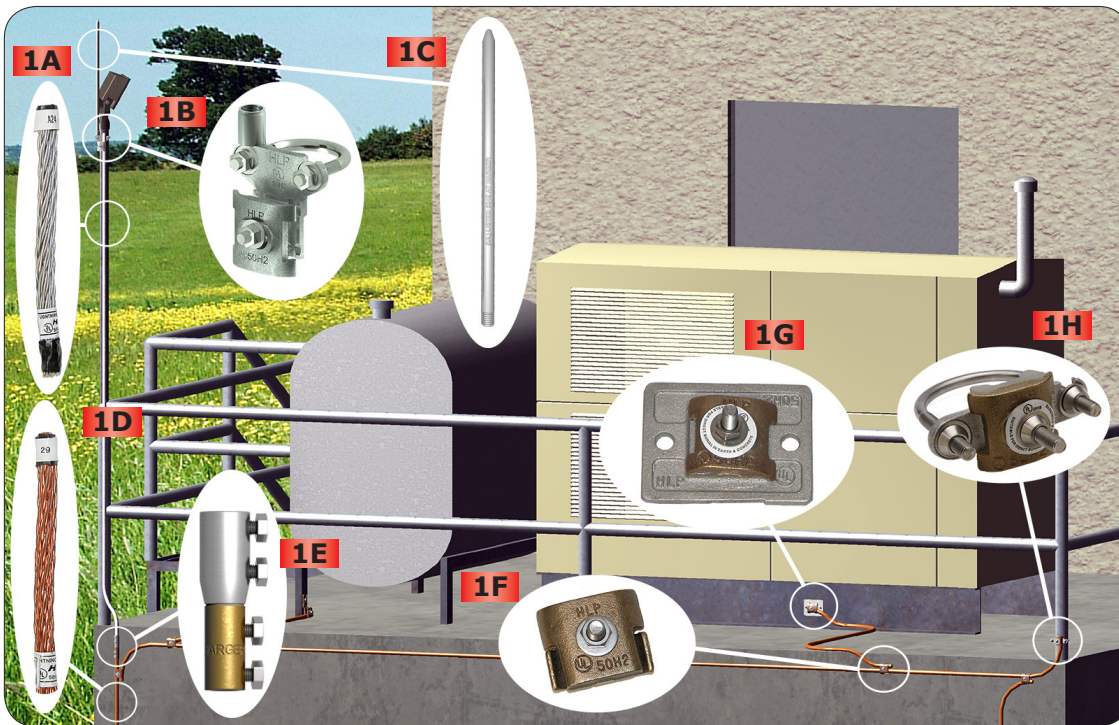


# Wastewater Treatment Facilities



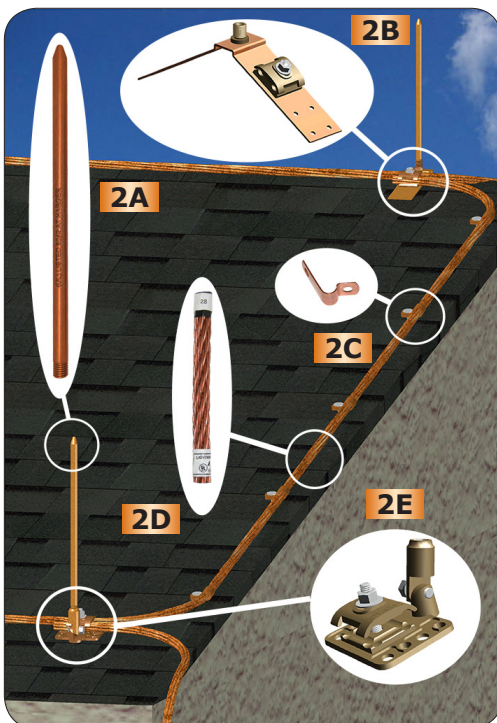
**HARGER<sup>®</sup>**  
grounding • exothermic • lightning protection





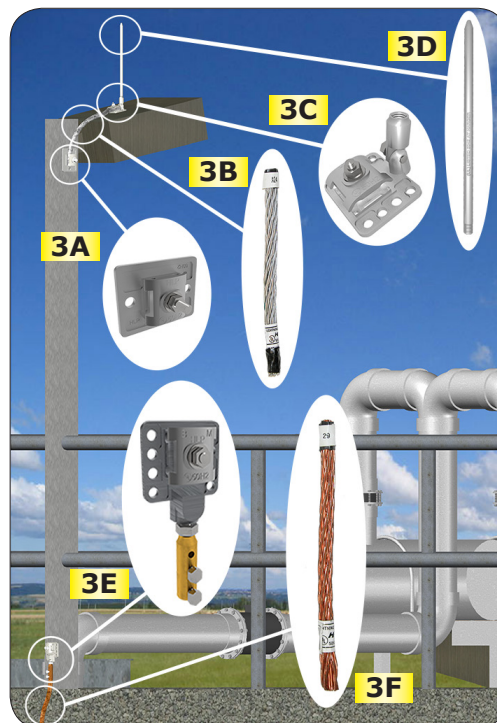
**1**

- 1A. Aluminum LP Conductor
- 1B. Aluminum Pipe Railing Base
- 1C. Aluminum Air Terminal
- 1D. Copper Ground Conductor
- 1E. Bi-Metal Cable Connector
- 1F. Bronze One Bolt Cable Connector
- 1G. Tinned Bronze Bonding Plate
- 1H. CPC Series Pipe Clamp



**2**

- 2A. Copper Air Terminal
- 2B. Copper Ridge Saddle Base
- 2C. Copper Cable Clip
- 2D. Copper LP Conductor
- 2E. Copper Swivel Air Terminal Base

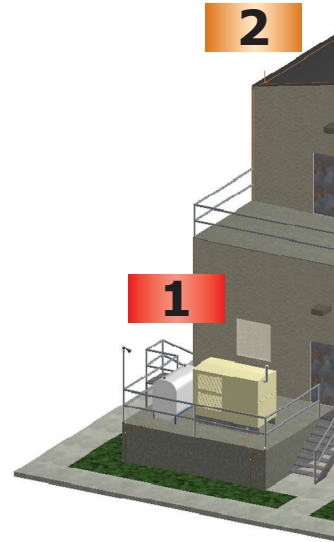


**3**

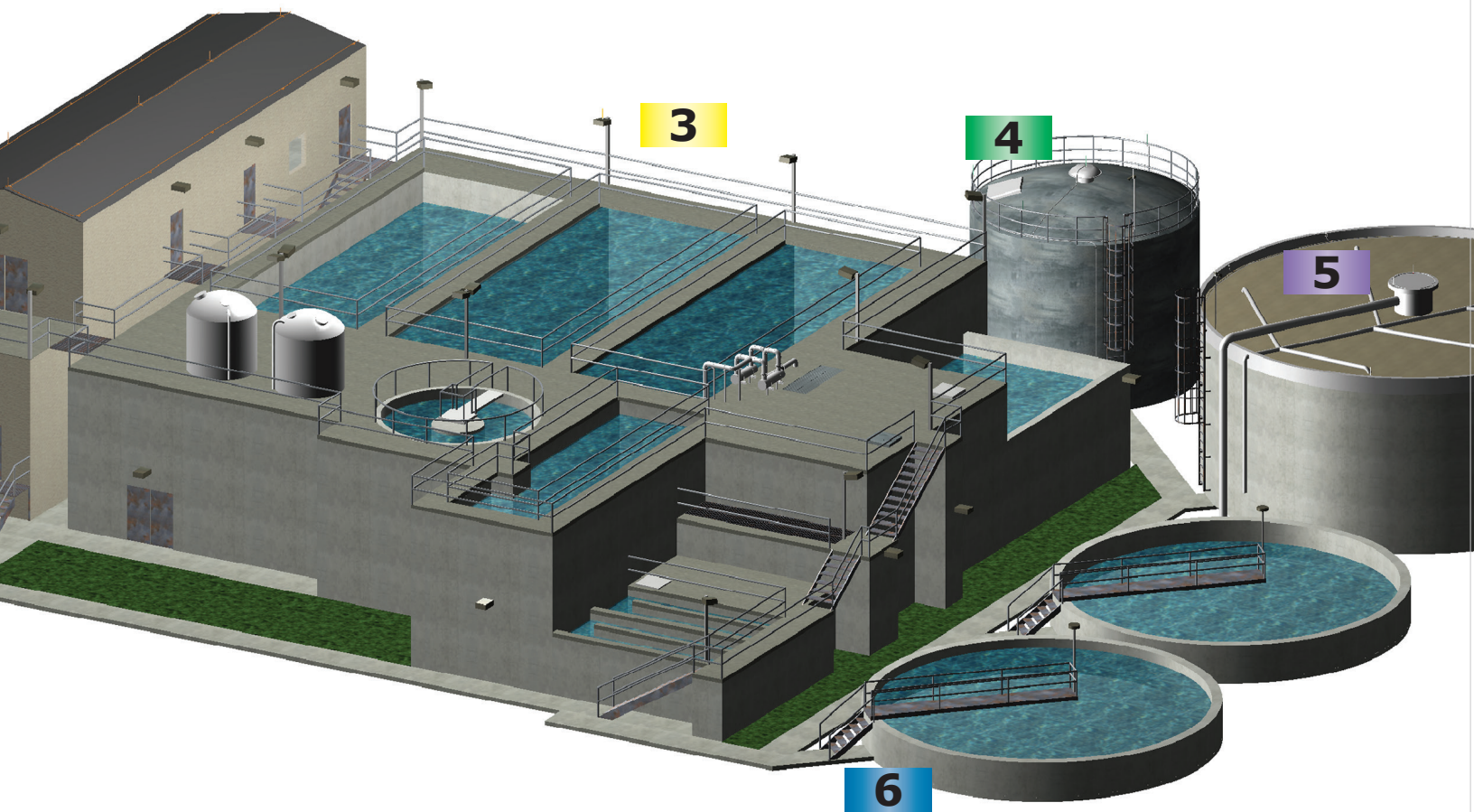
- 3A. Aluminum Bonding Plate
- 3B. Aluminum LP Conductor
- 3C. Aluminum Swivel Air Terminal Base
- 3D. Aluminum Air Terminal
- 3E. Bi-Metal Bonding Plate
- 3F. Copper Grounding Conductor

**2**

**1**

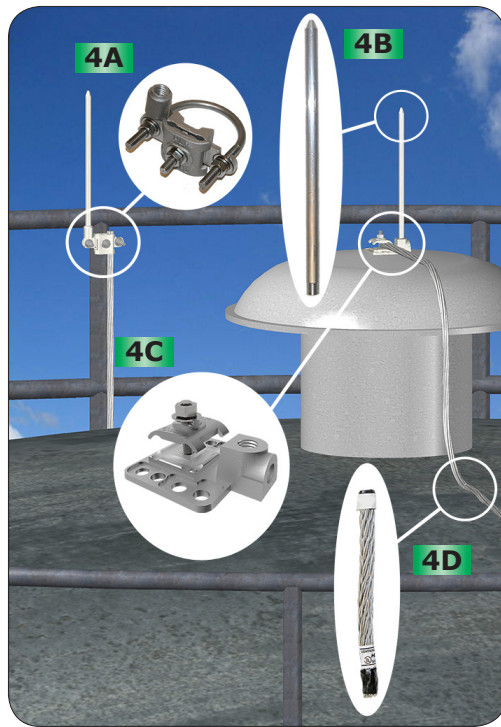


Harger provides a complete line of grounding, bonding and lightning protection products for wastewater treatment facilities.

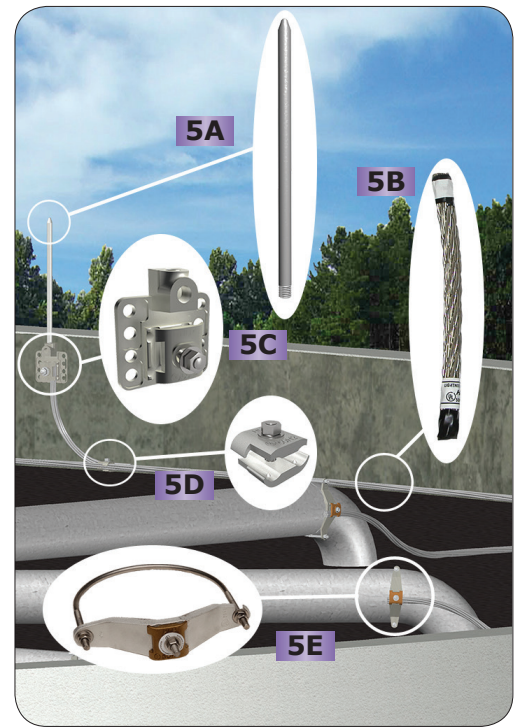


Harger's industry leading technical support team can design solutions for your wastewater treatment facilities' lightning protection and grounding requirements.

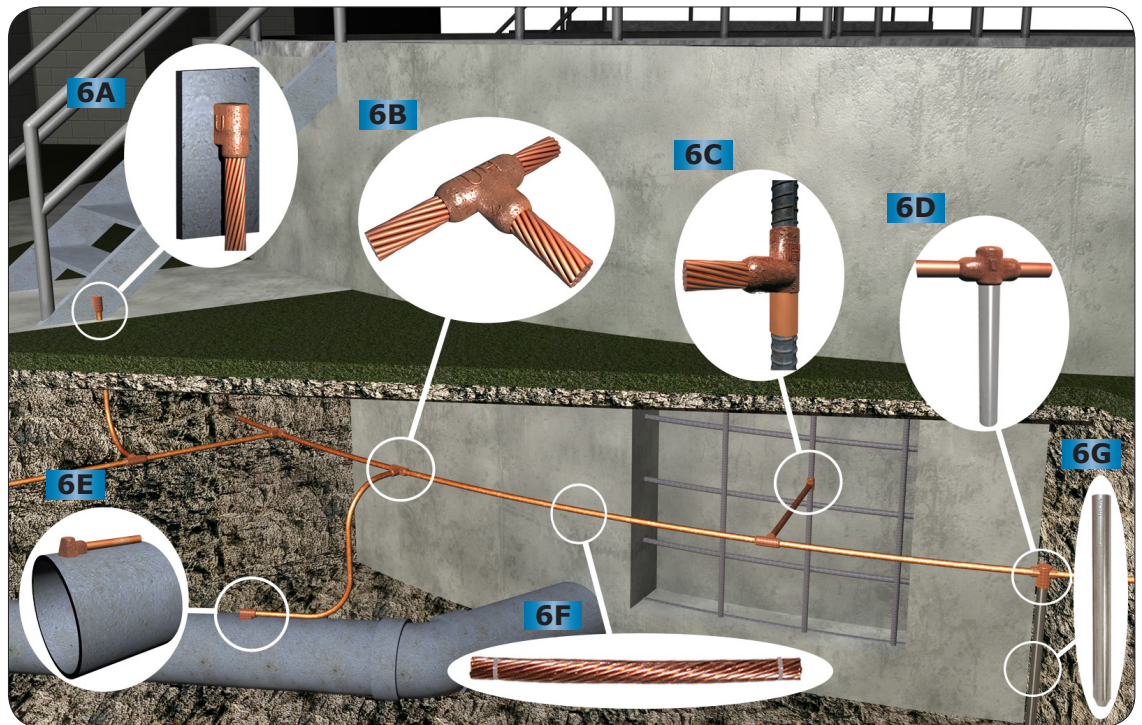




- 4** 4A. Aluminum Pipe Railing Base  
 4B. Aluminum Air Terminal  
 4C. Aluminum Universal Base  
 4D. Aluminum LP Conductor



- 5** 5A. Tinned Air Terminal  
 5B. Tinned LP Conductor  
 5C. Tinned Universal Base  
 5D. Tinned One Bolt Cable Connector  
 5E. CPC Series Pipe Clamp



- 6** 6A. VD Ultraweld Connection  
 6B. RT Ultraweld Connection  
 6C. RE Ultraweld Connection  
 6D. GO Ultraweld Connection  
 6E. HD Pipe Ultraweld Connection  
 6F. Copper Ground Conductor  
 6G. Stainless Steel Ground Rod



# Exothermic Connections

Properly installed exothermic connections are essential to the grid integrity and system reliability for the life of the substation, as well as ensuring safe conditions for workers and the general public.

Harger offers two systems for making exothermic connections, UltraShot® & NUWTube®.

## ULTRAWELD ULTRASHOT®

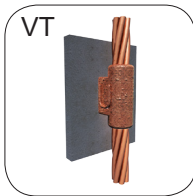
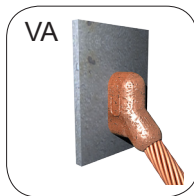
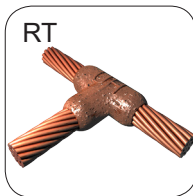
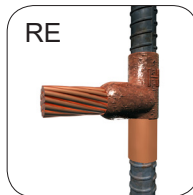
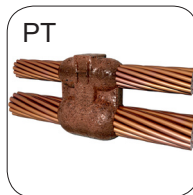
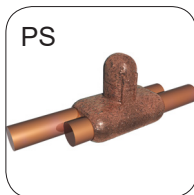
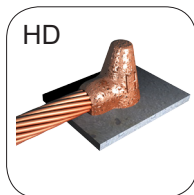
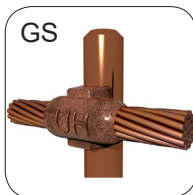
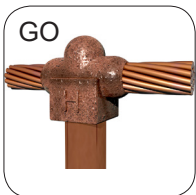


- The Drone, Harger's patented handheld electronic ignition system with audible ignition alert produces a high quality connection while eliminating issues associated with starting powder. Eliminating the use of starting powder drastically reduces emissions and extends mold life.
- The Drone uses a Milwaukee® M18™ REDLITHIUM™ 18 volt battery with built-in fuel gauge and makes over 1,300 connections on a single charge.
- The system provides superior safety by allowing the user to maintain a safe distance from the reaction during ignition.
- Reduces labor and material costs due to misfires.

## ULTRAWELD nuw TUBE®



- Uses the traditional method of ignition with starting powder.
- Innovative dual chamber design keeps weld metal and starting powder separate until point of use.
- Reduces material and labor costs by eliminating migrating starting powder issues.







***Your Ultimate Source  
for Engineered Solutions***



**Harger Lightning & Grounding**

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