

# MILLER PRO

## Trailer & 3 Point Sprayers

110 Gallons • 300 Gallons • 500 Gallons • 750 Gallons • 1,000 Gallons



**MILLER PRO**



# Sprayers for every application. 5 basic models.

*Loaded with high production features & options.*

**500S/500T**

- 500 gallon
- Single/tandem axle
- Elliptical tank

**750T**

- 750 gallon
- Tandem axle
- Elliptical tank

**750BW**

- 750 gallon
- Big wheel axle
- Elliptical tank

**1000T**

- 1,000 gallon
- Tandem axle
- Elliptical tank

**1000BW**

- 1,000 gallon
- Big wheel axle
- Elliptical tank

Miller Pro provides a long line of high quality sprayers, with an extensive choice of features and options to help make operators highly efficient. All Miller Pro sprayers can be customized as needed to make fill time and field time more productive.

## You name it. There's a Miller Pro boom made for the job.

Miller Pro booms are built to handle the most rigorous conditions, constructed with high grade materials and designed to work in all terrains. If you need negative and positive wing tilt, there are Miller Pro booms for the job. How about using just one boom with the other folded in? No problem.

How about stainless steel boom lines, dependable breakaway wings that return automatically, and a superior suspension system? Miller Pro sprayers offer just what you need. Choose from manual or hydraulic fold, cross fold or forward fold.



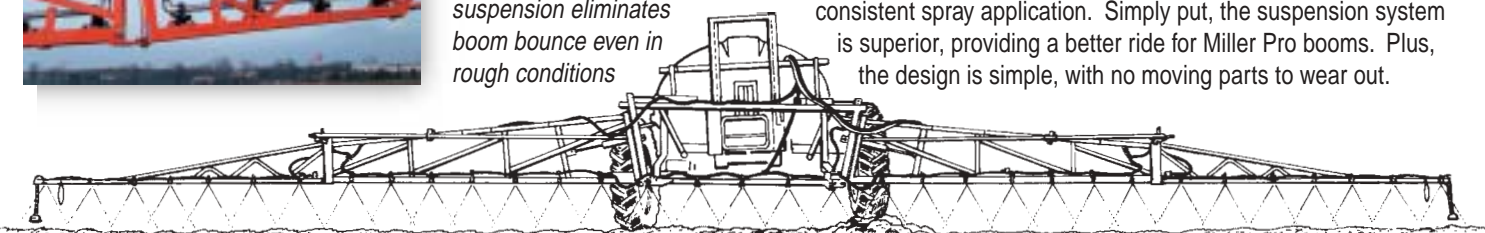
*Breakaway wings automatically return to operating position*

*Field Cushion™ boom suspension eliminates boom bounce even in rough conditions*



## Booms ride on a superior suspension system

The exclusive Miller Pro *Field Cushion™* suspension system eliminates sprayer boom bounce on rough terrain. Its patented design is effective, yet simple, and provides significant advantages over other self-leveling booms, especially for vertical shock. It reduces stress on boom structure and promotes longer boom life. It also provides a more consistent spray application. Simply put, the suspension system is superior, providing a better ride for Miller Pro booms. Plus, the design is simple, with no moving parts to wear out.



# Booms with features and flexibility

## Manual Fold

The MILLER PRO manual forward fold boom provides a reliable and stable design that withstands the rigors of field operation. Boom wings quickly and easily lock into place. Most models use a winch for boom height adjustment. Other standard features include: Single *TeeJet* non-drip nozzle bodies, XRC-11004 ceramic flat fan spray tips and breakaway boom wings. Manual fold booms are available in widths from 32 to 51 feet. Optional hydraulic wing tilt and/or hydraulic raise/lower (24") are available.



## Hydraulic Fold Booms

This convenient feature provides control from the tractor seat of boom functions - fold/unfold and raise/lower. Most booms also feature independent wing tilt. More importantly, it helps the operator avoid contact with contaminated booms and provides time saving advantages for moving in and out of fields.



## Rear Hydraulic X-Fold Booms

The X-FOLD boom is a high quality rear fold boom that overlaps the wings when folded. The boom features the MILLER PRO patented S-Tine Field Cushion™ suspension with hydraulic fold and a 24-inch height adjustment. Other standard features include: Single *TeeJet* non-drip nozzle bodies, XRC-11004 ceramic flat fan spray tips and break away secondary boom wings. This boom requires two tractor hydraulic valves to operate; one to fold/unfold and the second to raise/lower. Wing tilt is optional. This boom is available with a tractor 3 pt. hitch adapter, ideal for use with tractor saddle tanks. X-FOLD booms are available in widths from 38 to 60 feet.

## Hose and Wire Harness Stand

Standard on all sprayers with hydraulic fold booms, the convenient stand keeps all the hydraulic hoses and wiring harnesses neatly held in place and out of harm's way.



# MILLER PRO



## Forward Fold

The FORWARD FOLD boom is a heavy-duty commercial grade boom that has been time proven on both pull type and commercial truck sprayers. The forward fold boom uses high-grade materials such as yellow/zinc plated hardware and NITRO-TEC™ plated hydraulic cylinder shafts. Heavy trusses, nozzle body protection and breakaway secondary wings with auto return assure many years of trouble-free operation. Standard features include: Single TeeJet non drip nozzle bodies and XRC-11004 ceramic 110 degree-20GPA flat fan tips. These booms are available in widths from 45 to 66 feet and three different hydraulic configurations: **HF**, **HT** or **HC**. Front boom rests are poly lined to assure smooth operation.



### HF Boom

The **HF** boom features hydraulic fold/unfold and hydraulic up/down with a travel of 24 inches on the tandem axle and 29 inches on the big wheel. (No wing tilt) Requires two tractor hydraulic valves to operate; one to fold/unfold and the second to raise/lower.



### HT Boom

The **HT** boom features hydraulic fold /unfold and hydraulic up/down with a travel of 24 inches on the tandem axle and 29 inches on the big wheel. The **HT** boom also features hydraulic independent wing tilt which has the ability of going above and below level. Requires two tractor hydraulic valves to operate, one to fold/unfold and the second to raise/lower. There will be one electric switch in the cab controlling an electric diverter valve so the same two hydraulic valves that fold/unfold and raise/lower the boom now will control the left and right wing tilt.



### HC Boom

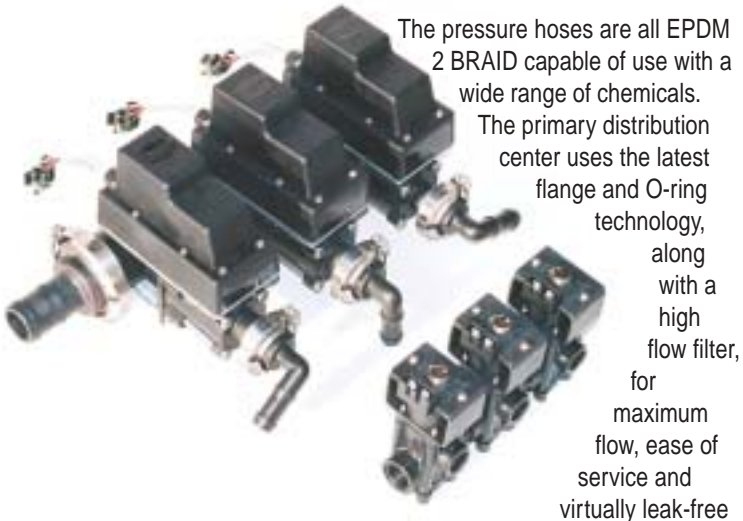
The **HC** boom incorporates all the features of the **HT** boom. In addition the boom is capable of folding one side at a time. Requires only one tractor hydraulic valve. (Locked open while sprayer is in use) This system allows you to have complete control over all boom hydraulic functions with the flip of one of 5 electric switches in the tractor cab. This is ideal when used in conjunction with a hydraulic drive product pump.

Included with the **HC** boom is a compact control box (2" H x 10.5"L) that handles all electric accessory functions including 5 boom switches, foam marker, fence line nozzle(s) and electric rinse kit. The control box can "piggy back" the RAVEN rate controller or be mounted separately.



## Valves, Fittings and Hoses

Miller Pro sprayers are designed with high capacity and ease of service in mind. The main suction hoses, fast fill hoses, valves and quick couplers are all FULL FLOW and 2 inch diameter. These fittings use the latest flange and O-ring technology, for ease of service and virtually leak-free operation. Whenever possible, 90 degree elbows are eliminated to increase flow efficiency.



The pressure hoses are all EPDM 2 BRAID capable of use with a wide range of chemicals.

The primary distribution center uses the latest flange and O-ring technology, along with a high flow filter, for maximum flow, ease of service and virtually leak-free

operation. The elimination of 90 degree elbows wherever possible, also helps to insure maximum flow capacities. Large commercial grade 1" motorized ball valves with 1" boom feed lines are standard on all hydraulic forward fold booms. Weather pack sealed wire connectors are standard on all motorized ball valves. Solenoid valves with 3/4" boom feed lines are standard on all other booms.

## Tanks

Rugged, long-lasting poly tanks easily take the pounding from rough terrain year after year. A deep sump in the bottom of the tank provides thorough clean-out.



## 3 Point Hitch Sprayers

Miller Pro offers a choice of 3-point hitch style sprayers in 110 gallon and 300 gallon capacities. These sprayers come standard with poly tanks, parking stands, 3-gallon clean water safety tank, 3-section electric controls and a PTO mounted pump. Booms have adjustable height and are available in manual fold versions with spraying widths from 27 to 45 feet and hydraulic fold versions from 38 to 45 feet.

### Options include:

- Hydraulic wing tilt
- Hydraulic drive pump
- RAVEN rate controllers
- Chemical inductor
- Self-cleaning filter
- 2" fast fill via transfer pump
- 10 gallon foam marker
- Elec. motorized ball on/off/valves
- Self cleaning filter
- Hand gun kit w/25' hose

## 3 Point Hitch Booms

Three-point hitch booms are hydraulic rear X-fold design that mount to the three point hitch of a tractor. The boom requires two tractor hydraulic valves to operate. This is ideal for use with saddle or front mount tractor tanks. Sizes are 45', 51' and 60'.

### Features include:

- Three point hitch carrier
- Parking stands
- Patented Field Cushion™ S-tine suspension
- Hydraulic tower with a 24" up/down travel
- Hydraulic fold
- Hydraulic cylinders and hoses
- Single non-drip TeeJet nozzle bodies
- TeeJet XRC-11004 20 GPA ceramic tips w/snap fit caps and screens
- 3/4" interbody 2 - braid EPDM hose
- Breakaway secondary boom wings (self returning)
- Heavy duty construction

### Options include:

- Individual wing tilt
- Turret style triplet nozzles
- On/off boom valves and plumbing

## Options & Accessories

### Foam Markers & Lite Bars



An optional 10 or 25 gallon foam marker with boom end mix for fast response time. The foam system marks the path at the end of the boom to prevent skips or double coverage.

A RAVEN Lite Bar system using GPS allows the operator to follow spraying paths accurately day or night, eliminating the expense of foam.



### Control Center Option



The clean, compact and easy to use CONTROL CENTER encases four of the most commonly used control valves keeping them out of the elements. Easy to understand operating instructions are located on the cover.

### Fast Fill Kit Option



Two 2" FAST FILL kits are available. One kit allows you to fill the product tank with a transfer pump. The other kit allows you not only to fill both the product tank and the fresh water rinse tank with a transfer pump, it also allows you to use the sprayer product pump to fill both tanks.

### Stainless Steel Boom Lines



Optional stainless steel boom lines are available for those requiring high volume for applying liquid fertilizer or preferring a wet boom system. Turret style triplet nozzles are standard with stainless steel boom lines. Boom lines

are located above and behind the boom frame for added protection.

### Rate Control Systems



In today's world, with environmental concerns, chemical costs, time constraints and over or under application issues, a rate control system can come to your rescue!

MILLER PRO offers a full line of

RAVEN rate controllers to make spraying simple and easy. These optional systems will automatically compensate for ground speed changes up or down. You can pre-program 2 separate rates into the console and with the flip of a switch you can change application rates on the go. It also keeps track of gallons used and acreage covered. These systems are GPS compatible. For all other feature information in these controllers refer to RAVEN literature for more details.

### In-Line Filters

Optional in-line filters are an easy way to maintain a clean constant flow of chemical to the spray tips. These filters are installed in the boom feed lines between the on/off valves and the non-drip nozzle bodies.



### Sight Gauge

The optional sight gauges allow you to see the tank level at a glance.



### Hand Gun Kit

(not shown)

Optional - Trigger operated hand gun with hose wrap and 25' of 3/8" hose.

## High Capacity Plumbing



Optional - This system increases the performance with the use of a 200 GPM hydraulic drive product pump, 1-1/2" pressure lines, high flow Y strainer, RAVEN rate controller with RFM100 flow meter and 1-1/2" regulating valve. The boom on/off valves are relocated to the back of the sprayer for faster response time and less line restriction. *NOTE: Due to flow requirements, the self cleaning filter can not be used.*

## RAVEN FloMax Flow Meters



Optional flow meter kit accurately measures flow volume going into the product tank. This is ideal for accurately measuring batches. FloMax 110 has the flow meter mounted to the sprayer and connected to the fill line with the control console mounted on the side of the sprayer.

FloMax 220 is a portable self-contained flow meter and can be easily moved from sprayer to sprayer.

## Pump Options



ACE 150 Series PTO drive pump is standard. Twin constant velocity (C.V.) joint PTO drive shaft is standard to assure smooth chatter free turns. ACE 1000 RPM, HYPRO 9000 Series and ACE 150 or 200 Series hydraulic drive pumps are optional.



## Safety Clean Water Tank (Hands)

A standard safety feature provides fresh water to clean hands.

## Triplet Nozzles ...Fence Line Nozzle(s)



### Options

Turret style triplet nozzles are optional on the dry booms and standard on stainless steel wet booms. This feature allows easy change of spray tips by simply rotating the nozzle head to the desired tip. Four

and five body nozzles are also available. Fence line nozzles (adjustable) are available for one or both ends of the sprayer boom. Manual or electric.

## Chemical Inductor — 5 gallon (optional)



Dispensing chemical from ground level at waist height eliminates the need to climb on sprayer. Then just flip a valve and the product pump's water pressure injects the chemical into the product tank. A hand gun is provided to rinse the residue from the inductor

and chemical jugs. When the sprayer is equipped with a rinse system an optional 12 volt electric pump is available to provide clean uncontaminated water to the hand gun.

## Self-Cleaning Filter (optional)



Captures heavy unmixed chemical particles, reintroduces them back into the agitation system and continues to break them down until they are small enough to pass through the spray tips. *Not available with high capacity plumbing option.*

## Rinse Kit (optional)



Provides 65 gallons of clean water for rinsing pump, controls, hoses and boom without rinsing the tank. When spraying is completed and the product tank is empty, the rinse kit rinses the tank plus all the other components. Solves the messy problem of cleaning and disposing of product by spraying back on field.

## Trailer Sprayer Features & Options

Model	500S/500T	750T	750BW	1000T	1000BW
	Elliptical	Elliptical	Elliptical	Elliptical	Elliptical
<b>Tire size</b>					
Standard	11Lx15	12.5Lx15	13.6x38	12.5Lx15	13.6x38
Optional	12.5Lx15				
<b>Tire spacing</b>					
Standard	60-80"	60-88"	120"	60-88"	120"
Optional	60-120"		94" or 152"	60-120"	94" or 152"
<b>Booms/manual fold</b>					
Elec. Solenoid On/Off Valves	Std	Std	NA	Std	NA
Elec. Motorized Ball On/Off Valves	Opt	Opt	NA	Opt	NA
Sizes Include:	32 - 51'	32 - 51'	NA	32 - 51'	NA
Winch Lift	Std	Std	NA	Std	NA
Hydraulic Lift	Opt	Opt	NA	Opt	NA
Hydraulic Wing Tilt	Opt	Opt	NA	Opt	NA
<b>Booms/hydraulic fold</b>					
Hydraulic forward fold					
Elec. Motorized Ball On/Off Valves	Std	Std	Std	Std	Std
Sizes include:	45 - 60'	45 - 66'	45 - 66'	45 - 66'	45 - 66'
Hydraulic rear X-fold					
Elec. Solenoid On/Off Valves	Std	Std	Std	Std	Std
Elec. Motorized Ball On/Off Valves	Opt	Opt	Opt	Opt	Opt
Sizes Include:	38 - 60'	38 - 60'	38 - 60'	38 - 60'	38 - 60'
Individual wing tilt	Opt	Opt	Opt	Opt	Opt
<b>Pump types-centrifugal</b>					
540 RPM Dual CV-PTO	Std	Std	Std	Std	Std
1000 RPM Dual CV-PTO	Opt	Opt	Opt	Opt	Opt
Hydraulic 100GPM	Opt	Opt	Opt	Opt	Opt
Hydraulic 200GPM	Opt	Opt	Opt	Opt	Opt
<b>Controls</b>					
Electric / 3-section	Std	Std	Std	Std	Std
Electric / 4 or 5 -section	Opt	Opt	Opt	Opt	Opt
Raven Rate Controller / 3-Sec.	Opt	Opt	Opt	Opt	Opt
Raven Rate Controller / 4-Sec.	Opt	Opt	Opt	Opt	Opt
Raven Rate Controller / 5-Sec.	Opt	Opt	Opt	Opt	Opt

S - Single Axle  
T - Tandem Axle  
BW - Big Wheel

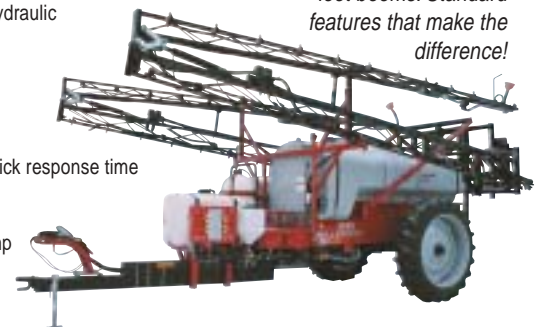
Other features & options (all models)	
Safety clean water tank (hands)	Std
Chemical inductor-5 gal	Opt
Rinse kit-65 gal	Opt
Rinse kit controls/manual	Std
Rinse kit controls/electric	Opt
Sight gauge	Opt
2" fast fill	Opt
High capacity plumbing	Opt
Self cleaning filter*	Opt
Triplet nozzles	Opt
Stainless steel boom lines	Opt
Fenceline nozzle(s)	Opt
Foam marker and/or Lite bar	Opt
Raven Flow Max	Opt
Hand gun kit with 25' hose	Opt

\*Not available with high capacity plumbing

### Commercial Grade Sprayers

- ACE - 150 series hydraulic drive pump
- Hydraulic fold boom
- Only ONE PAIR of hydraulic hoses needs to be connected to the tractor
- Demand Controlled Power System including a hydraulic flow control
- Insta-Response Monitoring including a RAVEN 450 Rate Controller
- Demand sensing Boom Control Valves
- Field Cushion™ Boom suspension
- ON/OFF valves are mounted on the boom for quick response time
- 100 gallon rinse system
- 5 gallon chemical inductor
- 2" fast fill works with transfer and/or sprayer pump
- Boom inline filters

MILLER PRO also offers a 1000 or 1600 gallon big wheel sprayer with 80 or 90 foot booms. Standard features that make the difference!



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