

CALIBRATION CHARTS

MULTIDRILL

For further informations please refer to the operating instructions !

Because of the differences in specific weight, size and shape of seed, also the kind of dressing and method of treatments the figures stated in the charts can only be used as a guide.

The exact amount drilled can only be ascertained by physical calibration tests.

(1) It is essential to do first approx 10 turns clockwise with the calibration crank to ensure that all seed housings are completely filled with seed. Make sure that the drill is level in horizontal and vertical plane.

Repeat the calibration test after approx. 500 m distance in the field.

(2) Using the reversed rotation of the seed wheels (Upper Discharge System) for fine seed in the range of up to 3,5 mm thickness (all cereals must be drilled in the standard Normal Rotation (Bottom discharge System) the correct bottom flap position is always `0`.

The position `1` is only used when in Normal Rotation with larger sizes of seed the danger of grinding or cracking may occur which is audible.

(3) When drilling oil seed rape in Reversed Rotation the position of the slide gates depends on the flowing properties of the rape seed.

Judgement of the flowing properties and the position of the slide gates is descibed in the manual under „Seed Test“ and also on page 2 of the calibration chart.

(4) Drilling rape in the Normal Rotation the reduction fingers (white) must be fitted. and Bottom Flap position used in `0`.

(5) If for low seed rates Normal Rotation is used and the gearbox position is less than 10, it is necessary to use the option of halve the seed wheel revolutions to double the gearbox position.

A new calibration test is required afterwards !

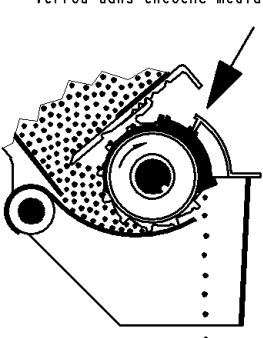
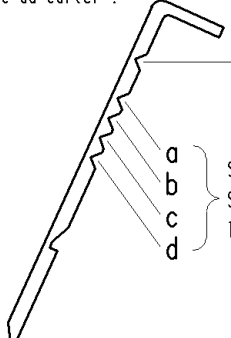
Slide gates position

1. For Reversed Rotation (upper discharge system)

9998.02.30 04/1999

Oberaussaat / Upper discharge system / Semis monograine

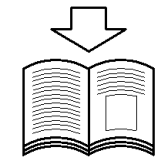
Federraste muß in mittlere Kerbe der Abdeckung einrasten !
 Tension plate in central slot position !
 Verrou dans encoche mediane du carter !

Schieber geschlossen
Shutter closed
Trappe fermee

a } Schieber geöffnet
b } Shutter open
c } Trappe ouverte
d }

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

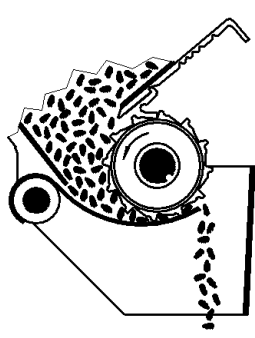
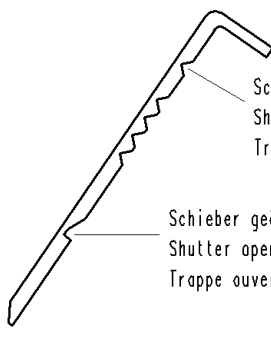



2. For Normal Rotation (lower discharge system)

9998.02.31 04/1999

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
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Schieber geschlossen
Shutter closed
Trappe fermee

Schieber geöffnet
Shutter open
Trappe ouverte

CALIBRATION CHART MULTIDRILL

Seeds		Barley						Wheat, Rye, Triticale							
Bottom Flap Position		0*						0*							
Slide Gate Position		Fully Open						Fully Open							
Sowing System		Lower Discharge						Lower Discharge							
Optional Equipment		-----						-----							
Row Spacing (cm)		10	12	13	14	15	16	17	10	12	13	14	15	16	17
Metering	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
Lever	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
Position	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

The figures stated are in kg/ha and can only be used as a guide.
The exact amount drilled can only be ascertained by physical calibration tests.

* For any seed in the range of up to 3,5 mm thickness (all grain types) the correct bottom flap position is always ' 0 '. The ' 1 ' position is only recommended for bigger sizes of seed when the danger of grinding or cracking may occur.

CALIBRATION CHART MULTIDRILL

Seeds	Oats							Hybrid Rye							
Bottom Flap Position	0*							0*							
Slide Gate Position	Fully Open							Fully Open							
Sowing System	Lower Discharge							Reduced Lower Discharge							
Optional Equipment	-----							-----							
Row Spacing (cm)	10	12	13	14	15	16	17	10	12	13	14	15	16	17	
Metering	20							59	49						
	25							73	61	56					
	30	80						89	74	68	52				
	35	94	78					103	86	79	63	59	55	52	
	40	107	89	82					118	98	90	74	69	64	61
Lever	45	120	100	92	86			134	112	103	84	78	73	69	
	50	133	111	102	95	89	83	148	123	113	96	90	84	79	
Position	55	146	122	117	104	98	91	86				105	98	92	87
	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								

The figures stated are in kg/ha and can only be used as a guide.
The exact amount drilled can only be ascertained by physical calibration tests.

* For any seed in the range of up to 3,5 mm thickness (all grain types) the correct bottom flap position is always '0'. The '1' position is only recommended for bigger sizes of seed when the danger of grinding or cracking may occur.

CALIBRATION CHART MULTIDRILL

Seeds	Grass Seed							Phacelia							
Bottom Flap Position	0							0							
Slide Gate Position	Fully Open							Fully Open							
Sowing System	Lower Discharge							Lower Discharge							
Optional Equipment	-----							Special Reducing Cover							
Row Spacing (cm)	10	12	13	14	15	16	17	10	12	13	14	15	16	17	
Metering	5	12	10	9,2	8,5	8	7,5	7	3,7	3,1	2,8	5,3	5,0	4,6	4,3
	10	24	20	18	17	16	15	14	7,4	6,2	5,7	7,9	7,4	6,9	6,4
	15	36	30	28	26	24	22	21	11	9,2	8,4	10,5	9,8	9,2	8,7
	20	48	40	37	34	32	30	28	14,8	12,3	11,3	13,2	13,2	11,5	10,8
	25	60	50	46	43	40	37	35	18,5	15,4	14,2	15,8	14,8	13,8	13,0
	30	72	60	55	51	48	45	42	22,2	18,5	17,0	18,5	17,3	16,2	15,2
Lever	35	85	71	66	61	57	53	50		21,6	19,9	21,2	19,8	18,5	17,4
	40	97	81	75	69	65	60	57			22,8		22,2	20,8	19,6
Position	45													23,1	21,7
	50														
	55														
	60														
	65														
70															
75															

The figures stated are in kg/ha and can only be used as a guide.
The exact amount drilled can only be ascertained by physical calibration tests.

* For any seed in the range of up to 3,5 mm thickness (all grain types) the correct bottom flap position is always '0'. The '1' position is only recommended for bigger sizes of seed when the danger of grinding or cracking may occur.

CALIBRATION CHART MULTIDRILL

Seeds	Oil Seed Rape							Mustard							
Bottom Flap Position	0							0							
Slide Gate Position	Fully Open							Fully Open							
Sowing System	Lower Discharge							Lower Discharge							
Optional Equipment	Special Reducing Cover							Special Reducing Cover							
Row Spacing (cm)	10	12	13	14	15	16	17	10	12	13	14	15	16	17	
Metering	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	10,8	10,1	9,5
	15	10,8	9,0	8,4	7,6	7,2	6,7	6,3	16,2	13,5	12,5	11,6	14,4	13,5	12,7
	20									18,0	16,6	15,4	18,0	16,8	15,9
	25									22,5	20,8	19,3	21,6	20,2	19,0
Lever	30														
	35														
	40														
Position	45														
	50														
	55														
	60														
	65														
70															
75															

The figures stated are in kg/ha and can only be used as a guide.
The exact amount drilled can only be ascertained by physical calibration tests.

* For any seed in the range of up to 3,5 mm thickness (all grain types) the correct bottom flap position is always ' 0 '. The ' 1 ' position is only recommended for bigger sizes of seed when the danger of grinding or cracking may occur.

CALIBRATION CHART MULTIDRILL

Seeds	Peas													
Bottom Flap Position	4 or 5*													
Slide Gate Position	Fully Open													
Sowing System	Lower Discharge													
Optional Equipment	-----													
Row Spacing (cm)	10	12	13	14	15	16	17	10	12	13	14	15	16	17
Metering	5													
	10	122	102											
	15	184	153	141	131	122	115	145						
	20	245	204	188	175	163	153	180						
	25	306	255	235	220	205	191	216						
Lever	30	367	306	282	262	245	230	252						
	35	428	357	330	305	286	268	288						
	40	490	408	376	350	326	305	325						
Position	45	550	460	424	393	367	345	360						
	50	612	510	470	437	408	382							
	55													
	60													
	65													
70														
75														

The figures stated are in kg/ha and can only be used as a guide.
The exact amount drilled can only be ascertained by physical calibration tests.

* For any seed in the range of up to 3,5 mm thickness (all grain types) the correct bottom flap position is always '0'. The '1' position is only recommended for bigger sizes of seed when the danger of grinding or cracking may occur.

DRILLING OF OIL SEED RAPE IN UPPER DISCHARGE SYSTEM

- Slide Gate Position:
- 1a For well flowing seed (incrusted, natural)
 - 1b For normal flowing seed (powder dressed, talced)
 - 1c For poor flowing seed (TGW - Thousand grain weight over 6 g)
 - 1d For very well flowing seed and when vibrations are being transferred from cloddy or stoney soil or from the rotary harrow.

Bottom Flap Position: 0

Metering Lever Position	Theoretical Seed Spacing cm	Max. Working Speed km/h	Seed Rate							
			TGW = 5g		TGW = 4g		TGW = 4g			
			Row Spacing 10 cm kg/ha	Row Spacing 12 cm Grains/sqm	Row Spacing 10 cm kg/ha	Row Spacing 12 cm Grains/sqm	Row Spacing 10 cm kg/ha	Row Spacing 12 cm Grains/sqm		
100	7,1	4,4	6,7	135	5,6	112	5,4	135	4,45	111
90	7,85	4,9	6	121	5	100	4,8	121	4	100
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

Reduce working speed to 3,5 km/h on slopes which are tilting more than 15%.
The recommended speed under normal conditions is 6 km/h.