

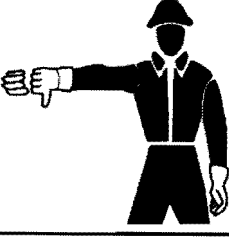
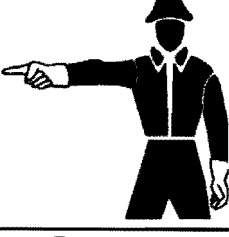
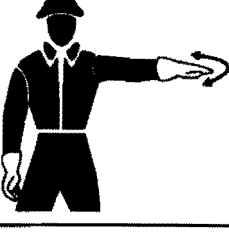
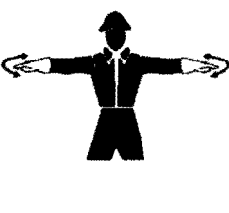




| Hand Signal Illustration | | | Function Command | Corresponding Voice Command | |
|--------------------------|--------------|-------------|---|--|---------------------|
| | | | | Initiate Function | Terminate Function |
| | Mobile Crane | Tower Crane | <p>HOIST</p> <p>With upper arm extended to the side, forearm and index finger pointing straight up, hand and finger make small circles.</p> | <p>"Hoist"</p> <p>"Hoist up"</p> <p>"Hoist load"</p> <p>"Hoist hook"</p> | <p>"Hoist stop"</p> |
| | Mobile Crane | Tower Crane | <p>LOWER</p> <p>With arm and index finger pointing down, hand and finger make small circles.</p> | <p>"Lower"</p> <p>"Lower down"</p> <p>"Lower load"</p> <p>"Lower hook"</p> | <p>"Lower stop"</p> |
| | Mobile Crane | | <p>USE MAIN HOIST</p> <p>A hand taps on top of the head. Then regular signal is given to indicate desired action.</p> | <p>"Use main hoist"</p> <p>"Use main drum"</p> | <p>N/A</p> |
| | Mobile Crane | | <p>USE WHIPLINE (Auxiliary Hoist)</p> <p>With arm bent at elbow and forearm vertical, elbow is tapped with other hand. Then regular signal is used to indicate desired action.</p> | <p>"Use whipline"</p> <p>"Use auxiliary hoist"</p> <p>"Use auxiliary drum"</p> | <p>N/A</p> |
| | Mobile Crane | | <p>BOOM UP</p> <p>With arm extended horizontally to the side, thumb points up with other fingers closed.</p> | <p>"Boom up"</p> | <p>"Boom stop"</p> |
| | Mobile Crane | | <p>BOOM DOWN</p> <p>With arm extended to the side, thumb points down with other fingers closed.</p> | <p>"Boom down"</p> | <p>"Boom stop"</p> |

| Hand Signal Illustration | | Function Command | Corresponding Voice Command | |
|---|-----------------------------|---|---|---------------------------|
| | | | Initiate Function | Terminate Function |
|  | Mobile Crane Tower Crane | MOVE SLOWLY A hand is placed in front of the hand that is giving the action signal. (Hoist slowly shown as example.) | "Function slowly" (Note: the key word for this command is "slowly." Replace "Function" with a command.) | "Function stop" |
|  | Mobile Crane | BOOM UP AND LOWER THE LOAD With arm extended horizontally to the side and thumb pointing up, fingers open and close while load movement is desired. | "Boom up and lower load" | "Boom stop and load stop" |
|  | Mobile Crane | BOOM DOWN AND RAISE THE LOAD With arm extended horizontally to the side and thumb pointing down, fingers open and close while load movement is desired. | "Boom down and raise load" | "Boom stop and load stop" |
|  | Mobile Crane Tower Crane | SWING With arm extended horizontally, index finger points in direction that boom is to swing. | "Swing right" "Swing left" | "Swing stop" |
|  | Mobile Crane Tower Crane | STOP With arm extended horizontally to the side, palm down, arm is swung back and forth. | "Stop" | N/A |
|  | Mobile Crane Tower Crane | EMERGENCY STOP With both arms extended horizontally to the side, palms down, arms are swung back and forth. | "Emergency Stop" | N/A |



| Hand Signal Illustration | Function Command | Corresponding Voice Command | |
|--------------------------|--|--|---|
| | | Initiate Function | Terminate Function |
| | <p>TRAVEL With all fingers pointing up, arm is extended horizontally out and back to make a pushing motion in the direction of travel.</p> | <p>"Travel forward" "Travel reverse"</p> | <p>"Travel stop"</p> |
| | <p>DOG EVERYTHING Hands held together at waist level.</p> | <p>"Dog everything"</p> | <p>N/A</p> |
| | <p>** TRAVEL (Both Tracks) Rotate fists around each other in front of body; direction of rotation away from body indicates travel backward; rotation towards body indicates travel forward. (For crawler cranes only)</p> | <p>"Travel both tracks forward" "Travel both tracks reverse"</p> | <p>"Travel stop"</p> |
| | <p>TRAVEL (One Track) Indicate track to be locked by raising fist on that side. Rotate other fist in front of body in direction that other track is to travel. (For crawler cranes only)</p> | <p>"Travel right track forward" "Travel left track forward" "Travel right track reverse" "Travel left track reverse"</p> | <p>"Travel stop"</p> |
| | <p>EXTEND TELESCOPING BOOM Both fists in front of body with thumbs pointing outward.</p> | <p>"Extend boom" "Telescope out"</p> | <p>"Extend stop" "Telescope stop"</p> |



| Hand Signal Illustration | | Function Command | Corresponding Voice Command | |
|--------------------------|--------------|---|----------------------------------|------------------------------------|
| | | | Initiate Function | Terminate Function |
| | Mobile Crane | RETRACT TELESCOPING BOOM Both fists in front of body with thumbs pointing toward each other. | "Retract boom" "Telescope in" | "Retract stop" "Telescope stop" |
| | Mobile Crane | * EXTEND TELESCOPING BOOM (One hand signal) One fist in front of chest with thumb tapping chest. | "Extend boom" "Telescope out" | "Extend stop" "Telescope stop" |
| | Mobile Crane | * RETRACT TELESCOPING BOOM (One hand signal) One fist in front of chest with thumb pointing outward and heel of fist tapping chest. | "Retract boom" "Telescope in" | "Retract stop" "Telescope stop" |
| | Tower Crane | Trolley Travel (Tower Cranes Only) With palm up, fingers closed, and thumb pointing in direction of motion, hand is jerked horizontally in direction trolley is to travel. | "Trolley in" "Trolley out" | "Trolley stop" |

NOTE: All hand signals and voice commands, except those noted with an asterisk (*) are in accordance with OSHA 1926 Subpart CC. Those noted with an asterisk were not included in the first publication of OSHA 1926 Subpart CC. The Travel (both tracks) signal noted with a double asterisk (**) was confirmed with the OSHA office of Construction Compliance to be in error in the first printing and is slated for a "technical amendment." Crane Tech has written this function command using OSHA's language with a correction to the direction of travel as per 1926.1419(k).