



**FREIGHT AND SET-UP CHART**

Model #	APPROX SET TIMES	Comments	FREIGHT CHARGES
AJ401	1 - 2 HOURS		\$ 350.00
J400	1 - 2 HOURS	Helpful for 2nd person when putting main duct in place	\$ 350.00
J400CHT	1 - 2 HOURS	Helpful for 2nd person when putting main duct in place	\$ 350.00
J400 E	1 - 2 HOURS	Helpful for 2nd person when putting main duct in place	\$ 350.00
J600 EXP CHT OLD # J600CHT	2 - 3 HOURS	Helpful for 2nd person when putting main duct in place	\$ 375.00
J600EL	2 - 3 HOURS	Helpful for 2nd person when putting main duct in place	\$ 375.00
J1000 OLD # J1000CHT	3 - 4 HOURS	2 People Required to Assemble	\$ 600.00
J2000-JP100	4 - 5 HOURS	2 People Required to Assemble	\$ 600.00
J2000T-JP100- TANDEM	4 - 5 HOURS	2 People Required to Assemble	\$ 600.00
ARBUS 200 OLD # A200	1 - 2 HOURS		\$ 300.00
ARBUS 270 & 300 OLD # A270BD	1 - 2 HOURS		\$ 300.00
ARBUS 400/725 APPLE BD	1 HOUR		\$ 325.00
ARBUS 400/725 APPLE VDC BD	1 HOUR		\$ 350.00
A400/850 VDC-2P OLD # A400/850	1 - 2 HOURS		\$ 350.00
ARBUS 500N OLD # A500B	2 HOURS	2 People Required to Assemble	\$ 500.00
ARBUS 500T OLD # A500T	2 HOURS	2 People Required to Assemble	\$ 500.00
ARBUS 1000/75 EA VDC	2 - 3 HOURS	2 People Required to Assemble	\$ 600.00
A1000/850 E OLD # A1000-850	2 - 3 HOURS	2 People Required to Assemble	\$ 600.00
ARBUS DIAMOND 2P ELECTRIC	6 HOURS	2 People Required to Assemble	\$ 600.00
ARBUS 2000 SAPPIRE 2P	6 HOURS	2 People Required to Assemble	\$ 600.00
ARBUS 2000 SUPER EXPORT E	6 HOURS	2 People Required to Assemble	\$ 600.00



Arbus 2000 Valencia SE	6 HOURS	2 People Required to Assemble	\$ 600.00
ARBUS 4000 SUPER EXPORT E OLD # A4000	6 HOURS	2 People Required to Assemble	\$ 600.00
Falcon Vortex 75	FACTORY ASSEMBLED		\$ 700.00
Advance Vortex 3000	FACTORY ASSEMBLED		\$ 1,500.00
BK3024 VORTEX GPS	FACTORY ASSEMBLED		\$ 1,500.00
Minitower for A200/A500	1 - 2 HOURS		\$ 125.00
Minitower for A400/A1000	1 -2 HOURS		\$ 125.00
Cannon Valve kit <b>ELCKIT2</b>	1 HOUR		UPS CHARGES
Arbus Valve Kit <b>ELKIT2A</b>	1 HOUR		UPS CHARGES
Arbus 200 Valve kit <b>ELKIT200</b>	1 HOUR		UPS CHARGES



## AGRICULTURAL SPRAYERS

### Sprayer Selection Guide



- HOW MANY ACRES WILL BE SPRAYED?** Consider the tank capacity of the sprayer to determine how many times the tank will have to be filled to complete the spray application. Fill ups take time.
- TYPICAL GALLON PER ACRE (GPA) SPRAYED.** This will determine how many fill ups would be required for every acre sprayed.
- HIGH APPLICATION RATES ABOVE 100 GPA WILL REQUIRE A LARGER PUMP CAPACITY.** When calculating gallons per minute (GPM) of the total nozzles, a minimum of 10% of the pump capacity must return to the tank for agitation. For example, a JP50 pump flows 13 GPM so the total nozzle volume should not exceed 11.7 GPM.
- SLOWER TRACTOR SPEEDS** when spraying makes for better coverage. In most cases recommend tractor speeds between 1 to 4 MPH.
- ROW SPACING?** – In some cases the row space is too narrow for larger trailed sprayers. Wide row spacing (16 to 25 feet) would require a large fan to reach the target.
- CROP HEIGHT** – Tall crops require larger fans to reach the target.
- HEADLAND** – Space at the end of the row to turn the tractor. Narrow headland (16 feet or smaller) may require recommending either a 3-point hitch sprayer or trailed version with tracking axle.
- CROP DENSITY** – Dense crops require large fans to penetrate the foliage.
- FOR BETTER COVERAGE ON THE TOPS OF TALLER CROPS,** use higher flow rate nozzles on the top portion of the sprayer Remember larger droplets from high flow rate nozzles will travel further.
- All Jacto agricultural sprayers use a PTO speed of 540 RPM.
- TOWER SPRAYER ATTACHMENTS** – Ideal for crops like grapes and berries that are typically trellised. The tower nozzle branch and air outlets are vertical which makes the spray pattern more uniform from top to bottom. Jacto towers use special baffles so the air flow is equal from top to bottom.

### CALCULATING APPLICATION VOLUME



To determine the volume of chemical to be applied, refer to the following equations.

$$\text{GPA} = \frac{\text{GPM} \times 495}{\text{MPH} \times \text{S}} \quad \text{OR} \quad \text{GPM} = \frac{\text{GPA} \times \text{MPH} \times \text{S}}{495}$$

**WHERE:**

**GPA** = Application volume in Gallons Per Acre  
**GPM** = Application volume in Gallons Per Minute  
**MPH** = Tractor speed in Miles Per Hour  
**S** = Application band (row Spacing) width in feet  
**495** = Conversion factor

**TO CALCULATE Tractor speed:** Divide the distance traveled in feet in one minute by 88.

$$\text{MPH} = \frac{\text{Distance covered (ft) in one minute}}{88}$$

**EXAMPLE:**

If the required volume is 160 gallons per acre (GPA), the tractor speed is 3 miles per hour (MPH) and the row spacing (S) is 20 feet, to regulate the sprayer we need to find out the flow rate per nozzle per minute (GPM) as follows:

$$\text{GPM} = \frac{160 \times 3 \times 20}{495} = \frac{9600}{495} = 19.4 \text{ GPM}$$

$$19.4 \div \text{N (number of nozzles)} = \text{GPM/nozzle}$$

$$19.4 \div 16 \text{ nozzles} = 1.21 \text{ GPM/nozzle}$$



## AGRICULTURAL SPRAYERS



### Sprayer Guide By Crop

CROP	AIRBLAST	CANNON	BOOM	NOTES
Almonds & Pistachios	X			Typically A1500 and larger
Apples, Pears, Cherries, Apricots, Plums, Peaches	X			Design of orchard, tree height, spacing and acres will help determine model
Asparagus Beans & Peas		X	X	Booms typically used but cannons work well.
Blueberries	X	X		Cannon for SWD perimeter sprays and airblast for through the row fungicide and pesticide applications.
Vegetables – Cucumbers, Carrots, etc.		X	X	Booms typically used but cannons work well. Depends on other crops to spray.
Chilies and Peppers		X	X	Booms typically used but cannons work well. Depends on other crops to spray.
Christmas Tree	X	X		Cannons work best especially for young trees and Airblasts for large trees.
Citrus – Orange, Lemons, Limes, Grapefruit, etc.	X			Design of orchard, tree height, spacing and acres will help determine model.
Cranberries		X	X	Cannons work well, can also use booms
Fly Control – Dairy, Feedlots		X		Typically AJ401 due to duct able to spray vertical as well as horizontal.
Grapes/vineyards/raisin grapes	X			Smaller vineyards, A200-A1000, commercial grapes A1500 and larger
Greenhouse Nursery		X		Typically 3pt cannon models
Tree nuts – Hazelnuts, Walnuts, Almonds, etc.	X			Typically A1500 and larger
Hops	X			Due to crop height must use 33" fan models, A400-850, A1000-850 or A1500 & larger
Lettuce, Cabbage, Broccoli		X	X	Cannon works well but Air-assist boom is best
Melons		X	X	Cannon typically used, can also use booms
Mustard seed		X	X	Booms typically used but cannons work well. Depends on other crops to spray
Nurseries	X	X		Container nurseries – Cannons, tree nurseries – Airblast, but both can be used in either type of nursery application.
Odor Control – Landfill, Compost Facilities		X		Typically J600CHT or J2000
Olives	X			Typically A400 or larger models
Onions		X	X	Cannon works well but Air-assist boom is best
Potatoes		X	X	Depending on acreage Cannon or Air-assist boom works best
Pumpkins, Squash and Gourds		X	X	Cannons typically used, can also use booms
Raspberries/Blackberries/ Marion Berries	X	X		Cannon for SWD perimeter sprays and Airblast for through the row fungicide and pesticide applications.
Strawberries		X	X	Cannons work well, can also use booms
Sugar Beet		X	X	Booms typically used but Cannons work well
Sweet Corn		X		Most commonly used J400CHT, AJ401, J600CHT
Sweet Potatoes		X	X	Cannon works well, can also use booms
Tobacco		X		Typically 3pt Cannon models
Tomatoes		X		Typically 3pt Cannon models



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## AGRICULTURAL SPRAYERS

### CANNON SPRAYERS

ITEMNUMBER	DESCRIPTION	WEIGHT	PRICE
AJ401	Cannon Sprayer - 105 Gallon Tank, 50' Spray Swath, Manual Control	507	\$8,620.00
J400	Cannon Sprayer - 105 Gallon Tank, 80' Spray Swath, Manual Control	650	\$10,815.00
J400CHT	Cannon Sprayer - 105 Gallon Tank, 80' Spray Swath, Hydraulic Control	650	\$12,210.00
J400E	Cannon Sprayer - 105 Gallon Tank, 80' Spray Swath, Hyd/Electric Control	650	\$12,915.00
J600CHT	Cannon Sprayer - 160 Gallon Tank, 110' Spray Swath, Hydraulic Control	849	\$14,860.00
J600EL	Cannon Sprayer - 160 Gallon Tank, 110' Spray Swath, Hyd/Electric Control	849	\$19,350.00
J1000	Cannon Sprayer - 265 Gallon Tank, 80' Spray Swath, Hyd/Electric Controls	1565	\$28,555.00
J2000JP100	Cannon Sprayer - 550 Gallon Tank, 110' Spray Swath, Cable Control	1918	\$34,535.00
J2000JP100T	Cannon Sprayer Tandem Axle - 550 Gallon Tank, 110' Spray Swath, Cable Control	1918	\$37,340.00

### CANNON SPRAYERS



Cannon wide swath sprayers utilize a high-speed one direction air stream to deliver fine droplets. This high speed air is ideal for movement of the crop canopy, allowing the droplets to penetrate areas not accessible when using a conventional boom sprayer or hand sprayer allowing you to reduce the total amount of gallons per acre applied. This is effective in dense canopied crops such as pumpkins & melons crops as well as container nurseries. Spray swaths from 15' - 100' can be achieved depending on crop & wind conditions.

Cannon sprayers can reduce spray times by 75% and chemical usage by 50% versus hand spraying.

A durable Jacto centrifugal pump delivers the spray solution from the tank to the outlet duct assembly that has both horizontal as well as vertical height adjustment. Depending on the model, the adjustment is manual or hydraulic. Multiple three-point hitch models, and trailer-mounted models to choose from with optional electric spray controls and duct extensions.

	Tank Capacity (Gallons)	Spray Swath	Minimum HP
AJ401	105	50'	30HP
J400	105	80'	40HP
J400CHT/EL	105	80'	40HP
J600CHT	160	110'	55HP
J600EL	160	110'	55HP
J1000CHT	265	110'	50HP
J2000	550	110'	75HP
J2000T Tandem	550	110'	75HP



### OPTIONS FOR CANNON SPRAYERS

ITEMNUMBER	DESCRIPTION	PRICE
1198856	Duct Extension 3.25' J600/J2000	\$1,774.00
440727	Duct Extension 6.5' J600	\$2,240.00
971663	Vertical Duct For J600 / J2000	\$1,545.00
228965	Horizontal Hydraulic Kit For J400 - Converts J400 Manual Horizontal Adjustment to Hydraulic	\$3,000.00
229161	Vertical Hydraulic Kit For J400 - Converts Manual Vertical Adjustment to Hydraulic	\$1,695.00
ELCKIT2	Electric Valve Kit For 3PT Cannon Sprayers Only	\$1,326.00
ELKIT200T	Electric Valve Kit For Trailer Cannon Sprayers Only	\$1,568.00

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## AGRICULTURAL SPRAYERS

### AIRBLAST SPRAYERS

ITEMNUMBER	DESCRIPTION	WEIGHT	PRICE
A200	3PH, 50 Gallon Tank, Max Row Width-14', Max Crop Height-12', Manual Control	374	\$8,260.00
A300	3PH, 80 Gallon Tank, Max Row Width-18', Max Crop Height-16', Manual Control	452	\$9,770.00
A400725BD	3PH, 105 Gallon Tank, Max Row Width-25', Max Crop Height-18', Manual Control	640	\$13,100.00
A400725VDCBD	3PH, 105 Gallon Tank, Max Row Width-25', Max Crop Height-18', Cable Control	640	\$13,365.00
A400850VDC2P	3PH, 105 Gallon Tank, Max Row Width-25', Max Crop Height-25', Cable Control		\$14,890.00
A500N	Trailed, 150 Gallon Tank, Max Row Width-14', Max Crop Height-12', Cable Control	728	\$12,890.00
A500T	Trailed, 150 Gallon Tank, Max Row Width-14', Max Crop Height-12', Cable Control	728	\$13,590.00
A1000725EAVDC	Trailed, 265 Gallon Tank, Max Row Width-25', Max Crop Height-18', Cable Control	1234	\$25,625.00
A1000850E	Trailed, 265 Gallon Tank, Max Row Width-25', Max Crop Height-30', In-Cab Elec. Control	1234	\$30,475.00
A1500DIAMOND2P	Trailed, 400 Gallon Tank, Max Row Width-25', Max Crop Height-25', In-Cab Elec. Control	1455	\$30,650.00
A2000SAPPHIRE2P	Trailed, 530 Gallon Tank, Max Row Width-25', Max Crop Height-30', In-Cab Elec. Control	1543	\$32,645.00
A2000SUPEREXPORTE	Trailed, 550 Gallon Tank, Max Row Width-25', Max Crop Height-30', In-Cab Elec. Control	2070	\$30,860.00
A2000VALENCIASE	Trailed, 550 Gallon Tank, Max Row Width-25', Max Crop Height-30', In-Cab Elec. Control	2070	\$35,985.00
A4000SUPEREXPOERTE	Trailed, 1050 Gallon Tank, Max Row Width-25', Max Crop Height-30', In-Cab Elec. Control	3750	\$50,790.00

### AIRBLAST SPRAYERS

Using the world's finest Jacto ceramic cylinder high-pressure piston pumps, combined with a custom control valves for the most efficient operation. All models except the Arbus 400-850 are equipped with double flip-over nozzles for quick changes of application rates.

Jacto axial fans are engineered and individually tailored to the specific model needs. Equipped w/adjustable pitch, fiberglass-reinforced nylon blades, air deflector vanes for even air distribution & a lockout mechanism so the fan can be turned off during filling, mixing, & hand-spraying.

Airblast sprayers are unequalled in efficient & effective chemical delivery, canopy penetration & crop protection. Eight basic models are available & can be configured over twenty different ways.



### Specifications

	Tank Capacity (Gallons)	Fan Diameter	Min - Max. Row Width	Max Crop Height	Min Tractor HP
A200	50	22"	4'-14'	12'	18HP
A300	80	24"	4'-18'	16'	30HP
A400/725VDC	105	28"	4'-25'	18'	40HP
A400/850VDC	105	33"	4'-25'	25'	55HP
A500N	150	22"	5'-14'	12'	20HP
A500T	150	22"	5'-14'	12'	20HP
A1000/725	265	28"	6'-25'	18'	55HP
A1000/850	265	33"	6'-25'	30'	60HP
A1500 Diamond/EL	400	33"	6'-25'	25'	65HP
A2000 Sapphire/EL	530	33"	6'-25'	30'	80HP
A2000 SE/EL	550	33"	6'-25'	30'	80HP
A2000 VA/EL	550	33"	6'-25'	30'	80HP
A4000 SE/EL	1050	33"	6'-25'	30'	90HP

### OPTIONS FOR AIRBLAST SPRAYERS

ITEMNUMBER	DESCRIPTION	PRICE
ELKIT200	Electric Valve Kit Designed Specifically for A200 and PH400	\$1,568.00
ELKIT2A	Electric Valve Kit Designed For Use On Arbus 1000 & Smaller	\$1,568.00
1197701	Tower For A200/A500 - Tower Dimensions 64" x 40"	\$1,906.00
002203FKIT	Top Gun Spray Gun Kit For A Series Airblast Sprayers - Add 919998318 Hose Or Hose Reel	\$368.00
1198618	Tower Attachment For A400 or A1000/725 - Will not Fit 850 Models W/33" Fan	\$1,923.00
919998318	Hose 1/2 Pressure Per Foot	\$5.44

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## AGRICULTURAL SPRAYERS

### BOOM SPRAYERS

#### CONDORITO BOOM SPRAYER

ITEMNUMBER	DESCRIPTION	PRICE
PJ401BASE	PJ401 Base Boom Sprayer - 3PH, 105 Gallon Tank - **BASE UNIT Add Kits**	\$5,990.00
1242105	5' To 10' Hooded Herbicide Boom Application Kit For PJ401	\$3,805.00
1241511	Boom Kit - 33' Boom For PJ401 Boom Sprayer	\$1,071.00
002203F	Top Gun Spray Gun Kit For Jacto Sprayers - Does Not Include Hose	\$288.00
006320	3/8" Hose Fitting For Top Gun Spray Gun	\$4.80

#### VORTEX BOOM SPRAYERS

ITEMNUMBER	DESCRIPTION	WEIGHT	PRICE
FALCONVORTEX	Falcon Vortex Boom Sprayer - 3PH, 165 Gallon Tank, 46' Boom, In-Cab Elec. Control	1367	\$35,380.00
ADVANCEVORTEX	Advance Vortex Boom Sprayer - Trailed, 800 Gallon Tank, 60' Boom, In-Cab Elec. Control	4718	\$71,145.00

### BOOM SPRAYERS

#### BOOM SPRAYER SPECIFICATION



	Tank Capacity (Gallons)	Working Speed	Agitation	Boom/Spray Width	Min. Tractor HP
PJ401 Condorito	105	1 - 4 MPH	Bypass	33' w/anti drip nozzle holders	30HP
Falcon Vortex	165	1 - 4 MPH	Bypass w/Venturi	46' w/hyd fold	80HP
Advance Vortex	800	Up to 7.5 MPH	Mechanical & Bypass	60' w/hyd fold & angle adj.	90HP



#### PJ401 Condorito

Ideal for the grower that needs more than one style of sprayer. Start with the configureable Condorito base and add applicator kits as needed to form four different 1 - 4 MPH assemblies, making the Condorito an efficient & versatile spraying system.

#### FEATURES

- Hooded herbicide boom sprayer
- Manually folds



#### Falcon Vortex

The Falcon Vortex air-assist boom provides unsurpassed crop coverage and protection by utilizing air-assist boom system that displaces "dead" air around your crop with the spray solution suspended in high-speed "Vortex" air. This can reduce drift up to 70% and operating cost by 60%.

#### FEATURES

- hydraulically operated fan
- ceramic cylinder high-pressure piston pump



#### Advanced Vortex

Jacto's Advance Vortex air-assist boom sprayer provides unsurpassed crop coverage and protection by utilizing air-assist boom system that displaces "dead" air around your crop with the spray solution suspended in high-speed "Vortex" air. Air-assist boom spraying can reduce drift between 57 and 71%. It can also help reduce your operating cost by up to 60%.

#### FEATURES

- hydraulically operated fan
- ceramic cylinder high-pressure piston pump

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## BACKPACK SPRAYERS

### PUMP SPRAYERS

ITEMNUMBER	DESCRIPTION	WEIGHT	PRICE
XP312	XP312 Backpack Sprayer - Pump, 3 Gallon Capacity - White	10	\$111.00
XP12	XP12 Backpack Sprayer -Pump, 3 Gallon Capacity - Blue	10	\$111.00
XP416	XP416 Backpack Sprayer - Pump, 4 Gallon Capacity -White	10	\$116.00
XP16	XP16 Backpack Sprayer - Pump, 4 Gallon Capacity - Blue	10	\$116.00
HD400	HD400 Backpack Sprayer -Pump, 4 Gallon Capacity - White	8	\$135.00
HD400BLUE	HD400BL Backpack Sprayer - Pump, 4 Gallon Capacity - Blue	8	\$135.00
HD400U	HD400 Backpack Sprayer - Pump, Pest Control, 4 Gallon Capacity	10	\$183.00
CD400	CD400 Backpack Sprayer - Pump, 4 Gallon Capacity - White	11	\$188.00
PJ16	PJ16 Backpack Sprayer - Pump, 4 Gallon Capacity - Blue	11	\$188.00
PJ16U	PJ16 Backpack Sprayer - Pump, Pest Control, 4 Gallon	10	\$223.00
PJH	PJH Backpack Sprayer - Pump, 5 Gallon Capacity - Blue	12	\$175.00

### SHOULDER SPRAYERS

ITEMNUMBER	DESCRIPTION	WEIGHT	PRICE
HH5	HH5 Compression Sprayer - Pump, 1.3 Gallon Capacity, Shoulder Mount - Blue	5	\$43.00

Two three gallon, six four gallon and one five gallon model, with similar but distinct features, as well as different color schemes, Jacto gives the user several choices for their different applications.

All models come with a fully-internal piston pump contained within the sprayer tank which eliminates the possibility of the pump leaking on the operator, plus Jacto uses a unique pump rod that attaches to the pump lever at the top of the pump piston. By using a separate pump rod, the piston remains straight in the pump chamber, reducing the amount of effort needed to pressurize the sprayer and wear on the piston cup. This makes pumping the sprayer almost effortless and usually on takes 6-8 strokes to achieve 45 psi.

Each sprayer comes with an ergonomic and easy to use trigger valve, stainless steel wand, nozzle screen and adjustable nozzle.



Offering a wide variety of both pump and hand-held sprayers.

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## BATTERY POWERED PRUNERS

ITEMNUMBER	DESCRIPTION	PRICE
PR40EXT	Pole Extension - 61" - 92" Extension	\$499.99



Optional telescopic Pole extension from 61"-92"  
For PR40 Battery Powered Pruner

## JACTO ADD-ON PRODUCTS

ITEMNUMBER	DESCRIPTION	PRICE
PS10SNIP	PS10 - Handheld Manual Pruner, Rounded Blade	\$13.00
PS11SNIP	PS11 - Handheld Manual Pruner, fine-tip blade	\$14.00
PS20BP	PS20 - Handheld Manual Bypass Pruner	\$39.00
PS30BL	PS30 - Handheld Manual Bypass Lopper	\$46.00
GM3GS	GM3 - Handheld Broadcast Spreader	\$30.00

### Handheld Garden Tools



PS10SNIP



PS11SNIP



PS20BP



PS30BL



#### PRUNERS

- Titanium treated blades
- Tempered steel construction
- Straight cutting configuration, spring action
- .4-Inch cutting diameter
- Anti-slip handle grips

#### BYPASS PRUNER

- Tempered steel construction
- .8-Inch max cutting diameter
- Wire cutting notch
- Anti-slip handle grips
- Replaceable blades – easy to sharpen
- Forged aluminum handles

#### BYPASS LOOPERS

- High-quality carbon steel blades
- 1.2-Inch cutting diameter
- Coated aluminum handles with non-slip grips
- Rubber blade stoppers for comfortable cutting action

#### GRANULAR SPREADER

- Durable poly construction
- Comfortable hand grip with arm support
- 3-liter (6.6 lbs.) capacity
- 5 opening settings
- 11.5' maximum broadcast range