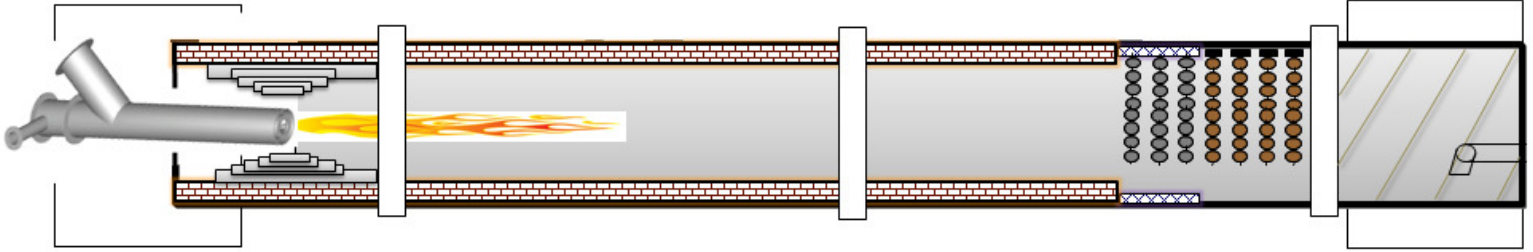


**Turbulent DIFFUSION Technology** has specially designed a chain system solution customizable for each kiln installation. Included in each installation is the shroud, spirals, insulator plates, carbon steel chain, and stainless steel chain. **Turbulent DIFFUSION Technology's** chain solution is precisely matched to **guarantee** a minimum of **10% specific fuel cost savings** when purchased with one of our kiln burner solutions. With a **Turbulent DIFFUSION Technology** chain system solution, customers can also expect less product build up, reduced backend temperatures, and reduced dust loss.



### Features of the chain system include:

- ◇ Flights in the spiral section designed to prevent dust loss and properly distribute product in the kiln
- ◇ Specifically designed chain density to maximize production capabilities
- ◇ Double hung chains to maximize heat transfer to the product
- ◇ Chain hangers attached to the kiln shell to distribute stress of the kiln rotation along the length of the welds
- ◇ Insulating wool backing and heat sink on every hanger in the stainless steel section, reducing heat loss to the shell of the kiln
- ◇ Chains are secured using shackles and bolts with welded nuts for maximum security

### Chain Component

#### Carbon Steel

The carbon steel section is comprised of 3" by 3/4" carbon steel round chain. Each length of chain is 80% of the kiln ID and is double hung off a 3" x 1" x 4" high carbon steel block hanger with a 1/8" chamfer for ease of welding.

#### Stainless Steel

The stainless steel section is comprised of 3" by 3/4" stainless steel round chain. Each length of chain is double hung off a uniquely designed carbon steel hanger. The hanger is welded prepped with a 1/8" chamfer for ease of welding. Each hanger includes a 1" thick carbon steel plate over a section of thermal lining to minimize heat transfer to the kiln shell. This section also includes a run out section to prevent damage of refractory closest to the chain section.

#### Feed Section

The shroud and spiral sections are custom designed and matched to reduce dust losses from within the kiln.

#### Installation

Turbulent Diffusion Technology staff supervises the installation of every chain solution. This includes supply of the layout templates for each component and meticulous inspection of every weld to ensure the most rigorous standards of strength and durability.

[www.turbulentdiffusion.ca](http://www.turbulentdiffusion.ca)

