

Planting with

NIBEX



Andershornstein AB

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Worldwide sales of Spare parts for NIBEX seeding machines.

See our homepage for other second hand machines for potato and vegetables!



Dear NIBEX owner

This manual contains brief recommendations to facilitate your choice of the right cup disc or cell wheel for your Nibex machine. Because the quality of the seeds can vary from season to season and from seed lot to seed lot regarding the shape, size and germination rate, these recommendations are to be seen as rough guide lines to be used with the "manual rotation test". (se instruction manual).

Remember: The manual rotation test takes only a few minutes to carry out, but it is your insurance for a successful planting.

AB ÖVERUMS BRUK cannot be held responsible for damage due to abuse, neglect or incorrect adjustments of the NIBEX machine.

ALWAYS CARRY OUT THE MANUAL ROTATION TEST

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PRACTICAL HINTS FOR USE OF NIBEX WITH CUP DISC

Static electricity

Most small seeds can easily get charged with static electricity. This will make them hang to the cup disc which causes erratic seed spacing. To avoid this, mix some talcum powder with the seed. Powdery pesticides mixed with the seed can have the same effect.

Dosage: Approximately 1 teaspoon per 300 g (10 oz.) seed.

Handle your NIBEX machine with care

A constant seed level in the "pickup zone" is important for the accuracy. Therefore, do not fill the hoppers with seed until the machine has been transported to the field. Drive smoothly. Avoid abrupt turns and do not lift the machine too high.

Cleaning out the seed

The machine should be emptied of all seed and cleaned out daily. When using very dusty or extremely small seeds (carrots, some flowers and herbs) it is advisable to empty and clean the hoppers every 4 hours.

Selecting seed spacing

See table in the instruction manual or on the gearbox cover.

Seed level

The lowest recommended seed level corresponds to 20-25 g (0, 7-0, 9 oz) of seed.

For seed level adjustment see the instruction manual.

Selecting the agitator

The standard agitator provided with your machine is to be used for most seeds. The large agitator is only to be used for cucumber, dill, cantaloupe, parsnip and other seeds that do not easily flow into the pickup zone. Also for bandplanting with very high seed rates, e.g. baby carrots, the large agitator is recommended.

See instruction manual.

Working speed

Working speeds not to be exceeded for good results.
















































Number of cup feeds per metre	Max. working speed	
	km/h	m.p.h.
5—19	3,0—3,5	2,0—2,5
16—25	2,5—3,0	1,5—2,0
23—35	2,0—2,5	1,0—1,5

When drilling some seeds (carrot, tomato etc.) it is recommended not to drive with more than 25 cups per meter, thus not losing control over the number of seeds per metre.

ALWAYS CARRY OUT THE MANUAL ROTATION TEST

GUIDE LINES FOR DIFFERENT SEEDS

Crop	Cup no.	Shape	Colour	Number of seed per cup	Seed level	Opener/ coultter type	Comments	Talcum powder
Asparagus	11	○	Lightblue	1	D	25 mm		Yes
	12	○	Green	1	D	25 mm		Yes
Beans	23	○	White	1	C—B	25 mm	Cup disc with 15 cups For NIBEX 300 and 400 use the thin sealing ring	
	25	○	Brown	1	C—B	25 mm		
	26	○	Lightblue	1	C—B	25 mm		
Cantaloupe	27	◐	Lilac	1 (1—2)	E (E—D)	25 mm	Cup disc with 15 cups. Use large agitator. For NIBEX 300 and 400 use the thin sealing ring	
Carrot	38	◐	Black	1—2	D—C	25/65 mm	Recommended for: 10—50 seeds/metre 50—120 seeds/metre 120—230 seeds/metre 170—500 seeds/metre 190—800 seeds/metre	
	16	○	Olivegreen	4—6	C	65/25 mm		
	13	○	White	6—10	C	65/105 mm		
	11	○	Lightblue	10—16	D—C	105—65 mm		
	12	○	Green	12—20	D—C	105/65 mm		
Celery	36	◐	Offwhite	1 (1-2)	E	25 mm		Yes
Chives	12	○	Green	3—6	C	25 mm		Yes
	21	◐	Yellow	25—30	C	25 mm		Yes
Cole crops: Broccoli Brussel Sprouts Cabbage Cauliflower Napa Cabbage E.t.c	15	○	Brown	1	E	25 mm		
	17	○	Darkblue	1	E	25 mm		
	18	○	Black	1	E	25 mm		

Crop	Cup no.	Shape	Colour	Number of seed per cup	Seed level	Opener/ coultter type	Comments	Talkum powder	
Cucumber-gherkin	24		Darkgrey	1 (1—3)	E	25 mm	Small — large seed Very large seed Cupdisc with 15 cups is recommended. Use thin sealingring for NIBEX 300 and 400.	Yes	
	27		Lilac	1 (1—3)	E	25 mm		Yes	
Dill	11		Lightblue	2—5	C—B	25/65 mm	30—150 seeds/metre 100—250 seeds/metre 250—750 seeds/metre	Use large agitator	Yes
	41		Grey	2—5	B	25/65 mm			Yes
	21		Yellow	12—25	B	65 mm			Yes
Eggplant	13		White	1 (1—2)	C—D	25 mm		Yes	
Endive/chikory	39		Green	1	E—D	25 mm	Large seed	Yes	
	37		Red	1 (1—2)	E—D	25 mm		Yes	
Fennel	43		Darkblue	1 (1—3)	E—D	25 mm		Yes	
Mustard and rape	13		White	2—3	D—C	25 mm		Yes	
	11		Lightblue	3—5	D—C	25 mm		Yes	
Leek	17		Darkblue	1	E—D	25 mm		Yes	
	13		White	3—5	C—D	65/105 mm		Yes	
Lettuce	31		Yellow	1 (1—2)	E	25 mm	Coulter: 25/7	Yes	
	38		Black	1 (1—2)	E	25 mm		Yes	
Onion	16		Olivegreen	1 (1—2)	D—C	65/25 mm	Recommended for: 10—35 seeds/metre 30—70 seeds/metre 60—130 seeds/metre 80—150 seeds/metre 150—500 seeds/metre	Yes	
	13		White	2—3	D—C	25/65/105 mm		Yes	
	11		Lightblue	3—6	C	25/65/105 mm		Yes	
	12		Green	4—7	C	25/65/105 mm		Yes	
	21		Yellow	7—12	C—B	65/105 mm		Yes	
Parsley	38		Black	1 (1—2)	D—E	25 mm		Yes	
	33		Orange	2 (2—3)	D—E	25/65 mm		Yes	
	12		Green	8—14	D—E	25/65 mm		Yes	
Parsnip	41		Grey	1 (1—3)	D	25/65mm	Large agitator Large agitator	Yes	
	22		Red	3—5	C—D	65/105 mm		Yes	
Pepper	13		White	1 (1—2)	D	25 mm	Large agitator	Yes	
	11		Lightblue	1—3	D	25 mm		Yes	
	12		Green	1—3	D	25 mm		Yes	
Radish and Blackradish	16		Olivegreen	1	D	25 mm		Yes	
	18		Black	1	D	25 mm		Yes	
Red beet (Table beet)	11		Lightblue	1	C—B	25 mm	Use thin sealing ring for NIBEX 300/400	Yes	
	12		Green	1	C—B	25 mm		Yes	
	21		Yellow	2—3	B	65 mm		Yes	
	22		Red	2 (2—3)	B	65 mm		Yes	
Spinach	12		Green	2 (1—3)	C	25/65 mm		Yes	
	21		Yellow	2—4	C	25/65/105 mm		Yes	
Sugar beet	11		Lightblue	1	C	25 mm			
	12		Green	1	C	25 mm			
Tomatoe	17		Darkblue	1 (1—2)	D—C	25 mm	Small seeds Medium sized seeds Large seeds	Yes	
	18		Black	1 (1—2)	D—C	25 mm		Yes	
	16		Olivegreen	1 (1—2)	D—C	25 mm		Yes	
Tomatoe — group planting	19		Yellow	2—3	D—C	25 mm	Group planting: 6 cups/ disc and 3—5 groups/ metre See instruction manual	Yes	
	13		White	3—4	D—C	25 mm		Yes	
Turnip	17		Darkblue	1	C—D	25 mm	Band planting: 55—65 seeds/ metre	Yes	
	16		Olivegreen	3—4	C	65 mm		Yes	
Coated seed	12		Green	1	C—D	25 mm	Calibration: 4,0—5,5 mm Calibration: 2,5—3,5 mm		
	13		White	1	C—D	25 mm			

CUP RECOMMENDATIONS FOR SOME FLOWER SEEDS

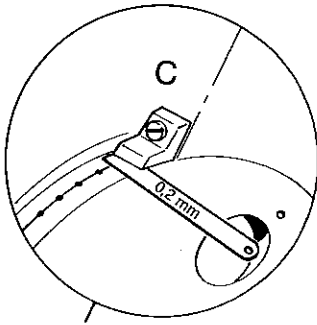
Cup for low density: Each cup takes one or a few seeds.
 Cup for high density: Each cup takes several seeds.
 Cup for singulating: The number of seeds per cup might vary.
 x The seed is relatively easy to handle.
 xx The seed is difficult to handle with precision

Latine name	Cup for low density	Cup for high density	Cup for singulating	
<i>Adonis aestivalis</i>	11—12—13	21—24—27		x
<i>Celendula officinalis</i>			21—24—27	xx
<i>Callistephus chinensis</i>	38—37—34	11—12—42—43—21		x
<i>Centaurea cyanus</i>	43—34	21—24—27		x
<i>Chrysanthemum carinatum</i>	11	21—24—27		xx
<i>Chrysanthemum paludosum</i>	31—39	16—13—11		x
<i>Clarkia</i>	36—17	16—13—11—12		x
<i>Cosmos bipinnatus</i>			21—24—27	xx
<i>Cynoglossum</i>	13—11—12	21—24—27		x
<i>Delphinium chinense</i>	17—16	13—11—12		x
<i>Eschscholtzia californica</i>	17	16—13—11		x
<i>Godetia amoena</i>	36—17	16—13—11—12		x
<i>Helichrysum bracteatum</i>	31—39—33	11—12—42—43		x
<i>Helipterum manglesi</i>	11—13	21—24—27		xx
<i>Helipterum roseum rubrum</i>			21—24—27	xx
<i>Kochia</i>	17—16	13—11—12		x
<i>Lathyrus odoratus</i>	12	21		x
<i>Malope trifida</i>	16—18—19	11—12—21		x
<i>Nemesia strumosa</i>	17—39—16	13—11—12		x
<i>Nigella damascena</i>	17—16—33	13—11—12		x
<i>Rudbeckia bicolor</i>	31—39	16—11—13		x
<i>Tagetes</i>			21—24—27	xx

PRACTICAL HINTS FOR USE OF NIBEX 500 WITH CELL WHEEL

Mounting the cell wheels

See the instruction manual page 9.
Do not forget to mount the ejector knife/s. The arrow on the ejector knife should point forward.
Check the adjustment of the repeller. The distance should not exceed 0,2 mm (0,08 inch). See picture.



Select seed spacing

See chart in the instruction manual or on the cover of the gear box. **Be sure to read the table with the right amount of holes per wheel!**

Working speed

Working speeds not to be exceeded for a good result.

Number of seed per metre			Max. working speed	
41 cells	120 cells	240 cells	km/h	m.p.h.
4,3—10,5	12,6—30,7	25—61	4,0—4,5	3,0—3,5
—16	—47	—94	3,0—4,0	2,0—3,0
—21 *	—61 *	—122 *	2,0—3,0	1,5—2,0

*) Higher seeding rate possible with very low working-speed.

Check

When operating your NIBEX 500 check that the cellwheels are turning smoothly. Uneven rotation implies improper choice of cell wheel, inaccurate seed sizing or a worn out repeller.

Selecting cellwheel

In addition to the listed cell wheels in the instruction manual it is possible to obtain wheels with other sizes of cells and any hole configuration of Your choice from AB ÖVERUMS BRUK.

Please enclose at least 150 grammes of seed with your order along with specification for desired seed spacing

AVAILABLE CELL WHEELS

Cellwheel	Number of holes	Ejector knife	Hole size Ø × depth mm	Seed calibration mm	Rekommended coultur
343 001	41	1 mm/A	5,7 × 4,0	4,00—5,00	25 mm
343 002	120	1 mm/C	3,8 × 2,9	2,75—3,25	25 mm
343 003	41	0.7 mm/D	2,7 × 1,4	1,75—2,00	25 mm
343 004	41	0,7 mm/D	2,7 × 1,7	2,00—2,25	25 mm
343 005	2 × 120	0,7 mm/D	2,7 × 1,7	1,75—2,25	25 mm
343 006	120	1 mm/C	4,2 × 2,3		25 mm
343 007	2 × 60	1 mm/C	4,2 × 3,2	3,00—3,40	25 mm
343 008	120	1 mm/C	3,7 × 2,7		25 mm
343 009	2 × 120	1 mm/C	3,7 × 2,3		65 mm Twin line
343 013	41	1 mm/A	5,2 × 4,0		25 mm
343 014	2 × 120	1 mm/C	4,2 × 2,7	3,00—3,50	25 mm
343 015	41	1 mm/A	5,4 × 3,5	3,50—4,75	
343 016	2 × 120	1 mm/C	3,4 × 2,0		65 mm Twin line
343 017	41	1 mm/A	4,6 × 2,0		25 mm
343 018	2 × 120	1 mm/C	4,2 × 2,7	3,00—3,50	65 mm Twin line

PRACTICAL TABLES

Row length per hectare

Row spacing in cm	Row length in metre	Row spacing in cm	Row length in metre	Row spacing in cm	Row length in metre	Row spacing in cm	Row length in metre	Row spacing in cm	Row length in metre
2.0	500.000	13.0	76.923	24.0	41.667	35.0	28.571	56.0	17.857
2.5	400.000	13.5	74.074	24.5	40.816	35.5	28.169	57.0	17.544
3.0	333.333	14.0	71.429	25.0	40.000	36.0	27.778	58.0	17.241
3.5	285.714	14.5	68.966	25.5	39.216	37.0	27.027	59.0	16.949
4.0	250.000	15.0	66.666	26.0	38.462	38.0	26.316	60.0	16.666
4.5	222.222	15.5	64.516	26.5	37.736	39.0	25.641	61.0	17.393
5.0	200.000	16.0	62.500	27.0	37.037	40.0	25.000	62.0	16.129
5.5	181.818	16.5	60.606	27.5	36.364	41.0	24.390	63.0	15.873
6.0	166.666	17.0	58.824	28.0	35.714	42.0	23.810	64.0	15.625
6.5	153.846	17.5	57.143	28.5	35.087	43.0	23.256	65.0	15.384
7.0	142.857	18.0	55.556	29.0	34.483	44.0	22.727	66.0	15.152
7.5	133.333	18.5	54.054	29.5	33.898	45.0	22.222	67.0	14.925
8.0	125.000	19.0	52.632	30.0	33.333	46.0	21.739	68.0	14.706
8.5	117.647	19.5	51.282	30.5	32.787	47.0	21.277	69.0	14.493
9.0	111.111	20.0	50.000	31.0	32.258	48.0	20.855	70.0	14.285
9.5	105.263	20.5	48.780	31.5	31.746	49.0	20.408	71.0	14.086
10.0	100.000	21.0	47.619	32.0	31.250	50.0	20.000	72.0	13.889
10.5	95.238	21.5	46.512	32.5	30.769	51.0	19.608	73.0	13.699
11.0	90.909	22.0	45.456	33.0	30.303	52.0	19.231	75.0	13.333
11.5	86.957	22.5	44.444	33.5	29.851	53.0	18.868	76.0	13.158
12.0	83.333	23.0	43.478	34.0	29.412	54.0	18.519	78.0	12.821
12.5	80.000	23.5	42.553	34.5	28.986	55.0	18.181	80.0	12.500

1 ha = 10.000m²
 1 ha = ca 2,026 tunnland
 1 tunnland = 4.936 m²
 1 tunnland = 0,4936 ha

1 Acre = 4.840 sq.yards
 1 Acre = 0,40468 ha
 1 ha = 10.000 sq.m.
 1 ha = 2,47106 acres

Number of seeds per hectare

Seed spacing cm	2	3	4	5	6	7	8	9	10	11	12
No. of seed per metre	50	33,3	25	21	16,7	14,3	12,5	11,1	10	9,1	8,3
Row spacing in cm	Number of seeds										
10	5.000.000	3.330.000	2.500.000	2.000.000	1.670.000	1.430.000	1.250.000	1.110.000	1.000.000	910.000	830.000
15	3.333.300	2.219.978	1.666.650	1.333.332	1.113.322	953.324	833.325	739.993	666.666	606.661	553.328
20	2.500.000	1.665.000	1.250.000	1.000.000	835.000	715.000	625.000	555.000	500.000	455.000	415.000
25	2.000.000	1.332.000	1.000.000	800.000	668.000	572.000	500.000	444.000	400.000	364.000	332.000
30	1.666.650	1.109.989	833.325	666.660	556.661	476.661	416.662	369.996	333.330	303.330	276.664
35	1.428.550	951.414	714.275	571.420	477.135	408.565	357.137	317.138	285.710	259.996	237.139
40	1.250.000	832.500	625.000	500.000	417.500	357.500	312.500	277.500	250.000	227.500	207.500
45	1.111.100	739.993	555.550	444.440	371.107	317.774	277.750	246.664	222.220	202.220	184.443
50	1.000.000	666.000	500.000	400.000	334.000	286.000	250.000	222.000	200.000	182.000	166.000
55	900.905	605.427	454.525	363.620	303.622	259.988	227.262	201.809	181.810	165.447	150.902
60	853.300	554.978	416.650	332.320	278.322	238.323	208.325	184.992	166.660	151.660	138.328
65	769.200	512.287	384.600	307.680	256.912	219.991	192.300	170.762	153.840	139.994	127.687
70	714.250	475.691	357.125	285.700	238.560	204.275	178.562	158.563	142.850	129.993	118.565
75	666.650	443.989	333.325	266.660	222.661	190.661	166.662	147.996	133.330	121.330	110.664
80	625.000	416.250	312.500	250.000	208.750	178.750	156.250	138.750	125.000	113.750	103.750

Calculating seed quantity per hectare

Example: Sweet onion

First decide the row spacing. In this case we use 45 cm. To select seed spacing the desired amount of plants per metre should be considered along with the expected emergence rate for the specific seed lot. We wish 40 onions per meter. At 100% emergence rate we need 40 seeds.

We expect though our onion to emerge for 80%, which means we need $40 : 0,8 = 50$ seeds/metre. In the table we see that 50 seeds per metre gives 1.111.100 seeds/ha. If we estimate the seed count to be 250 seeds

per gram, we need $\frac{1.111.100}{250} = 4.500$ gram per hectare.



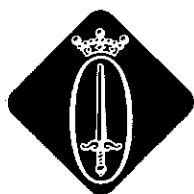
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