

Seed Rate – Setting Chart

for

AMAZONE-Seed Drills D8 SUPER

AMAZONE-Seed Drills D8 SPECIAL

AMAZONE-Pack Top Seed Drills AD 2

AMAZONE-Tyre Packer Pack Top Seed Drills RP-AD 2

AMAZONEN-WERKE



Setting the seed rate

Short explanation with an example:

Wanted is:

1. Type of seed

Seed rate: 125 kg/ha

Row spacing: 11,9 cm, with AMAZONE Seed Drill D8 SUPER

Proceed with the following settings on your seed drill:

2. Shutter slide position

Bottom flap position

Normal- or fine seed metering wheel

Hints: e. g. stop agitator shaft

Use setting chart to determine the gearbox setting No. for the first calibration test:

3. Given row spacing

4. Given seed rate (kg/ha)

5. Type of seed drill

6. Gearbox setting No. for first calibration test

Seed	Shutter slide-position	open	Type of seed drill
	Bottom flap position	2	D8 SUPER D8 SPECIAL
	Type of metering wheel	Normal-metering wheel	RP-AD 2 AD 2
	Hints		
Row spacing (cm)			Gearbox setting No.
8	10	11	20 23
54	43	39 36	30 34
81	65	59 54	40 45
108	86	79 72	50 56
135	108	98 90	60 68
162	130	118 108	70 79
189	151	137 126	



The seed rates shown in the setting table (kg/ha) can only serve as reference values. Therefore conduct calibration trials to accurately determine seed rates.

Important advice which you should consider before every calibration test!

In your seed drill instruction manual there are detailed instructions regarding the procedure of the calibration test. Additionally we would like to inform you about the changes in the flowing properties of seeds and the effects on the calibration test.

Therefore please consider the following advice:

Seeds for sowing are available with various surface treatments, which could be:

- untreated seeds
- seeds treated with powdered (dry) dressings
- seeds treated with moist (liquid) dressings

All the above mentioned differently treated seeds will have different flowing properties. Additionally these flowing properties are changed by the reaction of the dressing to ambient conditions such as temperature or humidity of the air.

Points to note:

Point 1: Whenever getting a new shipment of seed **always conduct a calibration test.**

Point 2: In every case the **seedbox should be half filled** with seed.

Point 3: Before starting a calibration test the metering wheels and metering wheel housings should be filled with seed which can be achieved by turning the calibration crank until **the calibration trays are full**. Thereafter they should be emptied into the seed box again. The reason is that mechanical influences, especially the work of the agitator shaft, can also influence the flowing properties. With fine seeds the calibration trays need not be completely filled; here about 200 crank turns are sufficient.

At most dressed seed a balance situation will then have been achieved and the seed rate does not change during the sowing operation.

With dry dressed seeds the balance situation, however, can be fulfilled very often after only having sown two to three seed box fillings.

Point 4: **With dry dressed seeds the calibration test should be repeated** after two to three seed box fillings.

Point 5: On the **first operation** of the seed drill the calibration test should be repeated after approx. 1 ha. sown, as with new machines the surfaces of the metering components are changed by residue of seed dressing which then again will have an affect on the flowing properties of the seed or of the seed rate.

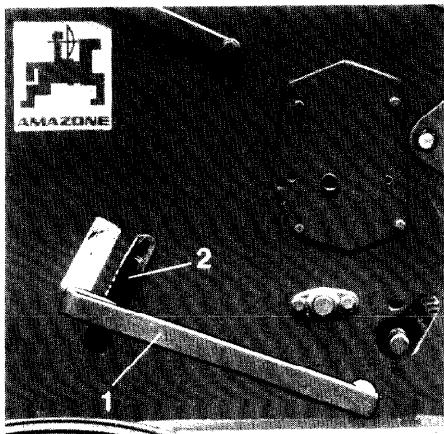


Fig. 1

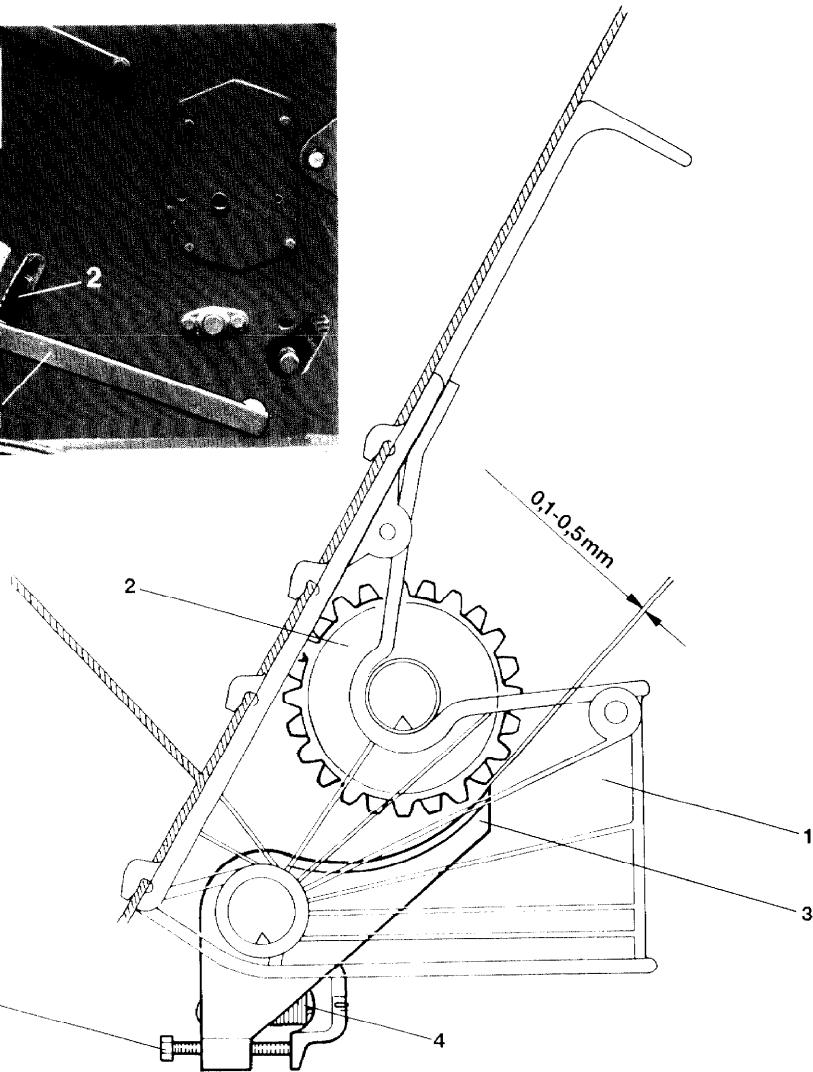


Fig. 2

Point 6: If the bottom flaps are mis-adjusted this can result in uncontrolled metering of additional seed during the sowing operation. The **basic adjustment of the bottom flaps** therefore **should be checked** every half year or before every sowing season. It should be checked on an empty seed box and empty metering wheel housings as follows:

- Bring bottom flap stetting lever (Fig. 1/1) at the resting plate (Fig. 1/2) into position “1”.
- Check, whether the prescribed gab of 0.1 mm to 0.5 mm (see Fig. 2) between bottom flap (Fig. 2/3) and metering wheel (fig. 2/2) in every metering wheel housing (Fig. 2/1) is maintained. To do this the metering wheel to be checked should be turned by hand on the metering shaft.

If found necessary reset the prescribed gap at the spring tensioning screw (Fig. 2/5).

Advice regarding the seed rate setting charts:

The setting position of the bottom flap lever depends on the seed and may be taken from the setting charts. At some seeds two figures are stated. The first figure then refers to seeds with 1000 grain weight (TGW) of above 40 g, the second figure is related to a TGW of below 40 g.

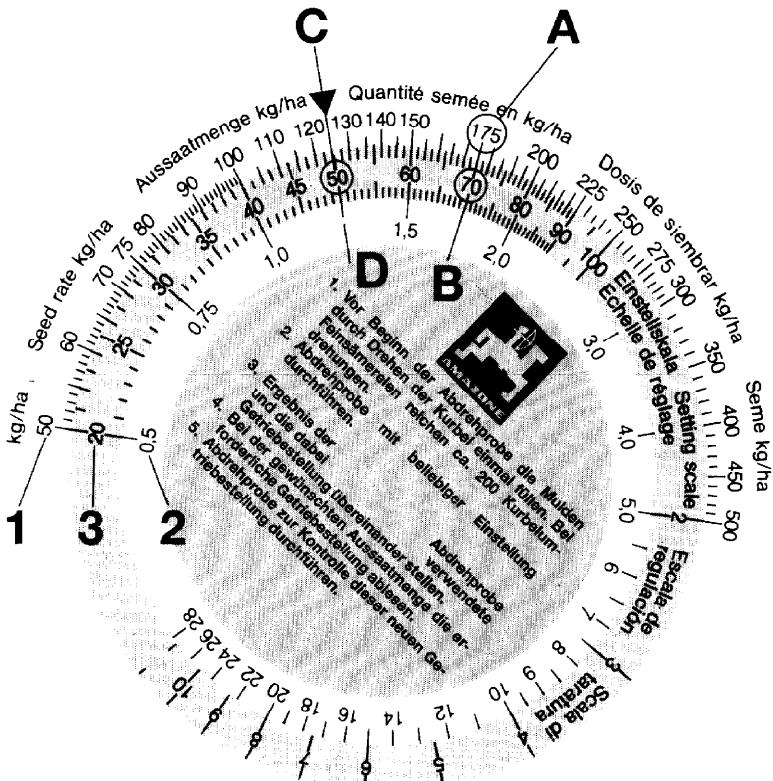


Fig. 3

1. Before beginning the calibration test fill trays by cranking. For fine seeds abt. 200 crank turns suffice.
2. Conduct calibration test with a setting of your choice.
3. Turn the disc until the weight figure determined by the calibration test is opposite to the gearbox setting figure used.
4. Now look for the desired seed rate figure. Opposite this you will find the corresponding gearbox setting figure.
5. To confirm this new gearbox setting a new calibration test is recommended.
1. Antes de comenzar con el ensayo, llenar una vez las bandejas mediante giro de manivela. Para semillas finas bastan aprox. 200 vueltas de manivela.
2. Realizar la prueba en vacío con cualquier número de posición de la transmisión.
3. Establecer la relación mediante el disco de cálculo, entre el peso recogido en la prueba y el número de posición de la transmisión.
4. Leer en el disco de cálculo, bajo la dosis deseada de siembra, el número de posición que al corresponde.
5. Realizar de nuevo la prueba con este nuevo número a fin de comprobar la exactitud de la dosis.
1. For indsæningen påbegyndes skal indsæningsbakkerne fyldes en gang med sasæd ved drejning på håndsvinget. Ved fin kornede frøsorter er det tilstrækkeligt at dreje ca. 200 omdrejninger på håndsvinget.
2. Gennemføre indsæningsprøven med vilkårlig indstilling.
3. Resultat af indsæningsprøven og den derved anvendte gearkassestilling sættes over for hinanden.
4. Den krævede gearkassestilling aflæses ud for den ønskede udseædmængde.
5. Indsaningsprøve til kontrol af den nye gearkassestilling gennemføres.

Determination of the gearbox scale setting No. with the aid of the seed rate calculation disc rule (Fig. 3)

If the first calibration test does not bring the desired seed rate, the new gearbox scale lever setting for the correct seed rate can simply be determined by the enclosed seed rate calculation disc rule (Fig. 3). This disc rule consists of 3 scales: One outer white scale (Fig. 3/1) for all seed rates above 30 kg/ha and an inner white scale (Fig. 3/2) for all seed rates below 30 kg/ha. On the middle coloured scale (Fig. 3/3) the gearbox lever scale setting No.'s from 1 to 100 are indicated:

How to use the disc rule (example)

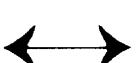
Desired seed rate: 125 kg/ha

- From the first calibration test conducted at a gearbox lever setting of "70" (any other gear box lever setting may also be chosen) a seed rate of 175 kg/ha was obtained.
- Now turn the inner disc until the obtained seed rate of "175 kg/ha" (Fig. 3/A) is in line with the related actual gearbox lever setting No. of "70" (Fig. 3/B).
- Now read off the disc rule the necessary gear box lever setting No. for the required seed rate of 125 kg/ha (Fig. 3/C). In our example the correct setting No. is "50" (Fig. 3/D).

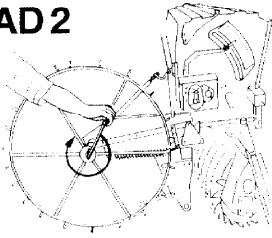
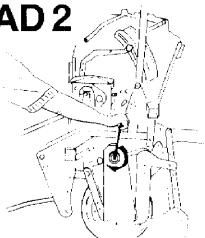
To be on the safe side you may check the new gear box lever setting No. by another calibration test.

Calibration test

The number of necessary wheel turns is related to an area of $\frac{1}{40}$ ha (250 m^2) or $\frac{1}{10}$ ha (1000 m^2) and depends on the tyre size and the working width.

AMAZONE-seed drills w. 2-range gearbox		D8 SUPER D8 SPECIAL	
Tyre-size	Working width	 wheel turns $\frac{1}{40} \text{ ha}$ $\frac{1}{10} \text{ ha}$	
5.00-16	2,5 m	49,5	197,0
	3,0 m	41,0	164,0
6.00-16	2,5 m	46,0	185,0
	3,0 m	38,5	154,0
10.0/75-15	4,0 m	28,0	112,0
31x15,50-15	3,0 m	36,0	144,0
	4,0 m	27,0	108,0
	6,0 m	18,0	72,0
11.5/80-15	4,5 m	22,0	88,0
	6,0 m	16,5	66,0

Tyre-size	Conversion factor for other working widths	
	$\frac{1}{40} \text{ ha}$	$\frac{1}{10} \text{ ha}$
5.00-16	123,0	492,0
6.00-16	115,5	462,0
10.0/75-15	112,0	448,0
31x15,50-15	108,0	432,0
11.5/80-15	99,0	396,0

	AMAZONE Pack Top seed drill AD-2 AD 2 	AMAZONE Tyre Packer Pack Top seed drills RP-AD-2 RP-AD 2 		
Working width	crank turns at star wheel diameter 1,18 m			
	1/40 ha	1/10 ha	1/40 ha	1/10 ha
2,5 m	27,0	108,0	59,0	235,0
3,0 m	22,5	90,0	49,0	196,0
4,0 m	17,0	67,5	37,0	147,0
4,5 m	15,0	60,0	33,0	130,5
6,0 m	—	—	24,5	98,0
Conversion factor	67,5	270,0	147,0	588,0

Calculating the number of wheel/crank turns for other working widths

For other working widths the number of wheel/crank turns can be calculated by using the mentioned conversion factor as follows:

Take the conversion factor from the above table.

Number of hand crank turns on $\frac{1}{40}$ ha (250 sqm) =	$\frac{\text{conversion factor}}{\text{(working width (m))}}$
Number of hand crank turns on $\frac{1}{10}$ ha (1000 sqm)=	$\frac{\text{conversion factor}}{\text{(working width (m))}}$

Calculating the seed rate in kg/ha

The collected seed quantity is weighed and multiplied by the factor "40" (at $\frac{1}{40}$ ha) or factor "10" (at $\frac{1}{10}$ ha). The calculated seed rate is equivalent to the seed rate in kg/ha.

Calibrated seed quantity for $\frac{1}{40}$ ha \times 40 = seed rate in kg/ha
Calibrated seed quantity for $\frac{1}{10}$ ha \times 10 = seed rate in kg/ha

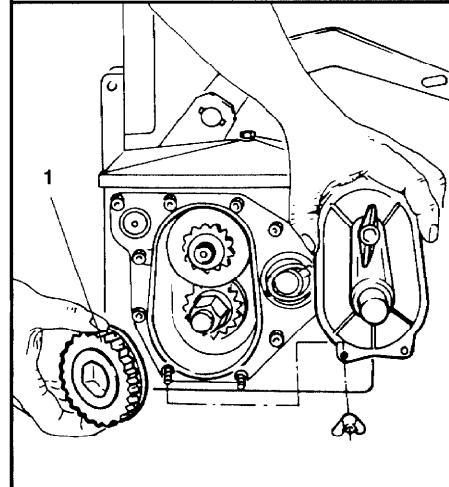
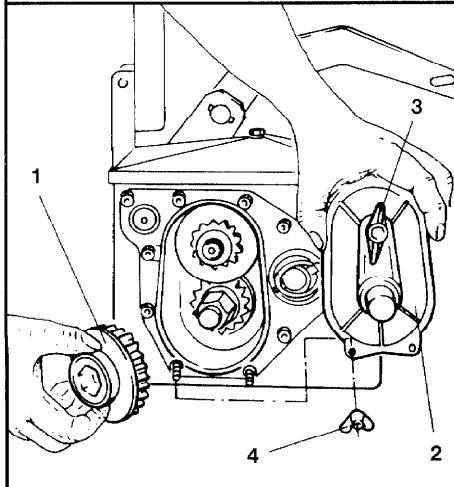
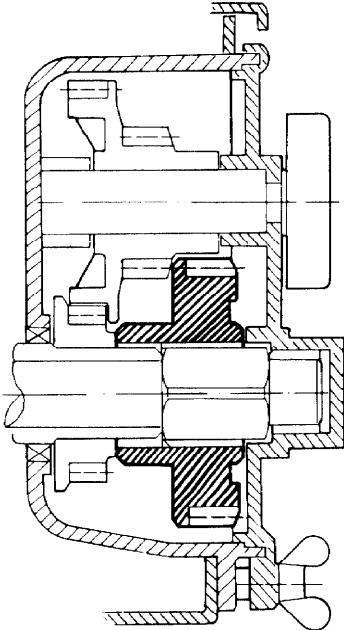
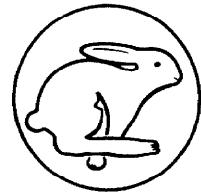
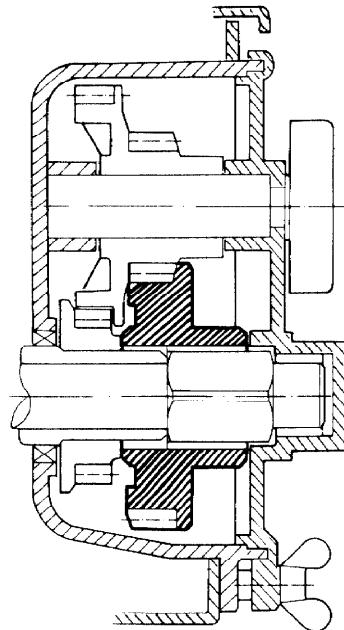
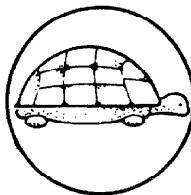


Fig. 4

Fig. 5

Hints for sowing with the stepless variable gearbox with two range low/high rate adjuster

The AMAZONE seed drill gearbox allows a stepless change of the metering shaft and thus of the seed rate. Two shaft speeds can be selected by turning a pinion of the low/high rate adjuster:

low rate (ref. Fig. 4/A)	high rate (ref. Fig. 4/B)
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By changing the gearbox from low to high rate the setting range of the setting scale is increased. The factory supplies the gearboxes always set on the low rate. The high rate should only then be used when at setting "100" on the scale in the low rate the desired seed rate cannot be obtained.

Setting the gearbox to high seed rate setting

If it is necessary to change the gearbox from low to high rate, open the side cover (Fig. 4/2) at the gearbox housing by undoing the thumb bolt (Fig. 4/3) and the two thumb nuts.

Pull the lower pinion off the shaft (Fig. 4/1) and reinsert it after turning it as shown in Fig. 5/1. If it is impossible to remove the pinion by hand move the metering shaft with a pair of pliers in the turning direction of the shaft until the pinion can be removed easily from the shaft.

Whilst the pinion in the low rate setting (Fig. 4) is being driven by the upper pinion, it is running free when in the high rate setting (Fig. 5). After changing the position of the pinion put on cover again.

Determining the gearbox setting number after conversion to high seed rate

For determining the correct gearbox setting No. after conversion to high rate setting conduct your first calibration test e.g. with the gearbox setting No. "50". With the weight of seed collected find your correct setting with the aid of the setting disc rule.

For the first calibration test the gearbox setting No. can also be calculated by the seed rate chart as follows:

Divide the desired seed rate (kg/ha) by 3 and take from the setting table that setting No. which corresponds to the calculated seed rate. Now conduct your first calibration test with this gearbox setting No.

Contents of seed setting charts

(Note: "0... kg/l" is bulk density of the seed)

"TGW" stands for "thousand grain weight"

	Page
Dinkel (spelt)	2
Oats, moist dressed	3
Rye, moist dressed (normal metering wheel)	4
Rye, moist dressed (fine seed metering wheel)	5
Spring Barley, moist dressed	6
Winter Barley, moist dressed	7
Wheat, moist dressed	8
(Horse) Beans, small (normal metering wheel)	10
(Horse) Beans, large (bean metering wheel)	11
Peas	12
Grass-seed	13
Sorghum	14
Lupines	15
Alfalfa (Lucerne) (normal metering wheel)	16
Alfalfa (Lucerne) (fine seed metering wheel)	17
Oil-Radish (normal metering wheel)	18
Oil-Radish (fine seed metering wheel)	19
Phacelia (normal metering wheel)	20
Phacelia (fine seed metering wheel)	21
Rape seed (incrusted - pilleted)	22
Rape seed, not dressed	23
Red Clover (normal metering wheel)	24
Red Clover (fine seed metering wheel)	25
Mustard (normal metering wheel)	26
Mustard (fine seed metering wheel)	27
Soybeans	28
Sunflowers	29
Late turnip	30
Vetches	31
Flax	32

For any seeds which are not mentioned in the setting chart we recommend for the first calibration test to look for corresponding values of another seed having a similar size of the grain.

If the **first** calibration test did not result in the desired seed rate the new gearbox lever scale setting for the correct seed rate can simply be determined by the enclosed seed rate calculation disc rule (please refer to the corresponding chapter).

Dinkel (spelt) 0,76 kg/Ltr.	Shutter slide position	open	Type of seed drill								
	Bottom flap position	2	D8 SUPER	D8 SPECIAL							
	Type of metering wheel	Normal metering wheel	RP-AD 2	AD 2							
	Hints										
Row spacing (cm)			Gearbox setting No.								
8	10		11	12	13	14	15				
66	53		48	44		41	38	35		20	23
99	79		72	66		61	57	53		30	34
132	106		96	88		81	75	70		40	45
165	132		120	110		102	94	88		50	56
198	158		144	132		122	113	106		60	68
231	185		168	154		142	132	123		70	79
264	211		192	176		162	151	141		80	90
297	238		216	198		183	170	158		90	100
330	264		240	220		203	189	176		100	
Seed rate in kg/ha											Setting table for sowing in slow gearbox ratio
Reference figures! Always conduct calibration trials!											

Oats moist dressed 0,62 kg/Ltr.	Shutter slide position	open	Type of seed drill									
	Bottom flap position	2										
	Type of metering wheel	Normal metering wheel	D8 SUPER D8 SPECIAL	RP-AD 2 AD 2								
	Hints											
Row spacing (cm)				Gearbox setting No.								
8	10		11	12		13	14	15				
54	43		39	36		33	31	29		20	23	
81	65		59	54		50	46	43		30	34	
108	86		79	72		66	62	58		40	45	
135	108		98	90		83	77	72		50	56	
162	130		118	108		100	92	86		60	68	
189	151		137	126		116	108	101		70	79	
216	173		157	144		133	123	115		80	90	
243	194		176	162		150	139	130		90	100	
270	216		196	180		166	154	144		100		
Seed rate in kg/ha				Setting table for sowing in slow gearbox ratio								
Reference figures! Always conduct calibration trials!												

Rye moist dressed 0,83 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill					
	Bottom flap position	2	D8 SUPER	D8 SPECIAL				
	Type of metering wheel	Normal metering wheel	RP-AD 2	AD 2				
	Hints							
Row spacing (cm)			Gearbox setting No.					
8	10	11	12	13	14	15		
54	43	39	36	33	31	29	20	23
81	65	59	54	50	46	43	30	34
108	86	79	72	66	62	58	40	45
135	108	98	90	83	77	72	50	56
162	130	118	108	100	92	86	60	68
189	151	137	126	116	108	101	70	79
216	173	157	144	133	123	115	80	90
243	194	176	162	150	139	130	90	100
270	216	196	180	166	154	144	100	
Seed rate in kg/ha					Setting table for sowing in slow gearbox ratio			
Reference figures! Always conduct calibration trials!								

Rye moist dressed 0,83 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill					
	Bottom flap position		2					
	Type of metering wheel	Fine seed metering wheel	D8 SUPER D8 SPECIAL	RP-AD 2 AD 2				
	Hints							
Row spacing (cm)				Gearbox setting No.				
8	10	11	12	13	14	15		
14	11	10	9	9	8	7	20	23
21	17	15	14	13	12	11	30	34
28	22	20	19	17	16	15	40	45
35	28	25	23	22	20	19	50	56
42	34	31	28	26	24	22	60	68
49	39	36	33	30	28	26	70	79
56	45	41	37	34	32	30	80	90
63	50	46	42	39	36	34	90	100
70	56	51	47	43	40	37	100	
Seed rate in kg/ha				Setting table for sowing in slow gearbox ratio				
Reference figures! Always conduct calibration trials!								

Winter Barley moist dressed 0.68 kg/Ltr.			Shutter slide position	open		Type of seed drill			
			Bottom flap position	2		D8 SUPER			
			Type of metering wheel	Normal metering wheel		D8 SPECIAL			
			Hints			RP-AD 2	AD 2		
Row spacing (cm)							Gearbox setting No.		
			8	10	11	12	13	14	15
			71	57	52	47	44	40	38
			106	85	77	71	65	61	57
			142	113	103	94	87	81	76
			177	142	129	118	109	101	94
			212	170	154	142	131	121	113
			248	198	180	165	152	142	132
			283	227	206	189	174	162	151
			319	255	232	212	196	182	170
Seed rate in kg/ha							Setting table for sowing in slow gearbox ratio		
Reference figures! Always conduct calibration trials!									

kg/Ltr.	Shutter slide position		Type of seed drill								
	Bottom flap position										
	Type of metering wheel										
	Hints										
Row spacing (cm)		Gearbox setting No.									

Horse beans, small 0,86 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill									
	Bottom flap position	6										
	Type of metering wheel	Normal metering wheel										
	Hints											
Row spacing (cm)					Gearbox setting No.							
15	20		25	30		35	40	45		20	23	
94	70		56	47		40	35	31		30	34	
140	105		84	70		60	53	47		40	45	
187	140		112	94		80	70	62		50	56	
234	176		140	117		100	88	78		60	68	
281	211		168	140		120	105	94		70	79	
328	246		197	164		140	123	109		80	90	
374	281		225	187		160	140	125		90	100	
421	316		253	211		181	158	140		100		
468	351		281	234		201	176	156				
Seed rate in kg/ha										Setting table for sowing in slow gearbox ratio		
Reference figures! Always conduct calibration trials!												

Horse beans, large 0,83 kg/Ltr.	Shutter slide position	open		Type of seed drill											
	Bottom flap position	8		D8 SUPER											
	Type of metering wheel	Bean metering wheel		D8 SPECIAL											
	Hints			RP-AD 2 AD 2											
Row spacing (cm)					Gearbox setting No.										
15	20		25	30		35	40	45							
98	74		59	49		42	37	33		20	23				
148	111		89	74		63	55	49		30	34				
197	148		118	98		84	74	66		40	45				
246	185		148	123		105	92	82		50	56				
295	222		177	148		127	111	98		60	68				
344	259		207	172		148	129	115		70	79				
394	296		236	197		169	148	131		80	90				
443	333		266	221		190	166	148		90	100				
492	370		295	246		211	185	164		100					
Seed rate in kg/ha												Setting table for sowing in slow gearbox ratio			
Reference figures! Always conduct calibration trials!															

Peas 0,82 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill								
	Bottom flap position	4									
	Type of metering wheel	Normal metering wheel									
	Hints										
Row spacing (cm)				Gearbox setting No.							
8	10		11	12	13	14	15				
151	121		110	101		93	86	81		20	23
227	181		165	151		140	130	121		30	34
302	242		220	202		186	173	161		40	45
378	302		275	252		233	216	202		50	56
454	363		330	302		279	259	242		60	68
529	423		385	353		326	302	282		70	79
605	484		440	403		372	346	323		80	90
680	544		495	454		419	389	363		90	100
Seed rate in kg/ha				Setting table for sowing in slow gearbox ratio							
Reference figures! Always conduct calibration trials!											

Grass seed 0.42 kg/Ltr.	Shutter slide position	open	Type of seed drill
	Bottom flap position	2	D8 SUPER D8 SPECIAL
	Type of metering wheel	Normal metering wheel	RP-AD 2 AD 2
	Hints		
Row spacing (cm)			Gearbox setting No.
8	10		11 12 13 14 15
8	7	6	5 5 4
17	13	12	11 10 9 9
33	26	24	22 20 19 18
50	40	36	33 31 28 26
66	53	48	44 41 38 35
83	66	60	55 51 47 44
99	79	72	66 61 57 53
116	92	84	77 71 66 62
132	106	96	88 81 75 70
Seed rate in kg/ha			Setting table for sowing in slow gearbox ratio
Reference figures! Always conduct calibration trials!			

Sorghum 0,84 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill					
	Bottom flap position	1	D8 SUPER	D8 SPECIAL				
	Type of metering wheel	Normal metering wheel	RP-AD 2	AD 2				
	Hints							
Row spacing (cm)				Gearbox setting No.				
40	45	50	55	60	65	70		
9	8	7	6	6	5	5	10	11
18	16	14	13	12	11	10	20	23
26	24	21	19	18	16	15	30	34
35	31	28	26	24	22	20	40	45
44	39	35	32	29	27	25	50	56
53	47	42	39	35	33	30	60	68
62	55	49	45	41	38	35	70	79
71	63	57	51	47	43	40	80	90
Seed rate in kg/ha				Setting table for sowing in slow gearbox ratio				
Reference figures! Always conduct calibration trials!								

Alfalfa (Lucerne) 0.86 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill									
	Bottom flap position	1										
	Type of metering wheel	Normal metering wheel										
	Hints											
Row spacing (cm)							Gearbox setting No.					
8	10		11	12		13	14	15				
20	16		15	14		13	12	11		5	6	
41	33		30	27		25	23	22		10	11	
81	65		59	54		50	47	43		20	23	
122	98		89	81		75	70	65		30	34	
Seed rate in kg/ha							Setting table for sowing in slow gearbox ratio					
Reference figures! Always conduct calibration trials!												

Alfalfa (Lucerne) 0,86 kg/Ltr.	Shutter slide position	3/4 open				Type of seed drill							
	Bottom flap position	1				D8 SUPER D8 SPECIAL	RP-AD 2 AD 2						
	Type of metering wheel	Fine seed metering wheel											
	Hints												
Row spacing (cm)								Gearbox setting No.					
8	10		11	12		13	14	15					
2,9	2,3		2,1	1,9		1,8	1,6	1,5					
5,7	4,6		4,2	3,8		3,5	3,3	3,1					
11,5	9,2		8,3	7,6		7,1	6,6	6,1					
17,2	13,8		12,5	11,5		10,6	9,8	9,2					
22,9	18,3		16,7	15,3		14,0	13,1	12,2					
28,7	22,9		20,8	19,1		17,6	16,4	15,3					
34,4	27,5		25,0	22,9		21,2	19,6	18,3					
40,1	32,1		29,2	26,7		24,7	22,9	21,4					
45,8	36,7		33,3	30,6		28,2	26,2	24,5					
Seed rate in kg/ha								Setting table for sowing in slow gearbox ratio					
Reference figures! Always conduct calibration trials!													

Oil Radish 0,73 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill					
	Bottom flap position	1						
	Type of metering wheel	Normal metering wheel						
	Hints	Agitator shaft stopped						
Row spacing (cm)					Gearbox setting No.			
10	15		20	25		30	40	50
13,6	9,1		6,8	5,4		4,5	3,4	2,7
27,2	18,1		13,6	10,7		9,1	6,8	5,4
40,7	27,2		20,4	16,3		13,6	10,2	8,2
54,3	36,2		27,2	21,7		18,1	13,6	10,7
67,9	45,3		33,9	27,2		22,6	17,0	13,6
81,5	54,3		40,7	32,6		27,2	20,4	16,3
95,0	63,4		47,5	38,0		31,7	23,8	19,0
Seed rate in kg/ha					Setting table for sowing in slow gearbox ratio			
Reference figures! Always conduct calibration trials!								

Oil Radish 0,73 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill												
	Bottom flap position	1													
	Type of metering wheel	Fine seed metering wheel													
	Hints	Agitator shaft stopped	D8 SUPER D8 SPECIAL	RP-AD 2 AD 2											
Row spacing (cm)				Gearbox setting No.											
10	15		20	25		30	40	50							
2,2	1,5		1,1	0,9		0,7	0,6	0,4		5	6				
4,4	2,9		2,2	1,8		1,5	1,1	0,9		10	11				
8,8	5,9		4,4	3,5		2,9	2,2	1,8		20	23				
13,2	8,8		6,6	5,3		4,4	3,3	2,6		30	34				
17,6	11,7		8,8	7,0		5,9	4,4	3,5		40	45				
22,0	14,7		11,0	8,8		7,3	5,5	4,4		50	56				
26,4	17,6		13,2	10,6		8,8	6,6	5,3		60	68				
Seed rate in kg/ha				Setting table for sowing in slow gearbox ratio											
Reference figures! Always conduct calibration trials!															

Phacelia (green manure)	0.64 kg/Ltr.	Shutter slide position	3/4 open			Type of seed drill					
		Bottom flap position	1			D8 SUPER					
		Type of metering wheel	Normal metering wheel			D8 SPECIAL					
		Hints				RP-AD 2	AD 2				
		Row spacing (cm)				Gearbox setting No.					
		8 10 11 12 13 14 15				5	6				
14,8		11,8	10,8		9,9	9,1	8,5	7,9			
29,6		23,7	21,5		19,7	18,2	16,9	15,8			
44,4		35,5	32,3		29,6	27,3	25,4	23,7			
59,2		47,4	43,1		39,5	36,4	33,8	31,6			
74,0		59,2	53,8		49,3	45,5	42,3	39,5			
88,8		71,0	64,6		59,2	54,6	50,7	47,4			
Seed rate in kg/ha											
Reference figures! Always conduct calibration trials!						Setting table for sowing in slow gearbox ratio					

Phacelia (green manure)	0,64 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill				
		Bottom flap position		1	D8 SUPER D8 SPECIAL	RP-AD 2 AD 2		
		Type of metering wheel		Fine seed metering wheel				
		Hints		Recommendation: Use normal metering wheel for rates above 12 kg/ha.				
Row spacing (cm)							Gearbox setting No.	
8	10		11	12		13	14	15
2,3	1,9		1,7	1,5		1,4	1,3	1,2
4,6	3,7		3,4	3,1		2,8	2,6	2,5
9,2	7,4		6,7	6,2		5,7	5,3	4,9
13,8	11,1		10,1	9,2		8,5	7,9	7,4
18,5	14,8		13,4	12,3		11,4	10,6	9,8
23,1	18,5		16,8	15,4		14,2	13,2	12,3
27,7	22,1		20,1	18,5		17,0	15,8	14,8
32,3	25,8		23,5	21,5		19,9	18,5	17,2
Seed rate in kg/ha							Setting table for sowing in slow gearbox ratio	
Reference figures! Always conduct calibration trials!								

Rape (incrusted, pilleted) 0,67 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill						
	Bottom flap position	1	D8 SUPER D8 SPECIAL						
	Type of metering wheel	Fine seed metering wheel	RP-AD 2 AD 2						
	Hints	Agitator shaft stopped							
Row spacing (cm)									Gearbox setting No.
10	15		20	25		30	40	50	
1,9	1,3		0,9	0,8		0,6	0,5	0,4	
3,8	2,5		1,9	1,5		1,3	0,9	0,8	
7,5	5,0		3,8	3,0		2,5	1,9	1,5	
11,3	7,5		5,6	4,5		3,8	2,8	2,3	
15,0	10,0		7,5	6,0		5,0	3,8	3,0	
18,8	12,5		9,4	7,5		6,3	4,7	3,8	
22,5	15,0		11,3	9,0		7,5	5,6	4,5	
26,3	17,5		13,1	10,5		8,8	6,6	5,3	
30,0	20,0		15,0	12,0		10,0	7,5	6,0	
Seed rate in kg/ha									Setting table for sowing in slow gearbox ratio
Reference figures! Always conduct calibration trials!									

Rape undressed 0,74 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill					
	Bottom flap position	1	D8 SUPER	D8 SPECIAL	RP-AD 2	AD 2		
	Type of metering wheel	Fine seed metering wheel						
	Hints	Agitator shaft stopped						
		Row spacing (cm)					Gearbox setting No.	
10	15		20	25		30	40	50
2,3	1,5		1,1	0,9		0,8	0,6	0,5
4,5	3,0		2,2	1,8		1,5	1,1	0,9
9,0	6,0		4,5	3,6		3,0	2,3	1,8
13,5	9,0		6,8	5,4		4,5	3,4	2,7
18,0	12,0		9,0	7,2		6,0	4,5	3,6
22,5	15,0		11,3	9,0		7,5	5,6	4,5
27,0	18,0		13,5	10,8		9,0	6,8	5,4
31,5	21,0		15,8	12,6		10,5	7,9	6,3
36,0	24,0		18,0	14,4		12,0	9,0	7,2
Seed rate in kg/ha								
Reference figures! Always conduct calibration trials!							Setting table for sowing in slow gearbox ratio	

Red Clover 0,88 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill						
	Bottom flap position	1	D8 SUPER D8 SPECIAL						
	Type of metering wheel	Normal metering wheel	RP-AD 2 AD 2						
	Hints	Agitator shaft stopped							
Row spacing (cm)			Gearbox setting No.						
8	10	11	12	13	14	15			
14,6	11,7	10,6	9,7	9,0	8,3	7,8	5	6	
29,2	23,4	21,2	19,5	18,0	16,7	15,6	10	11	
43,8	35,0	31,9	29,2	27,0	25,0	23,4	15	17	
58,4	46,7	42,5	38,9	35,9	33,4	31,1	20	23	
73,0	58,4	53,1	48,7	44,9	41,7	38,9	25	28	
Seed rate in kg/ha			Setting table for sowing in slow gearbox ratio						
Reference figures! Always conduct calibration trials!									

Red Clover 0,88 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill												
	Bottom flap position	1													
	Type of metering wheel	Fine seed metering wheel													
	Hints	Agitator shaft stopped	D8 SUPER D8 SPECIAL	RP-AD 2 AD 2											
Row spacing (cm)		Gearbox setting No.													
8	10		11	12		13	14	15							
2,3	1,8		1,7	1,5		1,4	1,3	1,2		5	6				
4,6	3,7		3,3	3,1		2,8	2,6	2,5		10	11				
9,2	7,4		6,7	6,1		5,7	5,3	4,9		20	23				
13,8	11,0		10,0	9,2		8,5	7,9	7,4		30	34				
18,4	14,7		13,4	12,3		11,3	10,5	9,8		40	45				
23,0	18,4		16,7	15,3		14,2	13,1	12,3		50	56				
27,6	22,1		20,1	18,4		17,0	15,8	14,7		60	68				
32,2	25,8		23,4	21,5		19,8	18,4	17,2		70	79				
36,8	29,4		26,8	24,5		22,6	21,0	19,6		80	90				
Seed rate in kg/ha												Setting table for sowing in slow gearbox ratio			
Reference figures! Always conduct calibration trials!															

Mustard 0,78 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill									
	Bottom flap position	1	D8 SUPER D8 SPECIAL	RP-AD 2 AD 2								
	Type of metering wheel	Normal metering wheel										
	Hints	Agitator shaft stopped										
Row spacing (cm)							Gearbox setting No.					
8	10		11	12		13	14	15				
36,6	29,3		26,6	24,4		22,5	20,9	19,5		10	11	
54,9	43,9		39,9	36,5		33,8	31,4	29,3		15	17	
73,2	58,6		53,2	48,8		45,0	41,8	39,0		20	23	
91,5	73,2		66,5	61,0		56,3	52,3	48,8		25	28	
109,8	87,8		79,9	73,2		67,6	62,7	58,6		30	34	
128,1	102,5		93,2	85,4		78,8	73,2	68,3		35	39	
Seed rate in kg/ha							Setting table for sowing in slow gearbox ratio					
Reference figures! Always conduct calibration trials!												

Soy beans 0,81 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill						
	Bottom flap position	4							
	Type of metering wheel	Normal metering wheel							
	Hints								
Row spacing (cm)					Gearbox setting No.				
15	20	25	30	35	40	45			
71	53	42	35	30	27	24	20	23	
106	80	64	53	45	40	35	30	34	
141	106	85	71	61	53	47	40	45	
177	133	106	88	76	66	59	50	56	
212	159	127	106	91	80	71	60	68	
248	186	149	124	106	93	83	70	79	
283	212	170	141	121	106	94	80	90	
318	239	191	159	136	119	106	90	100	
354	265	212	177	152	133	118	100		
Seed rate in kg/ha					Setting table for sowing in slow gearbox ratio				
Reference figures! Always conduct calibration trials!									

Sunflower 0.48 kg/Ltr.	Shutter slide position	3/4 open			Type of seed drill				
	Bottom flap position	2			D8 SUPER	D8 SPECIAL			
	Type of metering wheel	Normal metering wheel				RP-AD 2			
	Hints					AD 2			
Row spacing (cm)						Gearbox setting No.			
30	35	40	45	50	55	60			
3,4	2,9		2,5	2,3	2,0	1,9	1,7	5	6
6,8	5,8		5,1	4,5	4,1	3,7	3,4	10	11
13,6	11,6		10,2	9,1	8,1	7,4	6,8	20	23
20,4	17,5		15,3	13,6	12,2	11,1	10,2	30	34
27,2	23,3		20,4	18,1	16,3	14,8	13,6	40	45
34,0	29,1		25,5	22,6	20,4	18,5	17,0	50	56
40,7	34,9		30,5	27,2	24,4	22,2	20,4	60	68
47,5	40,7		35,6	31,7	28,5	25,9	23,8	70	79
54,3	46,5		40,7	36,2	32,6	29,6	27,2	80	90
Seed rate in kg/ha						Setting table for sowing in slow gearbox ratio			
Reference figures! Always conduct calibration trials!									

Late turnip 0,73 kg/Ltr.		Shutter slide position	3/4 open			Type of seed drill		
		Bottom flap position	1			D8 SUPER D8 SPECIAL		
		Type of metering wheel	Fine seed metering wheel			RP-AD 2 AD 2		
		Hints	Agitator shaft stopped					
Row spacing (cm)							Gearbox setting No.	
15	20		25	30		35	40	45
1,4	1,1		0,9	0,7		0,6	0,5	0,5
2,9	2,1		1,7	1,4		1,2	1,1	1,0
5,7	4,3		3,4	2,8		2,4	2,1	1,9
8,6	6,4		5,1	4,2		3,7	3,2	2,9
11,4	8,6		6,8	5,7		4,9	4,3	3,8
14,3	10,7		8,6	7,1		6,1	5,3	4,8
17,1	12,8		10,3	8,5		7,3	6,4	5,7
							5	6
							10	11
							20	23
							30	34
							40	45
							50	56
							60	68
Seed rate in kg/ha							Setting table for sowing in slow gearbox ratio	
Reference figures! Always conduct calibration trials!								

Vetches 0,87 kg/Ltr.	Shutter slide position	3/4 open		Type of seed drill									
	Bottom flap position	2		D8 SUPER									
	Type of metering wheel	Normal metering wheel		D8 SPECIAL									
	Hints			RP-AD 2	AD 2								
Row spacing (cm)							Gearbox setting No.						
8	10		11	12		13	14	15					
27	22		20	18		17	15	14		5	6		
54	43		39	36		33	31	29		10	11		
108	86		79	72		66	62	58		20	23		
162	130		118	108		100	93	86		30	34		
216	173		157	144		133	123	115		40	45		
270	216		196	180		166	154	144		50	56		
324	259		236	216		199	185	173		60	68		
378	302		275	252		233	216	202		70	79		
432	346		314	288		266	247	230		80	90		
Seed rate in kg/ha							Setting table for sowing in slow gearbox ratio						
Reference figures! Always conduct calibration trials!													

Flax dressed 0,67 kg/Ltr.	Shutter slide position	3/4 open	Type of seed drill					
	Bottom flap position	1	D8 SUPER D8 SPECIAL	RP-AD 2 AD 2				
	Type of metering wheel	Normal metering wheel						
	Hints							
Row spacing (cm)				Gearbox setting No.				
8	10	11	12	13	14	15		
57	46	41	38	35	33	30		20
86	68	62	57	53	49	46		30
114	91	83	76	70	65	61		40
143	114	104	95	88	81	76		50
171	137	124	114	105	98	91		60
200	160	145	133	123	114	106		70
228	182	166	152	140	130	122		80
257	205	187	171	158	147	137		90
285	228	207	190	175	163	152		100
Seed rate in kg/ha				Setting table for sowing in slow gearbox ratio				
Reference figures! Always conduct calibration trials!								

kg/Ltr.	Shutter slide position		Type of seed drill
	Bottom flap position		
	Type of metering wheel		D8 SUPER D8 SPECIAL
	Hints		RP-AD 2 AD 2
Row spacing (cm)		Gearbox setting No.	
Seed rate in kg/ha		Setting table for sowing in slow gearbox ratio	
Reference figures! Always conduct calibration trials!			

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