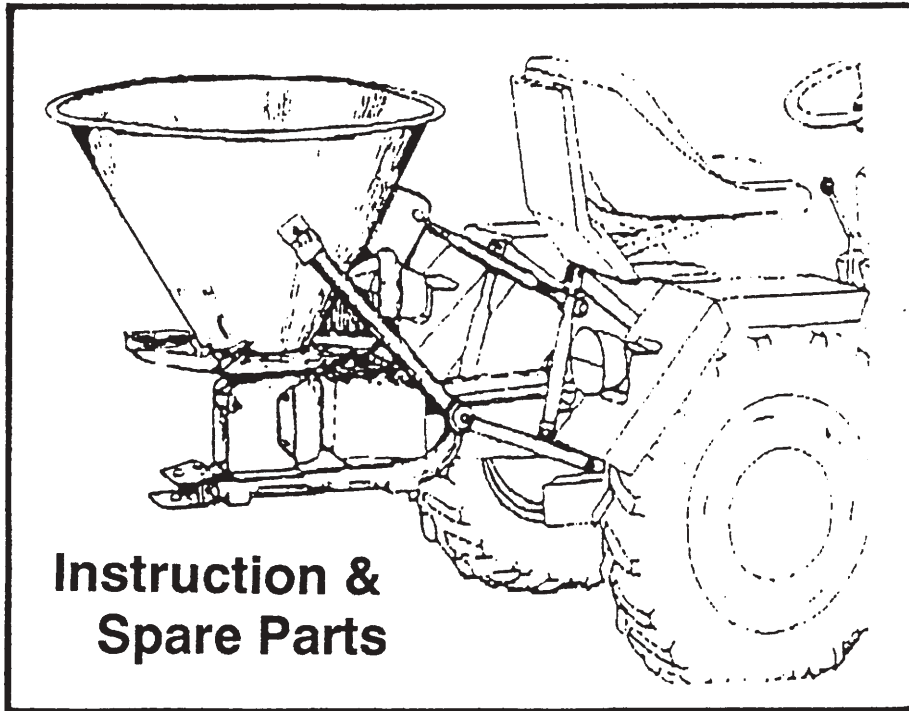


# BALTIMATIC® MINI SPREADER



**BALTIC KORN A/S**

KÄHLERSBAKKEN 14, DK-4700 NÆSTVED  
DENMARK

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24.10.2003.

**CAUTION:**

When spreader is in operation – when the tractor power take off is operating

**STAY AWAY FROM ALL MOVING PARTS**  
on the spreader. Such as distribution disc and P.T.O. shaft.

**HAZARDOUS MOVING PARTS**

1. Stop tractor and P.T.O. before unclogging servicing or performing maintenance.
2. P.T.O. shaft, scraper and distribution disc can entangle clothing and cause serious injury.
3. Do not place hands or objects into the hopper with the spreader/seeder operating.
4. Do not allow riders on this equipment.

**SERIOUS INJURY OR DEATH  
MAY RESULT**



## OPERATING INSTRUCTION

## 1. APPLICATION.

This spreader/seeder is designed for surface spreading of granulated and pulverized fertilizers as well as seeds.

The spreader can also be used during winter time for spreading sand/salt.

The spreader is designed for work with tractor of class 0,2 equipped with cat. 1. 3-point hitch 1.N acc. to ISO norm 730/II-1979.

## 2. TECHNICAL DATA

- fertilizer box capacity	5,5 cubic feet 4,5 bushel 350 lbs.	0,15 m3 150 liters 160 kgs.
- working width		
- granulated fertilizer up to	33'	10 m.
- pulverized fertilizer up to	20'	6 m.
- sowing volume range	8 - 2225 lbs/acre	8,5 - 2500 kgs/ha
- working speed - max.	9 miles/h.	15 km/h.
- transport velocity max.	12 miles/h.	20 km/h.
- number of spreading plates	1 pce.	1 pce.
- plate diam.	19"	485 mm.
- plate speed (revolution)	540 r.p.m.	540 r.p.m.
- number of vanes on plate	4 pcs.	4 pcs.

## DIMENSION:

Length	33"	840 mm.
Width	30"	770 mm.
height	38"	970 mm.
weight	130 lbs.	55 kgs

## 3. HOW TO PREPARE SPREADER FOR WORK

The fertilizer spreader should be mounted on the tractor using the tractor 3 point linkage levers. Secure the mounting by using lynch pins.

Use the tractors lift to lift up the spreader at a height of 28" (700 mm.) ( distance from the ground to spreading plate). Please note the spreader must be fully horizontal. (figure 1.)

Mount the PTO shaft.

## A. First time

The PTO - shaft length should be adjusted to the tractor:

The PTO shaft shall first time be mounted when spreader is in spreading position 28" (700 mm).

1. Ensure that the tubes of the PTO - shaft will overlap each other with min. 3" (60mm).
2. The PTO shaft must not work under condition where U-joints is exceeding 25 degrees.

## B. After first time.

Provided tractor is the same when used first time the PTO shaft can be mounted with out any adjustment of the length.

If tractor is different from first time please make the control as described in above points A. 1 - 2.

#### 4. SERVICE / DAILY INSPECTION

##### BEFORE OPERATION

In order to ensure a regular operation and to avoid any damages of any kind following items must be checked on the spreader:

1. Check that all bolts/nuts on machine is properly tightened.
2. Check that spreading plate is properly turning.
3. Check bolts/nuts and vanes on spreaderplate.
4. Check that PTO shaft is properly lubricated and that gearbox is filled with grease (0,25 dm<sup>3</sup>).
5. Check that machine is properly and securely mounted to tractor.
6. Check that PTO - shaft is properly mounted.

##### POST OPERATION INSPECTION

Empty the fertilizer box for remaining fertilizer and clean and wash the fertilizer unit after use.

##### POST SEASON INSPECTION

- Wash and clean the spreader.
- Check the hopper for paint damages. Damaged places should be cleaned and carefully repainted with primary paint + surfacepaint.
- All damaged or overused parts should be repaired/replaced.
- Check if all bolts & nuts are tightened properly.
- Store the spreader protected and sheltered.

#### 5. SECURITY MEASUREMENTS.

- DO NOT OPERATE DOSING SYSTEM WHEN THE SPREADER IS WORKING (WHEN TRACTOR PTO-SHAFT OUTPUT IS OPERATING).
- STAY AWAY FROM ALL MOVING PARTS AS BOTTOM AGITATOR IN HOPPER, PTO-SHAFT AND SPREADING DISC WHEN THE SPREADER IS WORKING.
- DO NOT LEAVE ANY TOOLS OR OTHER OBJECTS IN THE HOPPER.
- DO NOT ALLOW ANY RIDERS ON THE SPREADER OR BETWEEN SPREADER AND TRACTOR DURING OPERATION.

3.

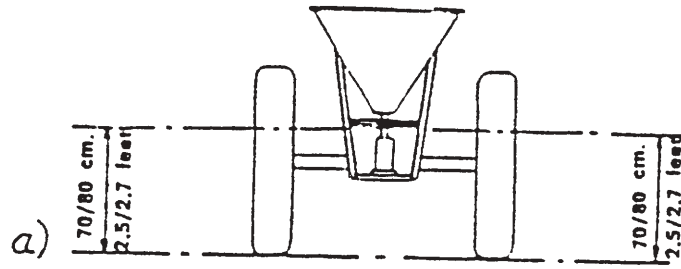


Fig. 1.

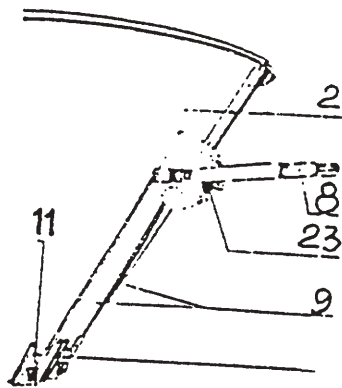
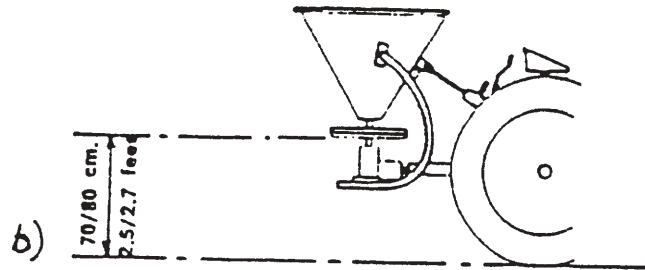


Fig. 2.

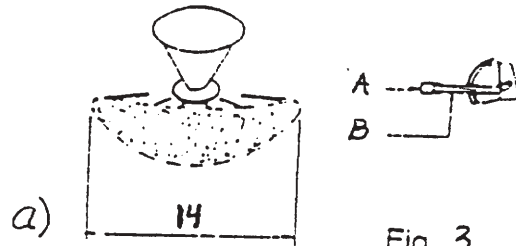
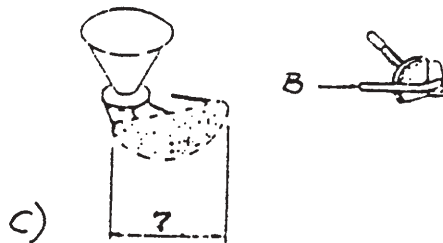
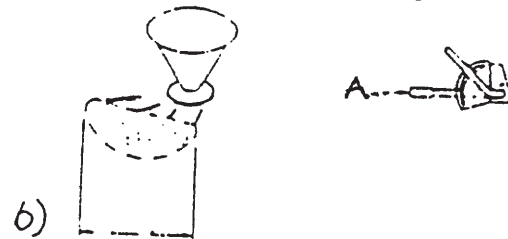


Fig. 3.

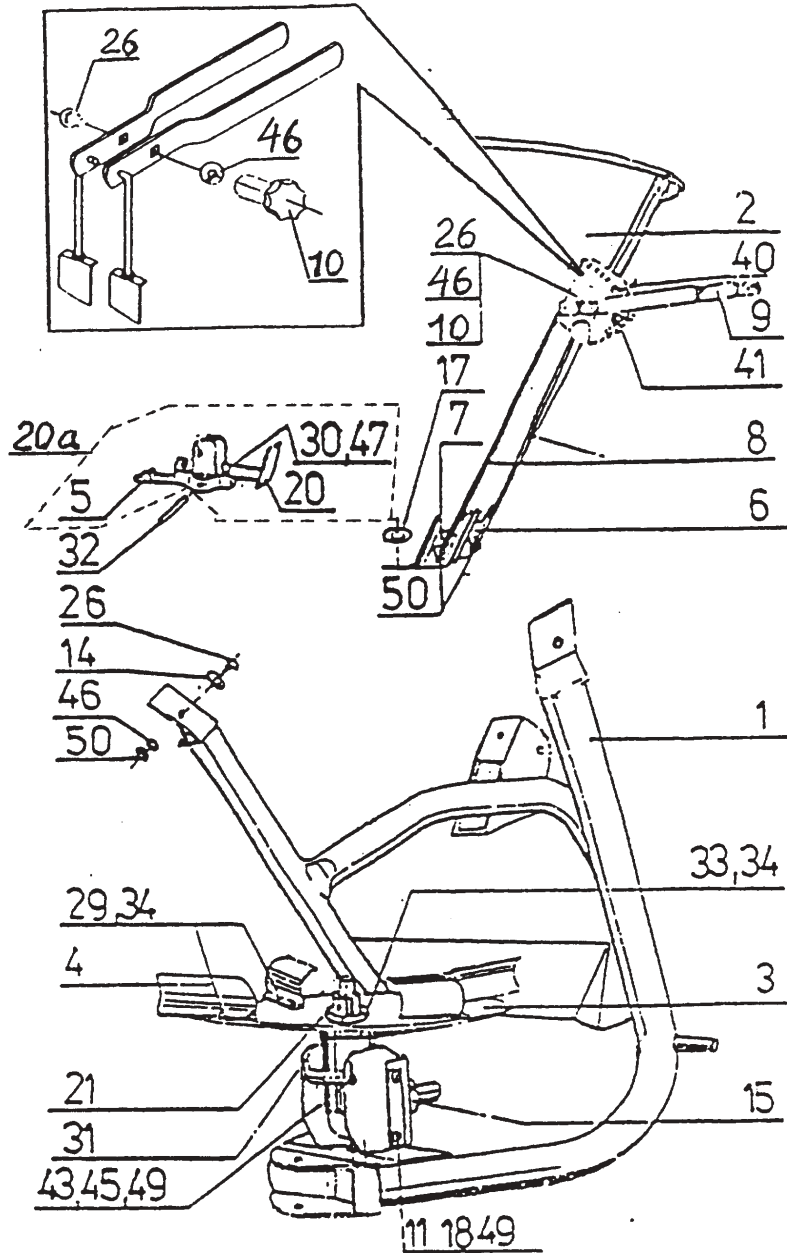


**MINI-SPREADER.**

Pos. No.	Description	Spare part No.	Qty.
1	Frame	2042/01-001/0	1
2	Fertilizer box	2042/02-001/0	1
3	Spreader plate	2042/03-002/0	1
4	Vane	2042/03-003/0	4
5*	Scraper with slotted hole	2029/04-011/0	1
6*	Left damper	2029/00-006/0	1
7*	Right damper	2029/00-007/0	1
8	Reg. lever	2042/00-003/0	2
9	Damper lever	2042/00-004/0	2
10*	Black knob	2029/00-034/0	1
11	Washer	2042/00-006/0	2
14	Special washer	2042/00-007/0	3
15	Gearbox	2029/06-001/0	1
17*	Spacing washer	2029/00-008/0	1
18	Bolt	2029/00-010/0	3
20*	Connector without scraper	2029/04-007/0	1
20a*	Connector with scraper	2029/04-010/0	1
21*	Plate hub	2029/07-003/0	1
26	Bolt M 10x30 5,8B Fe/Zn 12c	PN-85/M-82406	4
29	Bolt M 8x20 5,8B Fe/Zn 12c	PN-85/M-82105	11
30*	Bolt M10x25 5,8B Fe/Zn 12c	PN-85/M-82105	2
31*	Rolled pin 10N 6X40	PN-89/M-85023	1
32*	Rolled pin 10N 6X45	PN-89/M-85023	1
33*	Bolt M 8x25 5,8B Fe/Zn 12c	PN-85/M-82105	4
34	Lock nut M 8-8 Fe/Zn 12c	PN-85/M-82175	12
40*	Split pin S-Zn 6,3x32	PN-90/M-82001	1
41*	Split pin B 71 Fe/Zn 12c	BN-81/1902-04	1
43	Round washer 8,4 Fe/Zn 12c	PN-78/M-82005	2
45	Spring washer Z 8,2 Fe/Zn 12c	PN-77/M-82008	5
46*	Spring washer Z 10,2 Fe/Zn 12c	PN-77/M-82008	4
47*	Washer 10,5 Fe/Zn 12c	PN-78/M-82005	2
49	Nut M 8-8-B Fe/Zn 12c	PN-86/M-82144	9
50	Nut M 10-8-B Fe/Zn 12c	PN-86/M-82144	7

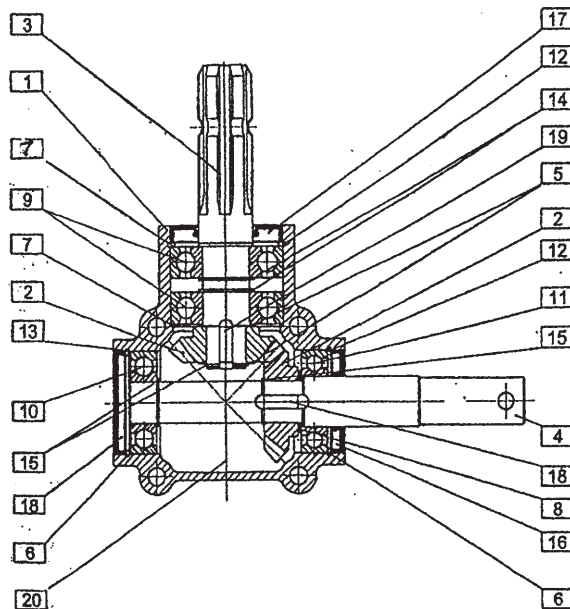
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\* Parts used in SPREADMASTER.



Pos. No.	Description	Part number	Quantity
1	Gearbox housing	MB35-20.01	1
2	Gear wheel Z-17	MB35-20.03	2
3	Input shaft	MB30-10.01	1
4	Output shaft	MB30.02-20.07	1
5	Washers 0.1; 0.15; 0.5	MB30-10.03/01	1 cpl.
	-	MB30-10.03/02	
	-	MB30-10.03/03	
6	Washers 0.1; 0.15; 0.5	MB35-30.01/01	1 cpl.
	-	MB35-30.01/02	
	-	MB35-30.01/03	
7	Washers 0.1; 0.15; 0.5	MB09-30.07/01	1 cpl.
	-	MB09-30.07/02	
	-	MB09-30.07/03	
8	Spacing washer 0.5	MB30-10.03/03	2
9	Bearing 6306	PN-70/M-86100	2
10	Bearing 6305	PN-70/M-86100	1
11	Bearing 6206	PN-70/M-86100	1
12	Circlip 72w	PN-88-/M-85111	1
13	Circlip 62w	PN-88-/M-85111	2
14	Circlip 30z	PN-88-/M-85111	2
15	Circlip 25z	PN-88-/M-85111	3
16	Sealing ring A30x62x7	PN-87/M-86964	1
17	Sealing ring A35x72x10	PN-87/M-86964	1
18	Sealing cover B1 62x8		1
19	Key B8x7x21	PN-70/M-85005	2
20	Semi liquid grease EPX-000		0,15 kg

24.10.2003.



In case of gear replacement ALWAYS replace two gears pos. 2 simultaneously.



## PRINCIPLES FOR WORKING OUT SOWING TABLES.

### A. FIELD TEST.

Fill hopper to the rim. Set adjustment levers at quantity desired.  
Drive distance required to cover 1/10 of a hectare (or 1.000 m<sup>2</sup>) at  
the tractor speed desired and at 540 RPM on PTO.  
Measure consumed weight when filling up hopper again.

#### EXAMPLE:

You wish to spread 350 lbs./acre - 32' wide:  
32' = 9,144 metres effective spreading width.  
Drive 1.000/9,144 = 109 metres = 119 yards.  
Volume per acre is consumption multiplied by 4,047.  
If consumed weight is not what is wanted, operate adjustment levers until  
correct quantity is obtained in repeated tests.

### B. STATIONARY TEST.

Pour a quantity of e.g. seeds into hopper. Select an estimated aperture.  
Cover a level surface with plastic (e.g. 60'x40'-18x12 metres).  
Start tractor and let PTO operate at 540 RPM in e.g. 2 minutes.  
On the tractor meter you may now read at which speed to run in gear desired.  
Now measure total spreading width. Effective spreading width is 65% abt. of total  
width.  
Overlapping will compensate (fig. 5).  
Collect material and weight it.  
Insert findings in the following formula:

$$\frac{\text{kgs} \times 600 \text{ (lbs} \times 498\text{)}}{\text{minutes} \times \text{effective width} \times \text{speed}} = \text{kgs per hectare (lbs per acre)}$$

#### EXAMPLE:

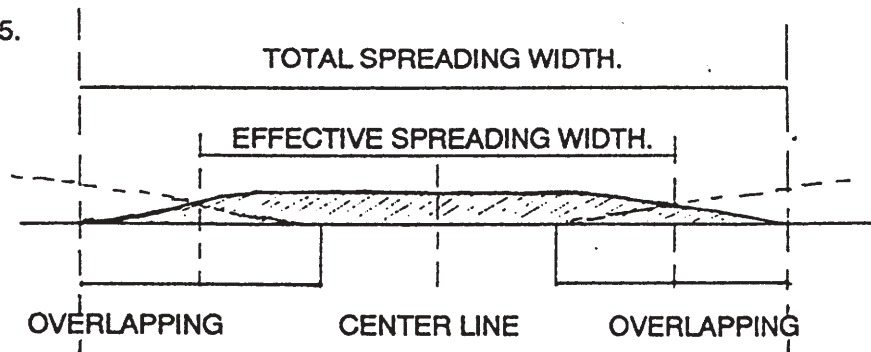
$$\frac{100 \text{ kgs} \times 600}{2 \text{ min} \times 11 \text{ metres} \times 8 \text{ kph}} = 341 \text{ kgs/hectare}$$

$$\frac{220 \text{ lbs} \times 498}{2 \text{ min} \times 36 \text{ feet} \times 5 \text{ mph}} = 304 \text{ lbs/acre}$$

If consumed weight is not what is wanted, operate adjustment levers until correct quantity is obtained  
in repeated tests.

When you have reached the result you want; make a note of details for future reference.

Fig. 5.



## SOWING DIAGRAM.

Fertilizer Type	Working Width (Feet)	Tractor Speed (MPH)	Adjustment On The Scale - Quantity Pounds Per Acre.														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	
NPK 23-3-7	26	0.6	101	435	770	1469											
		2.5	25	109	193	368	543	687	886	944	1056	1210	1354				
		5.0	12	54	96	184	271	344	417	472	527	602	677	811	946	998	
		7.5	8	37	64	122	181	229	277	315	352	402	451	541	631	665	
NPK 12-5-14	26	0.6	169	444	720	1350											
		2.5	42	111	180	337	495	617	741	886	1031	1233	1435				
		5.0	21	55	90	169	248	309	370	443	516	617	717	815	913	972	
		7.5	14	37	60	121	165	206	247	295	344	411	478	543	609	648	
NPK 21-4-10	26	0.6	192	476	762	1366											
		2.5	48	119	190	342	493	639	784	947	1115	1236	1356				
		5.0	24	60	95	170	246	319	393	475	558	618	678	777	875	965	
		7.5	11	27	42	76	110	142	174	211	248	275	302	345	389	429	
NPK 16-4-12	26	0.6	154	518	882	1495											
		2.5	38	129	220	374	527	668	808	956	1115	1253	1390				
		5.0	20	65	111	186	264	334	404	481	558	626	695	782	869	910	
		7.5	12	43	73	125	176	224	269	320	372	418	463	521	579	607	

## SEED CHART

Material	Working width/feed	P.T.O. speed	Output in Pounds Per Acre							Working speeds MPH
			1	2	3	4	5	6	7	
Rye	26'	540		556	868	1193	1455			0,6 MPH
				139	217	298	429			2,5 MPH
				69	109	149	182			5 MPH
				47	72	99	122			7,4 MPH
Wheat	26'	540		440	709	967	1270			0,6 MPH
				110	177	242	318			2,5 MPH
				56	89	121	159			5 MPH
				37	59	81	106			7,4 MPH
Barley	20'	540			576	688	967	1191		0,6 MPH
					144	172	242	297		2,5 MPH
					72	86	121	149		5 MPH
					48	57	81	99		7,4 MPH
Oats	18'	540	328	549	821	1103				0,6 MPH
			82	138	205	276				2,5 MPH
			41	69	103	139				5 MPH
			28	46	69	92				7,4 MPH
Annual Rye Grass	11'	540	217	470						0,6 MPH
			55	117						2,5 MPH
			27	59						5 MPH
			18	39						7,4 MPH
Clover	16'	540	760							0,6 MPH
			190							2,5 MPH
			95							5 MPH
			64							7,4 MPH
Rape	16'	540	671							0,6 MPH
			168							2,5 MPH
			84							5 MPH
			56							7,4 MPH

These Figures are for a starting place on seed only!

They are estimates and correct seed settings should be reached by trial and error using method inside manu.

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