

# SPRING WASHERS

  
**KHANWALKAR**  
**INDUSTRIES**  
ISO 9001:2008 Certified Company

## The soul of perfect assembly

Khanwalkar Industries is an ISO 9001:2008 certified company, professionally managed and engaged in the efficient production of high quality 'CARBON' brand Spring washers.

In order to attain perfect quality, company always follow International Quality Standards and make sure that products meet the customer's requirement. The manufacturing unit is well equipped with automatic production machines, Electroplating line and all necessary testing facilities including computerized system for metallurgical analysis like grain structure, decarb, coating thickness.

Being an ISO 9001:2008 certified company, strict quality control program is followed to ensure that the goods and services are of acceptable quality.



**CARBON®**  
SPRING WASHERS



### SPRING WASHERS

Spring Washers are widely used in transmission towers erection, Railways, Automobiles and in other engineering applications where locking action is required against rotation of the screw of bolted assemblies.

Spring Washers are made out of best quality spring steel (En-42 Series) according to IS:4072. Washers are produced on automatic machines within close tolerance. Under strict quality control and careful processing, excellent functional properties are obtained. Washers are tested as per IS:3063 and other relevant standards. Spring Washers are available in the size range from 2.5 mm. to 30 mm. in flat sections and 1/8" to 1 1/2" in rectangular cross section of wire. The washers can be produced as per the specification given in any other standard against specific requirement.

### SPECIAL COMBI-SIZE WASHERS

In the latest assembly technique, bolts with plane washer and spring washer in combination are used to reduce handling and sub assembling time of individual parts. In these methods bolt is put to threading after inserting spring washer so that it does not

come out. The Internal Diameter is little less than that of prescribed in the standards. Khanwalkar Industries has gained expertise in manufacturing these washers generally referred as "COMBI WASHER".

### APPLICATIONS AND USE

The Spring Washers are widely used in Auto Industries, Electrical, Light and Heavy Engineering Industries.

#### Auto Industries

Passenger Cars, Trucks, Buses, Tractors, Earth Movers and Earth Moving Equipments, Motorcycles, Mopeds and Automobile Fitments etc.

#### Electrical/Electronic Industries

Electrical Motors, Pumps, Starters, Switches, Heavy Switchgears, Circuit Breakers, Transformers, Distribution Boards, Heavy Electricals, Fans, Appliances, Meters, Transmission Line Equipments, Towers etc.

#### Heavy Machines

Transport undertaking, Railways, Defence, Textile, Airlines and General Machineries etc.

### TECHNICAL

MATERIAL : Medium Carbon Steel  
EN-42 as per IS:4072  
TYPE - A : (with bent / spur ends)  
TYPE - B : (with flat ends) as per ISS & BSS, DIN, JIS  
FINISH : Natural black, Zinc Plated in Blue, Yellow & Green Finish.  
STANDARD : IS:3063, IS:6735, BS:1802, DIN-7980, DIN-267 Part 26, JIS, MMC  
SIZES : M-2.5 to M-30 and 1/8" to 1 1/2" in Flat & Square section

  
**KHANWALKAR**  
**INDUSTRIES**

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