

## "CARBON" Brand Rotary unions for Machine tools application.



"CARBON" offers innovative rotary unions designs specialized for machine tools manufacturers. With world wide growth of Automation; "CARBON " understands the challenges faced by the next generation machine tools equipment designers.

### Suitable for following machinery:-

Horizontal, Vertical, Multi-Axis, Transfer Line, Grinding, Spindles, Drilling, Rotary indexing tables, Turning, Gun Drilling, etc...

### Applications:-

Clamping & De-clamping, Chucking, Through coolant, High speed spindle cooling etc...



Increase tools &  
spindle life

Reduce tool  
wear

Prevent over  
heating

High pressure with  
high speed.

Suitable for  
Dry operation.

## **"CARBON" Brand '104' series Rotary Unions Open Loop Seal Technology for Coolant Service with Dry Running.**

### **OPERATING DATA :**

Max. Hydraulic Pressure: 150 bar. / Max. Air pressure : 20 bar.

Max. Coolant Pressure: 80 bar

Max. Speed : 15,000 RPM

Max. Temp. 100 deg.c.

### **FEATURES:**

- Self supported rotary Union for coolant & other fluid/ oil mist.
- Mono flow design
- Compact carbide balanced mechanical seal for long life even under difficult operating conditions
- In-built with ABEC7 highly precision angular contact bearings.
- Labyrinth system and large vents to protect ball bearings
- Stainless steel rotor
- Hard anodized Aluminum alloy housing & end elbow.

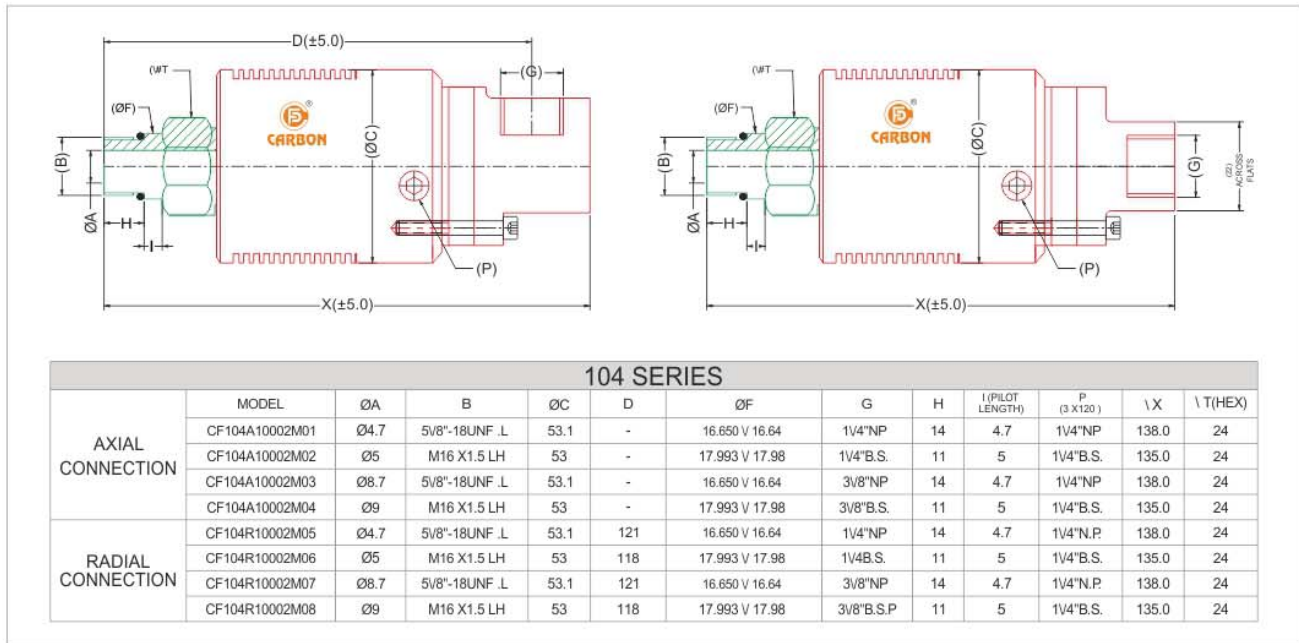
### **Directly interchangeable with any brand of OEM self supported rotary union**

"CARBON" BRAND '104' Series solves the problem of dry running at high speeds without coolant pressure, the seals are separated eliminating friction and wear.

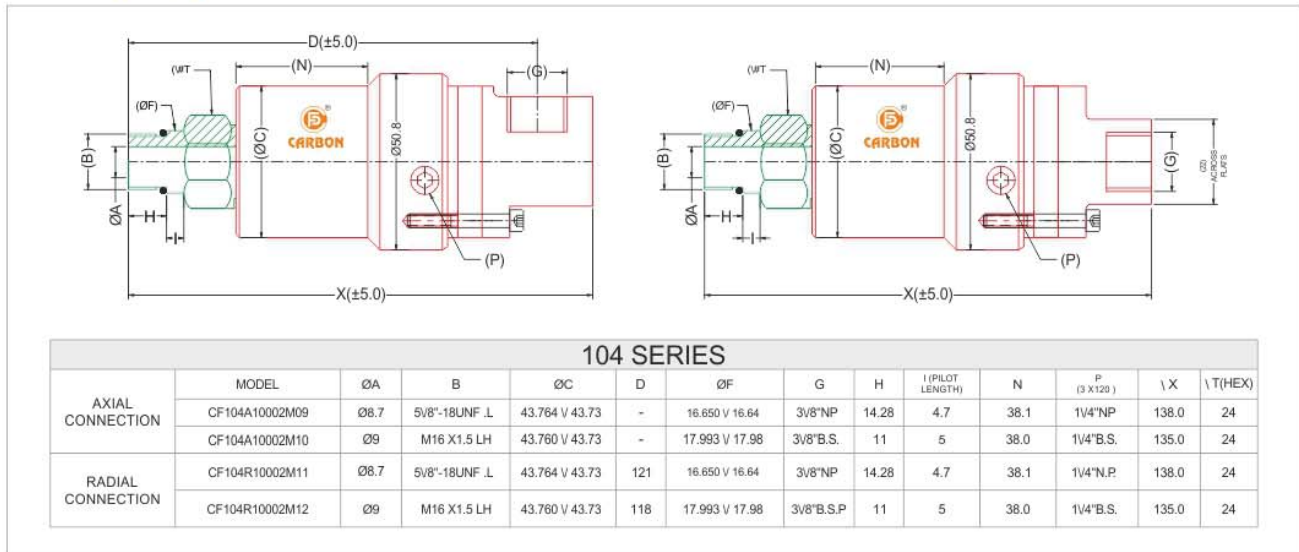
**Warning :** Do not run dry with pressure



## Model (1-8)



## Model (9-12)



All dimensions are in mm  
 Drawing above 2" Rotary Union available on request  
 Operation at maximum pressure combined with maximum speed should be avoided  
 If operational condition are marginal consult out engineering department  
 #X-Monoflow Length Rotary Union  
 #T-Flat Wrench



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