

MOBILE LIGHTING SOLUTIONS



Will-Burt Night Scan®

THE #1 SELLING LIGHT TOWER IN THE WORLD!

The Advantages of Night Scan® by Will-Burt

WILL-BURT ADVANTAGES	VALUE TO CUSTOMER
Higher Height Up to 56% higher NEW - Roof-mounted up to 25 ft. / 7.5 m Vertical mount up to 30 ft. / 9 m	 More Light Coverage Greater scene illumination No light glare for oncoming traffic Light clears tall trees and 2 story houses
Light at Any Height Does not need to be fully extended to illuminate One button "auto-extend"	Fast and FlexibleAdapts to every situationFast operation increases safety and efficiency
Light in Any Direction Dual Tilt Feature Straight up or down or anywhere in between Equal light front and back	Light Where You Need and How You Need It Rooftops, treetops and power lines Illuminate forward and backward equally – 360° Illuminate ravines and steep inclines
Lighter Weight · Over 42% lighter	Cost SavingsFuel and installation (no roof reinforcement)More funds to purchase other equipment
 More Power Options All electric with built-in air elevation Onboard truck air system AC or DC powered models Internal power wires 	 Flexible Installation New build or aftermarket compatible No generator required options Protected from the elements and damage
More Installation Options · 8 platforms to choose from · Roof mount to cab or body · Vertical mount internal or external	 Meets Your Unique Vehicle Specifications Allows installation on more vehicle types Allows installation on more vehicle sizes New and Aftermarket
More Light Options The most popular brands LED, HID and Halogen types Over 400 light and tower combinations	Meets Your Specific Requirements Technically advanced to budget friendly Lower power consumption High lumen output
Pneumatic Tube Construction · Anodized aluminum mast tubes	Reliable in Extreme Environments · As tested and proven, from the cold and ice of Canada to the sand and dust of Afghanistan



Because You Need Light Every Night







CONTENTS



NIGHT SCAN® 1.0 AND 1.54



VALUE-ADDED ACCESSORIES......10



NIGHT SCAN® CHIEF5



LIGHTING GUIDE11



NIGHT SCAN® POWERLITE6



NIGHT SCAN® TOWER AND LIGHT PACKAGE OPTIONS......12-13



NIGHT SCAN® XTREME



MOBILE VIDEO SYSTEMS



NIGHT SCAN® VERTICAL COMPLETE.....8



MOBILE SENTRY[™]15



NIGHT SCAN® VERTICAL LIGHT TOWER......9

NIGHT SCAN® 1.0 AND 1.5

The Will-Burt Night Scan® 1.0 and 1.5 are roof-mounted, fold-down light towers that have been specifically designed for small vehicles. As with all Night Scan® roof-mount models, no interior space is needed for installation. The Night Scan® 1.0 and 1.5 are well-suited for small SUVs and sedans. Provides an affordable light tower solution for chief's vehicles, squad cars and small wreckers when maximum height is not required. It is self-contained and is available with all DC (12V/24V DC) operation in which generator or inverter is not required.



Night Scan [®]	1.0	1.5	
Height (ft.)	3.25	5	
Automatic Deploy and Stow	No	No	
Full Deployment Time	Under 20 seconds	Under 20 seconds	
Number of Lights Available	2	2	
Light Type Available	LED / Halogen / HID	LED / Halogen / HID	
Maximum Lumens	39200	39200	
Full Pan and Tilt Light Positioning	Yes	Yes	
Opposable Light Fixtures	No	No	
VDC / Watts Maximum	12 / 180	12 / 180	
VAC / Watts Maximum	120 / 1500	120 / 1500	
Profiler – Narrow Light Fixture Option	No	No	
Strobe Light Option	Not Available	Not Available	



NIGHT SCAN® CHIEF

The Will-Burt Night Scan® Chief is a roof-mounted, fold-down light tower which requires no interior vehicle space. It is typically used on medium-size rescue, pumper rescue, service and utility vehicles or smaller wrecker vehicles. The Night Scan® Chief features a self-contained air system (no external air supply needed) and is available with all DC (12V/24V DC) operations in which generator or inverter is not required.

Night Scan [®] Chief	1.8	2.3
Height (ft.)	6	7.5
Automatic Deploy and Stow	Yes	Yes
Full Deployment Time	Under 45 seconds	Under 45 seconds
Number of Lights Available	2 or 4	2 or 4
Light Type Available	LED / Halogen / HID	LED / Halogen / HID
Maximum Lumens	140000	140000
Full Pan and Tilt Light Positioning	Yes	Yes
Opposable Light Fixtures	No	No
VDC / Watts Maximum	12 / 640	12 / 640
VAC / Watts Maximum	240 / 6000	240 / 6000
Profiler – Space-Saving Fixture Option	Yes – 2 or 3 lights	Yes – 2 or 3 lights
Strobe Light Option	Yes	Yes









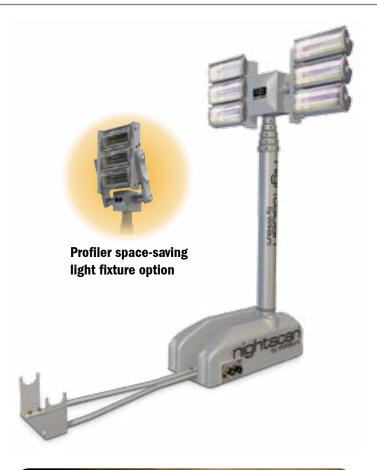
NIGHT SCAN® POWERLITE

The Will-Burt Night Scan® Powerlite is a roof-mounted, fold-down light tower which requires no interior vehicle space. It is typically used on heavy-rescue vehicles, mobile command centers, airport ARFF vehicles or large wreckers. Opposable light fixtures provide equal lighting forward and backward at the same time – 360° of light. Delivering up to 9000 watts of AC illumination, the Night Scan® Powerlite is ideal on any vehicle where maximum light is required. The Powerlite can be elevated with truck air or optional on-board compressor.

Night Scan® Powerlite	3.0	4.5	
Height (ft.)	10	15	
Automatic Deploy and Stow	Yes	Yes	
Full Deployment Time	Under 60 seconds	Under 60 seconds	
Number of Lights Available	4 or 6	4 or 6	
Light Type Available	LED / Halogen / HID	LED / Halogen / HID	
Maximum Lumens	210000	210000	
Full Pan and Tilt Light Positioning	Yes	Yes	
Opposable Light Fixtures	Yes	Yes	
VDC / Watts Maximum	N/A	N/A	
VAC / Watts Maximum	240 / 9000	240 / 9000	
Profiler - Space-Saving Fixture Option	Yes - 2 or 3 lights	Yes - 2 or 3 lights	
D-TEC II* Power Line Detection System Option	Yes	Yes	
Strobe Light Option	Yes	Yes	













NIGHT SCAN® XTREME

The Will-Burt Night Scan® Xtreme is a roof-mounted, fold-down light tower $which \, requires \, no \, interior vehicle \, space. It has been \, designed \, for applications$ where maximum height is required, such as hilly terrain, locales with mature trees or urban areas with tall buildings. Opposable light fixtures provide equal lighting forward and backward at the same time – $360\degree$ of light. The Night Scan® Xtreme can be elevated with truck air or optional on-board compressor. When the situation requires maximum elevation, Night Scan® Xtreme is the light tower you need.

Night Scan® Xtreme	6.0	7.5	
Height (ft.)	20	25	
Automatic Deploy and Stow	Yes	Yes	
Number of Lights Available	2, 4 or 6	2 or 4	
Light Type Available	LED / Halogen	LED / Halogen	
Maximum Lumens	210000	140000	
Full Pan and Tilt Light Positioning	Yes	Yes	
Opposable Light Fixtures	Yes	Yes	
VDC / Watts Maximum	N/A	N/A	
VAC / Watts Maximum	240 / 9000	240 / 6000	
Profiler - Space-Saving Fixture Option	No	No	
D-TEC II° Power Line Detection System Option	Yes	Yes	
Strobe Light Option	Yes	Yes	



NIGHT SCAN® VERTICAL COMPLETE

The Will-Burt Night Scan® Vertical Complete is a vertically mounted light tower which was created to be installed externally to the side or rear of a vehicle. This light tower includes an on-board compressor for elevation and requires no truck air. Used for elevating lights and/or cameras, it is perfect for smaller vehicles where space is limited. Measuring less than 6 inches (16 cm) deep, it can even fit between the cab and box. The compressor box can be placed below or beside the mast to suit your specific vehicle requirements.

Night Scan® Vertical Complete	2.3
Height (ft.)	7.5
Automatic Deploy and Stow	Yes
Number of Lights Available	2 or 4
Light Type Available	LED / Halogen / HID
Maximum Lumens	140000
Full Pan and Tilt Light Positioning	Yes
Opposable Light Fixtures	No
VDC / Watts Maximum	12 / 640
VAC / Watts Maximum	240 / 6000
Profiler - Space-Saving Fixture Option	No
D-TEC II® Power Line Detection System Option	Yes
Strobe Light Option	Yes





NIGHT SCAN® VERTICAL LIGHT TOWER

The Will-Burt Night Scan® Vertical Tower is a vertically mounted light tower which may be installed internally or externally to the side or rear of a vehicle. Used for elevating lights and/or cameras, it is typically used on heavy rescue vehicles, full-size mobile command centers, airport ARFF vehicles and large wreckers. Delivering up to 9000 watts of AC illumination, the Night Scan® Vertical Light Tower is ideal on any vehicle where maximum light and height are required.



Night Scan® Vertical	5.4-17	6-20	7-25	8-30
Height (ft.) / (m)	17 / 5	20 / 6	25 / 7.6	30 / 9
Automatic Deploy and Stow	Yes	Yes	Yes	Yes
Number of Lights Available	4 or 6	4 or 6	4 or 6 4 or 6	
Light Type Available	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen
Maximum Lumens	210000	210000	210000	210000
Full Pan and Tilt Light Positioning	Yes	Yes	Yes	Yes
Opposable Light Fixtures	Yes	Yes	Yes	Yes
VDC / Watts Maximum	N/A	N/A	N/A	N/A
VAC / Watts Maximum	240 / 9000	240 / 9000	240 / 9000	240 / 9000
Profiler – Space-Saving Fixture Option	No	No	No	No
D-TEC II® Power Line Detection System Option	Yes	Yes	Yes	Yes
Strobe Light Option	Yes	Yes	Yes	Yes

VALUE-ADDED ACCESSORIES

STROBE LIGHTS

Will-Burt lighting solutions include reliable, compact strobe lights for added visibility and safety. Strobes feature a rugged, impact-resistant polycarbonate dome and base, exceptional fiber optics, and a double-flash power supply that automatically adjusts to function at any voltage - from 12V to 24V DC. They meet SAE J1318 Class 3 specifications and are available in LED beacons and a variety of colors: amber, blue, clear, red and green.



REMOTE CONTROLLERS

Will-Burt offers a breadth of full-function, simple-to-use remote controllers. Designed for rugged duty and gloved hands, they're impervious to even the harshest weather and operating conditions. Wired remote controls now have an emergency stop button built in; there is no longer a need for a junction box. Every Chief, Vertical Complete, Powerlite, Xtreme and Vertical controller has one button auto-stow feature along with a digital display. Choose from our handheld wired models or a panel-mount version. Or, for even greater flexibility, try our wireless, rechargeable remotes.



WIRED REMOTES



Night Scan® 1.0 and 1.5



Chief and Vertical Complete



Chief and Vertical Complete (NFPA Start Button)



Powerlite. **Xtreme and Vertical**



Powerlite. Xtreme and Vertical (NFPA Start Button)

WIRELESS REMOTES

PANEL MOUNT CONTROLS



Chief and Vertical Complete



Chief and Vertical Complete (NFPA Start Button)



Powerlite. Xtreme and Vertical



Powerlite. Xtreme and Vertical (NFPA Start Button)



Chief and Vertical Complete



Powerlite. Xtreme and Vertical

D-TEC II® LIVE POWER LINE DETECTION SYSTEM

The D-TEC II° safety unit, a Will-Burt exclusive, provides overhead power line and obstacle detection, as well as above-the-mast illumination. Featuring factory preset sensitivity settings, the built-in anticollision system automatically stops light tower extension, while its high-voltage sensor alerts upon power line and obstacle detection. It's available on the Night Scan® Powerlite, Night Scan® Xtreme and Night Scan® Vertical light towers.



LIGHTING GUIDE

Will-Burt offers a variety of light options from the top brands in lighting to meet our customers' specific needs. Virtually every electrical system requirement can be met with our lighting solutions. Lighting packages are available in 12 and 24 volt DC and 120 and 240 volt AC. The most sophisticated and long lasting LED lighting available in the market today is offered in low power consumption and high lumen output arrangements. Halogen packages are available for applications where traditional, lower initial cost lighting is needed. HID light packages typically provide high lumen output at a cost between LED and Halogen packages.

Lighting Comparison	LED (Light Emitting Diode)	HID (High Intensity Discharge)	Halogen
Light Description	efficient light source available, producing more lumens per watt than any other type. LEDs also produce instant light that is closer to daylight than HID or Halogen, which can make a scene appear brighter. LEDs are the longest lasting source of light because they do not use a filament to produce light. LEDs are the most costly light to purchase because of the advanced technology required to produce them; however, lifetime cost is the lowest.	HID lamps provide high lumen output and light quality that falls between a Halogen lamp and an LED lamp. HID lights consume more watts than LED and take time to reach full illumination; however, their power consumption is much less than Halogen. Where HID lights do last on average 10 times longer than Halogen, they do not approach the longevity of LED lights. HID lights provide a middle ground solution between the high performance LED and the low-cost Halogen.	Halogen lamps provide high lumen output and instant light at a low price. However, Halogen bulbs do consume the most power per lumen and also have the shortest life expectancy, requiring bulb replacement throughout the life of the apparatus.
Lumen Range / Lamp	6,000 - 20,000	5,000 - 32,000	10,500 - 35,000
Average Expected Life	50,000 hours	2,500 hours	250 hours
Initial Cost			
Lifetime Cost			
Cost / Lumen			
Power Consumption / Lumen			
Brands	AKRON BRASS COMPANY FRA Advision of ROM Corp. WHELEN	A division of ROM Corp.	Advision of ROM Corp. R.O.D. CORPORATION









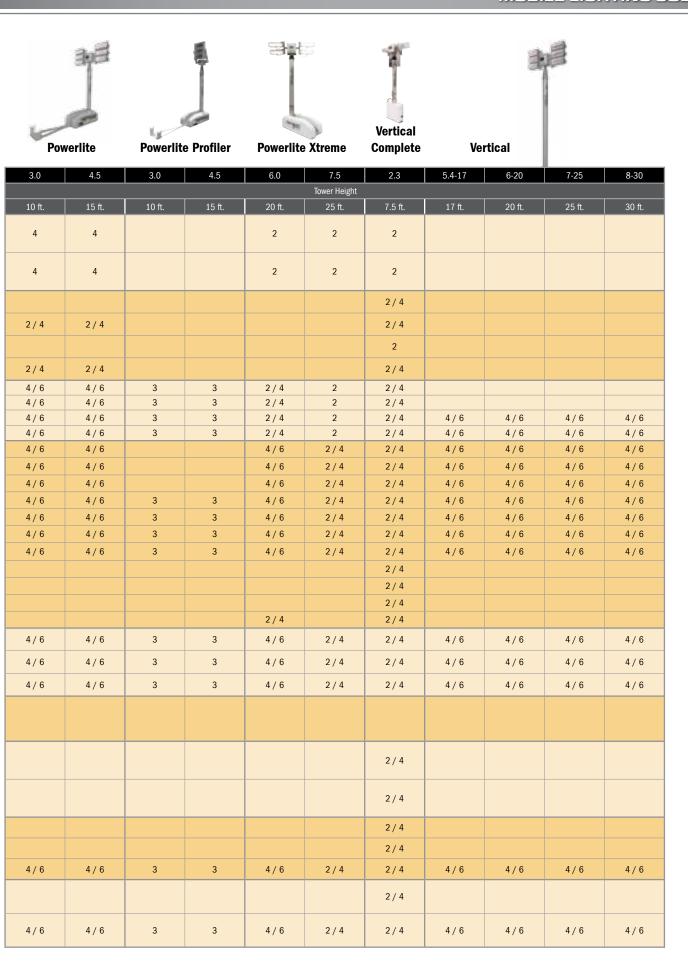
Tower and Light Package Options

Night Scan®	
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Chief Profiler

							1.0	1.5	1.8	2.3	1.8	2.3
			Lumens						Tow	er Height		
Brand	Model	Туре	/ Lamp*	Watts	Voltage	Amps	3.25 ft.	5 ft.	6 ft.	7.5 ft.	6 ft.	7.5 ft.
M	Sum will am.	LED	20000	220	120	1.8			2	2		
AKRON		LED	20000	220	240	0.9			2	2		
		LED	8000	90	12	7.5	2	2	2 / 4	2 / 4	2/3	2/3
	EVOLUTION	LED	8000	90	24	3.75			2 / 4	2 / 4	2/3	2/3
National Confession	Name of Street, or other Designation of the least of the	LED	15000	160	12	13			2 / 4	2 / 4		
		LED	15000	160	24	6.5			2 / 4	2 / 4		
		LED	20000	216	12	18			2	2		
EDC	SPECIAL	LED	20000	216	24	9			2 / 4	2 / 4		
Andrews of College	Access to the second	LED	20000	230	120	2			2 / 4	2 / 4		
		LED	20000	230	240	1			2 / 4	2 / 4		
		Halogen	10500	500	120	4.2	2	2	2 / 4	2 / 4	2/3	2/3
		Halogen	19600	750	120	6.3	2	2	2 / 4	2 / 4	2/3	2/3
		Halogen	16100	750	240	3.1	2	2	2/4	2 / 4	2/3	2/3
		Halogen	22000	1000	120	8.3			2/4	2 / 4	<u>'</u>	<u> </u>
	- T	Halogen	22000	1000	240	4.2			2/4	2 / 4		
FRC	THE RESIDENCE.	Halogen	35000	1500	240	6.25			2/4	2 / 4		
Addison Print Com.		HIR	32000	900	240	3.75			2/4	2 / 4		
		HID	5000	70	12	6	2	2	2/4	2 / 4	2/3	2/3
			5000	70		3	2	2			·	2/3
		HID			24		0	0	2 / 4	2 / 4	2/3	-
		HID	11250	150	12	12.5	2	2	2 / 4	2 / 4	2/3	2/3
		HID	11250	150	24	6.25			2 / 4	2 / 4	2/3	2/3
D 0 700	MAGNAFIRE	Halogen	16100	750	120	6.25			2 / 4	2 / 4	2/3	2/3
ROM	3	Halogen	20600	750	240	3.5			2 / 4	2 / 4	2/3	2/3
	Section 1	Halogen	32000	900	240	4.2			2 / 4	2 / 4		
WHILEN	Pioneer SlimLine	LED	6000	70	12	6	2	2				
	Pioneer Plus Flood	LED	8000	75	12	6	2	2	2 / 4	2 / 4	2/3	2/3
WHILEN		LED	8000	75	24	3			2 / 4	2 / 4	2/3	2/3
	Pioneer Plus Flood / Flood	LED	16000	150	12	12			2 / 4	2 / 4		
WHOLEN	TIOUT FIOU	LED	16000	150	24	6			2 / 4	2 / 4		
		LED	15000	150	120	1.25			2 / 4	2 / 4		
The same of the	Pioneer Plus Spot / Flood	LED	16000	150	12	12			2 / 4	2 / 4		
WHILEM		LED	15000	150	120	1.25			2 / 4	2 / 4		

^{*}Lumens per light manufacturer specifications - Multiply lumens by number of lamps for total lumens.



MOBILE VIDEO SYSTEMS

Will-Burt Night Scan® Light Towers deliver the capability of camera mounting, with or without lights. A camera, elevated to a height from 3.25 ft. to 30 ft. above the vehicle roof, allows ground personnel to survey an emergency scene quickly and efficiently. In addition, the system offers real-time monitoring and surveillance for accurate records and documentation. Will-Burt has several camera, DVR, monitor and software packages that fit a variety of needs. Our video solutions experts can also design a customized package to fit your specific requirements. Below is a sample of our video solutions.













Feature		WONWOO - IR	WONWOO	Sidewinder	Sidewinder	Sidewinder
Camera Type	IP Dome Camera	PTZ – Analog Infrared	PTZ - Analog	PTZ – Analog or IP Standard Definition	PTZ - Analog or IP High Definition	PTZ - Analog or IP Thermal Imaging
Lens	2.93mm	3.4mm - 122.4mm	3.4mm - 122.4mm	3.4mm - 122.4mm	4.7mm - 94.0mm	19mm
Image Sensor	Progressive Scan CMOS	Exview HAD CCD	Exview HAD CCD	Interline Transfer CCD	2MP CMOS High Definition	8-14 micron spectral uncooled microbolometer
Resolution	2048 x 1536	1028 x 508 / 700 TV Lines	1028 x 508 / 700 TV Lines	768 x 582 / 520 TV Lines	1920 x 1080	320 x 240 / 225 TV Lines
Optical Zoom / Digital Zoom	N/A	36x / 32x	36x / 32x	35x / 10x	20x / 10x	N/A
Low Light	0 LUX with 10 IR LEDs	0.2LUX with 46 IR LEDs / 80m	0.5LUX	0.01 LUX in IR mode	Less than 3 LUX	
Wide Dynamic Range	No	Yes	Yes	No	No	No
Viewing Angle	82.3°					36°
Pan & Tilt	N/A	360° endless pan / -22.5° - 90° tilt	360° endless pan / -45° - 90° tilt	360° endless pan and tilt	360° endless pan and tilt	360° endless pan and tilt
Sensitivity						<85 mK NEdT
Ingress Protection		IP66 - Outdoors	IPX5	IP67 – weatherproof	IP67 - weatherproof	IP67 - weatherproof
Video Display	4.3" LCD, 7" LCD	4.3" LCD, 7" LCD	4.3" LCD, 7" LCD	4.3" LCD, 7" LCD	4.3" LCD, 7" LCD	4.3" LCD, 7" LCD
Compatible DVR	H4H DVR	H4H DVR	H4H DVR	H4H DVR	H4H DVR	H4H DVR
Compatible Controller		Wonwoo PTZ Mini Controller	Wonwoo PTZ Mini Controller	Sidewinder PTZ Controller	Sidewinder PTZ Controller	Sidewinder PTZ Controller









MOBILEUSEN

Fixed video systems cannot give you visibility everywhere you need it. The Mobile Sentry™ portable security and surveillance system by Will-Burt enables you to rapidly deploy security monitoring where you need, when you need it.

Mobile Sentry™ is a trailer-based system that includes state-of-theart video capabilities with a wide selection of camera options, mobile DVR for incident recording and wireless transmission for remote monitoring. It also includes multiple power and lighting system options. Finally, it incorporates a stable, internally-wired, tamperresistant mast system for positioning cameras and lights up to 33.5 ft. above ground.

Mobile Sentry[™] enables you to keep a watchful eye on people, valuable assets, etc. Whether monitoring crowds at special events, providing aid at crisis management scenes or guarding against theft and vandalism at construction, oil drilling or industrial sites, Mobile Sentry[™] gives you continuous visibility.

Capabilities

Mobile Sentry™ delivers security and surveillance capabilities where you need it. The trailer-based portable system offers remote monitoring of any situation, allowing you to observe people and protect assets.

The system allows for configuration to meet your requirements.

- Camera system: Mobile Sentry™ offers a variety of camera options, from two 180° cameras mounted on Will-Burt's proprietary pan positioner, giving you complete coverage of the surveillance area to Pan-Tilt-Zoom cameras, giving day or day-night capability and multiple zoom capability options.
- Mobile DVR system: IP/Analog with built-in GPS and 500GB storage capacity high resolution encrypted video. Can be set for continuous recording, incident recording based on a trigger or set by schedule.
- Supports powerful central monitoring system for superior online viewing/tracking.
- Remote monitoring is capable from any location via 3G/EVDO/ HSPDA interface.
- Mobile wireless router that can support up to 150 concurrent users.
- Power system can include battery, generator combination system.

We would be happy to work with you to select the proper camera configuration to meet your requirements.







CONTACT YOUR SALES REPRESENTATIVE TODAY

The Will-Burt Company, located in Orrville, Ohio, is the world's premier manufacturer of telescoping mast and tower elevation solutions - the world's one stop shop offering virtually every payload elevation solution from one source - for military, fire, cellular broadcast, entertainment and other applications. Will-Burt also designs and manufactures military and other shelters made of all-composite materials that deliver higher performance at lower life cycle cost than metal or partial composite shelters. Intrusion and Access Control Solutions are offered under Will-Burt's LINX™ brand. Will-Burt is employee owned and has a strong commitment to the continuous improvement process set forth by its ISO 9001:2008 certified quality system.









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