

POWER AND DISTRIBUTION  
**TRANSFORMERS**

# KUMKANG, WE ARE A SUPPORTIVE BUSINESS PARTNER TO OUR CUSTOMERS

## CONTENTS

- © Power and Distribution transformer
- © Kumkang Transformer
- © Design for Transformers
- © Winding
- © Core and Coil Assembly
- © Tanking
- © Testing

# Power and Distribution Transformers


Giving the best after-service, make great experiences, manufacture durable and efficiency transformers. Those are values that we passionately pursue.

We, Kumkang Transformer Co., manufacture high-quality power and distribution transformers up to 50MVA and 69kV high voltage. Kumkang transformer follows the international standard with customer's requirement.

**KumKang Transformer is going to give you the best satisfaction.**







Company Info.

HEAD OFFICE: 214, Madogongdanro-1gil, Mado-myeon, Hwaseong-si,  
Gyeonggi-do, Republic of Korea

ESTABLISHED: 1st, May, 2003

EMPLOYEE: 30 people

FACTORY SIZE

WHOLE SIZE : 12,200.3m<sup>2</sup>

MANUFACTURING FACILITY : 6,728.8m<sup>2</sup>

PRODUCT RANGE

KEPCO: Amorphous, Anti-pollution, Salt-resistance, High-efficiency,

PAD MOUNTED Transformers

Domestic and Overseas market: Power Transformers, Three/Single-  
Phase Distribution Transformers, PAD mounted Transformers



# Kumkang Transformer

We make trustworthy products.





## Production Range

Based on the customers' requirement, Power transformers, distribution transformers, Pad mounted transformers, Pole transformers are distinguished with capacities and using purpose.

Production range of Kumkang covers 50MVA and 69kV high voltage. Kumkang Transformer is always giving you the best quality of our products.

### Transformer Type

#### Power and Distribution transformers

- ✘ Power Transformers manufactured up to 69kV / 50MVA
- ✘ Using for high voltage such as sub-stations
- ✘ Standard IEC, JEC, ANSI, etc
- ✘ Cooling Method: ONAN, ONAF, KNAN, KNAF
- ✘ Frequency: 50Hz, 60Hz

### Range of Production

#### PAD mounted transformers

- ✘ PAD Mounted Transformers manufactured up to 34.5kV / 5MVA
- ✘ Using for Golf field, Inside of buildings
- ✘ Standard IEC, JEC, ANSI, etc
- ✘ Frequency: 50Hz, 60Hz

#### Pole type transformers

- ✘ Pole type Transformers manufactured up to 34.5kV / 333kVA
- ✘ Using for Pole and distribution
- ✘ Standard IEC, JEC, ANSI, etc
- ✘ Frequency: 50Hz, 60Hz
- ✘ Oil type: Mineral Oil, FR-3(Eco-friendly)



Distribution Transformer



Pole Transformer



PAD mounted Transformer



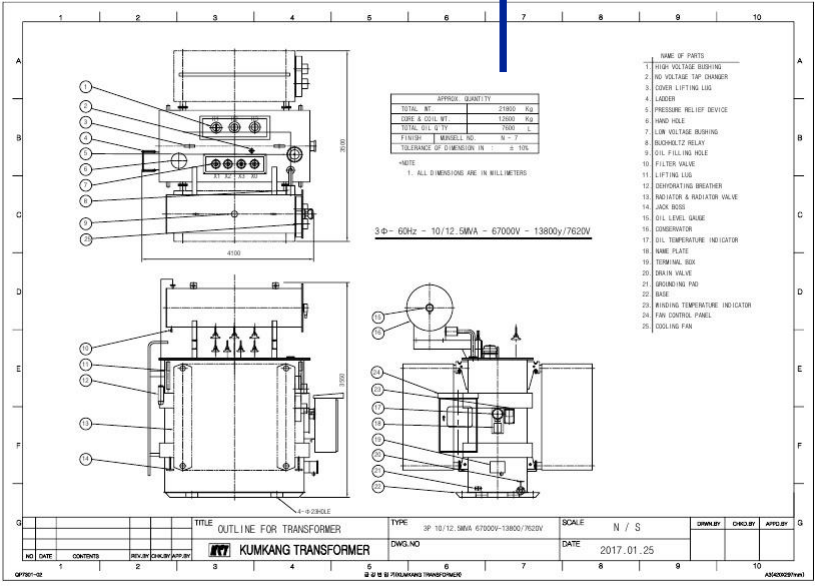
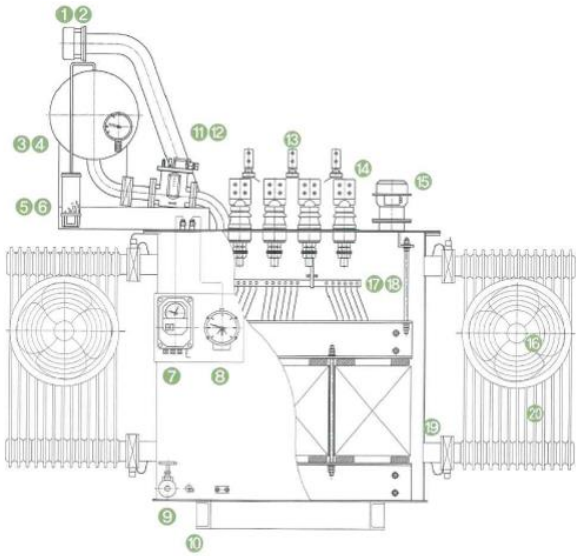
Power Transformer

Designing with durable and cutting-edge technology, Kumkang Transformer always tries to meet customers' requirements and standards.

We always think of it as your position and design. It may prevent any faults in the installation process.

We, Kumkang, have full of experiences in domestic markets and challenging to international markets. Our products are durable, trustworthy, low noise and reasonable price.

Our products are designed to be efficient and enduring products by sophisticated design technicians.



## Winding

The winding of our products is consist of copper or aluminum. In Korea, our customers usually require aluminum windings. Because Aluminum windings are the reasonable price. But, for high-efficiency transformers and overseas markets, we use copper windings which are more expensive but small and durable.



**Copper Conductor**

There are many kinds of using the winding method when we manufacture our products, we adopt the most optimized and suitable method following capacity, voltage and customers' requirements.



**Aluminum Conductor**

Kumkang Transformer's winding technicians always try to take care of all of the errors in a process to make perfect products.



**Teaching junior technician**



**Winding process**



## Core and Coil Assembly



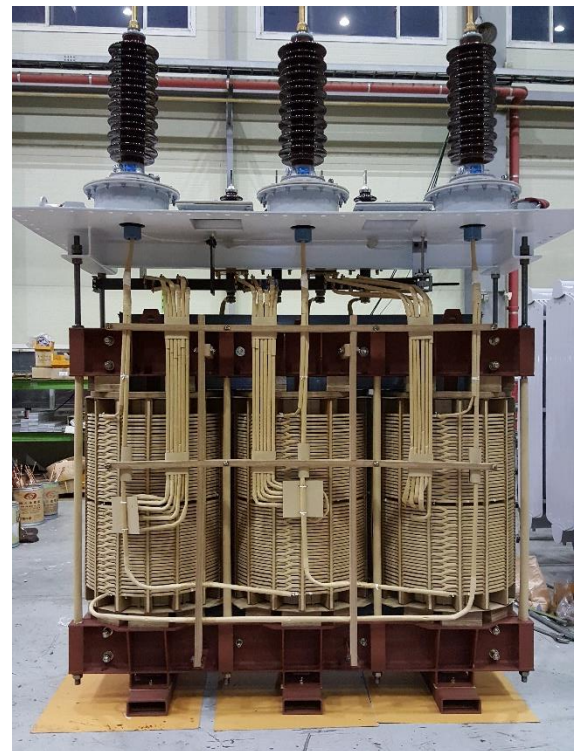
**Coil and Core Assembly**

All of Kumkang transformers have a safe and concentric structure. Our assembly engineers are careful to deal with components during the assembly. Especially, the engineers treat that insulation is the most important thing in the assembly process.

The active parts are firstly assembled core and coil. After the core and coil assembly is finished, it will be dried in the oven to eliminate moisture content. When the drying process is completed, the active parts are connected with the lid before tanking.



**Drying Process**



**Connecting with Lid**

## Tanking

An assembly tank process is one of the last parts in the process of assembly. The active parts must be inserted into the tank in 5 hours after finishing the drying process. Because the moisture in the air may percolate the active parts and it occurs to damage the active parts when it is energized.

Kumkang Transformer assembly engineers are very scrupulous about tanking, because, it may make leaking oil from the tank. A tank assembly process must be double-checked.



**Insert the active parts**





Kumkang Transformer, our electric technicians are highly trained to test transformers. The laboratory of Kumkang is able to test up to 50MVA and 69kV. We give you exact values and perfect products for making customers' satisfaction.

According to customers' requirements, we do routine tests following ANSI, IEC, JEC and so on.

**Testing with customer**



**Power transformer testing**



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