

## Gravity Separator Type GW 1 - GW 5



## Principals of Operation

Grains or particles of almost identical size are fed continuously on the separating deck surface of the separator, providing a uniform bed of material over the deck surface.

The deck is fluidized by a completely uniform pressurized air system stratifying the light material to the top of the product bed and allowing the heavy material to contact the deck surface. The deck is inclined from side to side and inlet end to discharge end to all adjustable angles.

The deck itself is powered by a fully balanced eccentric drive which moves the deck at low amplitude and high frequency up hill. The heavy material contacting a specially designed square wire deck surface moves up hill, while the light material fluidized by the air system moves down.

## Technical Data

Type		GW 1	GW 2	GW 3	GW 4	GW 5
Capacity	t/h (lbs/h)					
Corn, Wheat, Sojabeans		2 (4400)	4 (8800)	6.5 (14300)	10 (22000)	15 (33000)
Peas, Beans		1.5 (3300)	3 (6600)	4.9 (10800)	7.5 (16500)	11 (24000)
Clover		0.8 (1800)	1.6 (3500)	2.6 (5700)	4 (8800)	6 (13200)
Rapeseed		0.6 (1300)	1.2 (2600)	2 (4400)	3 (6600)	4.2 (9900)
Fan Drive	kw (hp)	3 (4)	4 (5.5)	7.5 (10)	11 (15)	15 (20)
Reciprocating Drive	kw (hp)	0.55 (0.75)	0.55 (0.75)	1.1 (1.5)	1.1 (1.5)	1.1 (1.5)
Table area	m <sup>2</sup> (ft <sup>2</sup> )	0.9 (9.7)	1.5 (16)	2.3 (25)	3.6 (39)	5.5 (60)
Air requirement	m <sup>3</sup> /min (CFM)	150 (5300)	250 (8800)	320 (11300)	500 (17600)	720 (25500)
Dimensions	cm (in.)					
Length		142 (56)	203 (80)	240 (95)	330 (130)	384 (151)
Width		121 (47)	130 (51)	185 (73)	185 (73)	211 (83)
Height		114 (45)	117 (46)	144 (57)	144 (57)	171 (67)
Weights	kg (lbs)					
Net		560 (1230)	678 (1490)	1500 (3300)	1750 (3860)	1900 (4190)
Landtransport		650 (1430)	830 (1830)	1750 (3860)	2040 (4500)	2250 (4960)
Seatransport		780 (1720)	940 (2073)	2050 (4520)	2380 (5250)	2620 (5780)
Volume seapacked	m <sup>3</sup> (ft <sup>3</sup> )	5 (180)	7 (250)	8.5 (300)	10 (350)	15 (530)



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