The complete, safe, dependable high mast lighting system for your outdoor lighting needs.
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Carolina High Mast offers a complete, safe and dependable high mast lighting system for illuminating large outdoor areas such as:

- Highways
- Railroad Yards
- Interchanges
- Freight Yards
- Prison Yards
- Ports
- Commercial Parking Lots
- Shopping Centers
- Industrial Plants
- Toll Plazas
- Coal mines and Yards
- Airports
- Power Plants
- Parks and Sports Yards

Critical to any high mast system is the service hoist and pole. Carolina High Mast manufactures a safe, reliable service hoist that lowers the fixtures for relamping and maintenance, and safely returns the units for operation.

**SYSTEM CHOICES AVAILABLE FROM CHM**

Eight variations of hoist systems are available:

**TOP LATCHING**
- Portable Drive Unit Model #C422GXXX
- Platform System Up To 24 Fixtures Model #C522GXXX
- Internal Motor Unit Model #C428GXXX
- Platform System Up To 24 Fixtures Model #C528GXXX
- Mobile Drive Unit Model #C429GXXX
- Platform System Up To 24 Fixtures Model #C529GXXX

**BOTTOM LATCHING**
- Portable Drive Unit Model #C426GXXX
- Internal Motor Unit Model #C427GXXX
The Standard Top Latch Lowering Device Includes:

- Three-position stainless steel type 316 latching cams.
- Three spring-loaded stainless steel centering arms.
- Stainless steel hoist cables.
- Stainless steel hardware.
- Pre-wired aluminum distribution box.
- Copper-free aluminum cover secured with stainless steel hardware.
- Hot-dipped galvanized headframe, luminaire ring and fixture mounting tenons per ASTM -123.
- Square D circuit breaker mounted in an aluminum enclosure.
- Twist-lock weather-tight power connector set.
- Internal winch system for use with portable power unit assembly (internal motorized winch and mobile drive system optional.)
- Luminaire ring lowers to within four feet of pole base for servicing luminaires and other electrical equipment.
- Luminaire ring accommodates up to 12 high mast fixtures, up to 16 floodlight fixtures, mounted symmetrically around the ring.
HEADFRAME ASSEMBLY

The headframe assembly shall consist of a 1/4" thick minimum top plate, with sheave support plates fabricated from a minimum 11 gauge steel sheet. The sheave support plates shall be welded to the headframe base plate. All steel plates shall be laser cut for accuracy. The complete headframe assembly shall be hot-dipped galvanized per ASTM A-123 after fabrication.

Hoist cables shall operate over corrosion-resistant 5-inch diameter aluminum steel sheaves. The entire cable groove surface shall be machined to eliminate any rough surface on which the cable shall ride.

The main power cord shall be supported by a minimum of two 6-inch nonconductive thermoplastic polymer power cord sheaves grooved to provide for a nonabrasive smooth operation. A two-piece threaded male and female thermoplastic polymer insulating bushing assembly shall be installed on the headframe opening to prevent wear on the power cord as it travels up and down the pole.

All sheaves shall have sintered bronze olite bearings and run on a stainless steel axle secured with self-locking stainless steel hardware. Keeper bars shall be positioned at both ends of the sheave assemblies to keep the cord in its track during pole erection and during normal operation.

The top latching assembly shall contain three (3) symmetrically located, extremely stout, precision-cast matching stainless steel latch pins and enclosed cam mechanisms to assure corrosion-resistant, trouble-free operation for years to come. All moving latch parts are bolted to the ring for servicing from the ground. The complete two-part latch pin and cam assembly shall be made of stainless steel (type 316) material. There shall be no moving latch parts or springs attached to the headframe assembly. All motion required to achieve latching or unlatching shall be internal to the latch cam. This will help prevent shock and vibration damage to the lamps and luminaires, as well as prevent the formation of ice buildup on the latching mechanism.

Latching occurs by the alternate raising and lowering of the luminaire ring. When latching of the ring occurs, no horizontal movement of the fixtures (which can cause fixture damage) is permitted.

When in the latch position the space between the headframe and the luminaire ring shall be no more than six inches.

The use of “Z” type top latching system is not an acceptable alternate to the stainless steel latch cam.

All hardware is corrosion-resistant stainless steel.

The headframe assembly shall have a copper-free, spun aluminum cover, retained on its 360-degree perimeter by stainless steel hardware. The dome assembly shall provide a weather-tight seal against the elements for the headframe roller assemblies.

The headframe shall bolt directly to the high mast pole. The headframe base plate and pole top plate shall have four 9/16" x 3" slotted holes to accommodate 1/2" type 18-8 stainless steel hardware.

WINCH PLATE ASSEMBLY

A square “D” circuit breaker shall be mounted in an aluminum enclosure on the winch sub-plate to act as the disconnecting means for the lowering device. Pre-wired to the breaker shall be a twist-lock, weather-tight connector matching those used in the system, mounted to an 8’ tail of power cord of the same type, gauge and number of conductors as the power cord. This cord and connector shall be used to alternately supply power to the lowering device system, the test inlet and the portable power unit assembly.

The winch shall be an enclosed oil-bath worm gear winch, set with a reduction ratio of 30 to 1. The self-locking precision winch guards against ring runaway in the event of power failure.

PORTABLE POWER UNIT ASSEMBLY (MODEL #C408GXXX)

The portable power unit shall incorporate the heavy-duty, reversing type drive motor, torque limiter, drive shaft and electrical controls. The torque limiter is factory set to provide safe reliable operation. A twenty-five-foot-long cord on the remote electrical control box provides for remote operation of the portable power unit. The drive motor is a heavy duty 120-volt reversing electric drill. The portable power unit shall be provided with a weatherproof, portable, enclosed stepdown transformer to operate the 120-volt power unit.
The Standard Bottom Latch Lowering Device Includes:

- Three-position aluminum guide blocks.
- 14 fixed-caster rollers (three spring-loaded stainless steel centering arms or PVC scrub rings optional.)
- Stainless steel hoist cables.
- Stainless steel hardware.
- Pre-wired aluminum distribution box.
- Copper-free aluminum cover secured with stainless steel.
- Hot-dipped galvanized headframe, luminaire ring and fixture mounting tenons per ASTM A-123.
- Square D circuit breaker mounted in an aluminum enclosure.
- Twist-lock weather-tight power connector set.
- Internal winch system for use with a portable power unit assembly (internal motorized winch and mobile drive system optional.)
- Luminaire ring lowers to within four feet of the pole base for servicing luminaires and other electrical equipment.
- Luminaire ring accommodates up to 12 high mast fixtures, up to 16 floodlight fixtures.
**HEADFRAME ASSEMBLY**

The headframe assembly shall consist of a 1/4" thick minimum top plate, with sheave support plates fabricated from a minimum 11-gauge steel sheet. The sheave support plates shall be welded to the headframe base plate. All steel plates shall be laser-cut for accuracy. The complete headframe assembly shall be hot-dipped galvanized per ASTM A-123 after fabrication.

Hoist cables shall operate over corrosion-resistant 5-inch diameter aluminum steel sheaves. The entire cable groove surface shall be machined to eliminate any rough surface on which the cable shall ride.

The main power cord shall be supported by a minimum of two 6-inch non-conductive thermoplastic polymer power cord sheaves grooved to provide for a nonabrasive smooth operation. A two-piece threaded male and female thermoplastic polymer insulated bushing assembly shall be installed on the headframe opening to prevent wear on the power cord as it travels up and down the pole.

All sheaves shall have sintered bronze oilite bearings and run on a stainless steel axle secured with self-locking stainless steel hardware. Keeper bars shall be positioned at both ends of the sheave assemblies to keep the cord in its track during pole erection and during normal operation.

On the underside of the headframe shall mount three cast aluminum guide sockets. The socket opening shall be tapered cone-shaped for locking and aligning the stainless steel locking pin mounted on the luminaire ring up against the headframe. The stainless steel locking pin shall insert a minimum of 4-1/2" into the cast aluminum guide socket. When in the latch position, the space between the headframe and the luminaire ring shall be no more than four inches when in the latched position.

All hardware is corrosion-resistant stainless steel.

The headframe assembly shall have a copper-free, spun aluminum cover, retained on its 360-degree perimeter by a stainless steel hardware. The dome assembly shall provide an airtight seal against the elements for the headframes roller assemblies.

The headframe shall bolt directly to the high mast pole. The headframe base plate and pole top plate shall have four 9/16" x 3" slotted holes on a 10 3/4" arc to accommodate 1/2" type 18-8 stainless steel hardware.

**LUMINAIRE RING ASSEMBLY**

The luminaire ring shall be fabricated to 6" x 2" x #7-gauge spun steel per ASTM A-569, with the appropriate number of luminaire mounting tenons, hot-dipped galvanized per ASTM A-123 after fabrication. The luminaire ring shall have a pre-wired weather-tight corrosion-resistant aluminum enclosure with 3 conductor, 16 AWG., type SEO 105-degree cable. The pre-wired distribution box shall be capable of accepting up to 16 fixtures, with 600-volt terminal blocks for each individual fixture wire. A weather-tight lock test inlet shall be mounted to the terminal box to permit testing of the luminaire while the ring is in the lowered position.

The luminaire ring shall contain at least 14 fixed rollers mounted on the inside of the ring to protect the ring from impacting with the pole. Rollers shall be fabricated from impact-resistant non-marking PVC, rolling on stainless steel shafts.

Highly visible 6" minimum retroreflective indicator flags shall be mounted on the ring which will provide positive indication at the handhole that the required 300 pounds of total seating force has been applied, visible from an extended operating position 20' from the base of the pole.

The three hoist cables shall pass up through the pole shaft, over the headframe sheaves, to the luminaire ring, where they travel through guides and a compression spring and terminate with a collet-type device.

A safety mechanism shall be located in the base of the pole and consist of a stainless steel safety cable and hook to act as a backup to the winch cable assembly in maintaining the tension on the transition assembly. The safety cable shall be secured to the foundation or anchor bolts and not attached to the pole structure.

**WINCH PLATE ASSEMBLY**

A square D circuit breaker shall be mounted in an aluminum enclosure on the winch sub-plate to act as the disconnecting means for the lowering device. Pre-wired to the breaker shall be a twist-lock, weather-tight connector matching those used in the system, mounted to an 8' tail of power cord of the same type, gauge and number of conductors as the power cord. This cord and connector shall be used to alternately supply power to the lowering device system, the test inlet and the portable power unit assembly.

The winch shall be an enclosed oil-bath worm gear winch, set with a reduction ratio of 30 to 1. The self-locking precision winch guards against ring runaway in the event of power failure.

**PORTABLE POWER UNIT ASSEMBLY**

The portable power unit shall incorporate the drive motor, torque limiter, drive shaft and electrical controls. The torque limiter is factory set to provide safe, reliable operation. A twenty-five-foot-long cord on the remote electrical control box provides for remote operation of the portable power unit. The drive motor is a heavy-duty 120-volt reversing electric drill. The portable power unit shall be provided with a weatherproof, portable, enclosed stepdown transformer to operate the 120-volt power unit.
PORTABLE POWER UNIT ASSEMBLY (MODEL #C408GXXX)
MOBILE PLATFORM SYSTEM (MODEL #C508GXXX)

The portable power unit shall incorporate the drive motor, torque limiter, drive shaft and electrical controls. The torque limiter is factory set to provide safe reliable operation. A twenty-five-foot-long cord on the remote electrical control box provides for remote operation of the portable power unit. The drive motor is a heavy duty 120-volt reversing electric drill. The portable power unit shall be provided with a weatherproof, portable, enclosed stepdown transformer to operate the 120-volt power unit.
**NOTES:**

1. Unit is trailerable, eliminating loading and unloading hassles.
2. Fully adjustable arm allows operation of lowering device from uneven ground.
3. For retrofit situations, unit can operate lowering device through a single 5' x 8' hand hole.
4. Above 120 volts the voltage transformer is integral.
5. Tongue may be tilted for storage.
6. All adjustment pins are safety clipped.
7. 25-foot cord makes remote operation easy.
8. All winches wound with 1/4-inch diameter stainless steel anti-rotational cable. This cable is specifically manufactured for lowering device applications.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>POLE BASE POWER</th>
<th>MOBILE DRIVE CAT. NO.</th>
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</thead>
<tbody>
<tr>
<td>480 volts</td>
<td>C429G001</td>
</tr>
<tr>
<td>277 volts</td>
<td>C429G002</td>
</tr>
<tr>
<td>240 volts</td>
<td>C429G002</td>
</tr>
<tr>
<td>208 volts</td>
<td>C429G002</td>
</tr>
<tr>
<td>347 volts</td>
<td>C429G002</td>
</tr>
<tr>
<td>Mobile Platform System</td>
<td>C529G001</td>
</tr>
</tbody>
</table>

The mobile cart drive allows one maintenance person to operate the service platform, lowering the fixtures to ground level for service.

**ATTACH SAFETY CABLE WHEN NOT IN USE. ALSO USE TO SECURE CABLE ASM, WHEN SAFETY CABLE IS NOT REQUIRED.**

**SAFETY CABLE INSTALLATION**

1.000 in. TYPICAL (25.4 MM TYPICAL)

**BOTH DRIVE AND WINCH ARE EXTERNAL TO THE POLE, MOUNTED TO A MOBILE CART.**
NOTE:
This is for 347 and 480 volt system only. For 208, 240 and 277 volt systems, see Internal Motor as shown on page 9.

<table>
<thead>
<tr>
<th>Internal Motorized Winch</th>
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<tbody>
<tr>
<td>Model #C428GXXX</td>
<td>When used with Top Latch</td>
</tr>
<tr>
<td>Model #C427GXXX</td>
<td>When used with Bottom Latch</td>
</tr>
<tr>
<td>Model #C528GXXX</td>
<td>When used with Top Latch</td>
</tr>
<tr>
<td>Mobile Platform System</td>
<td></td>
</tr>
</tbody>
</table>
THE WINCH PLATE ASSEMBLY

A square D circuit breaker shall be mounted in an aluminum enclosure on the winch sub-plate to act as the disconnecting means for the lowering device. Pre-wired to the breaker shall be a twist-lock, weather-tight connector matching those used in the system, mounted to an 8’ tail of power cord of the same type, gauge and number of conductors as the power cord. This cord and connector shall be used to alternately supply power to the lowering device system, the test inlet and the portable power unit assembly. The winch shall be an enclosed oil-bath worm gear winch, set with a reduction ratio of 30 to 1. The self-locking precision winch guards against ring runaway in the event of power failure.

THE INTERNAL MOTOR ASSEMBLY

The internal motor assembly shall incorporate a heavy-duty, reversing type drive motor, torque limiter, drive shaft and electrical controls. The torque limiter is factory set to provide safe reliable operation. A twenty-five-foot-long cord on the remote electrical control box provides for remote operation of the portable power unit.

When necessary, a step down transformer shall be provided to operate the internal motor.

For 208, 240, 277 Volt Systems

For 347 and 480 Volt Systems Only

For 208, 240, 277 Volt Systems

For 347 and 480 Volt Systems Only

Data in this publication subject to change without notice.
**FEATURES**

- Arms are constructed of two-inch (51mm) round steel pipe (2 3/8-inch/60mm OD)
- Hot-dipped galvanized after fabrication
- Arms will be equally spaced around ring
- Counterweight is used to balance loaded arms

**OPTIONS**

<table>
<thead>
<tr>
<th>ARM ORIENTATION</th>
<th>ARM DEGREES</th>
<th>NUMBER ARMS PER POLE</th>
<th>NUMBER LUMINAIRES PER POLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>4</td>
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<td>5</td>
<td>5</td>
<td>5</td>
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<tr>
<td>6</td>
<td>6</td>
<td>6</td>
<td></td>
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</tbody>
</table>

**NOTE:**

*Maximum number of luminaires is 12 regardless of arm arrangement

(A) Ring-with-fixture dimension (for clearance planning)

Six-fixture orientation:
Arm+21 inches (533mm); Diameter=99 inches (2,515mm)

Twelve-fixture orientation:
Tee Arm=32 inches (762mm); Diameter=119 inches (2,972mm)

**HOW TO ORDER**

When ordering service hoist, specify quantity of luminaires per ring. (Appropriate number of arms shall be bolted to the ring.)
**FEATURES**
- Arms are constructed of two-inch (51mm) square steel pipe (2 3/8 inch/60mm OD), 27 or 54 inches (686 or 1,372mm) long
- Hot-dipped galvanized after fabrication
- Arms will be equally spaced around ring
- Counterweight is used to balance loaded arms when necessary.

**NOTES:**
- Maximum number of floodlights is 12 regardless of arm arrangement
- Ring-with-fixture dimension (for clearance planning)
- Sixteen-fixture orientation: Arm=54 inches (1,372mm); Diameter=142 inches (3,607mm)

**OPTIONS**

<table>
<thead>
<tr>
<th>ARM ORIENTATION</th>
<th>ARM DEGREES</th>
<th>NUMBER ARMS PER POLE</th>
<th>NUMBER FLOODLIGHTS PER POLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ring junction 90°</td>
<td>120</td>
<td>3</td>
<td>3–12</td>
</tr>
<tr>
<td></td>
<td>90</td>
<td>4</td>
<td>4–16*</td>
</tr>
<tr>
<td></td>
<td>72</td>
<td>5</td>
<td>5–10</td>
</tr>
<tr>
<td>(A)</td>
<td>60</td>
<td>6</td>
<td>6–12</td>
</tr>
</tbody>
</table>

**HOW TO ORDER**
When ordering service hoist, specify quantity of floodlights per ring. (Appropriate number of arms shall be bolted to the ring.)
Carolina High Mast offers a complete, safe and dependable high mast lighting system for illuminating large outdoor areas such as:

- Highways
- Railroad Yards
- Interchanges
- Freight Yards
- Prison Yards
- Ports
- Commercial Parking Lots
- Shopping Centers
- Industrial Plants
- Toll Plazas
- Coal mines and Yards
- Airports
- Power Plants
- Parks and Sports Yards
The headframe assembly shall consist of 1/4” thick minimum top plate, with sheave support plates fabricated from a minimum 11-gauge steel sheet. The sheave support plates shall be wedged to the headframe base plate. All steel plates shall be laser cut for accuracy. The complete headframe assembly shall be hot dipped galvanized per ASTM A-123 after fabrication.

Hoist cables shall operate over corrosion-resistant five-inch diameter aluminum steel sheaves. The entire cable groove surface shall be matched to eliminate any rough surface on which the cable shall ride.

The main power cord(s) shall each be supported by a minimum of two large nonconductive thermoplastic polymer power-cord sheaves, grooved to provide for a nonabrasive smooth operation. A two-piece threaded male and female thermoplastic polymer insulating bushing assembly shall be installed on the headframe opening to prevent wear on the power cord as it travels up and down the pole.

All sheaves shall have sintered bronze oilite bearings and run on a stainless steel axle secured with self-locking stainless steel hardware. Keeper bars shall be positioned at both ends of the sheave assemblies to keep the cord in its track during pole erection and during normal operation.

The top latching assembly shall contain three (3) symmetrically located, extremely stout, precision cast matching stainless steel latch pins and enclosed cam mechanisms to assume corrosion resistant, trouble-free operation for years to come. All moving latch parts are bolted to the ring for servicing from the ground. The complete two-part latch pin and cam assembly shall be made of high-strength stainless steel type 316 material. Soft metals such as aluminum shall not be an acceptable alternative to stainless steel. There shall be no moving latch parts or springs attached to the headframe assembly. All motion required to achieve latching or unlatching shall be internal to the latch cam. This will help prevent shock and vibration damage to the lamps and luminators, as well as prevent the formation of ice buildup on the latching mechanism.

Latching occurs by the alternate raising and lowering of the mobile crossarm platform. When latching of the crossarm platform occurs, no horizontal movement of the fixtures (which can cause fixture damage) is permitted. Two cast aluminum stabilizing and guide sockets...
shall be mounted on the underside of the headframe assembly.

The 1-3/4" socket opening shall be tapered cone shaped for locking and aligning the 1-1/2" x 10" min. galvanized steel locking pin mounted on the mobile crossarm platform up against the headframe. The galvanized steel locking pin shall insert a minimum of six (6) inches into the cast aluminum guide socket.

This will provide both stabilization of the platform and prevent horizontal movement of the crossarm platform when in its latched position. The minimum height of the aluminum guide socket is four (4) inches.

When in the latched position, the space between the headframe and the mobile crossarm platform shall be no more than six (6) inches when in the locked position. The use of "Z" type top latching system is not an acceptable alternative to the stainless steel latch cam.

All hardware shall be corrosion-resistant stainless steel. The headframe assembly shall have a copper-free, spun aluminum cover, retained on its 360 degree perimeter by a stainless steel hardware. The dome and clamp band assembly shall provide a weather-tight seal against the elements for the top plate roller assemblies.

THE MOBILE CROSSARM PLATFORM ASSEMBLY

The top-latching mobile crossarm service platform for more than twelve (12) fixtures shall be fabricated from two 6" x 2" #7 gauge spun steel rings per ASTM A-569, with the appropriate length of 2/1/2" square tubing for mounting the sportslighting fixtures, hot dipped galvanized per ASTM A-123 after fabrication. The completed mobile crossarm platform shall be a single piece welded construction and shipped to the job-site in one piece. The mobile crossarm system shall have a pre-wired, weather-tight, corrosion-resistant aluminum enclosure with three (3) conductors, 16 AWG, type SEO 105 (150 °) degree cable. The pre-wired distribution box shall be capable of accepting up to 21 fixtures, with 600 volt terminal blocks for each individual fixture wire. Weather-tight twist-lock test inlets shall be mounted to the terminal box to permit testing of the sportslighting fixtures while the service platform is in the lowered position. On the underside of the service platform shall mount a quantity of three (3) roller-contact, spring-loaded stainless steel centering arms with polymer rollers to balance and center the ring and to prevent shock to the lamps from impact of the service platform with the pole. The arms shall be fabricated from high-strength stainless steel.

Highly visible six-inch (6") minimum retroreflective position indicator flags shall be provided for easy day or night operation.

The three (3) hoist cables shall be galvanized steel-wound anti-rotational aircraft cord, 1/4 inch diameter manufactured to meet MIL-W83420C. These special cables are specifically designed for lowering device applications and virtually make “twistings” a thing of the past. Swivel bearings may be used in the transition assembly but they shall not take the place of the anti-rotational cable.

A transition assembly shall be supplied to attach the winch cable from the mobile cart drive unit to the three (3) hoist cables and the main power cord. The three (3) hoist cables shall pass up through the pole shaft, over the top plate hoist cable sheaves, to the service platform, where they travel through the stainless steel latch pin, stainless steel guides, and compression spring assembly. They terminate with a collet-type strand-vise device.

A safety mechanism shall be located in the base of the pole and consist of a stainless steel safety cable and hook to act as a backup and to maintain the tension on the transition assembly.

WINCH PLATE ASSEMBLY

Circuit breakers shall be mounted in an aluminum enclosure on the winch sub-plate to act as the disconnecting means for the lowering device. Prefired to the breaker shall be a twist-lock, weather-tight, connector matching those used in the system, mounted to a 10-foot tail of power cord of the same type, gauge and number of conductors as the power cart assembly cord. This cord and connector shall be used to alternately supply power to the lowering device system, the test inlet and the mobile drive cart assembly. The mobile cart drive assembly shall consist of a self-locking winch, 1-1/2 horsepower motor, a clutch, stepdown transformer, two (2) tracking pulleys, 5/16” galvanized steel winch cable, and remote switch with 25 feet of cord.

The mobile cart drive assembly shall be trailerable, eliminating loading and unloading hassles, with a full-adjustable arm which allows operation of the SportStar 360 degrees (360 °) System from uneven ground. The cart assembly shall have minimum 13-inch (13”) diameter rubber tires, with a solid core stainless steel axle minimum 1-1/2” diameter, adjustable to six (6) feet out to out. The mobile cart drive assembly shall be finished with “OSHA” orange powder paint.

The fully adjustable arm shall be able to move up and down five (5) feet and the arm extension shall move in and out a minimum of three (3) feet. The attaching pivot head which mount to the pole shall be able to swivel 360 (360 °) degrees for mounting on unlevel ground.
MOBILE SPORTRACK SYSTEM CONFIGURATIONS

PLATFORM SYSTEMS

Mobile Platform System with Top-Latching Crossarm Service Platform for 13 to 21 fixtures (shown with Mobile Cart Drive Assembly)

Mobile Platform System with Top-Latching Crossarm Service Platform for 2 to 12 fixtures (shown with Mobile Cart Drive Assembly)

- COVER (aluminum)
- HEADFRAME (galvanized)
- TOP LATCHING SERVICE PLATFORM
- STAINLESS STEEL STABILIZING SPRING
- MAIN POWER CORDS
- 3 LIFT CORDS
- TRANSITION YOKE (galvanized)
- CONNECTOR SET
- WINCH CABLE
- CIRCUIT BREAKER (mounted in aluminum enclosure)
- MOBILE DRIVE SYSTEM
- 25 ft. CABLE
- UP/DOWN DRUM SWITCH
MOBILE SPORTrack FIXTURE CONFIGURATIONS

FLOODLIGHT FIXTURES

- 19-21 floodlights (typical) — 3 rows of 7 fixtures each
- 16 to 18 floodlights (typical) — 3 rows of 6 fixtures each
- 13 to 15 floodlights (typical) — 3 rows of 5 fixtures each
- 11 to 12 floodlights (typical) — 2 rows of 6 fixtures each
- 10 floodlights - 2 rows of 5 fixtures each
- 8 floodlights (typical) — 2 rows of 4 fixtures each
- 6 floodlights (typical) — 2 rows of 3 fixtures each
- 4 floodlights (typical)
- 3 floodlights (typical)
- 2 floodlights (typical)

This photo demonstrates the lighting configuration for floodlights.
COUNTERWEIGHT INSTALLATION ASSEMBLY

- Washer (Stainless Steel) B Required
- Locknut (Stainless Steel)
- Bolt (Stainless Steel)
- Square Tubing (Galvanized ASTM A123)
- Mounting Strap (Galvanized ASTM A123)
- Weight (Galvanized Steel ASTM A123) 1 Required for each 10 pounds of fixture weight
- Washer (Stainless Steel) 8 Required
- Pipe (Galvanized ASTM A123)
- Pipe Clamp (Galvanized ASTM A123)

LIGHTNING ROD AND OBSTRUCTION LIGHT OPTION ACCESSORIES

- 45° Cone Cover
- Bushing (625 Tapered Neoprene)
- Nut and Washer (625 Stainless Steel) Below Bushing
- Bolt (500 Brass or Stainless Steel)
- Ring
- Conductor (No. 28R 28/14 Copper)
- Pole
- Luminaire

- Bonding (No. 551M) Secure to 2 in. (51mm) Cap Screw and Lock Washer (Brass or Stainless Steel)
- Cable Connector (No. 14) for Bolt
- Set Screw (No. 90M) for Cable Connector

Data in this publication subject to change without notice.
The high mast pole shall consist of two or more round or multisided tapered sections. The pole shaft section shall be fabricated from high-strength, low-alloy steel plate conforming to ASTM standards, with a minimum yield strength of 55,000 psi. These shaft sections shall telescope into each other to match the overall desired height of the pole. The overlap telescoping joint shall have a minimum slip distance equal to 1 1/2 times in inside diameter of the female section. The sections shall be pre-fitted and matched, marked at the factory. All sections shall maintain a uniform taper from top to bottom. There shall be a maximum of one longitudinal weld in the tapered sections of the shaft. The longitudinal seams shall have at least 60% penetration, except in the areas where the shaft section telescopes over another. In the overlapping areas, the weld penetrate shall be 100%. No transverse butt welds may be used in fabricating the shafts. The finished poles shall be hot-dipped galvanized per ASTM A-123 after fabrication, weathering steel per ASTM A-588 or powder-coat finish, with the color to be determined at the time of release.

The base plate shall be fabricated from structural quality hot-rolled carbon steel plate that meets or exceeds ASTM standards with a minimum yield strength of 36,000 psi. The base plate shall telescope the pole shaft and is circumference-welded top and bottom. The base plate shall have slotted holes for 1/2” variation in the anchor bolt setting.

A reinforced handhole(s), having an appropriate 10” x 30” opening shall be located 15” up from the base. A handhole cover, attaching hardware, and grounding provision hardware are included with each handhole frame.

Anchor bolts are fabricated from a commercial quality hot-rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Properly sized anchor bolts will be provided with two hex nuts and two flat washers per bolt.

---

**HIGH MAST LIGHTING POLE APPLICATION SCHEDULE/STANDARD CRITERIA**

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>E P A  C A P A C I T Y</th>
<th>B A S E  P L A T E</th>
<th>A N C H O R  B O L T</th>
<th>TOTAL POLE WEIGHT LBS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EPA ft.2</td>
<td>wt. lbs.</td>
<td>EPA ft.2</td>
<td>wt. lbs.</td>
</tr>
<tr>
<td>RT 607</td>
<td>75.0</td>
<td>1900</td>
<td>58.8</td>
<td>1463</td>
</tr>
<tr>
<td>RT 704</td>
<td>51.2</td>
<td>1280</td>
<td>39.3</td>
<td>983</td>
</tr>
<tr>
<td>RT 705</td>
<td>61.6</td>
<td>1540</td>
<td>47.2</td>
<td>1180</td>
</tr>
<tr>
<td>RT 801</td>
<td>35.8</td>
<td>895</td>
<td>27.5</td>
<td>658</td>
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<tr>
<td>RT 802</td>
<td>44.1</td>
<td>1103</td>
<td>33.4</td>
<td>824</td>
</tr>
<tr>
<td>RT 803</td>
<td>52.6</td>
<td>1325</td>
<td>40.4</td>
<td>1010</td>
</tr>
<tr>
<td>RT 901</td>
<td>34.2</td>
<td>855</td>
<td>26.4</td>
<td>680</td>
</tr>
<tr>
<td>RT 902</td>
<td>43.1</td>
<td>1078</td>
<td>32.8</td>
<td>820</td>
</tr>
<tr>
<td>RT 903</td>
<td>50.8</td>
<td>1270</td>
<td>39.1</td>
<td>978</td>
</tr>
<tr>
<td>RT 1001</td>
<td>32.8</td>
<td>820</td>
<td>25.2</td>
<td>630</td>
</tr>
<tr>
<td>RT 1002</td>
<td>41.3</td>
<td>1033</td>
<td>31.4</td>
<td>785</td>
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<tr>
<td>RT 1003</td>
<td>48.7</td>
<td>1218</td>
<td>37.2</td>
<td>930</td>
</tr>
<tr>
<td>RT 1101</td>
<td>42.3</td>
<td>1056</td>
<td>30.3</td>
<td>758</td>
</tr>
<tr>
<td>RT 1102</td>
<td>69.4</td>
<td>1735</td>
<td>54.4</td>
<td>1360</td>
</tr>
<tr>
<td>RT 1103</td>
<td>99.7</td>
<td>2493</td>
<td>71.2</td>
<td>1780</td>
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<tr>
<td>RT 1201</td>
<td>29.8</td>
<td>745</td>
<td>22.8</td>
<td>570</td>
</tr>
<tr>
<td>RT 1202</td>
<td>50.6</td>
<td>1265</td>
<td>39.1</td>
<td>978</td>
</tr>
<tr>
<td>RT 1203</td>
<td>80.4</td>
<td>2010</td>
<td>57.0</td>
<td>1425</td>
</tr>
</tbody>
</table>

***OTHER POLE SIZES AND AASHTO APPLICATIONS ARE AVAILABLE. PLEASE CONTACT FACTORY.***
HIGH MAST SYSTEM  Applications: Suggested Luminaires

HIGH MAST TYPE

<table>
<thead>
<tr>
<th>Description</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latching, Portable Drive Unit</td>
<td>C422GXXX**</td>
</tr>
<tr>
<td>Mobile Platform</td>
<td>C522GXXX</td>
</tr>
<tr>
<td>Latching, Internal Motor</td>
<td>C428GXXX</td>
</tr>
<tr>
<td>Mobile Platform</td>
<td>C528GXXX</td>
</tr>
<tr>
<td>Latching, Mobile Drive Unit</td>
<td>C429GXXX</td>
</tr>
<tr>
<td>Mobile Platform</td>
<td>C529GXXX</td>
</tr>
<tr>
<td>Bottom-Latching, Portable</td>
<td>C426GXXX**</td>
</tr>
<tr>
<td>Bottom-Latching, Internal Motor C427GXXX</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Requires portable drive unit C408GXXX or optional mobile drive motor.

FLOODLIGHT TYPE

SPORTSLIGHT TYPE

SERVICE HOIST MODELS

Carolina High Mast offers eight separate High Mast service hoist models:

<table>
<thead>
<tr>
<th>Description</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latching, Portable Drive Unit</td>
<td>C422GXXX**</td>
</tr>
<tr>
<td>Mobile Platform</td>
<td>C522GXXX</td>
</tr>
<tr>
<td>Latching, Internal Motor</td>
<td>C428GXXX</td>
</tr>
<tr>
<td>Mobile Platform</td>
<td>C528GXXX</td>
</tr>
<tr>
<td>Latching, Mobile Drive Unit</td>
<td>C429GXXX</td>
</tr>
<tr>
<td>Mobile Platform</td>
<td>C529GXXX</td>
</tr>
<tr>
<td>Bottom-Latching, Portable</td>
<td>C426GXXX**</td>
</tr>
<tr>
<td>Bottom-Latching, Internal Motor</td>
<td>C427GXXX</td>
</tr>
</tbody>
</table>

MAXIMUM OF 12 HIGH MAST FIXTURES PER RING.

**NOTE:**

*Contact factory if other than 480V.

**SPECIFICATION FEATURES**

- Sectioned, telescoping tapered steel shaft
- Prime painted, galvanized, or weathering steel
- Shaft lengths from 40 to 150 feet (18 to 46 meters)
- Service hoist mounting of up to 12 High Mast luminaires or up to 24 floodlights or to 24 Sportslights.

**CATALOG NUMBER ORDERING**

<table>
<thead>
<tr>
<th>HMS</th>
<th>TL</th>
<th>ID</th>
<th>100</th>
<th>G</th>
<th>080</th>
<th>A</th>
<th>10H</th>
<th>5A</th>
<th>OPTIONS-X-X-X</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMS</td>
<td>TL</td>
<td>ID</td>
<td>100</td>
<td>G</td>
<td>080</td>
<td>A</td>
<td>10H</td>
<td>5A</td>
<td>OPTIONS-X-X-X</td>
</tr>
</tbody>
</table>

**NOTE:**

- **Meters:** 18, 21, 24, 27, 30, 34, 37, 40, 43, 46

**COMPLIES WITH SPECIFICATIONS PUBLISHED IN 1994 EDITION “STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS” PUBLISHED BY THE AMERICAN ASSOCIATION OF THE STATE HIGHWAYS AND TRANSPORTATION OFFICIALS (AASHTO). MAXIMUM OF 12 HIGH MAST FIXTURES PER RING.**
# Ordering Information

## Electrical Systems Available

**TWO AND THREE CIRCUIT SYSTEMS ARE AVAILABLE.**

<table>
<thead>
<tr>
<th>POLE BASE</th>
<th>VOLTAGE</th>
<th>PHASING</th>
<th>CONDUCTORS Including Ground Conductor</th>
</tr>
</thead>
<tbody>
<tr>
<td>A*</td>
<td>120</td>
<td>Single</td>
<td>3 Wire-60Hz</td>
</tr>
<tr>
<td>B</td>
<td>120/240</td>
<td>Three</td>
<td>5 Wire-60Hz</td>
</tr>
<tr>
<td>C</td>
<td>208</td>
<td>Single</td>
<td>3 Wire-60Hz</td>
</tr>
<tr>
<td>D</td>
<td>208</td>
<td>Three</td>
<td>4 Wire-60Hz</td>
</tr>
<tr>
<td>E</td>
<td>240</td>
<td>Single</td>
<td>3 Wire-60Hz</td>
</tr>
<tr>
<td>F</td>
<td>120/240</td>
<td>Single</td>
<td>4 Wire-60Hz</td>
</tr>
<tr>
<td>G</td>
<td>240/480</td>
<td>Single</td>
<td>4 Wire-60Hz</td>
</tr>
<tr>
<td>H</td>
<td>277</td>
<td>Single</td>
<td>3 Wire-60Hz</td>
</tr>
<tr>
<td>J</td>
<td>277/480</td>
<td>Three</td>
<td>5 Wire-60Hz</td>
</tr>
<tr>
<td>K</td>
<td>480</td>
<td>Single</td>
<td>3 Wire-60Hz</td>
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<tr>
<td>L</td>
<td>480</td>
<td>Three</td>
<td>4 Wire-60Hz</td>
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<tr>
<td>M</td>
<td>220</td>
<td>Single</td>
<td>3 Wire-60Hz</td>
</tr>
<tr>
<td>N</td>
<td>347</td>
<td>Single</td>
<td>3 Wire-60Hz</td>
</tr>
<tr>
<td>P</td>
<td>347/600</td>
<td>Three</td>
<td>5 Wire-60Hz</td>
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<tr>
<td>R</td>
<td>220</td>
<td>Single</td>
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<tr>
<td>S</td>
<td>240</td>
<td>Single</td>
<td>3 Wire-50Hz</td>
</tr>
<tr>
<td>T</td>
<td>240/415</td>
<td>Three</td>
<td>5 Wire-50Hz</td>
</tr>
<tr>
<td>W</td>
<td>220/380</td>
<td>Three</td>
<td>5 Wire-50Hz</td>
</tr>
<tr>
<td>X</td>
<td>Other Special</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** *Consult factory for 120 volt.

## Options Table

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC4</td>
<td>Hoist Cable 4=1/4-inch Stainless Steel</td>
</tr>
<tr>
<td>WCS4</td>
<td>Winch Cable S4=1/4-inch Stainless Steel</td>
</tr>
<tr>
<td>WCS5</td>
<td>Winch Cable S5=5/16-inch Stainless Steel</td>
</tr>
<tr>
<td>HSS</td>
<td>Hoist Sheaves S=Stainless Steel</td>
</tr>
<tr>
<td>WS</td>
<td>Winch Support Drum</td>
</tr>
<tr>
<td>CG</td>
<td>Cable Guard</td>
</tr>
<tr>
<td>PEX</td>
<td>PE Control X Lowering Device Not Fixtures (Specify)</td>
</tr>
<tr>
<td>NCX</td>
<td>Night/Shift Circuit X (Specific)</td>
</tr>
<tr>
<td>LA</td>
<td>Lightning Arrestor on Ring</td>
</tr>
<tr>
<td>LR</td>
<td>Lightning Rod</td>
</tr>
<tr>
<td>FAA-120</td>
<td>Single Aircraft Warning Light</td>
</tr>
<tr>
<td>FAA2-120</td>
<td>Double Aircraft Warning Light</td>
</tr>
<tr>
<td>FAA2TR-120</td>
<td>Double Aircraft Warning Light with Transfer Relay</td>
</tr>
</tbody>
</table>
STANDARD TERMS & CONDITIONS OF SALE

is not made when due, Purchaser agrees to pay to
the date of the invoice, at CHM's principal office or
in writing by CHM, Purchaser shall pay in full the
Purchaser's default, Purchaser agrees to pay CHM's
date. The credit hold will apply to existing pending
Purchaser on credit hold when any invoice has not
paid and due in U.S. Dollars. Prices are subject to
change without notice, and may not include any
present or future sales, excise, value-added or any
taxes, and where applicable such items shall be billed
separately and paid by the Purchaser.

2. QUOTATIONS. Unless otherwise agreed
in writing by CHM, Purchaser shall pay in full the
amount of each invoice, within thirty (30) days from
the date of the invoice, at CHM's principal office or
such other location as CHM may specify. If payment is
not made when due, Purchaser agrees to pay to
CHM interest on the amount due at the rate of one
and one half percent (1-1/2%) per month (18% per
annum) or the maximum lawful rate, whichever is
less. Nothing herein shall be deemed to extend or
otherwise modify Purchaser's obligation to make
payment when due.

4. CREDIT HOLD, C.O.D., PURCHASES, COST
OF COLLECTION. CHM reserves the right to place
Purchaser on credit hold when any invoice has not
been paid in full forty-five (45) days after the invoice
date. The credit hold will apply to existing pending
shipments and to all affiliates of Purchaser. CHM may
in its sole discretion not issue any purchase or delivery
be made on a prepaid or C.O.D. basis. In the event of
Purchaser's default, Purchaser agrees to pay CHM's
reasonable attorney's fees and other reasonable
costs of collection.

5. FREIGHT: All sales are priced F.O.B. destination,
except that anchor bolts and templates will be shipped at
the expense of, and invoiced to, the Purchaser. Any
reconsignment, redelivery or storage expenses shall be
the responsibility of the Purchaser.

6. ROUTING, HANDLING AND STORAGE. Routing
will be determined by CHM, with delivery to the
common carrier delivery point nearest to destination.
Handling, unless at a labor or mechanical facility, and
movement from the shipping destination to Purchaser's job site required in
connection therewith shall be the responsibility of Purchaser.

7. TITLE, RISK OF LOSS, ACCEPTANCE. In all cases, title shall pass upon delivery at the
destination and thereafter all risk of loss or damage shall be upon Purchaser. The products shall be accepted by Purchaser by an authorized and qualified representative after inspection at the delivery point.

Purchaser agrees to accept delivery of the products in accordance with these Terms and Conditions within ten (10) days after the delivery date. If the products are not in conformance with these Terms and Conditions, Purchaser shall give written notice to CHM of any claim to that effect setting forth in reasonable detail the manner in which the products do not conform. If Purchaser retakes the products after their delivery without giving CHM such notice as required within ten (10) days thereafter, the products shall constitute an irrevocable acceptance of the products by Purchaser except with respect to defects not reasonably discoverable by such inspection. Purchaser's sole
remedy for any defects in the products shall be in accordance with the warranty herein provided.

8. DELIVERY. Factory shipping dates given in
advance of actual shipment are estimated by CHM
and shall not be considered as a guarantee of
guaranteed shipping dates. CHM shall not be liable for failure of or delay in performance due to (i) cause beyond its reasonable control or (ii) an act of God, act or omission of civil or military authority, government priority of other allocation or control, fire, strike or other labor difficulty, riot or other civil disturbance, insolvency or other inability to perform by the manufacturer, delay in transporta-
tion or (iii) any other commercial impracticability. In
the event of any such delay, the date of delivery or performance by CHM shall be extended for a period equal to the time lost by reason of delay. In addition to
any other right which CHM may have hereunder or at
law, CHM may suspend shipment of any goods for
which CHM has not already received payment
whenever Buyer is in default beyond any other
contract of sale between CHM and Buyer.

9. JOB SITE VISIT TERMS. Job site visits by CHM
personnel to assist with installation must be prearranged with CHM a minimum of two (2) weeks in advance with CHM, if the job site is within the continental United States, or a minimum of thirty (30) days in advance, if the job site is outside the
continental United States. The Purchaser will receive a written confirmation of the scheduled visit once
travel arrangements have been secured and purchased by
CHM. If the Purchaser changes the job visitation
preliminary confirmation, any additional expenses incurred by CHM due to the change will be the
responsibility of, and invoiced to, the Purchaser. Job
site visits pursuant to this paragraph shall not create or increase rights of Purchaser beyond those expressly set forth in paragraph 10 below.

10. WARRANTY, LIMITATION OF LIABILITY. CHM
warrants that the CHM Products ("Products") will,
upon shipment be free from defects in materials and
workmanship. Products will be manufactured according to Purchaser's approved Submittals if
Purchaser has given, in its entirety, an original
approved stamped copy of the Submittal which has
been approved by the Owner, or Owner's Representa-
tive. CHM agrees to correct, and retains the right, in
its sole discretion, to correct by repair or replacement, at its option, any defect in
Product, either at CHM's factory or at the installation site, defects in materials
or workmanship which may appear as a result of
normal and proper use within one year [1] from
the date of shipment (the “Warranty Period”). If
inspection proves that such defects existed at the
time of shipment, if Purchaser gives to CHM
immediate written notice of such defects within the
Warranty Period, and no further delay, the Products
have been properly cared for and
operated under normal condition by component personnel under competent supervision.
Any transportation cost in connection with
defects in CHM Products shall be payable by the
Purchaser. CHM does not warrant any Products that are altered, except in its sole discretion by written
notice to Purchaser from CHM's Customer Service
Department prior to alteration; otherwise, this
Warranty is null and void as to the altered Products.
Repair or replacement of any products shall be
CHM's only obligation and the sole and exclusive remedy of the Purchaser in the event of a failure to conform to
this warranty. CHM shall not be responsible for any damage resulting from improper storage, handling by
employees, agents or contractors of Purchaser. CHM
shall not assume any expense or liability for repairs
made to any purchased equipment and accessories not
warranted by CHM, but CHM hereby fails the
original manufacturer's warranty to the Purchaser to
the fullest extent possible. This warranty covers
CHM's own products only and does not extend to the
failures or performance of defects in any equipment or component not manufactured by CHM or
to improper or insufficient information furnished to
CHM regarding the performance of the equipment
in question.

THIS WARRANTY IS EXCLUSIVE AND IN
LIEU OF ALL OTHER WARRANTIES
EXCEPT THAT OF TITLE EXPRESS OR
IMPLIED, INCLUDING, BUT NOT LIMITED
TO THE IMPLIED WARRANTIES OF

11. CLAIM FOR SHORTAGES. All claims for shortages
must be in writing within ten (10) days of receipt of
shipment at destination.

12. RETURNED GOODS. Specific request written must
be made in advance by Purchaser for any replacement on goods returned, and return of goods will be only in the sole discretion of CHM and only
upon prior written notice to Purchaser from an officer of
CHM. On goods accepted for return, CHM must
prepay return shipment and pay minimum
restocking charge of thirty-five percent (35%) plus any
charges necessary to rework goods to a re-sellable
condition. Custom fabricated products are not subject to
return.

13. CANCELLATION. Written consent of CHM must
be obtained prior to a cancellation of any order. Cancellation of any order will result in a charge to Purchaser to
cancellation charge based upon expenses already
incurred and commitments made by CHM.

14. ASSIGNMENT. The delegation or assignment by
Purchaser of any or all duties or rights hereunder
without the prior consent made by CHM shall be void.

15. GENERAL. CHM reserves the right to change any
feature of its published specifications without notice to
promote production improvement and/or allow for
manufactures availability. Any alteration of fact and course of dealings, promise or condition in
connection therewith or usage of trade not incorporated
herein, shall not be binding on either party. No
waver, alteration or modification of these Terms
and Conditions heretofore shall be binding upon CHM unless specifically
assented to in writing by an Officer of CHM. The
contract of the sale of goods between CHM and
Purchaser shall be performed in Terrant, Texas. The validity, performance, and all matters relating to the interpretation and effect heretofore and any amendment hereto shall be governed by the
laws of the State of Texas. Any controversy or claim
arising out of or relating to this contract, or the
breach thereof, shall be settled by arbitration
administered by the American Arbitration Association
under its Construction Industry Arbitration Rules,
taking place in Tarrant County, Texas. Judgment of
the award rendered by the arbitrator (s) may be
entered in any court having jurisdiction thereof. The
parties also expressly agree that they will
cooperate in the exchange of documents and lists of
witnesses (including any experts) before the arbitration as well as interviewing or deposition of
witnesses. The prevailing party in any arbitration
shall be entitled to recovery of its reasonable
expenses incurred in enforcing these Terms
and Conditions.

16. AUTHORITY. The person signing on behalf of
Purchaser represents and warrants to CHM that such
person is an authorized agent of Purchaser, with full
power and authority to enter into the agreement
defined by these Terms and Conditions.

17. EFFECTIVE DATE. These Terms and Conditions
supersede any previous issues and are effective
CAROLINA HIGH MAST

700 E. McLeroy Blvd.,
Suite A
Saginaw, Texas 76179

PHONE: 682.286.0046
FAX: 682.286.0086

E Mail: carolinahighmast@aol.com
Web Site: www.roadwayproducts.com