

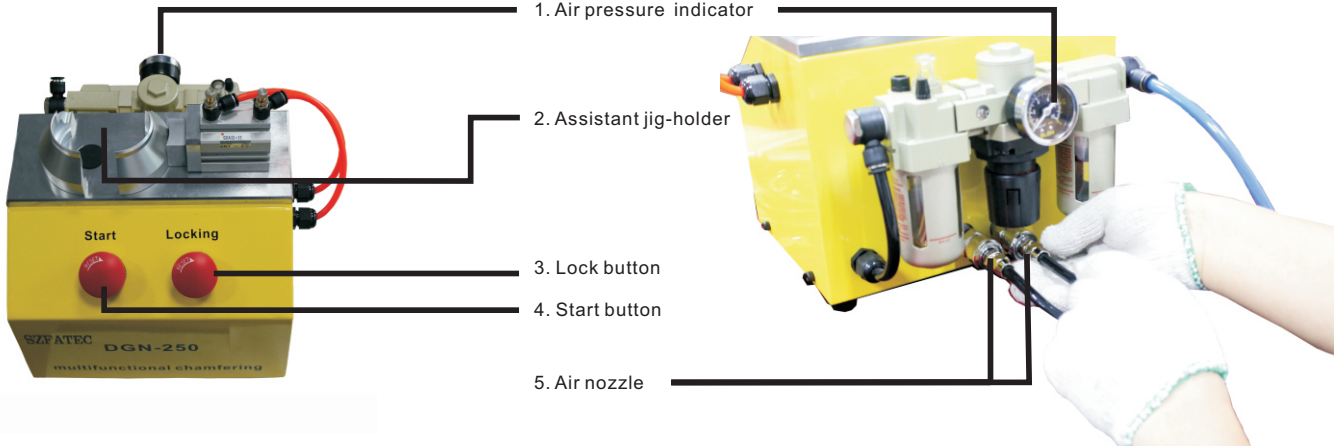
# **USER MANUAL**

**SZFATEC DNG-250,  
FA-150 and CR-100**

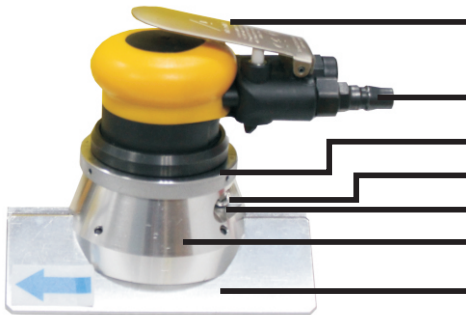
**MULTI-FUNCTION CHAMFER MACHINES**

## Main parts description

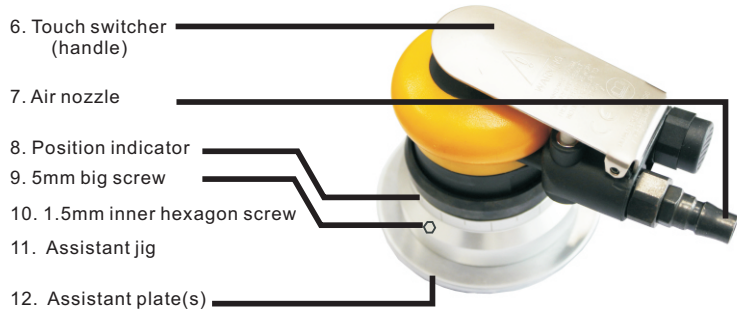
### DNG-250 multi-function worktable



### FA-150 chamfer for straight



### CR-100 chamfer for round/corner



## How to use FA-150?

### Way-1: Use FA-150 directly operation steps

1. Connect the air compressor and FA-150 chamfer directly with the supplied tubes;
2. Please make sure the air pressure is more than 5kgs (in the air pressure, there should be an indicator/pointer to tell you the current pressure);
3. Make sure the expected depth/position on the metal or wood which will be chamfered;
4. Press the touch-switcher (handle) of FA-150, and hold the handle firmly to start chamfering.



### Way-2: Use DNG-250 and FA-150 together for easier operation steps

1. Connect the air compressor and DNG-250 multi-function unit with the supplied tubes;
2. Please make sure the air pressure is more than 5kgs (in the air pressure, there should be an indicator/pointer to tell you the current pressure);
3. Make sure the expected depth/position on the metal or wood which will be chamfered;
4. Press the Lock button to fix FA-100 chamfer jig, and hold the object firmly;
5. Press the Start button of DNG-250 to start chamfering.



(1) Try and measure the expected depth



(2) Lock the chamfer jigs.



(3) Hold the object firmly



(4) Press Start to chamfer

## How to use RC-100?

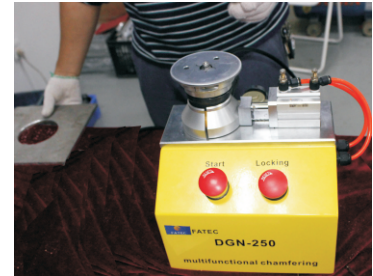
### Way-1: Use RC-100 directly operation steps

1. Connect the air compressor and RC-100 chamfer directly with the supplied tubes;
2. Please make sure the air pressure is more than 5kgs (in the air pressure, there should be an indicator/pointer to tell you the current pressure);
3. Make sure the expected depth/position on the metal or wood which will be chamfered;
4. Press the touch-switcher (handle) of RC-100 and hold the handle firmly to start chamfering.



### Way-2: Use DNG-250 and RC-100 together for easier operation steps

1. Connect the air compressor and DNG-250 multi-function unit with the supplied tubes;
2. Please make sure the air pressure is more than 5kgs (in the air pressure, there should be an indicator/pointer to tell you the current pressure);
3. Make sure the expected depth/position on the metal or wood which will be chamfered;
4. Press the Lock button to fix the RC-100 chamfer jig, and hold the object firmly;
5. Press the Start button of DNG-250 to start chamfering.



**How to adjust FA150 chamfering depth:**

1. Use the supplied 5mm inner hexagon spanner to LOOSEN the big screw in the assistant jig;
2. Use the supplied 1.5mm inner hexagon spanner to TIGHTEN the inner screw inside the assistant jig;
3. then the chamfer loosens, you can turn the indicator ring and adjust the up-down position of the blades.



Step.1-2



Step.3 (ref as CR-100)

**Continues - How to replace FA150 blades:**

4. Take off the assistant plates together from the assistant jig (handle);
5. Use the supplied T-20 spanner to loosen the 3 screws in the blades base;
6. Then you can replace new blades.

**Continues - How to re-install the blade and the assistant plates:**

Basically we just revert the above steps.

1. Use the supplied T-20 spanner to tighten the blades;
2. Joint the blade base into the assistant jig (handle);
3. Adjust the depth by turning the indicator and mark the positioning to remember;
4. Use the supplied 1.5mm inner hexagon spanner to LOOSEN the inner screw inside the assistant jig;
5. Use the supplied 5mm inner hexagon spanner to TIGHTEN the big screw in the assistant jig;
6. Again use the supplied 1.5mm inner hexagon spanner to TIGHTEN the inner screw inside the assistant jig.



Step.4



Step.5-6 (T-20 spanner)

**How to adjust CR-100 chamfering depth:**

1. Use the supplied 5mm inner hexagon spanner to LOOSEN the big screw in the assistant jig;
2. Then the chamfer loosens, you can turn the indicator ring and adjust the up-down position of the blades.

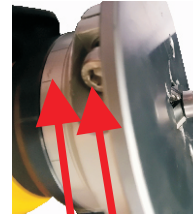
**Continues - How to replace CR-100 blades:**

3. Take off the round assistant plates from the assistant jig (handle);
4. Use the supplied T-8 spanner to loosen the 3 screws in the blade base;
5. Then you can replace new blades.

**Continues - How to re-install the blade and the assistant plates:**

Basically we just reverse the above steps.

1. Use the supplied T-8 spanner to tighten the blades;
2. Joint the blade base into the assistant jig (handle);
3. Adjust the depth by turning the indicator and mark the positioning to remember;
4. Use the supplied 5mm inner hexagon spanner to TIGHTEN the big screw in the assistant jig.



Turn the indicator ring and adjust the up-down position of the blades.



Take off /re-join the round assistant plates from/into the assistant jig (handle)

Use 5mm inner hexagon spanner to loosen/tighten the big screw in the assistant jig



Use the supplied T-8 spanner to loosen the 3 screws in the blades base

## **FA-150 technical data**

Brand: SZFATEC  
Product: Pneumatic edge chamfering machine (for straight edges)  
Model: FA-150  
Application range: Metalworking industry

### **Main parameters**

Blade quantity: 3 pieces (originally attached)

Machine size: W205 x D101 x H119 mm

Worktable diameter: 150mm

Applicable blade type: SDMW or SDEW

Weight: 2.0 kgs / 4.41 lbs

Chamfering capability: Soft iron: 0C-5C-2R,3R,4R ; Stainless steel: 0C-4C-2R,3R,4R

Adjustable chamfer angle (max): 45°

Working air pressure: 0.59-0.6MPA(kgf/cm<sup>2</sup>)

Used amount of air: 0.9 cube

Revolutions per minute (without loading): 13000RPM

Chamfering accuracy: Super grade

Chamfered materials: soft iron, stainless steel

Supplied accessories: 1.5mm and 5mm inner hexagon spanners; T-20 spanner

Tips: we supply the 3-blade attached originally in the unit; once you need to replace due to damaged, please contact and order from us.

## CR-100 technical data

Brand: SZFATEC  
Product: Pneumatic edge chamfering machine (for round angel/corner)  
Model: CR-100  
Application range: Metalworking industry

### Main parameters

Blade quantity: 3 pieces (originally attached)

Machine size: W100 X D180 XH90 mm

Worktable diameter: 150mm

Applicable blade type: SDMW or SDEW

Weight: 1.3 kgs / 2.866 lbs

Chamfering capability: Soft iron: 0-3C, 3R; Stainless steel: 0-3C, 3R

Adjustable chamfer angle (max): 45°

Working air pressure: 0.59-0.6MPA(kgf/cm<sup>2</sup>)

Used amount of air: 0.4 cube

Revolutions per minute (without loading): 13000RPM

Chamfering accuracy: Super grade

Chamfered materials: soft iron, stainless steel

Supplied accessories: 5mm inner hexagon spanner; T-8 spanner

Tips: we supply the 3-blade attached originally in the unit; once you need to replace due to damaged, please contact and order from us.

## **Product characters:**

- The curve parts of steel can be chamfered with simple and smooth operations;
- The inner and outer flange areas can be chamfered;
- The attached gauge can adjust the chamfering degree correctly;
- The angle of the bevel can be adjusted in the range of 15°-45° ;
- Chamfering depth adjustment and blade replacement are very easy;
- The working mode is by pneumatic, specially for explosion-proof environment;
- Simple design and easy to operate (small blades); compact appearance and light weight
- No gear used to change the working speed, single contact switch, quick response;
- High torque output and no vibration;
- Max chamfering degree could be C4.

## **Scope of application:**

- Edge-chamfering for plate edge, circular arc, holes in steel, edge of pipe, curves and so on;
- Chamfering for stainless steel materials, carbon steel, alloy steel, aluminum alloy and high-hardness plastic;
- Shipbuilding, pressure vessel, aerospace, offshore platform, nuclear power construction and so on.