

SEED SIZE vs. HOLE/NOZZLE SIZE

Seed	Seeds/ Gram	Drum Seeder Hole Size	Natural Seeder Needle Size	Natural Seeder Nozzle Size	Handy Seeder Hole Size	Comments
Ageratum	8000	0.3	0.25	0.3	0.3	
Alyssum	2800	0.3	0.25	0.3	0.3	Use Lobelia kit for clumps 4-5
Antirrhinum	7500	0.3	0.25	0.3	0.3	
Aster	525	0.3	0.25	0.3	0.3	
Aubretia	4000	0.3	0.25	0.3	0.3	
Begonia Elatior	65000	0.3 pellets only	0.1	Begonia Kit	0.3 pellets only	
Begonia Semp.	80000	0.3 pellets only	0.1	Begonia Kit	0.3 pellets only	
Bellis	6400	0.3	0.25	0.3	0.3	
Campanula	13000	0.3	0.25	0.3	0.3	
Capsicum	200	0.6	0.5	0.6	0.5	
Carnation	600	0.3	0.25	0.3	0.3	
Cineraria	3500	0.3	0.25	0.3	0.3	
Cineraria Maritima	2000	0.3	0.25	0.3	0.3	
Coleus	3500	0.3	0.25	0.3	0.3	
Cyclamen	100-300	0.5	0.5	0.6	0.5	High flow venturi required
Dahlia	120	0.5	0.5	0.6	0.5	NS requires Universal/Profile/needle kit DS requires vibrating tray kit
Dianthus	1200	0.3	0.25	0.3	0.3	
Flowering Cabbage	250	0.5	0.5	0.6	0.5	
Geranium	200	0.5	0.5	0.6	0.5	
Gerbera	250	0.3	0.25	0.3	0.3	
Hypoestes	755	0.3	0.25	0.3	0.3	
Impatiens	1500	0.3	0.25	0.3	0.3	
Laurentia	12500	0.3	0.25	0.3	0.3	
Lobelia	32000	0.3	0.25	Lobelia Kit	0.3	May require multi-hole
Marigold-Afri/America	300	0.5	0.5	0.6	0.5	NS requires Universal profile/needle kit DS requires vibrating tray kit

Seed	Seeds/ Gram	Drum Seeder Hole Size	Natural Seeder Needle Size	Natural Seeder Nozzle Size	Handy Seeder Hole Size	Comments
Marigold-French	300	0.5	0.5	0.6	0.5	NS requires Universal profile/needle kit DS requires vibrating tray kit
Mesembryanthemum	3700	0.3	0.25	0.3	0.3	
Mimulus	25000	0.3	0.25	0.3	0.3	
Nemesia	3600	0.3	0.25	0.3	0.3	
Nicotiana	9000	0.3	0.25	0.3	0.3	
Nierembergia	6200	0.3	0.25	0.3	0.3	
Pansy	770	0.3	0.25	0.3	0.3	
Papaver	7600	0.3	0.25	0.3	0.3	
Petunia	8000	0.3	0.25	0.3	0.3	
Portulaca	9300	0.3	0.25	0.3	0.3	
Primrose	1000	0.3	0.25	0.3	0.3	
Salvia Splendens	300	0.5	0.5	0.6	0.5	High flow venturi required
Stock	500	0.3	0.25	0.3	0.3	
Sweet William	900	0.3	0.25	0.3	0.3	
Verbena	400	0.3	0.25	0.3	0.3	
Vegetables, Herbs etc.						
Aubergine (Egg Plant)	150-250	0.3	0.3	0.3	0.3	
Cabbage	200	0.5	0.5	0.6	0.5	
Carrot	1000	0.3	0.25	0.3	0.3	
Celery	2000	0.3	0.25	0.3	0.3	
Chives	300	0.5	0.5	0.6	0.5	
Leeks	350	0.5	0.5	0.6	0.5	
Lettuce	850	0.25	0.25	0.3	0.25	
Lettuce Pills	-	0.8	-	Rubber Tip	0.7	High flow venturi required
Onions	300	0.5	0.5	0.6	0.5	
Pepper	150	0.5	0.5	0.6	0.5	
Squash	10	1.0	-	1.15	-	NS -Double Venturi Kit Required DS – Twin Vacuum Pumps Required DS – Vibrating Tray Kit Required
Tomato	285	0.3	0.3	0.3	0.3	

Use the following tables as a rule-of thumb guide to selecting the correct nozzle bar size:

Seeder Type	Hole Size	Seed count range
Drum Seeder	0.3mm	300-30000
	0.5mm	100-300
Natural Seeder	0.1mm Needle	30000-80000
	0.25mm Needle	500-30000
	0.5mm Needle	100-500
	0.3mm Nozzle	400-30000
	0.6mm Nozzle	100-400
Handy Seeder	1.15mm Nozzle	10-100
	0.3mm	300-30000
	0.5mm	100-300
	0.7mm	50-100

Accuracy of pickup and placement is very much dependant upon seed shape and surface texture. There is also considerable variation between varieties of the same species. We will be happy to test any sample of seed sent to us, and would give a full report of the equipment required, and the results obtained.

Seed	Sds/Gm
Ageratum	8000
Alyssum	2800
Antirrhinum	7500
Aquilega	700
Aster	525
Astilbe	22000
Aubretia	4000
Basella	100
Begonia Elatior	65000
Begonia Semp.	80000
Bellis	6400
Bidens aurea	600
Brachycombe	5500
Cabbage	200
Calceolaria	30000
Calendula	150
Campanula	13000
Capsicum	200
Carnation	600
Carrot	1000
Celery	2000
Celosia	1300
Cerastium	3000
Cheiranthus	600
Chives	300
Chrys. Multicaulae	600

Chrys. Paludosum	1700
Chrys. Parthenium	6000
Cineraria	3500
Cineraria Maritima	2000
Coleus	3500
Coreopsis	400
Cosmos	150
Cyclamen	100-300
Dahlia	120
Delphinium	640
Dianthus	1200
Diascia	4000
Flowering Cabbage	250
Fuchsia	1900
Gazania	500
Geranium	200
Geranium (perennial)	120
Gerbera	250
Geum	300
Godetia	1500
Grevillea	100
Gypsophila	2000
Helianthemum	500
Helianthus	18
Helichrysum	1600
Heliotrope	1600
Helleborus	130

Hollyhock	80
Hypoestes	755
Iberis	400
Impatiens	1500
Impatiens New Guinea	600
Kniphofia	300
Kochia	1200
Laurentia	12500
Lavatera	150
Leeks	350
Lettuce	850
Liatris	300
Lobelia	32000
Lobelia Speciosa	20000
Lupin	45
Lychnis	900
Marigold-Afri/America	300
Marigold-French	300
Mesembryanthemum	3700
Mimulus	25000
Myosotis	1500
Nasturtium	8
Nemesia	3600
Nemophila	500
Nicotiana	9000
Nierembergia	6200
Nolana	200

Onions	300
Pansy	770
Papaver	7600
Pepper	150
Perilla	600
Petunia	8000
Phlox	520
Polyanthus	1000
Polygonum	1200
Portulaca	9300
Potentilla	2800
Primrose	1000
Primula Malaciodes	9000
Primula Obconica	5500
Rhodochiton	2000
Ricinus	2
Rudbeckia	2000
Salpiglossis	4000
Salvia Coccinea	550
Salvia Farinacea	750
Salvia Splendens	300
Sanvitalia	1750
Silene	1000
Statice	380
Stock	500
Strawberry	2500
Sweet Peas	8

Sweet William	900
Tagetes	1150
Thunbergia Alata	35
Thymophilica	7000
Tomato	285
Verbena	400
Verbena Venosa	1200
Vinca	800
Viola Cornetto	1200
Viola Mini-flower	2000
Viola Prince series	900
Viola Princess	840
Viola Small-flower	600
Wallflower	500
Zinnia	100