



Seed Charts

Seed Drills for Multidrill, Ceria and MegaDrill

Follow the instructions in the operating manual!

Because of the various thousand grain weights (Tausandkorngewichte – TKG), dressing and other seed –specific characteristics, the values in the sowing table are only shown as approximate values. In every instance a turning test should be carried out before sowing.

Important instructions!

1. A pre-turn of the sowing shaft is needed to fill the sowing elements.
 - ca. 10 rotations of the sowing shaft before the actual turning test
 - with grains around 1 turning trough full. Beforehand align the machine exactly horizontal behind the seed-box topAfter ca. 500m stretch a check of the control turning should be carried out.
2. With the upper discharge system seed types up to 3.5 mm thick (all grain types in the lower discharge system) are fundamentally drilled in chute position "0".
Chute position "1" is used when there is spraying or destruction (audible cracks) of seeds in the lower discharge system with large numbers of seed parts falling out.
3. With the upper discharge system, e.g. of rape, adjusting of the shut-off slide takes place depending on the free flow of seeds. The necessary practical monitoring of the free flow and the required adjusting of the shut-off slide is described in the chapter entitled "Grain test" in the operating manual and on page 2 of the sowing table.
4. If rape-seeds are sown in the lower discharge system, fine seed finger is then always engaged and chute position "0" is used.
5. In the lower discharge system with very low seed amounts a gear-setting of under 10 is necessary. Then with the support halve the sowing shaft speed and double the gear setting value. Next turn again.

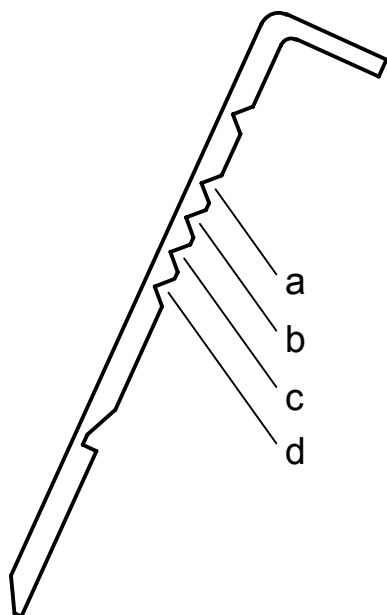
Grain test (for the upper discharge system, only Multidrill)

With the upper discharge system the correct position of the shut-off valve must absolutely be observed. This shutter position is dependent on the free flow of the seeds. It can be ascertained by the grain test.

To engage the correct shutter position the following procedure must be followed:

• Preparing the grain test

- close the valve
- fill the seed box with seeds (rape)
- place the emptying trough on the seed line beam (see "emptying" page 8)
- lock the shut-off valve in position "a"
- the chute remains in position "0"
- make at least 10 sowing shaft pre-turns



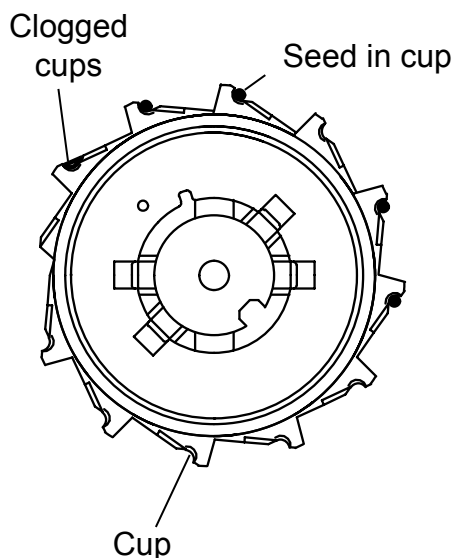
Carrying out the grain test:

- The grain is to be collected in one or more spouts while the crank handle is turned until the sowing shaft has completed an exact rotation.

The correct shutter position is reached when 36+/-4 seeds per spout have been run out in one sowing shaft rotation.

If in shutter position "a" more than 40 seeds per sowing shaft rotation are counted, the seed is not suitable for the upper discharge system.

If less than 32 seeds per sowing shaft rotation are counted the shut-off slides are to be locked in the next biggest shutter position (first "b", then "c" or "d").



Important instruction

- after every change in the shutter position at least 10 sowing shaft rotations should again be made
- the grain test should also be carried out during the work in order that the orderly function of the upper discharge system is guaranteed. Sometimes the seed amount is reduced through clogged cups. When this happens the cups should be cleaned out with a brush.

Position of the shut-off slide

1. for upper discharge system (only Multidrill)

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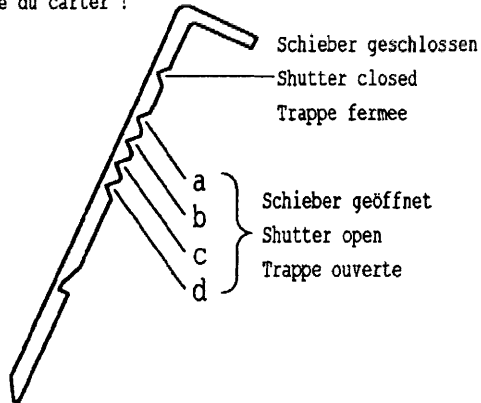
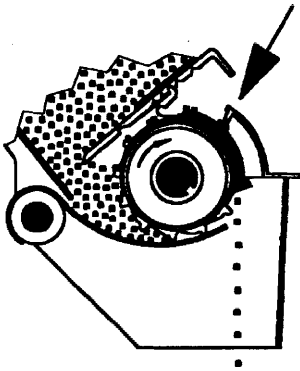
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Oberaussaat / Upper discharge system / Semis monograine

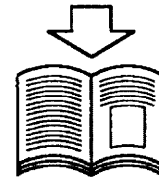
Federraste muß in mittlere Kerbe der Abdeckung einrasten !

Tension plate in central slot position !

Verrou dans encoche mediane du carter !



- Richtige Schieberstellung mit "Kornprobe" nach Betriebsanleitung ermitteln
- Korrekt shutter position acc. to "grain test" ref. manual
- Contrôler la position prescrite dans la notice par un essais



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2. for lower discharge system

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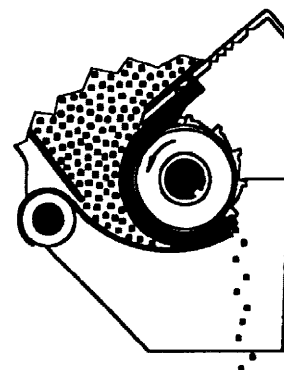
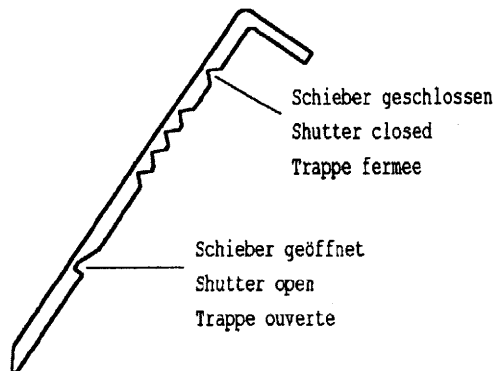
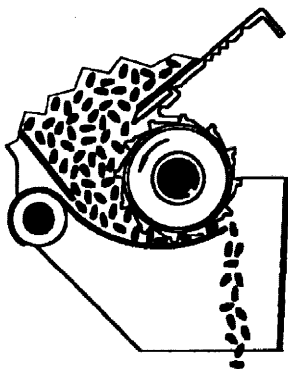
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Unteraussaat / Lower discharge system / Semis classique

ohne Reduziereinsatz
Without fine seed finger
sans carter de reduction

gleiche Schieberstellung
Same shutter position
Meme position de trappe

mit Reduziereinsatz
With fine seed finger
Avec carter de reduction



8521-01-008

Seed Chart

Seed	Barley								Wheat, rye, triticale						
Chute position	0*								0*						
Shutter position	Fully opened								Fully opened						
Sowing shaft rotation direction	Lower discharge system								Lower discharge system						
Additional accessories	-								-						
Tier spacing (cm)		10	12	13	14	15	16	17	10	12	13	14	15	16	17
Gear choice	5														
	10														
	15														
	20														
	25	94							109	91	84				
	30	112	93						132	110	101	94	88		
	35	131	109	100	93				154	128	118	110	102	96	90
	40	149	124	114	106	99	93		175	146	135	125	117	109	103
	45	168	140	129	120	112	105	99	197	164	151	140	131	123	115
	50	190	158	146	135	126	118	111	220	183	169	157	146	137	129
	55	205	171	158	146	137	128	121	241	201	185	172	161	151	142
	60	224	187	171	160	150	140	132	262	219	202	188	175	164	154
	65		202	186	173	162	151	142		237	218	203	190	178	167
	70			200	186	174	162	153			234	218	204	192	180
	75				200	186	174	164				234	219	205	193
	80					199	185	175					233	219	206
	85						197	185						232	218
90							197							231	
Important: the seed amounts provided in the sowing table in kg/ha are only standard values. The exact seed amounts can only be ascertained by a turning test															

* seed types up to 3.5 mm thick (all grain types) are fundamentally drilled with chute position "0".
Chute position "1" is used with seeds of over 3.5mm thick when it comes to spraying or destroying (audible cracks) the seeds.

Seed Chart

Seed	Oats								Pea							
Chute position	0*								4 oder 5 **							
Shutter position	Fully opened								Fully opened							
Sowing shaft rotation direction	Lower discharge system								Lower discharge system							
Additional accessories	-								-							
Tier spacing (cm)		10	12	13	14	15	16	17	10	12	13	14	15	16	17	
Gear choice	5															
	10								122	102						
	15								184	153	141	131	122	115		
	20								245	204	188	175	163	153	145	
	25								306	255	235	220	205	191	180	
	30	80							367	306	282	262	245	230	216	
	35	94	78						428	357	330	305	286	268	252	
	40	107	89	82					490	408	376	350	326	305	288	
	45	120	100	92	86				550	460	424	393	367	345	325	
	50	133	111	102	95	89	83		612	510	470	437	408	382	360	
	55	146	122	117	104	98	91	86								
	60	161	134	124	115	107	100	94								
	65	174	145	134	124	116	109	102								
	70	187	156	144	134	125	117	110								
	75		167	154	143	134	125	118								
	80			164	152	143	133	125								
85				162	152	142	133									
90						150	142									

Important: the seed amounts provided in the sowing table in kg/ha are only standard values. The exact seed amounts can only be ascertained by a turning test

* seed types up to 3.5 mm thick (all grain types) are fundamentally drilled with chute position "0".
 Chute position "1" is used with seeds of over 3.5mm thick when it comes to spraying or destroying (audible cracks) the seeds.

Seed Charts

Seed	Grass							Phacelia								
Chute position	0							0								
Shutter position	Fully opened							Fully opened								
Sowing shaft rotation direction	Lower discharge system							Lower discharge system								
Additional accessories	Rotating agitator shaft "out" Hold agitator finger straight							Fine seed finger								
Tier spacing (cm)		10	12	13	14	15	16	17	10	12	13	14	15	16	17	
Gear choice	5	12	10,0	9,2	8,5	8	7,5	7	3,7	3,1	2,8					
	10	24	20	18	17	16	15	14	7,4	6,2	5,7	5,3	5,0	4,6	4,3	
	15	36	30	28	26	24	22	21	11,0	9,2	8,4	7,9	7,4	6,9	6,4	
	20	48	40	37	34	32	30	28	14,8	12,3	11,3	10,5	9,8	9,2	8,7	
	25	60	50	46	43	40	37	35	18,5	15,4	14,2	13,2	13,2	11,5	10,8	
	30	72	60	55	51	48	45	42	22,2	18,5	17,0	15,8	14,8	13,8	13,0	
	35	85	71	66	61	57	53	50		21,6	19,9	18,5	17,3	16,2	15,2	
	40	97	81	75	69	65	60	57			22,8	21,2	19,8	18,5	17,4	
	45													22,2	20,8	19,6
	50														23,1	21,7
	55															
	60															
	65															
	70															
	75															
	80															
85																
90																
Important: the seed amounts provided in the sowing table in kg/ha are only standard values. The exact seed amounts can only be ascertained by a turning test																

Seed Chart

Seed	Rape								Mustard						
Chute position	0								0						
Shutter position	Fully opened								Fully opened						
Sowing shaft rotation direction	Lower discharge system								Lower discharge (reduced) system						
Additional accessories	Fine seed finger*								Fine seed finger*						
Tier spacing (cm)		10	12	13	14	15	16	17	10	12	13	14	15	16	17
Gear choice	5	3,6	3,0	2,8					5,4						
	10	7,2	6,0	5,5	5,1	4,8	4,5	4,2	10,8	9,0	8,3	7,7			
	15	10,8	9,0	8,4	7,6	7,2	6,7	6,3	16,2	13,5	12,5	11,6	10,8	10,1	9,5
	20	14,4	12,0	11,1	10,1	9,6	9,0	8,4	21,6	18,0	16,6	15,4	14,4	13,5	12,7
	25	18,0	15,0	13,9	12,7	12,0	11,2	10,5		22,5	20,8	19,3	18,0	16,8	15,9
	30	21,6	18,0	16,8	15,2	14,4	13,5	12,6					21,6	20,3	19,0
	35	25,2	21,0	19,5	17,7	16,8	15,7	14,7							
	40		24,0	22,3	20,2	19,2	18,0	16,8							
	45				22,8	21,6	20,2	18,9							
	50						22,4	21,0							
	55														
	60														
	65														
	70														
	75														
	80														
85															
90															

Important: the seed amounts provided in the sowing table in kg/ha are only standard values. The exact seed amounts can only be ascertained by a turning test

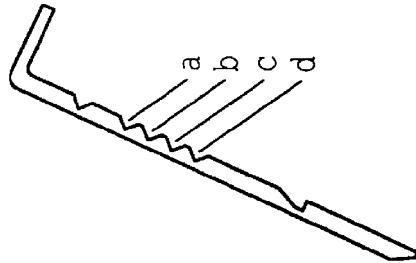
)* For foundations rape seeds and mustard seeds can also be sown without reducing sleeve.
Adjusting discharge rate is carried out using the accompanying coulter (see operating manual).

Rape

Upper discharge system (only MultidriII)

Chute position: 0

Slide position



- 1a for good flowing seed (incrusted, natural)
- 1b for normal flowing seed (powdered, abrasive)
- 1c for badly flowing seed (TGW > 6kg)
- 1d for very good flowing seed and from vibrations caused through very clumpy, stony soil or vibration transference from agricultural implements.

Gear position/lung	Theoretical seed space (cm)	Max. speed (km/h)	Seed amount							
			TGW (thousand grain weight) = 5 g			TGW (thousand grain weight) = 4 g				
			Tier spacing 10cm kg / ha	K / m ²	Tier spacing 12 cm K / m ²	Tier spacing 10cm kg / ha	Tier spacing 12 cm K / m ²	Tier spacing 12 cm kg / ha		
80	8,8	5,5	5,4	108	4,5	90	4,3	108	3,6	91
70	10	6,2	4,7	94	3,95	79	3,75	94	3,2	79
60	11,8	7,3*	4,1	83	3,3	69	3,3	83	2,85	69
50	14,1	8,7*	3,4	67	2,8	56	2,7	67	2,25	56
40	17,8	8,7*	2,7	54	2,25	45	2,15	54	1,8	45
30	23,5	8,7*	2	41	1,7	34	1,65	41	1,4	35
20	35,5	8,7*	1,35	27	1,1	21,5	1,1	28	0,9	22

Max. speed for inclines from 15% is 3.5 km/h

* It is recommended that a max. speed of 6 km/h should not be exceeded

Important: The discharge rates in kg/ha as given in the seed table are only approximate values.
The exact discharge rate can only be determined through a trial run (= calibrating)