

LEXION 700 series starting crop settings and guide



LEXION 700 series starting crop settings and guide: Alfalfa

Cleaning fan reduction pulley required to achieve optimal cleaning fan speed.

A fixed hole lower sieve can be used to further improve cleaning performance (available from CLAAS parts)

Feederhouse drum position	Up, down if in rocks	Rotor speed	900 rpm
Feederhouse speed	420 rpm	Rotor cover plates	2 – 4 closed
Pre-concave types	6.5 mm smooth or 6.5 mm keystone	Cleaning fan speed (reduction pulley)	450 rpm
Pre-concave rear filler plate	Installed	Upper sieve	Standard: 4 TM6: 4
Dis-awning plates	Closed	Lower sieve	Standard: 2 TM6: 2
Intensive threshing segments	Install as needed	Chopper speed	High
Concave gap	8 mm	Stationary knives	Engaged 50 – 100%
Threshing cylinder speed range	High	Friction plate (TC, PC)	
Threshing cylinder speed	800 rpm		
Concave filler plates	3-6 installed on N18 large wire, start at row 2		

Swath conditions	Dry	Moderate	Green
Threshing (rpm) adjust in 3 – 5 rpm increments	780 – 800	800 – 820	820 – 840
Concave (mm) adjust in 1 – 2 mm increments	8 – 10	8 – 10	10 – 12
Rotor (rpm) adjust in 5 – 10 rpm increments	880 – 900	900 – 920	920 – 940

LEXION 700 series starting crop settings and guide: Barley

For high straw quality in dry easy-to-thresh conditions, refrain from using the intensive threshing segments

Feederhouse drum position	Up, down if in rocks	Rotor speed	850 rpm
Feederhouse speed	400 rpm	Rotor cover plates	Open, close as needed
Pre-concave types	6.5 mm, 10 mm, 12 mm	Cleaning fan speed	1100 rpm
Pre-concave rear filler plate	Installed only in corn models	Upper sieve	Deep-tooth: 9 Standard: 15 TM6: 15
Dis-awning plates	Closed	Lower sieve	Deep-tooth: 0 - 2 CB22: 4 Standard: 9 TM6: 9
Intensive threshing segments	Installed, as needed.	Chopper speed	High
Concave gap	12 mm	Stationary knives	Engaged 50 – 100%
Threshing cylinder speed range	High	Friction plate (TURBO CHOP only)	Engaged as needed
Threshing cylinder speed	750 rpm		
Concave filler plate	3 installed on N18 large wire, start a row 2		

	9 – 10%	11 – 12%	13 – 14%	15 – 16%	17 – 18%
Threshing (rpm) adjust in 3 – 5 rpm increments	650 – 670	690 – 710	730 – 750	770 – 790	810 – 830
Concave (mm) adjust in 1 – 2 mm increments	7 – 8	9 – 10	11 – 12	13 – 14	15 – 16
Rotor (rpm) adjust in 5 – 10 rpm increments	750 – 770	790 – 810	830 – 850	870 – 890	910 – 930

LEXION 700 series starting crop settings and guide: (Malting) Barley

For high straw quality and very dry conditions, refrain from using intensive threshing segments

Feederhouse drum position	Up, down if in rocks	Rotor speed	750 rpm
Feederhouse speed	400 rpm	Rotor cover plates	Open, close as needed
Pre-concave types	6.5 mm, 10 mm, 12 mm	Cleaning fan speed	1100 rpm
Pre-concave rear filler plate	Installed only in corn models	Upper sieve	Deep-tooth: 9 Standard: 15 TM6: 15
Dis-awning plates	Closed	Lower sieve	Deep-tooth: 0 - 2 CB22: 4 Standard: 9 TM6: 9
Intensive threshing segments	Not installed	Chopper speed	High
Concave gap	20 mm	Stationary knives	Engaged 50 – 100%
Threshing cylinder speed range	High	Friction plate (TURBO CHOP only)	Engaged as needed
Threshing cylinder speed	650 rpm		
Concave filler plate	3 installed on N18 large wire, start a row 2		

	9 – 10%	11 – 12%	13 – 14%	15 – 16%	17 – 18%
Threshing (rpm) adjust in 3 – 5 rpm increments	610 – 620	630 – 640	650 – 670	690 – 720	750 – 780
Concave (mm) adjust in 1 – 3 mm increments	13 – 15	16 – 18	16 – 20	16 – 20	16 – 20
Rotor (rpm) adjust in 5 – 10 rpm increments	710 – 720	730 – 740	750 – 770	790 – 820	850 – 880

LEXION 700 series starting crop settings and guide: Blue grass

Cleaning fan reduction pulley required to achieve optimal cleaning fan speed

Feederhouse drum position	Up, down if in rocks	Rotor speed	900 rpm
Feederhouse speed	420 rpm	Rotor cover plates	2 – 3 closed, more if needed
Pre-concave types	<u>6.5 mm smooth</u> or 6.5 mm keystone	Cleaning fan speed (reduction pulley)	350 rpm
Pre-concave rear filler plate	Installed	Upper sieve	Standard: 15 TM6: 15
Dis-awning plates	Closed	Lower sieve	Standard: 8 TM6: 8
Intensive threshing segments	Not installed	Chopper speed	High
Concave gap	10 mm	Stationary knives	Engaged 100%
Threshing cylinder speed range	High	Friction plate (TURBO CHOP only)	Engaged as needed
Threshing cylinder speed	800 rpm		
Concave filler plate	4-6 installed on N18 large wire, start a row 2		

Swath conditions	Dry	Moderate	Green
Threshing (rpm) adjust in 3 – 5 rpm increments	780 – 800	800 – 810	810 – 820
Concave (mm) adjust in 1 – 3 mm increments	8 – 10	10 – 12	13 – 15
Rotor (rpm) adjust in 5 – 10 rpm increments	880 – 900	900 – 915	910 – 920

LEXION 700 series starting crop settings and guide: Canola

V-plates can be installed for tough stem conditions, as well as the serrated impeller wear strip kit

Close rotor cover plates one segment at a time to improve separation and material flow onto the cleaning shoe

Feederhouse drum position	Up, down if in rocks	Rotor speed	650 – 700 rpm
Feederhouse speed	400 rpm	Rotor cover plates	1 & 2 closed, more as needed
Pre-concave types	6.5 mm, 10 mm or 12 mm	Cleaning fan speed	Dry: 900 – 1000 rpm, increase as needed
Pre-concave rear filler plate	No (small grains models) As needed (corn models)	Upper sieve	Deep-tooth: 9 Standard: 14 TM6: 14
Dis-awning plates	Open with 6.5 mm Closed with 10 mm and 12 mm	Lower sieve	Deep-tooth: 0 – 2 CB22: 2 – 4 Standard: 6 TM6: 6
Intensive threshing segments	No	Chopper speed	High
Concave gap	25 mm	Stationary knives	Engaged 50 – 100%
Threshing cylinder speed range	High	Friction plate (TURBO CHOP & PRO CHOP)	As needed
Threshing cylinder speed	550 – 600 rpm		
Concave filler plate	No (small grains), Optional (Corn)		

Plant condition:	Dry	Moderate	Green
Threshing (rpm) adjust in 3 – 5 rpm increments	550 – 575	575 – 600	600 – 650
Concave (mm) adjust in 1 – 3 mm increments	27 – 30	24 – 27	21 – 24
Rotor (rpm) adjust in 5 – 10 rpm increments	650 – 700	675 – 700	700 – 750

LEXION 700 series starting crop settings and guide: Corn

Set corn head deck-plate gap to slightly over the stalk diameter

Feederhouse drum position	Up	Rotor speed	370 rpm
Feederhouse speed	380 rpm	Rotor cover plates	All open
Pre-concave types	19x40 mm or <u>Round bar</u>	Cleaning fan speed	1200 rpm
Pre-concave rear filler plate	Not installed	Upper sieve	Deep-tooth: 15 Standard: 18
Dis-awning plates	Open	Lower sieve	Deep-tooth: 14 CB22: 14 Standard: 15
Intensive threshing segments	Not installed	Chopper speed	Low
Concave gap	28 mm	Stationary knives	Disengaged
Threshing cylinder speed range	Low	Friction plate (TC, PC)	Disengaged
Threshing cylinder speed	360 rpm		
Concave filler plates	No		

	- 15%	15 – 17%	17 – 20%	20 – 23%	25% +
Threshing (rpm) adjust in 5 - 10 rpm increments	320	320 – 340	340 – 360	360 – 380	380 – 400
Concave (mm) set according to cob diameter	Round bar: - 2 to 2 mm over cob diameter		Large wire (N18): 2 to 3 mm over cob diameter		
Rotor (rpm)	370	370	370	370	370 – 400

LEXION 700 series starting crop settings and guide: High moisture corn

Set corn head deck-plate gap to slightly over the stalk diameter

Feederhouse drum position	Up	Rotor speed	400 – 450 rpm
Feederhouse speed	380 – 420 rpm	Rotor cover plates	All open
Pre-concave types	19x40 mm or <u>Round bar</u>	Cleaning fan speed	1300 – 1400 rpm
Pre-concave rear filler plate	Not installed	Upper sieve (0 – 20 mm scale)	Deep-tooth: 16 Standard: 20
Dis-awning plates	Open	Lower sieve (0 – 20 mm scale)	Deep-tooth: 15 CB22: 15 Standard: 15
Intensive threshing segments	Not installed	Chopper speed	Low
Concave gap	28 mm	Stationary knives	Disengaged
Threshing cylinder speed range	Low	Friction plate (TC, PC)	Disengaged
Threshing cylinder speed	400 rpm		
Concave filler plates	No		

	25%	26%	30%	34%	40% +
Threshing (rpm) adjust in 5 - 10 rpm increments	380 – 400	400 - 410	410 – 420	420 – 430	430 – 440
Concave (mm) set according to cob diameter	Round bar: - 2 to 2 mm over cob dia. Large wire (N18): 2 to 3 mm over cob diameter				
Rotor (rpm)	370 – 400	370 – 400	370 – 400	400 – 420	400 – 450

LEXION 700 series starting crop settings and guide: Edible beans

V-plates will need to be installed for most conditions when threshing below 400rpm
Slow threshing cylinder as necessary to achieve desired sample

Feederhouse drum position	Up, down if in rocks	Rotor speed	500 rpm
Feederhouse speed	350 – 400 rpm	Rotor cover plates	As needed
Pre-concave types	10 mm wire, 12x40, 19x40, Round bar	Cleaning fan speed	1200 rpm
Pre-concave rear filler plate	Not installed	Upper sieve	Deep-tooth: 8 – 10 Standard: 16 TM6: 18
Dis-awning plates	Open, close as needed	Lower sieve	Deep-tooth: 0 – 4 CB22: 4 – 6 Standard: 12 TM6: 14
Intensive threshing segments	Not installed.	Chopper speed	High
Concave gap	25 mm	Stationary knives	Engaged 50 – 100%
Threshing cylinder speed range	Low	Friction plate (TURBO CHOP only)	As needed
Threshing cylinder speed	350 rpm		
Concave filler plate	No		

	- 14 %	15%	16%	17%	18% +
Threshing (rpm) adjust in 3 – 5 rpm increments	270 – 290	290 – 310	310 – 330	330 – 350	350 – 370
Concave (mm) adjust in 1 – 3 mm increments	17 – 25	17 – 25	19 – 25	21 – 25	23 – 25
Rotor (rpm) adjust in 5 – 10 rpm increments	370 – 400	400 – 450	400 – 450	400 – 450	450 – 500

LEXION 700 series starting crop settings and guide: **FLAX**

Feederhouse drum position	Down	Rotor speed	800 rpm
Feederhouse speed	420 rpm	Rotor cover plates	Close 1, more as needed
Pre-concave types	6.5 mm or 10 mm	Cleaning fan speed	800 – 900 rpm
Pre-concave rear filler plate	Not installed	Upper sieve	Standard: 10 TM6: 10
Dis-awning plates	Open, close as needed	Lower sieve	Standard: 3 TM6: 5
Intensive threshing segments	Not installed.	Chopper speed	High
Concave gap	10 mm	Stationary knives	Engaged 50 – 100%
Threshing cylinder speed range	Low	Friction plate (TURBO CHOP only)	As needed
Threshing cylinder speed	550 rpm		
Concave filler plate	No		

	- 7 %	7 – 8%	9 – 10%	11 – 12%	13% +
Threshing (rpm) adjust in 3 – 5 rpm increments	- 530	530 – 540	550 – 560	570 – 580	600 –
Concave (mm) adjust in 1 – 3 mm increments	- 13	12 – 11	11 – 10	10 – 9	10 – 9
Rotor (rpm) adjust in 5 – 10 rpm increments	- 770	780 – 790	800 – 860	870 – 880	900 –

LEXION 700 series starting crop settings and guide: **Camelina** (wild flax)

Feederhouse drum position	Down	Rotor speed	800 rpm
Feederhouse speed	420 rpm	Rotor cover plates	Close 1, more as needed
Pre-concave types	6.5 mm or 10 mm	Cleaning fan speed	800 – 900 rpm
Pre-concave rear filler plate	Not installed	Upper sieve	Standard: 10 TM6: 10
Dis-awning plates	Open, close as needed	Lower sieve	Standard: 3 TM6: 5
Intensive threshing segments	Not installed.	Chopper speed	High
Concave gap	10 mm	Stationary knives	Engaged 50 – 100%
Threshing cylinder speed range	Low	Friction plate (TURBO CHOP only)	As needed
Threshing cylinder speed	450 rpm		
Concave filler plate	No		

	- 7 %	7 – 8%	9 – 10%	11 – 12%	13% +
Threshing (rpm) adjust in 3 – 5 rpm increments	- 430	430 – 440	450 – 460	470 – 480	500 –
Concave (mm) adjust in 1 – 3 mm increments	- 13	12 – 11	11 – 10	10 – 9	10 – 9
Rotor (rpm) adjust in 5 – 10 rpm increments	- 770	780 – 790	800 – 860	870 – 880	900 –

LEXION 700 series starting crop settings and guide: Grass seed (tall fescue, rye, ...)

Cleaning fan reduction pulley required to achieve optimal cleaning fan speed

Feederhouse drum position	Up, down if in rocks	Rotor speed	750 rpm
Feederhouse speed	420 rpm	Rotor cover plates	2 – 4 closed, more if needed
Pre-concave types	6.5 mm keystick	Cleaning fan speed (reduction pulley)	650 rpm
Pre-concave rear filler plate	Installed	Upper sieve	Standard: 15 TM6: 15
Dis-awning plates	Open, close as needed	Lower sieve	Standard: 10 TM6: 10
Intensive threshing segments	Installed as needed	Chopper speed	High
Concave gap	35 mm	Stationary knives	Engaged 100%
Threshing cylinder speed range	High	Friction plate (TURBO CHOP only)	Engaged as needed
Threshing cylinder speed	650 rpm		
Concave filler plate	4-6 installed on N18 large wire, start a row 2		

Swath conditions	Dry	Moderate	Green
Threshing (rpm) adjust in 3 – 5 rpm increments	630 – 650	650 – 670	670 – 690
Concave (mm) adjust in 1 – 3 mm increments	30 – 35	35 – 37	35 – 37
Rotor (rpm) adjust in 5 – 10 rpm increments	730 – 750	750 – 770	770 – 790

LEXION 700 series starting crop settings and guide: Lentils

V-plates will need to be installed for most conditions when threshing below 400rpm

Feederhouse drum position	Up, down if in rocks	Rotor speed	500 rpm
Feederhouse speed	380 rpm	Rotor cover plates	Open, close as needed
Pre-concave types	10 mm wire, 12x40	Cleaning fan speed	1200 rpm
Pre-concave rear filler plate	Not installed	Upper sieve	Standard: 16 TM6: 16
Dis-awning plates	Open, close as needed	Lower sieve	Standard: 12 TM6: 12
Intensive threshing segments	Not installed.	Chopper speed	High
Concave gap	25 mm	Stationary knives	Engaged 50 – 100%
Threshing cylinder speed range	Low	Friction plate (TURBO CHOP only)	As needed
Threshing cylinder speed	400 rpm		
Concave filler plate	No		

	- 13 %	14%	15%	16%	17% +
Threshing (rpm) adjust in 3 – 5 rpm increments	250 – 300	300 – 350	350 – 400	400 – 450	450 – 500
Concave (mm) adjust in 1 – 3 mm increments	19 – 25	21 – 25	23 – 25	25 – 27	27 – 29
Rotor (rpm) adjust in 5 – 10 rpm increments	370 – 400	430 – 450	450 – 500	500 – 560	550 – 600

LEXION 700 series starting crop settings and guide: Soybeans

V-plates will need to be installed for most conditions when threshing below 400rpm

Feederhouse drum position	Up, down if in rocks	Rotor speed	700 – 750 rpm
Feederhouse speed	380 – 400 rpm	Rotor cover plates	As needed
Pre-concave types	10 or 12x40 mm	Cleaning fan speed	1150 – 1200 rpm
Pre-concave rear filler plate	Not installed	Upper sieve	Deep-tooth: 9 Standard: 15 TM6: 15
Dis-awning plates	As needed	Lower sieve	Deep-tooth: 0 – 2 CB22: 4 – 6 Standard: 10 TM6: 10
Intensive threshing segments	Not installed.	Chopper speed	High
Concave gap	19 mm	Stationary knives	Engaged 100%
Threshing cylinder speed range	High	Friction plate (TURBO CHOP only)	As needed
Threshing cylinder speed	600 – 650 rpm		
Concave filler plate	No		

	- 7%	8 – 9%	10 – 11%	12 – 13%	14 – 15% +
Threshing (rpm) adjust in 3 – 5 rpm increments	350	350 – 450 <i>low range</i>	450 – 500	500 – 550	550 – 600
Concave (mm) adjust in 1 – 3 mm increments	14 – 18	19 - 20	20 – 22	20 – 24	20 – 24
Rotor (rpm) adjust in 5 – 10 rpm increments	550	550 – 580	580 – 620	620 – 700	700 – 750

LEXION 700 series starting crop settings and guide: Green-stem soybeans

V-plates will need to be installed for most conditions when threshing below 400rpm

Feederhouse drum position	Up, down if in rocks	Rotor speed	700 – 750 rpm
Feederhouse speed	380 – 400 rpm	Rotor cover plates	As needed
Pre-concave types	10 or 12x40 mm	Cleaning fan speed	1150 – 1200 rpm
Pre-concave rear filler plate	Not installed	Upper sieve	Deep-tooth: 9 Standard: 15 TM6: 15
Dis-awning plates	As needed	Lower sieve	Deep-tooth: 0 – 2 CB22: 4 – 6 Standard: 10 TM6: 10
Intensive threshing segments	Not installed.	Chopper speed	High
Concave gap	19 mm	Stationary knives	Engaged 100%
Threshing cylinder speed range	High	Friction plate (TURBO CHOP only)	As needed
Threshing cylinder speed	600 – 650 rpm		
Concave filler plate	No		

	- 7%	8 – 9%	10 – 11%	12 – 13%	14 – 15% +
Threshing (rpm) adjust in 3 – 5 rpm increments	350 – 400	400 – 480 <i>low range</i>	480 – 550	550 – 600	650 –
Concave (mm) adjust in 1 – 3 mm increments	14 – 18	19 - 20	20 – 22	20 – 24	20 – 24
Rotor (rpm) adjust in 5 – 10 rpm increments	550	550 – 580	580 – 620	620 – 700	700 – 750

LEXION 700 series starting crop settings and guide: **Wheat**

Feederhouse drum position	Up, down if in rocks	Rotor speed	700 – 750 rpm
Feederhouse speed	380 – 400 rpm	Rotor cover plates	As needed
Pre-concave types	10 or 12x40 mm	Cleaning fan speed	1100 – 1200 rpm
Pre-concave rear filler plate	Not installed	Upper sieve	Deep-tooth: 9 Standard: 15 TM6: 15
Dis-awning plates	As needed	Lower sieve	Deep-tooth: 0 CB22: 4 Standard: 10 TM6: 10
Intensive threshing segments	Not installed.	Chopper speed	High
Concave gap	19 mm	Stationary knives	Engaged 100%
Threshing cylinder speed range	High	Friction plate (TURBO CHOP only)	As needed
Threshing cylinder speed	600 – 650 rpm		
Concave filler plate	No (small grains), Yes (Corn)		

	- 9%	10 – 12%	13 – 15%	16 – 18%	19 – 21% +
Threshing (rpm) adjust in 3 – 5 rpm increments	600 – 650	650 – 680	710 – 740	740 – 770	770 – 800
Concave (mm) adjust in 1 – 3 mm increments	23	23 – 19	21 – 17	19 – 13	17 – 13
Rotor (rpm) adjust in 5 – 10 rpm increments	700 – 750	750 – 780	810 – 840	840 – 870	870 – 900

LEXION 700 series starting crop settings and guide: Sesame

Feederhouse drum position	Down	Rotor speed	570 rpm
Feederhouse speed	380 – 400 rpm	Rotor cover plates	As needed
Pre-concave types	10 or 12x40 mm	Cleaning fan speed	950 – 1000 rpm
Pre-concave rear filler plate	Not installed	Upper sieve	Deep-tooth: 0 Standard: 6 TM6: 7
Dis-awning plates	As needed	Lower sieve	Deep-tooth: 0 CB22: 3 Standard: 4 TM6: 5
Intensive threshing segments	Not installed.	Chopper speed	High
Concave gap	19 mm	Stationary knives	Engaged 100%
Threshing cylinder speed range	High	Friction plate (TURBO CHOP only)	As needed
Threshing cylinder speed	500 rpm		
Concave filler plate	No (small grains), No (Corn)		

Swath conditions	Dry	Moderate	Green
Threshing (rpm) adjust in 3 – 5 rpm increments	480 – 500	500 – 520	520 – 540
Concave (mm) adjust in 1 – 3 mm increments	19	17 – 19	15 – 17
Rotor (rpm) adjust in 5 – 10 rpm increments	550 – 570	570 – 590	590 – 610