



## NORTH CAROLINA SHERIFFS' ASSOCIATION

<b>Name of Dealership</b>	<b>Type of Vehicle</b>	<b>Zone</b>	<b>Base Unit Price</b>
<a href="#"><u>NEW WAY MAMMOTH FRONT LOADER - 43 YARD (Specification #92)</u></a>			
Amick Equipment Co., Inc.	2016 New Way Mammoth Front Loader - 43 Yard	★Appalachia	\$86,502.36
Amick Equipment Co., Inc.	2016 New Way Mammoth Front Loader - 43 Yard	★Dogwood	\$86,502.36
Amick Equipment Co., Inc.	2016 New Way Mammoth Front Loader - 43 Yard	★Cardinal	\$86,502.36
Amick Equipment Co., Inc.	2016 New Way Mammoth Front Loader - 43 Yard	★Longleaf Pine	\$86,502.36



# **NORTH CAROLINA SHERIFFS' ASSOCIATION**

## **NEW WAY MAMMOTH FRONT LOADER - 43 YARD** **SPECIFICATION #92**

2016 New Way Mammoth Front Loader - 43 Yard

NEW WAY MAMMOTH FRONT LOADER CHASSIS SPECS - BODY CAPACITY: 43 CUBIC YARDS, BODY WIDTH: 75", BODY LENGTH: 472", BODY HEIGHT: 110.75", CAB OVER MUST BE FRONT MOUNT PUMP, WITH OVERSPEED PROTECTION- ENGINE: 350 HP SET AT 1,000 LB TORQUE AT IDLE; ALLISON: 4500 RDS TRANSMISSION WITH OVERSPEED PROTECTION; CHASSIS GVWR: 64,000 LBS MINIMUM; FRONT AXLE: 20,000 LBS, REAR AXLE: 44,000 LBS REAR TANDEM; WHEEL BASE: 208"-210"; AFTER FRAME: 76"

**ALL ITEMS FACTORY INSTALLED UNLESS OTHERWISE INDICATED**

**INSTRUCTIONS:** Listed above, you will find the model numbers of the vehicles that will be included in this year's contract.

### 1. BODY DIMENSIONS

- a. Length - 472"
- b. Height - 110.75"
- c. Wheel Base - 208"-210"
- d. Body weight - 16,850 pounds

### 2. BODY CONSTRUCTION

- a. Body Sides - 1/8" AR450 formed to a radius for extra strength
- b. Body Roof - 10 Gauge, 80,000 PSI yield steel
- c. Body Floor - 1/8" AR450 curved
- d. Flood Longitudinal - 2"x6"x1/4" structural tube

### 3. HOPPER

- a. Capacity - 12 yards
- b. Floor - 3/16" AR450 steel formed to a radius
- c. Sides - 3/16" AR450 steel formed to a radius. No straight sides
- d. Front - Enclosed with expanded metal for viewing behind the packer and to prevent trash from blowing out
- e. Wear Strips - Hopper is lined with 6each 1/4" wear strips, AR450 to match the wear strips onthe packer panel. Plow steel wear strips are not acceptable.
- f. Sliding Cover - Hydraulic sliding cover constructed of 14gaige A569 steeland reinforced with 1"x2" tube
- g. Hopper Cover - Powered by 1 Hydraulic double acting cylinder, 2.5" x 92" shall open automatically when raising the lift arms.
- h. Switch - SPDT single pull, double throw, electrical switch in the cab to manually close the hopper cover.
- i. Access - Sliding side access door with PTO interlock and shall be a minimum of 30"x30"

### 4. PACKING MECHANISM

- a. Face Panel - Packer face panel shall be constructed of 3/16" AR450 Steel
- b. Tracks - Packing panel shall slide in a track constructed of 1/4" formed channeland lined on all 3 sides with AR450 wear strips
- c. Activation - Packer panel shall be activated by (2) 6.5"x182" stroke, 4 stage telescopic hydraulic cylinderswith U-cup seal design

- d. Cycle - Pack cycle shall be 25 to 27 seconds
- e. Panel Dimensions - Packing panel shall be 79" high x 84" wide
- f. Force - Packing panel shall exert a minimum of 133,000 lbs of packing force throughout the pack cycle

## 5. TAILGATE

- a. Type - Tailgate shall be top hinged and of bustle type
- b. Bubble - Tailgate bubble shall be constructed of 1/8" AR450 steel
- c. Sides - Tailgate side sheets shall be constructed of 10 gauge 80,000 PSI high tensile steel
- d. Hinges - Tailgate shall be secured to the body using (2) sets of hinges with 1.5" hinge pins at the roof line
- e. Activation - Tailgate shall be unlocked, opened and closed by (2) 3"x25.5" double acting hydraulic cylinders with restrictors to prevent precipitous decent in case of a hydraulic line rupture
- f. Locks - Tailgate shall have a 4 point positive lock system without the need for turnbuckles.
- g. Gasket - Tailgate shall be equipped with a 1 piece-replaceable rubber gasket, extending across the bottomwidth of the tailgate and vertically up the sides 36"
- h. Alarm - A warning icon on the in-cab display and buzzer shall be installed in the cab to indicate when the tailgate is open.

## 6. LIFTING ARMS

- a. Arms - Arms shall be of fabricated tube design. Comprised of 3"x3/8" 100,000 psi steel, upper and lower continuous flat bar. (multiple piece welded flat bar is unacceptable) the arms shall be covered with 3/16" AR450 steel side plates
- b. Capacity - Arms shall have an 8,000 lbs. lift capacity
- c. Proportional Control - The arm shall provide a progressive slow stop before coming into contact with the rubber arm stops by use of the proportional control valve. (internal cushioning of the arm cylinders is not acceptable)
- d. Cycle - The load arm cycle time shall not be more than 12-13 seconds
- e. Lift Cylinders - The lift arm cylinders shall be powered by (2) 4.5"x45.25" double acting cylinders with 2" rods
- f. Arm Pivot - The arm pivot shaft shall be constructed of 4.5" OD x 1/2" wall DOM tubing
- g. Bushings - The pivot bushings shall have at least 4 split type bronze bushings to prevent wear
- h. Fork Construction - The forks shall be constructed of 1.25" 100,000 PSI sheet steel 48.75" long from bump stop to tip and tapered at the end
  - i. Fork Height - The forks at dump position shall not exceed 13'6" above the ground
  - j. Fork Rotation - The fork rotation shall be accomplished by (2) 3.5" double acting cylinders, 24" stroke, with a minimum 1.5" rod
  - k. Fork Pivot - The fork pivot shaft shall be constructed 4.5" OD x 1/2" wall DOM tube
  - l. Fork Bushings - The fork bushings shall be of split bronze type bolted to the arms with (4) 3/4" grade 5 bolts on each side
- m. Scuff Plates - There shall be UHMW arm scuff plates mounted to the upper hopper sides

## 7. CONTROLS

- a. Compactor Controls - All compactor operation controls are to be located in the truck cab and mounted for operator convenience and comfort
- b. Warning Signals - Warning signals shall be incorporated into all circuits monitoring abnormal compactor operations
- c. Control Type - All controls must utilize J1939 Can-Bus protocol to interface with the chassis and also controllers located throughout the bodies electrical system
- d. SPDT Switches - The packer, hopper cover, and rear door operation shall be controlled by SPDT electrical switches
- e. Rear Door Safety - The rear door shall not operate without depressing a safety switch in conjunction with the tailgate rocker switch to prevent accidental opening of the rear door
- f. Arm Control - The arm control shall have an interlock to prevent dumping behind the packer panel
- g. Cab Display - An in cab display with diagnostics must be standard in the cab for convenience of trouble shooting and also operator warning message and lights
- h. Proximity Switches - Proximity switches shall be used throughout the body, No exceptions

## 8. HYDRAULICS

- a. Reservoir - The hydraulic reservoir shall be supplied with a minimum capacity of 70 gallons and equipped with a fluid site gauge, temperature indicator, air breather filter, magnetic trap, and a gate valve on the suction line
- b. Strainer - The reservoir shall have a 100 micron suction strainer and equipped with a built in 3PSI bypass for pump protection
- c. Pump - The body shall be powered by a front mount Denison Vane Pump
- d. Hydraulic Functions - All hydraulic functions shall be controlled by an electric operated PVG32/100 hydraulic valve or equivalent
- e. Hydraulic Hoses - All hydraulic hoses shall be SAE approved construction with hose burst pressure (4) times working

- pressure and have protective coverings
- f. Steel Tubing - Where possible, seamless steel tubing with zinc clear coating shall be used and held in place with shock absorbing bolt on clamps
- g. Hose Ends - All hose ends, tubing and adapters shall have JIC 37 degree flare fittings
- h. Operating Pressure - Normal maximum operating pressure shall not exceed 2450 PSI
- i. Relief Valve - The hydraulic system shall incorporate a relief valve to protect all components from excess pressures
- j. Chrome Rods - All cylinder rods shall be chrome plated
- k. Auto Packer - The hydraulic system shall include automatic pack functions to allow continuous pack cycle
- l. Panel Extend - The packer panel in extend or retract mode shall automatically accelerate at 1450-1550 rpm when truck is in neutral
- m. Autopack Function - The auto-pack function shall include a pack start button and a neutral safety to disable automatic acceleration if the transmission is in gear. PTO kill proximity switch provided on the hopper access door

## 9. ELECTRICAL

- a. Loom - All wiring shall be loomed or in conduit
- b. LED - The body shall be equipped with approved LED clearance, warning, tail, license, stop and turn signals in compliance with the national safety standards
- c. Light Mounts - All clearance, back-up, and directional lights shall be shock mounted in rubber grommets
- d. Back-up Alarm - The body shall be equipped with an external audio back-up alarm activated when the chassis is in reverse
- e. Tailgate Alarm - An icon on the in-cab display screen shall illuminate when the tailgate is open and audible alarm will sound when the tailgate is open
- f. Camera - A camera system shall be installed with a monitor for viewing the rear of the body and for safety when truck is in reverse. System will include a 5.6" LCD color monitor with (1) reverse camera and (1) camera in the hopper area

## 10. PAINT

- a. Prep - The body shall be properly cleaned of all dirt, oil and welding slag. a gray lead-free Epoxy primer with rust inhibitors shall be applied
- b. Type - Dupont Imron Elite shall be applied as a top coat. Specify paint code: \_\_\_\_\_ Specify paint color: \_\_\_\_\_

## 11. MOUNTING

- a. Body shall be mounted in accordance to industry standards
- b. No welding shall be performed on the chassis frame in the mounting process

## 12. WARRANTY

- a. Body - Manufacturer's limited warranty shall apply for a period of (1) year after date of acceptance of the unit
- b. Cylinders - 2 years

## 13. STANDARD FEATURES

- a. Standard mount
- b. Denison long life vane pump
- c. All LED body lights
- d. Center mount brake (ID cluster)
- e. 10 lb fire extinguisher
- f. Triangle kit
- g. Dual 5.6" camera flat screen color
- h. Acrylic urethane enamel paint, white
- i. Body roof 7 ga 50k
- j. body sides 3/16" AR 235 curved
- k. Body floor 3/16" AR 235 curved
- l. Hopper sides lower, 3/16" AR400
- m. Hopper floor 1/4" AR400
- n. Tailgate bubble 10 Ga AR400
- o. Packer Panel lower face 1/4" AR235
- p. Packer Panel sloped face 1/4" AR235
- q. Steel canopy
- r. Visual filter by-pass indicator on filter housing
- s. Steel oil tank

- t. Zinc plated tubes
- u. Quick disconnect port for pressure gauge
- v. Single handle quad air control joystick
- w. 8000 lb lift rating
- x. 1.25" thick fork, 100,000 psi with hook (44-9/16" bumper to hook)
- y. Sliding access door (fiber glass)
- a`. Hopper opening 83"x83"
- aa. 2 year cylinder warranty
- ab. 1 year body warranty
- ac. 1 year hydraulic warranty



## **NORTH CAROLINA SHERIFFS' ASSOCIATION**

### **NEW WAY MAMMOTH FRONT LOADER - 43 YARD SPECIFICATION #92**

#### **2016 New Way Mammoth Front Loader - 43 Yard**

The New Way Mammoth Front Loader - 43 Yard purchased through this contract comes with all the standard equipment as specified by the manufacturer for this model and NCSA's base vehicle specification(s) requirements which are included and made a part of this contract's vehicle base price as awarded by specification by zone.

ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$86,502.36	\$86,502.36	\$86,502.36	\$86,502.36

While the North Carolina Sheriffs' Association has attempted to identify and include those equipment items most often requested by participating agencies for full size vehicles, we realize equipment needs and preferences are going to vary from agency to agency. In an effort to incorporate flexibility into our program, we have created specific add/delete options which allow the purchaser to tailor the vehicle to their particular wants or needs.

The following equipment delete and add options and their related cost are provided here to assist you in approximating the total cost of the type vehicle(s) you wish to order through this program. Simply deduct the cost of any of the following equipment items you wish deleted from the base unit cost and/or add the cost of any equipment items you wish added to the base unit cost to determine the approximate cost of the type vehicle(s) you wish to order.

NOTE: An official listing of all add/delete options and their prices should be obtained from the appropriate dealer in your zone when preparing your order. Additional add/delete options other than those listed here may be available through the dealers, however, those listed here must be honored by the dealers in your zone at the stated prices.

<b>VEHICLE:</b>	Mammoth Front Loader - 43 Yard			
<b>DEALER:</b>	Amick Equipment Co., Inc.	Amick Equipment Co., Inc.	Amick Equipment Co., Inc.	Amick Equipment Co., Inc.
<b>ZONE:</b>	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
<b>BASE PRICE:</b>	\$86,502.36	\$86,502.36	\$86,502.36	\$86,502.36

Order Code	Add Options	All Zones
	Service Hoist	\$2,801.40
	Install customer supplied scales (consult dealer rep)	\$4,210.22
	Brackets for customer supplied scales (consult dealer rep)	\$2,054.36
	Vulcan Scale system Installed (6 point)	\$14,443.45
	Loadman Scale System installed (6 point)	\$13,685.25
	Install customer supplied fork scales	\$3,459.12
	Fork Scales	\$13,499.50
	Printer option for scales	\$1,708.25
	Front mount muncie MLS gear pump	\$225.33
	PTO mount commercial gear pump	\$1,915.31
	20,000 lb pusher axle with tires	\$10,811.78
	20,000 lb pusher axle without tires	\$8,462.06
	13,200 lb pusher axle with tires	\$9,395.86
	13,200 lb pusher axle without tires	\$7,970.80
	13,200 lb tag axle with tires	\$10,172.33
	13,200 lb tag axle without tires	\$8,746.26
	13,200 lb Steerable tag axle with tires	\$11,227.93
	LED mid body back-up lights (2 included)	\$440.51
	LED back-up lights on tailgate (2) lights	\$493.29
	Strobe light (surface Mount) center tailgate.	\$336.98
	Strobe light package (integrated strobe system (2)round lights mounted lower tailgate.	\$551.15
	Strobe light package (integrated strobe system (2)round lights mounted upper tailgate.	\$467.92
	LED round strobes upper tailgate (2)	\$402.96
	LED oval strobes lower tailgate (2)	\$402.96
	LED oval strobes lower tailgate (2)	\$402.96
	Upper light bar with 2 stop/tail & 2 turn	\$465.89
	Traffic advisory board (mounted mid tailgate)	\$823.17
	Wiring circuit including switch for customer install of lights	\$162.40
	Brush guard for upper tailgate light bar	\$173.57
	Other light packages are non-standard options <i>consult factory</i> <sup>1</sup>	NA <sup>1</sup>
	Back-up alarm upgrade 102db	\$77.14
	Back-up alarm auto volumn adjustable	\$150.22
	Over height warning buzzer (arms above cab)	\$507.50

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Back-up collision avoidance sensor (pre view brand)	\$2,332.47
Fire extinguisher upgrade 20 lb	\$95.41
Transition at top of roof from ladder	\$828.24
Fall restraint system for roof	\$2,795.31
Dual camera/flat screen color 7.0" monitor	\$207.06
Triple camera/flat split screen color 7.0" monitor	\$1,761.03
3rd eye dual camera/flat screen color 7.0" monitor 2nd location top of front bulkhead facing hopper	\$647.57
3rd eye triple camera/flat screen color 7.0" monitor 2nd location top of front bulkhead facing hopper 3rd location _____	\$1,680.84
Other camera options are non-standard, consult dealer <i>consult factory</i> <sup>1</sup>	NA <sup>1</sup>
Body roof to 7 gauge AR400	\$1,127.67
Body sides to AR400	\$1,408.82
Body floor to 3/16" AR400	\$839.41
Body Floor to 1/4" 100,000 PSI	\$647.57
Tailgate to 7 Gauge AR400	\$646.56
Packer Panel lower face to 3/8" 50,000 PSI	\$295.37
Packer Panel sloped face to 3/8" 50,000 PSI	\$370.48
Packer Panel construction grade (3/8" 50,000 lower panel, 1/4" AR235 slope panel, 3"x3" horizontal cross braces)	\$989.63
Super Track Bottom wear strip (hopper only)	\$2,177.18
Electronic filter by-pass indicator in cab	\$242.59
Hydraulic shut down when filter in by-pass	\$547.09
High temperature fluid switch	\$474.01
Hour meter on PTO	\$256.80
Low fluid switch	\$474.01
In tank oil heater	\$1,250.48
External oil cooler	\$3,892.53
Aluminum oil tank	\$595.81
Nitride pack cylinders with scrapers	\$2,070.60
Extra valve section with air actuator includes air lines and switch in cab	\$750.09
Quick disconnect pressure gauge	\$92.37
Dual lever air controls <i>no charge option</i> <sup>1</sup>	Incl. <sup>1</sup>
10,000 lb lift rating with 3/8" 50,000 psi arm skins, 5.25" diameter arm cylinders & 4" fork cylinders.	\$2,082.78
Fork thickness 1.25" 100,000 psi with hook (49-5/8" bumper to hook)	\$175.60



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<b>ZONE:</b>	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
<b>BASE PRICE:</b>	\$86,502.36	\$86,502.36	\$86,502.36	\$86,502.36

Fork thickness 1.25" 100,000 psi with hook (58.5" bumper to hook)	\$369.46
Fork thickness 1.5" 100,000 psi with hook (44-9/16" bumper to hook)	\$375.55
Fork thickness 1.5" 100,000 psi with hook (58.5" bumper to hook)	\$533.89
Fork thickness 1.5" 100,000 psi with hook (65.5" bumper to hook)	\$664.83
Fork thickness 1.25" 100,000 psi smooth no hook (48.5" bumper to tip)	NC
Fork thickness 1.5" 100,000 psi smooth no hook (58.5" bumper to tip)	\$467.92
Fork width adjustment hydraulic (both sides 18" each)	\$3,135.34
Fork Limiter to retain can on forks during dumping	\$180.67
Fork cylinders upgrade from 3.5" to 4" diameter	\$329.88
Outside controls for arms, forks packing with E-stop	\$1,279.92
Curbside in cab arm/fork controls	\$1,081.99
Deceleration on arms down function	\$988.61
Cradle support for arms down	\$461.83
Residential carry can system (contact dealer rep) <i>consult factory</i> <sup>1</sup>	NA <sup>1</sup>
Slide Pin for tailgate lock	\$186.76
Turnbuckles	\$388.75
Shovel/broom rack: located back side of front bulkhead screen	\$188.79
Extending cleaning tool with broom attachment and holder (to clean canopy)	\$273.04
Steel tool box 18x18x24	\$504.46
Steel tool box 18x18x36	\$588.70
Steel tool box 18x18x48 <i>correction 18x18x46</i> <sup>1</sup>	\$646.56 <sup>1</sup>
Steel tool box 24x24x48	\$687.16
Container washout tank air 35 gallon	\$1,501.19
Container washout tank air 50 gallon	\$1,656.48
Auto lube (up to 20 points)	\$5,788.55
Packer position lights in cab	\$252.74
Water cooler and bracket	\$246.65
Sliding steel access door	\$396.87
Dual access door	\$504.46
Dual clean out doors	\$253.75
Large hopper opening 83"x95"	\$480.10
Canopy extension raise with air cylinder	\$1,242.36
Canopy coated with rock guard liner	\$440.51
Drip pan below tailgate seal	\$699.34
3 year cylinder warranty	\$1,708.25

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2 year body warranty	\$1,232.21
3 year body warranty	\$2,464.42
2 year hydraulic warranty (excludes cylinders)	\$1,537.73
3 year hydraulic warranty (excludes cylinders)	\$2,304.05