

**ParagonLED®**

# Product Catalog

TTL-XT (Extreme Temperatures Lighting)

**MIL-STD-810G (-80 °C) + MIL-STD-810H (+115 °C)**



**IP66**





**ParagonLED®**

# Company Profile

- 2008 – Company founded, establishing its focus on advanced AC COB LED technology
- 2010 – Achieved the world's first CE certification for AC COB LED technology, setting a global benchmark.
- 2011 – Recognized as the first to gain both FCC and ErP certifications for AC COB LEDs.
- 2012 – Introduced the world's first AC COB LED explosion-proof lighting and obtained UL certification.
- 2013 – Attained ISO9001:2008 certification and established the world's first 3V–300V AC LM80 laboratory, certified by DOE and Energy Star.
- 2016 – Expanded to an annual production capacity of 6 million units, reinforcing large-scale manufacturing capability.
- 2017 – Set up the world's first 600V AC LM80-certified laboratory, further strengthening reliability testing infrastructure.
- 2019 – Developed the world's first ACCOB light engine with  $T_c = 145^\circ\text{C}$ , marking a breakthrough in high-temperature LED technology.
- 2020 – Deployed the extreme-environment ACCOB light engine ( $-80^\circ\text{C}$  to  $+115^\circ\text{C}$ ) into commercial operation at U.S. paper mills and steel mills. By 2025, more than 60,000 light engines have been successfully installed in these facilities.
- 2023 – Became a subsidiary of the AVC Group, enhancing global resources and thermal management expertise.
- 2025 – Completed the world's first flip-chip ACCOB light engine designed for extreme temperatures.
- Radiation-Resistance lighting successfully passed 300 kGy gamma radiation testing at the National Atomic Energy Research Institute (NARI).
- Targeting PSE certification (100V/200V) for the Japanese market and UL certification (120V–600V) for linear models, paving the way for global expansion.



- **BLAST FURNACE**  
USED TO EXTRACT MOLTEN IRON (PIG IRON) FROM IRON ORE. TEMPERATURE RANGE: 1,600°C TO 2,200°C.
- **ELECTRIC ARC FURNACE (EAF)**  
USED FOR MELTING SCRAP STEEL OR DIRECT REDUCED IRON. TEMPERATURE RANGE: 1,600°C TO 1,800°C.

## High Temperature Environment

ParagonLED is a pioneer in industrial lighting, pushing the boundaries of LED technology by extending operational temperature ranges from the conventional -25°C to 50°C to an impressive -80°C to +115°C. This innovation is critical in industrial settings where extreme heat and challenging conditions demand reliable, high-performance lighting solutions. High-temperature resistant lighting is essential in industries such as:

1. **Steel Production and Forging:** Ensures safety and efficiency during processes like melting, forging, and rolling.
2. **Foundry Operations:** Withstands the intense heat of molten metal pouring and casting.
3. **Glass Manufacturing:** Functions reliably in extreme heat during the melting of raw materials.
4. **Ceramic Production:** Endures prolonged high-temperature firing in kilns.
5. **Coking Plants:** Handles the extreme temperatures of coal processing into coke.
6. **Heat Treatment Facilities:** Resists heat generated during the phase transitions of metals.

Specialized lighting design incorporates high-temperature resistant materials, cooling systems, and high IP ratings (IP66 or above) to protect against dust, heat, and corrosion.

Waste incineration plants also rely on high-temperature lighting to operate safely and efficiently. These systems must endure high heat, resist corrosive chemicals, and offer robust dust and moisture protection. Properly selected lighting ensures operational safety and reliability in these environments.

ParagonLED's expert assembly and testing teams provide unmatched technical support, guaranteeing the durability and performance of your lighting systems in even the most demanding conditions.

# HOT SALE

TTL-XT — Extreme Temperatures Lighting



## 500W

63,000 LUMEN

- Beam Angle 70°
- 120VAC/277VAC/347VAC/480V AC/600VAC/250VDC
- 5000k color temperature
- -80°C (-112°F) to 115°C (239°F)
- MIL-STD-810G (-80 °C) + MIL-STD-810H (+115 °C)



## 225W/350W

28,000~44,000 LUMEN

- Beam Angle 110°/70°
- 120VAC/277VAC/347VAC/480V AC/600VAC/250VDC
- 5000k color temperature
- -80°C (-112°F) to 115°C (239°F)
- MIL-STD-810G (-80 °C) + MIL-STD-810H (+115 °C)



## 10W~140W

1,250~18,000 LUMENS

- Beam Angle 110°
- 120VAC/277VAC/347VAC/480V AC/600VAC/250VDC
- 5000k color temperature
- -80°C (-112°F) to 115°C (239°F)
- MIL-STD-810G (-80 °C) + MIL-STD-810H (+115 °C)



IP66



# TTL-XT Series

# Extreme Temperatures Lighting

We use Nord-Lock washers for optimized safety performance.

**NORD-LOCK**  
PART OF THE NORD-LOCK GROUP



When you absolutely must have the

## Toughest Industrial LED High Bay

MIL-STD-810G (-80 °C) + MIL-STD-810H (+115 °C)



**High Ambient Temp.**  
-112°F (-80°C) to  
239°F (115°C)



**Field Replaceable LEDs**



**C5M/PVDF  
coating optional**



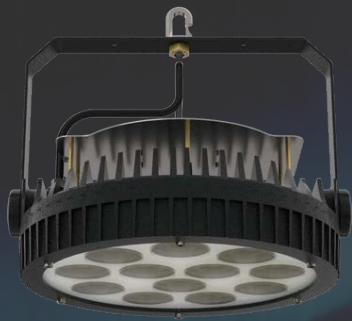
**Chemical Repellent**



**Instantaneous activation of  
lighting function, without the  
need for standby time.**



**Anti-Glare**



# TTL-XT Series

## Extreme Temperatures Lighting

“A real innovation in extreme environment LED lighting.”



Engineered and tested for reliable operation you can count on in temperatures ranging from **-112°F(-80°C) to 239°F(115°C)**



Game changing LED module design (see details below). Replaceable to reduce the cost of long term ownership.



PVDF corrosion resistant coating over a die-cast aluminum housing + stainless steel hardware for incredible durability. 1,000 hour salt-fog test yielded no corrosion. [ASTM B117-19/ASTM D610-08(2019)]



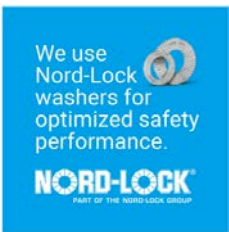
Chemical repellent housing to stand up in areas where industrial chemicals are used or produced.



Instantaneous activation of lighting function, without the need for standby time.

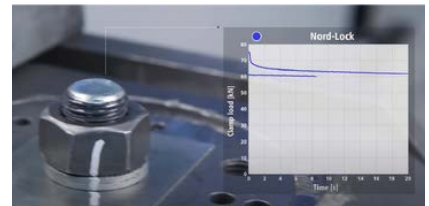
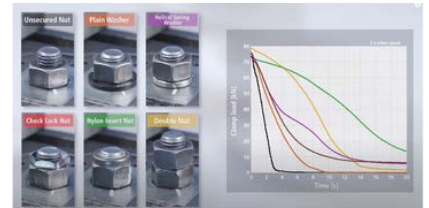


Provide better eye protection and workplace safety.



Nord-Lock wedge-locking washers consistently outperform alternative locking methods when it comes to securing bolted joints. This is proven by the results of thousands of Junker tests carried out for customers all over the world by Nord-Lock engineers.

When exposed to transverse vibrations underneath the bolt head, alternative locking methods such as plain washers, helical spring washers, check lock nuts, nylon inserted nuts and double nuts all show a loss of clamp load – loosening the bolt and exposing the joint to failure unless frequently retightened. So, Nord-Lock engineers would usually recommend wedge-locking washers to achieve the most secure bolted joint.



The heart of the TTL series is its revolutionary

**DRIVER-ON-BOARD LED MODULE.**

MIL-STD-810G (-80 °C) + MIL-STD-810H (+115 °C)

A marvel of engineering and innovative manufacturing processes, this proprietary module gives the TTL series outstanding light performance even in extreme hot and cold temperatures and requires no separate driver.

### Over-Engineered

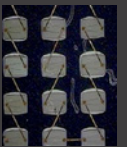
We use 12 IC current control chips when 4 would be enough for extra durability. Tested to 200° C without failure.

### No Load Shedding

As modules approach their max. rated temperature, lumen output will not decrease. Reducing output at high temp. is a common occurrence with other high temp. lights.

### 1.2 mil Gold Wire

TELseriesLEDs are connected with gold wire for enhanced durability under heavy thermal cycle stress.



### No Harmonic Distortion

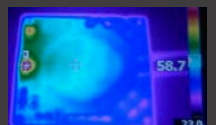
Quality components and advanced circuit design results in longer fixture life and no line noise generated by the TTL series.

### No Inrush Current

Inrush current has been engineered out of the module preventing large line voltage drops at start-up protecting the fixture and other equipment.

### Waterproof/Thermal Coating

Special silicone based coating creates a waterproof seal around the module and dissipates heat for increased durability.



“Every component  
of the *TTL Series* was selected/designed with  
**high ambient temperature**  
applications in mind.”

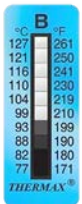


**PVDF / C5M coating**  
repels  
chemicals  
and prevents  
corrosion

Rugged die-cast aluminum  
housing

Metal reflector **70°** beam pattern  
ensures efficient light distribution.

Specialized ribbed  
silicone rubber gasket  
provides the perfect  
lens seal



High temp  
thermostat label  
verifies highest  
temperature  
reached

Factory torqued and  
sealed stainless steel  
cable gland

Oversized cooling fins  
maximize thermal  
efficiency



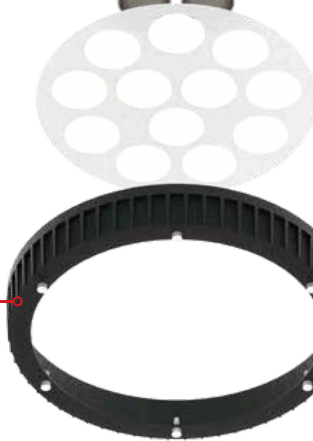
304 Stainless Steel hook.  
Yield strength 600MPa

Heavy-duty #2 gauge  
mounting bracket  
180° angle adjustment

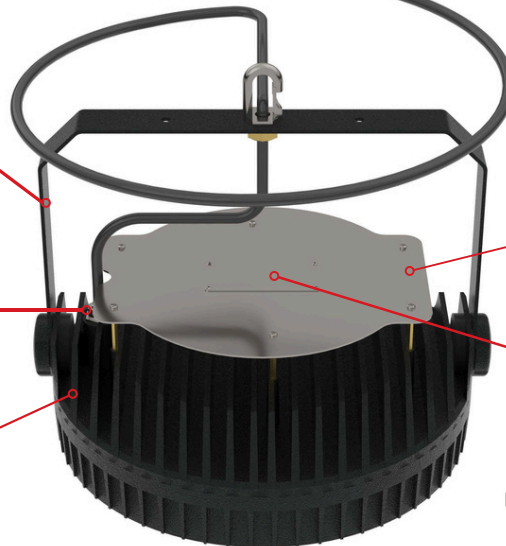


**Game changing** proprietary  
driver-on-board LED modules are  
replaceable for extended fixture  
life and lower cost of ownership

Flat tempered glass lens  
provides impact protection,  
heat resistance and  
excellent optical clarity



10' AWM style 4476 power  
cord is rated for 600V and  
200°C



304 Stainless Steel Dust Cover

Stainless steel nameplate  
with registration QR code  
and fixture specifications



IP66



# Technical Info

## SPECIFICATIONS

<b>Voltage</b>	120VAC/277VAC/347VAC/480VAC/ 600VAC/250VDC
<b>Wattage</b>	500W (+/- 10%)
<b>Color Temp</b>	5000 Kelvin
<b>Housing</b>	C5M(standard) / PVDF optional
<b>Color</b>	Black(standard) / White optional
<b>Lens</b>	Flat tempered glass lens
<b>CRI</b>	>70
<b>Efficacy</b>	125 lm/W (500W)
<b>Beam Angle</b>	70°
<b>Cable Gland</b>	Stainless steel
<b>Power Cord</b>	600V / 200°C rated
<b>Surge Protection</b>	> 20KV
<b>Ambient Temp.</b>	-80°C (-112°F) to 115°C (239°F)

**MIL-STD-810G (-80 °C) + MIL-STD-810H (+115 °C)**

## LUMENS

<b>500W</b>
62,500 lm

## WARRANTY

65° (149°F) Max Ambient Temp.	7 Year Limited Warranty
85° (185°F) Max Ambient Temp.	3 Year Limited Warranty
105°C (221°F) Max Ambient Temp.	1 Year Limited Warranty

TTL Getter System (optional) — extends lifetime to 3 years @105 °C. It continuously absorbs residual oxygen, moisture, and gases released from internal materials under high temperature, preventing oxidation and degradation.

## PART NUMBERS

Part Number	Watt	Voltage
TTL-500-50-120V-1yz	500W	120VAC
TTL-500-50-277V-1yz		277VAC
TTL-500-50-347V-1yz		347VAC
TTL-500-50-480V-1yz		480VAC
TTL-500-50-600V-1yz		600VAC
TTL-500-50-250V-1yz		250VDC

x(Beam Angle)0=110° 1=70°  
y(Coating) : 0=PVDF 1=C5M  
z(Fixture color)0=white 1=black



**IP66**



## DIMENSIONS :

Diameter : 562mm(22.1inch)  
Height : 441mm(17.4inch)  
Weight : 24.2Kg(53.4lb)

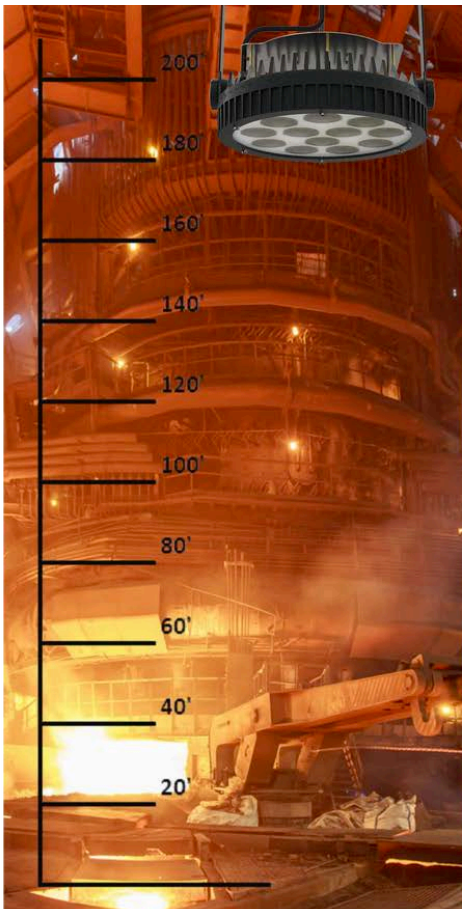
## INDUSTRIAL APPLICATIONS

Primary Metal Fabrication  
Steel Mills  
Smelting Operations  
Casting Foundries  
Metal Polishing  
Boiler Rooms

Blast Furnaces  
Paint Curing  
Ovens/Kilns  
Pulp/Paper Production  
Glass Manufacturing  
Power Generation

Power Plants  
Chemical Plants  
Refineries  
Aircraft Hangars  
Ship Yards  
Rail Yards

Aerospace Facilities  
Industrial Freezers  
Ice Manufacturing  
Cryogenic Industries  
cold-chain storage  
overhead crane



## ACCESSORIES

Wire Guard



Visor

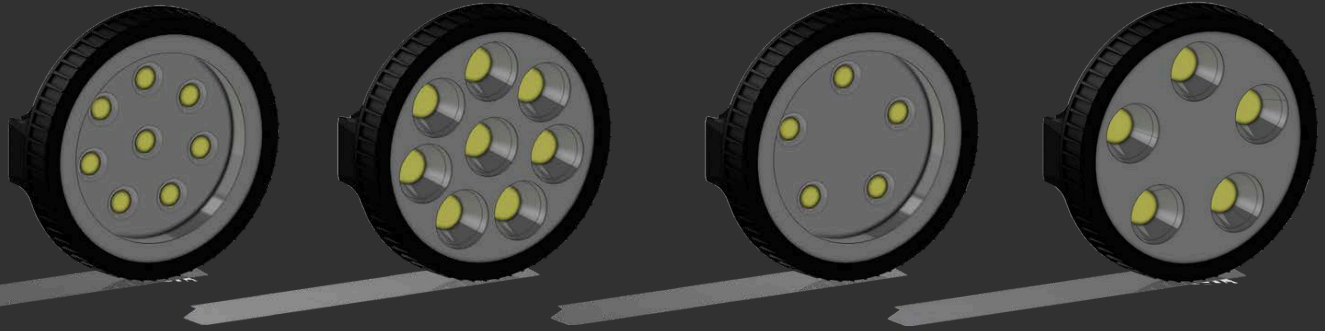


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**Field Replaceable LEDs**



**PVDF/C5M  
coating optional**



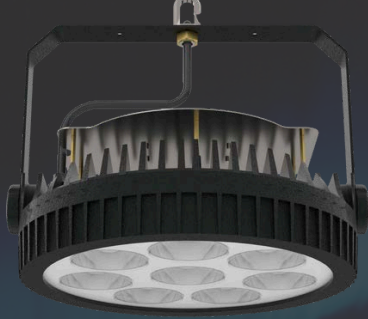
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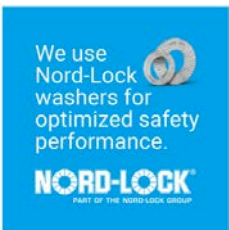
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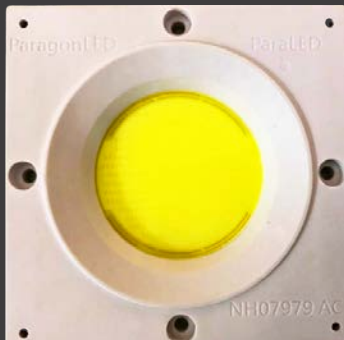
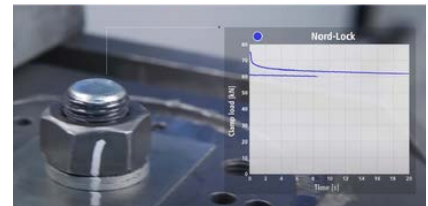
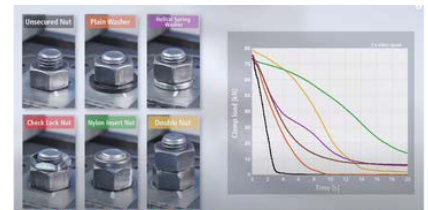


Provide better eye protection and workplace safety.



Nord-Lock wedge-locking washers consistently outperform alternative locking methods when it comes to securing bolted joints. This is proven by the results of thousands of Junker tests carried out for customers all over the world by Nord-Lock engineers.

When exposed to transverse vibrations underneath the bolt head, alternative locking methods such as plain washers, helical spring washers, check lock nuts, nylon inserted nuts and double nuts all show a loss of clamp load – loosening the bolt and exposing the joint to failure unless frequently retightened. So, Nord-Lock engineers would usually recommend wedge-locking washers to achieve the most secure bolted joint.



The heart of the TTL series is its revolutionary

**DRIVER-ON-BOARD LED MODULE.**

MIL-STD-810G (-80 °C) + MIL-STD-810H (+115 °C)

A marvel of engineering and innovative manufacturing processes, this proprietary module gives the TTL series outstanding light performance even in extreme hot and cold temperatures and requires no separate driver.

### Over-Engineered

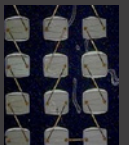
We use 12 IC current control chips when 4 would be enough for extra durability. Tested to 200° C without failure.

### No Load Shedding

As modules approach their max. rated temperature, lumen output will not decrease. Reducing output at high temp. is a common occurrence with other high temp. lights.

### 1.2 mil Gold Wire

TEL series LEDs are connected with gold wire for enhanced durability under heavy thermal cycle stress.



### No Harmonic Distortion

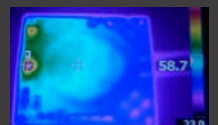
Quality components and advanced circuit design results in longer fixture life and no line noise generated by the TTL series.

### No Inrush Current

Inrush current has been engineered out of the module preventing large line voltage drops at start-up protecting the fixture and other equipment.

### Waterproof/Thermal Coating

Special silicone based coating creates a waterproof seal around the module and dissipates heat for increased durability.



“Every component of the *TTL Series* was selected/ designed with **high ambient temperature** applications in mind. “



**PVDF / C5M coating** repels chemicals and prevents corrosion

Rugged die-cast aluminum housing

Metal reflector **70°** beam pattern ensures efficient light distribution.

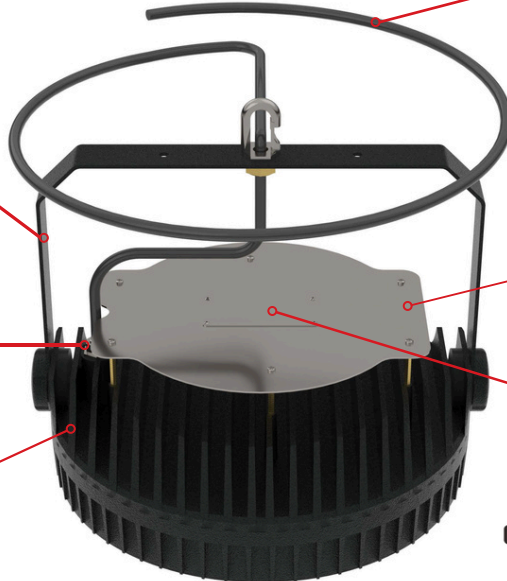
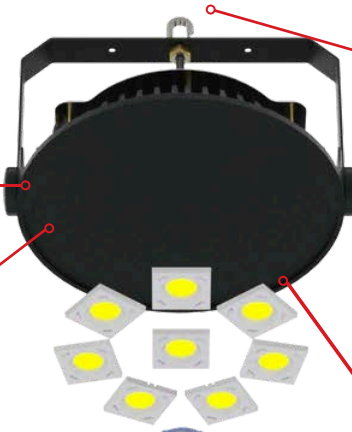
**110°** beam pattern reflector optional

Specialized ribbed silicone rubber gasket provides the perfect lens seal

High temp thermostat label verifies highest temperature reached

Factory torqued and sealed stainless steel cable gland

Oversized cooling fins maximize thermal efficiency



304 Stainless Steel hook. Yield strength 600MPa

Heavy-duty #2 gauge mounting bracket 180° angle adjustment



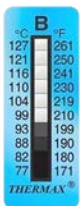
**Game changing** proprietary driver-on-board LED modules are replaceable for extended fixture life and lower cost of ownership

Flat tempered glass lens provides impact protection, heat resistance and excellent optical clarity

10' AWM style 4476 power cord is rated for 600V and 200°C

304 Stainless Steel Dust Cover

Stainless steel nameplate with registration QR code and fixture specifications



IP66



# Technical Info

## SPECIFICATIONS

<b>Voltage</b>	120VAC/277VAC/347VAC/480VAC/ 600VAC/250VDC
<b>Wattage</b>	225W/350W (+/- 10%)
<b>Color Temp</b>	5000 Kelvin
<b>Housing</b>	C5M(standard) / PVDF optional
<b>Color</b>	Black(standard) / White optional
<b>Lens</b>	Flat tempered glass lens
<b>CRI</b>	>70
<b>Efficacy</b>	125 lm/W
<b>Beam Angle</b>	70°/110°
<b>Cable Gland</b>	Stainless steel
<b>Power Cord</b>	600V / 200°C rated
<b>Surge Protection</b>	> 20KV
<b>Ambient Temp.</b>	-80°C (-112°F) to 115°C (239°F)

**MIL-STD-810G (-80 °C) + MIL-STD-810H (+115 °C)**

## LUMENS

<b>225W</b>	<b>350W</b>
28,125 lm	43,750 lm

## WARRANTY

Ambient Temperature	Warranty
65° (149°F) Max Ambient Temp.	7 Year Limited Warranty
85° (185°F) Max Ambient Temp.	3 Year Limited Warranty
105°C (221°F) Max Ambient Temp.	1 Year Limited Warranty

TTL Getter System (optional) — extends lifetime to 3 years @105 °C. It continuously absorbs residual oxygen, moisture, and gases released from internal materials under high temperature, preventing oxidation and degradation.

## PART NUMBERS

Part Number	Watt	Voltage
TTL-225-50-120V-1yz	225W	120VAC
TTL-225-50-277V-1yz		277VAC
TTL-225-50-347V-1yz		347VAC
TTL-225-50-480V-1yz		480VAC
TTL-225-50-600V-1yz		600VAC
TTL-225-50-250V-1yz		250VDC

Part Number	Watt	Voltage
TTL-350-50-120V-1yz	350W	120VAC
TTL-350-50-277V-1yz		277VAC
TTL-350-50-347V-1yz		347VAC
TTL-350-50-480V-1yz		480VAC
TTL-350-50-600V-1yz		600VAC
TTL-350-50-250V-1yz		250VDC

x(Beam Angle)0=110° 1=70°  
y(Coating) : 0=PVDF 1=C5M  
z(Fixture color)0=white 1=black



## DIMENSIONS :

Diameter : 450mm(17.7inch)  
Height : 373mm(14.7inch)  
Weight : 15.3Kg(33.7lb)

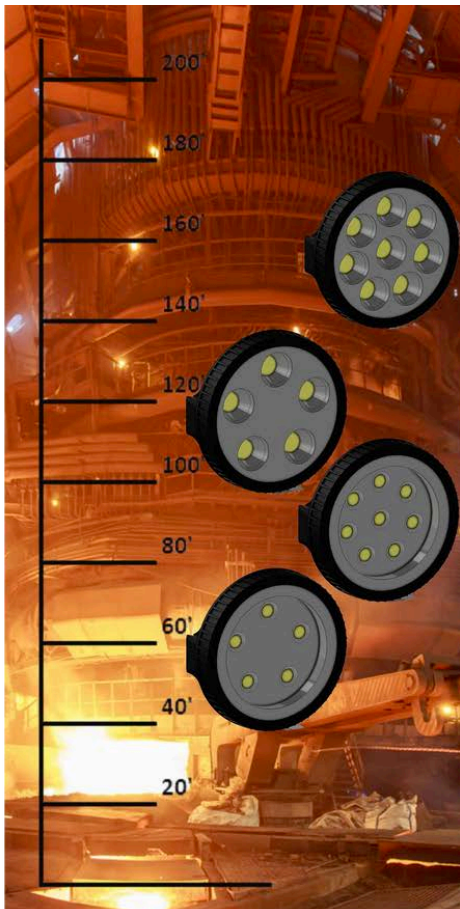
## INDUSTRIAL APPLICATIONS

Primary Metal Fabrication  
Steel Mills  
Smelting Operations  
Casting Foundries  
Metal Polishing  
Boiler Rooms

Blast Furnaces  
Paint Curing  
Ovens/Kilns  
Pulp/Paper Production  
Glass Manufacturing  
Power Generation

Power Plants  
Chemical Plants  
Refineries  
Aircraft Hangars  
Ship Yards  
Rail Yards

Aerospace Facilities  
Industrial Freezers  
Ice Manufacturing  
Cryogenic Industries  
cold-chain storage  
overhead crane



## ACCESSORIES

welded wire mesh light guards



# TTL-XT Series

# Extreme Temperatures Lighting



When you absolutely must have the  
**Toughest Industrial LED Task Light**

MIL-STD-810G (-80 °C) + MIL-STD-810H (+115 °C)



**High Ambient Temp.**  
-112°F (-80°C) to  
239°F (115°C)



**Field Replaceable LEDs**



**Spraying Plastics/PVDF**  
coating optional



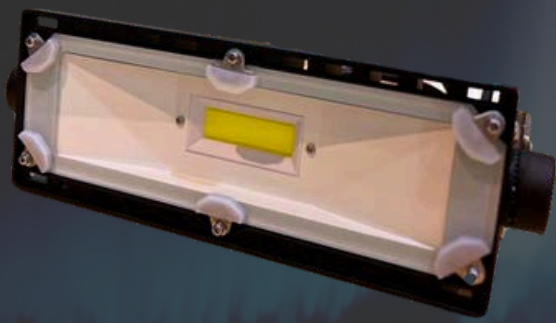
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**Anti-Glare**



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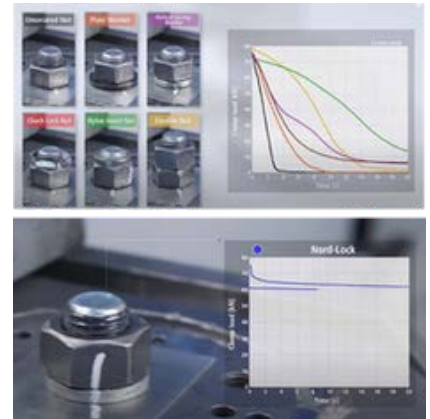
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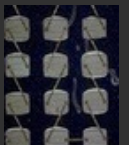
We use 12 IC current control chips when 4 would be enough for extra durability. Tested to 200° C without failure.

#### No Load Shedding

As modules approach their max. rated temperature, lumen output will not decrease. Reducing output at high temp. is a common occurrence with other high temp. lights.

#### 1.2 mil Gold Wire

TEL series LEDs are connected with gold wire for enhanced durability under heavy thermal cycle stress.



#### Low Harmonic Distortion

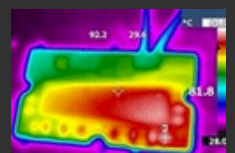
Quality components and advanced circuit design results in longer fixture life and no line noise generated by the TTL series.

#### Zero Inrush Current

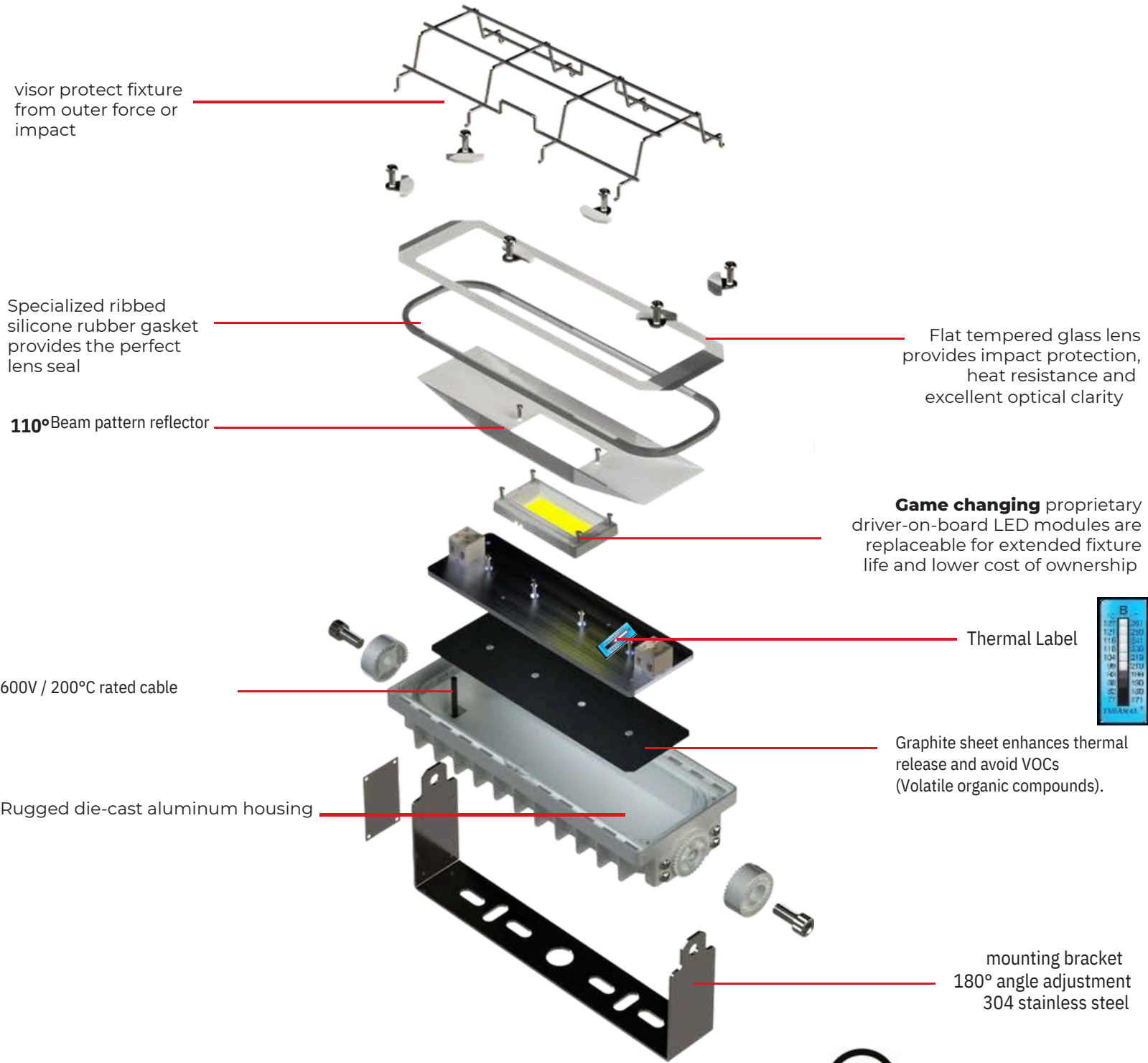
Inrush current has been engineered out of the module preventing large line voltage drops at start-up protecting the fixture and other equipment.

#### Waterproof/Thermal Coating

Special silicone based coating creates a waterproof seal around the module and dissipates heat for increased durability.



“Every component of the *TTL Series* was selected/ designed with **high ambient temperature** applications in mind. “



# Technical Info

## SPECIFICATIONS

**Voltage** 120VAC / 277VAC / 347VAC / 480VAC / 600VAC / 250VDC

**Wattage** 10W~140W

**Color Temp** 4000K / 5000 K

**Housing** Spraying Painting(standard) / PVDF optional

**Color** Black

**Lens** Flat tempered glass lens

**Efficacy** 125 lm/W (10W / 20W / 35W)

**CRI** >70

**Beam Angle** 110°

**Cable Gland** Stainless steel

**Power Cord** AWM style 4476 \_600V and 200°C rated

**Surge Protection** >15KV

**Ambient Temp.** -80°C (-112°F) to 125°C (248°F)

**MIL-STD-810G (-80 °C) + MIL-STD-810H (+115 °C)**

## LUMENS

10W	20W	30W
1,250 lm	2,500 lm	4,305lm

(one unit, 5000K)

## WARRANTY

Ambient Temperature	Warranty Length
65° (149°F) Max Ambient Temp.	7 Year Limited Warranty
85° (185°F) Max Ambient Temp.	3 Year Limited Warranty
105°C (221°F) Max Ambient Temp.	1 Year Limited Warranty

TTL Getter System (optional) — extends lifetime to 3 years @105 °C. It continuously absorbs residual oxygen, moisture, and gases released from internal materials under high temperature, preventing oxidation and degradation.

## Ordering Information

Example:TTL-040-50-120V-2

Series	Wattage	Color Temperature	Voltage	Unit	
TTL	010	10W	120V	1	
	020	20W	120VAC	2	
	035	35W	277V	277VAC	3
	040	40W	347V	347VAC	3
	070	70W	480V	480VAC	4
	040	40W	600V	600VAC	4
	070	70W	250V	250VDC	4
	030	30W			
	060	60W			
	105	105W			
	40	40W			
	80	80W			
	140	140W			



**IP66**  
**IP68**



## DIMENSIONS :

One Unit	Two Unit	Three Unit	Four Unit
Width: 110mm(4.33inch)	Width: 110mm(4.33inch)	Width: 110mm(4.33inch)	Width: 110mm(4.33inch)
Length: 1ft	Length :2ft	Length : 3ft	Length : 4ft
Height:138.88mm(5.47inch)	Height :138.88mm(5.47inch)	Height :138.88mm(5.47inch)	Height :138.88mm(5.47inch)
Weight : 1.95Kg(4.30lbs)	Weight : 3.79Kg(8.36lbs)	Weight :5.37Kg(11.84lbs)	Weight :7.5Kg(16.5lbs)

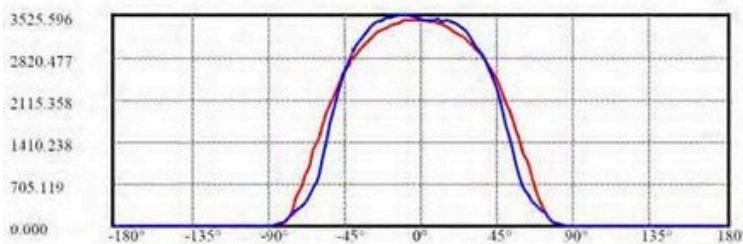
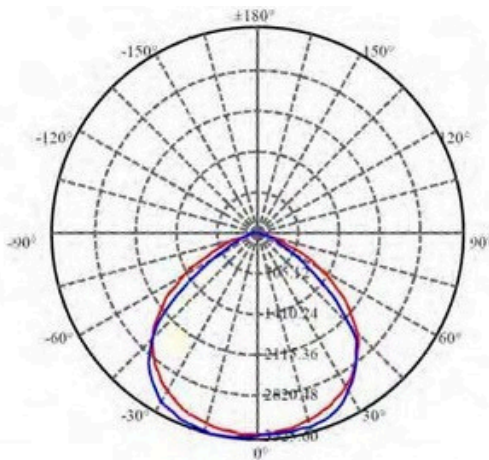
## INDUSTRIAL APPLICATIONS

Primary Metal Fabrication  
Steel Mills  
Smelting Operations  
Casting Foundries  
Metal Polishing  
Boiler Rooms

Blast Furnaces Paint  
Curing Ovens/Kilns  
Pulp/Paper Production  
Glass Manufacturing  
Power Generation

Power Plants  
Chemical Plants  
Refineries  
Aircraft Hangars  
Ship Yards  
RailYards

Aerospace Facilities  
Industrial Freezers  
Ice Manufacturing  
Cryogenic Industries  
cold-chain storage  
overhead crane



C0/C180: —  
C90/C270: —

## ACCESSORIES

welded wire mesh light guards

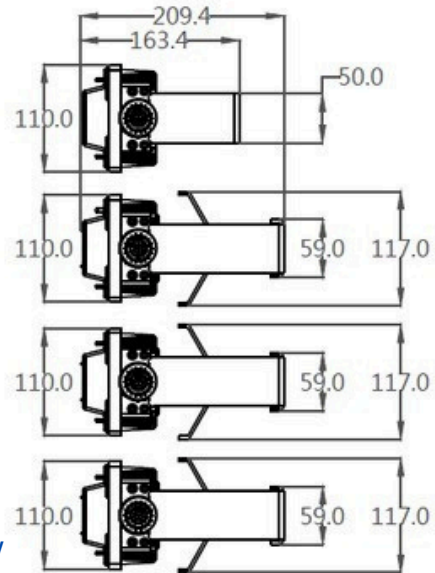
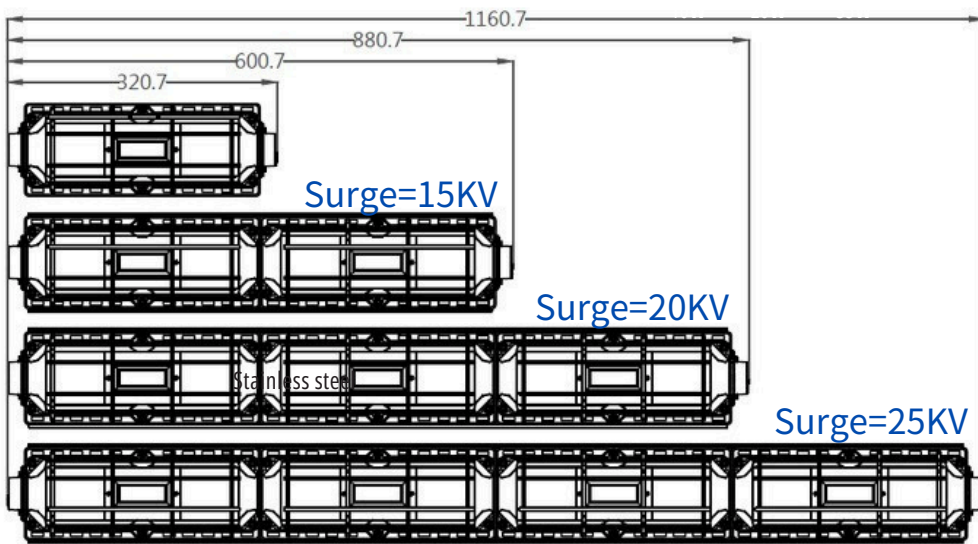


**IP66**

**IP68**

# Technical Info

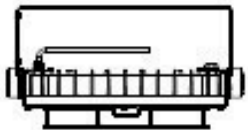
## DIMENSION



**IP66**

with wire guards, Unit: mm

## CONFIGURATION



35W / 20W / 10W



70W / 40W / 20W



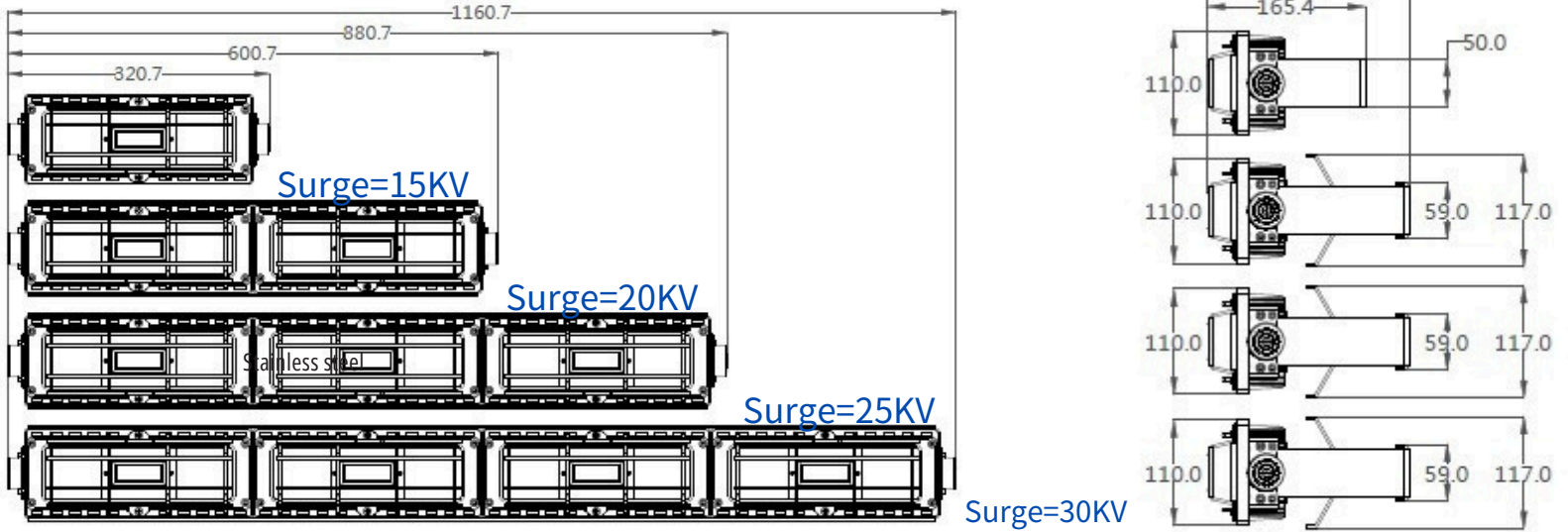
105W / 60W / 30W



140W / 80W / 40W

# Technical Info

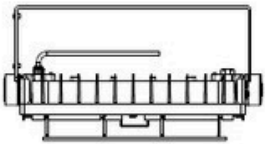
## DIMENSION



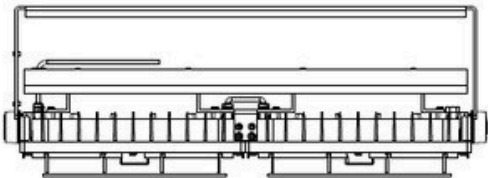
**IP68**

with wire guards, Unit: mm

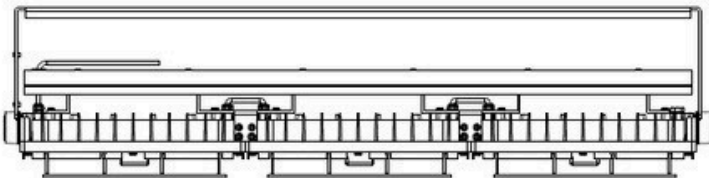
## CONFIGURATION



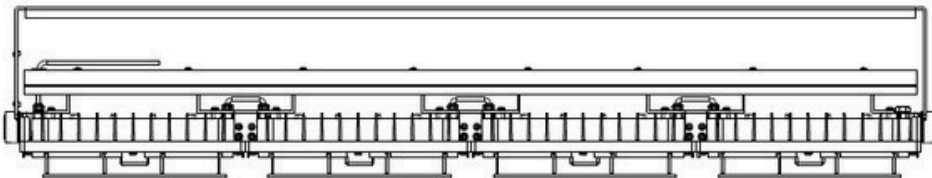
35W / 20W / 10W



70W / 40W / 20W



105W / 60W / 30W



140W / 80W / 40W

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