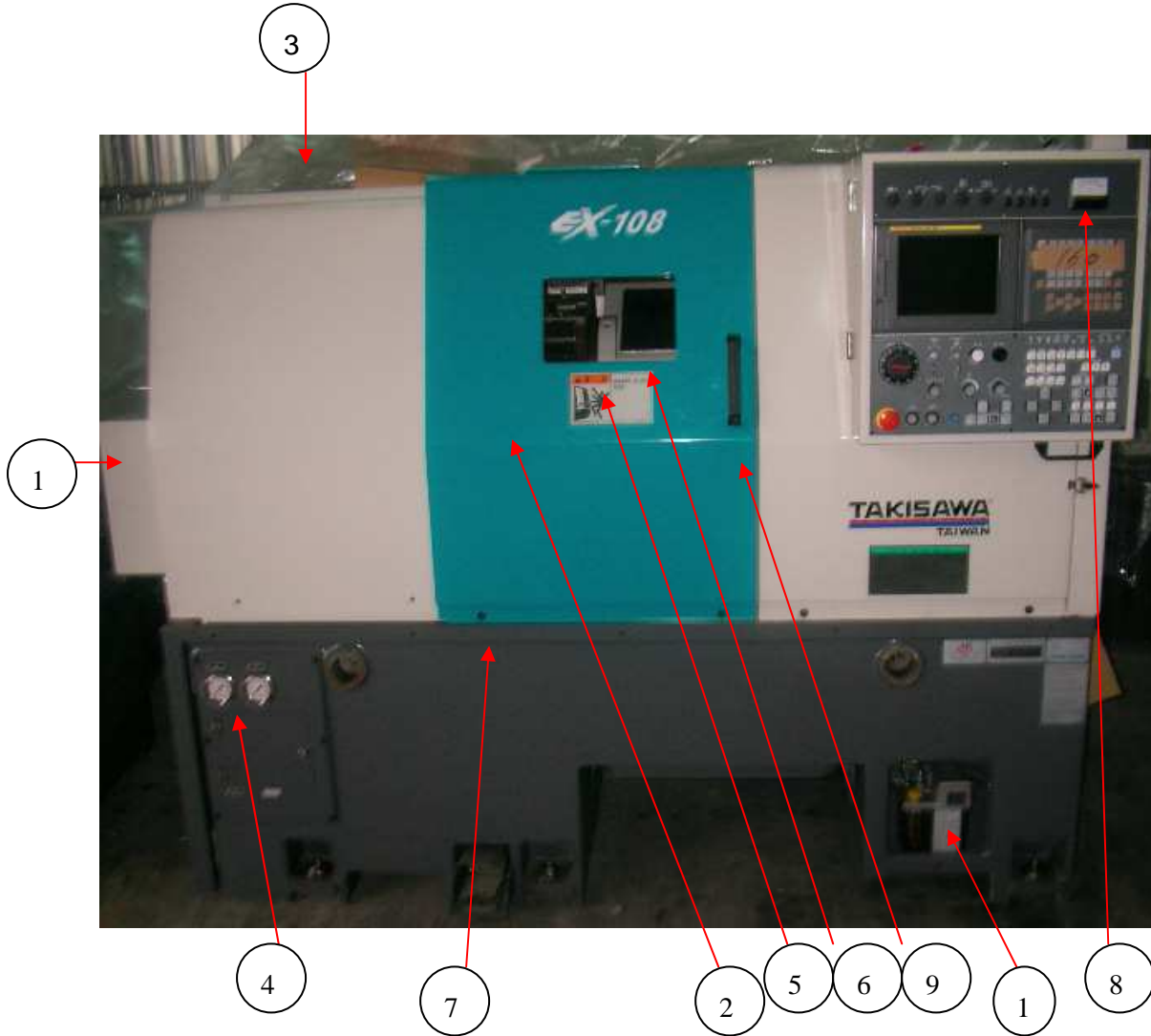


## Illustration of Maintenance EX-series machine



### 1. Check the operation of the lubrication pump



Fill up oil and keep lubrication volume

## 2. Inject grease into hydraulic chuck



Inject grease then assure 3 jaws as tighten

## 3. Check the ventilated fans located on the upper control box in rotation.



Assure the fans to rotate

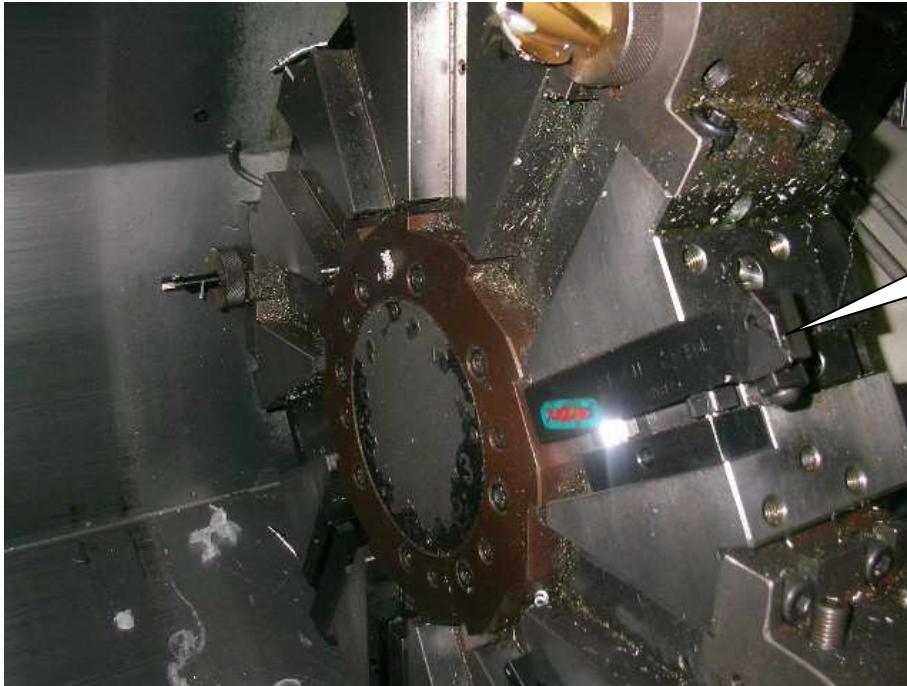
## 4. Check the pressure of hydraulic indicator.



1. Assure the switch at main pressure.

2. Assure the pressure at 2.94MPa (30kgf/cm<sup>2</sup>) of

5. Check boring bar tool are adequately mounted and then check tip is mounted at boring bar holder.



Assure the tool was fixed

6. Check each tool holder is adequately mounted.



Check screw of holder was fixed.

7. Check the vibration of machine automatic operation. Check if abnormal vibration by hand.

8. Check the loading condition of main motor



Check loading  
is normal

9. Listen the sound and vibration of spindle. Then check if having” Yi ” prolonged sound when cutting.

10. Hydraulic cylinder’s filter cleaning.



Disassembly  
cover then clean  
inside chip

11. Don’ t move chips or coolant with air gun. It must be use hairbrush.

12. Clean inside and outside of machine by wiper.