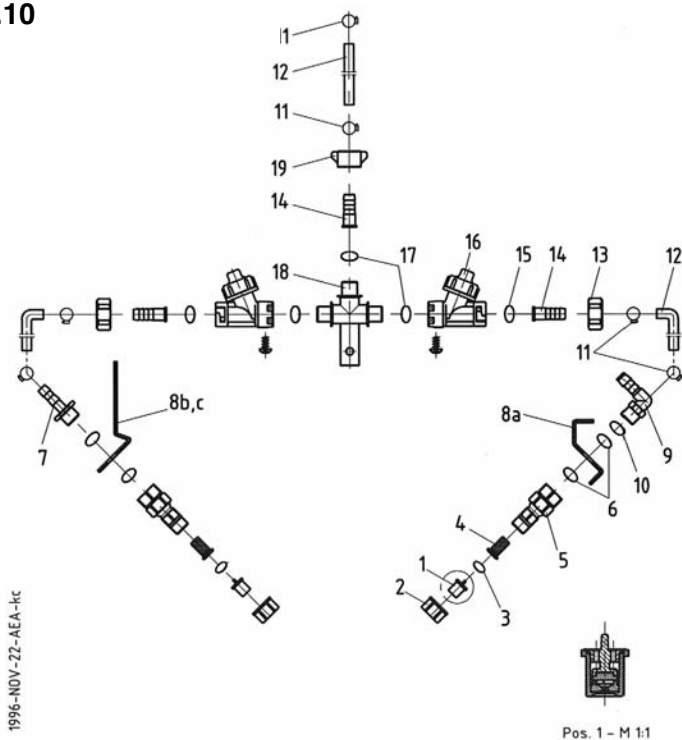
Nozzle	Pressure [bar]	l/min per nozzle	Liter per hectare rate l/ha at sprayer speed					
			3,0 km/h	4,0 km/h	5,0 km/h	6,0 km/h	7,0 km/h	8,0 km/h
TR 80-005	1,5	0,14	62	47	37	31	27	23
	2,0	0,16	71	53	43	36	30	27
	2,5	0,18	80	60	48	40	34	30
	3,0	0,20	89	67	53	44	38	33
TR 80-0067	1,5	0,17	76	57	45	38	32	28
	2,0	0,22	98	73	59	49	42	37
	2,5	0,25	111	83	67	56	48	42
	3,0	0,27	120	90	72	60	51	45
TR 80-01	1,5	0,28	124	93	75	62	53	47
	2,0	0,32	142	107	85	71	61	53
	2,5	0,36	160	120	96	80	69	60
	3,0	0,39	173	130	104	87	74	65

*Spray pressure at the nozzle tip Liter-per-hectare rates apply to water



Individual components

Attachment kit for one row 400.440.C6.10

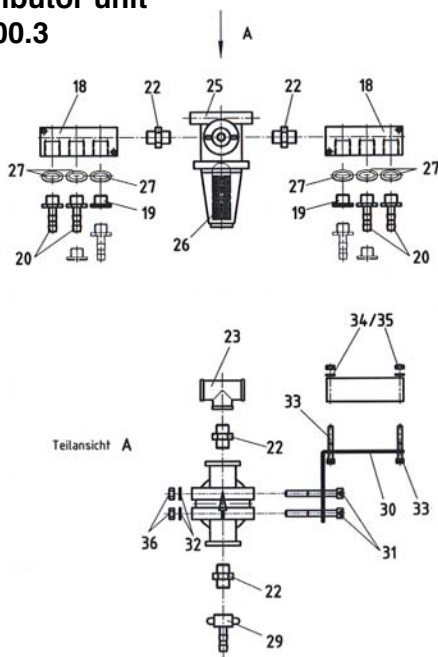


1996-NOV-22-AEA-1c

Pos. 1 - M 1:1

Pos.	No. of pieces	Description	Product code
1	2	Hollow cone nozzle TR 80-01C	2TR.305.C6.00.00.0
2	2	Union nut, G 3/8	065.200.30.00.00.3
3	2	Seal	065.240.73.00.00.0
4	2	Nozzle filter, 50M	065.257.56.00.00.0
5	2	Ball joint thread connector, G 3/8	092.022.30.AF.00.0
6	4	Seal	095.015.72.02.30.0
7	1	Hose nipple, G 3/8A	095.016.30.07.67.0
8a	1	Fastening bracket, L = 122 mm	095.016.0V.07.64.0
8b	1	Fastening bracket, L = 250 mm	095.016.0V.07.66.0
8c	1	Fastening bracket, L = 143 mm	095.016.0V.07.65.0
9	1	90° hose nipple, G 3/8A	095.016.53.08.45.0
10	1	Shim Ø 17 x Ø 22 x 1.5	095.015.40.04.88.0
11	6	Hose clip	095.016.02.06.32.0
12	1	Textile hose Ø 10 x Ø 15 x 4000 mm	095.009.51.10.80.0
13	2	Bayonet cap	065.202.56.11.00.0
14	3	Hose nipple	095.016.56.07.49.0
15	2	Seal	065.242.73.00.00.2
16	2	Diaphragm valve	065.272.56.HB.00.2
17	3	Seal	095.015.73.03.63.0
18	1	T-piece, M18x1.5	095.016.56.07.69.0
19	1	Union nut, M18x1.5	095.011.51.00.21.0
	1	Spare part bag	095.016.73.07.73.0

Filter and distributor unit 400.440.30.21.00.3



Teilansicht A

Pos.	No. of pieces	Description	Product code	Material
18	2	Distributor unit	095.016.42.08.19.0	Al
19	4	Blind plug	095.016.0V.08.20.0	St, zinc plated
20	6	Hose nipple, G 1/2A	095.016.30.07.68.0	Brass
22	4	Double nipple	095.019.30.00.44.0	Brass
23	1	T-piece, G 1/2	095.016.30.03.01.0	Brass
25	1	Line filter, G1/2A	S.GI2.012.53	
26	1	Screen insert, 100M	S.000.012.00.26.02	
27	6	Seal	095.015.50.03.93.0	PVC
29	1	Screw connection 1/2" x 3/8"	095.016.30.06.41.0	Brass 58
30	1	Fastening bracket	400.440.42.21.01.1	Al, anodised
31	2	Cheese-head screw M8x70 DIN912	095.009.17.02.53.0	1.4571
32	2	Tooth wheel A8,4 DIN6797	095.000.15.00.64.0	1.4310
33	2	Cheese head screw M6x45 DIN912	095.009.17.00.46.0	1.4571
34	2	Tooth wheel A6,4 DIN6797	095.000.15.00.63.9	1.4310
35	2	Hex-nut M6 DIN934	095.000.17.00.20.2	1.4571
36	2	Hex nut M8 DIN934	095.000.17.00.20.1	1.4571