



领航·机器人末端  
End Of Arm Tools



# Constant Force Floating Grinding Tool

Accurate Efficient Flexible Automatic

## Constant Force Floating Grinding Tool

Comply with the products shape, eliminate workpiece tolerance, provide a safe, fast, accurate deburring solution

LT constant force Floating Material Removal tool is an efficient and flexible automatically deburring tool, Equipped with powerful electric motor, it can quickly and automatically remove burrs, seams and edge-breaking of various materials. Applied in multi-process, cast iron, steel, aluminum alloy, plastic and other material parts. Under the working condition, the floating mechanism and the tool can follow the irregular workpiece burr processing, avoid the damage of the tool and the workpiece, eliminate the workpiece and positioning tolerance, improve the production efficiency and product quality.

### Why LT Grinding Tool

- 

Flexible contact, adjustable rotate speed
- 

Aluminum alloy sheel, light weight design
- 

360° float in Radial and axial
- 

Build-in steel ball to reduce friction and extend service
- 

Durable, dustproof, air leakage-proof contact component
- 

Variety grinding heads can be replaced, meet customized deburring requirement

## LT-FR020A-20-S6000

- ✓ Lightweight design | low noise | exquisitely grinding
- ✓ Position repeatability < 1.0μ m
- ✓ Adjustable floating force between tool and workpiece
- ✓ Flexible contact between cutter and workpiece to avoid over cutting

Standard configuration:

Cable | Controller 1set | Precision pressure regulator 1set

Holder: Φ 3.0mm (CHK-3.0) / Holder nut (K-265)

Spanner (8× 5). (9× 11) each with 1 piece

Scope of use:

- ✓ aluminum alloy, plastic, resin etc
- ✓ Flanging after machining
- ✓ Chamfer below C0.5
- ✓ Seam line

Product Parameters:

Max rotate speed	Spindle torsion	Power	Floating Angle (X,Y)	Radial Floating Angle	Floating Force	Axial Compliance
60000rpm	4-9cN·m	250W	±5°	360°	3.3N-13.6N	4mm



# LT-FRC series | support change tool heads automatically

Perfect solution for multi-process machining of complex parts

## LT-FRC030A-3060

- ☑ 360° Radial floating, adaptive machining all-round deburring
- ☑ Higher efficient in multi-process deburring application
- ☑ Adjustable floating force between tool and workpiece
- ☑ Flexible contact between cutter and workpiece to avoid over cutting

### Standard configuration:

Cable | Controller 1set | Precision pressure regulator 1set

Holder:  $\Phi 6.0\text{mm}$  (CHK-6.0) / Holder nut (K-265)

Alternative Holder:  $\Phi 4.0\text{mm}$  (CHK-4.0) / Holder nut (K-265)

Spanner (12×14) 2 pieces, (22×27) 2 pieces

### Scope of use:

- √ Cast iron, steel, aluminum alloy, plastic, resin etc
- √ Connection part below 2mm    √ Flanging after machining
- √ general burr            √ Chamfer below C2    √ Seamline



## LT-FRC030A-3030T

- ☑ With higher torsion, more powerful
- all the other parameters keep same with LT-FRC030A-3060

### Product Parameters:

Mode No.	LT-FRC030A-3060	LT-FRC030A-3030T
Max rotate speed	60000rpm	30000rpm
Spindle torsion	6-9cN·m	12-18cN·m
Power	350W	350W
Floating Angle(X,Y)	$\pm 5^\circ$	$\pm 5^\circ$
Radial Floating Angle	360°	360°
Axial Compliance	7mm	7mm
Floating Force	7.2N-28.8N	7.2N-28.8N
Automatic tool change	Support	Support

## LT-FR series

Meet variety of deburring requirements

### LT-FR030A-3060

- ☑ 360°Radialfloating, adaptivemachiningall-rounddeburring
- ☑ Position repeatability < 1.0μm
- ☑ eliminate the workpiece tolerance, reduce difficulty of debugging
- ☑ Flexible contact between cutter and workpiece to avoid over cutting

#### Standard configuration:

Cable |Controller 1set| Precisionpressureregulator 1set

Holder: Φ6.0mm (CHK-6.0) / Holder nut (K-265)

Alternative Holder: Φ4.0mm (CHK-4.0) / Holder nut (K-265)

Spanner (12×14)2 pieces, (22×27) 2 pieces

#### Scope of use:

- √ Castiron,steel,aluminumalloy,plastic, resinetc
- √ Connectionpartbelow2mm    √ Flangingaftermachining
- √ generalburr            √ Chamfer belowC2    √ Seamline



### LT-FR030A-3030T

- ☑ With higher torsion, more powerful      ☑ Good at porous deburring, with higher produce efficiency
- ☑ Ceramic bearings are twice as durable as steel bearings all the other parameters keep same with LT-FR030A-3060

#### Product Parameters:

Mode No.	LT-FR030A-3060	LT-FR030A-3030T
Max rotate speed	60000rpm	30000rpm
Spindle torsion	6-9cN·m	12-18cN·m
Power	350W	350W
FloatingAngle(X,Y)	±5°	±5°
RadialFloatingAngle	360°	360°
AxialCompliance	5mm	5mm
FloatingForce	7.2N-28.8N	7.2N-28.8N

## LT-FR040A-NR4040

- ☑ Max Power 1200W, with 5~10times bigger torque than 30series
- ☑ Good at porous deburring, with higher produce efficiency
- ☑ Ceramic bearings are twice as durable as steel bearings
- ☑ Flexible contact between cutter and workpiece to avoid over cutting

Standard configuration:

Cable | Controller 1set | Precision pressure regulator 1set

Holder:  $\Phi 6.0\text{mm}$  (CH16-6.0) / Holder nut (CHN16)

Spanner (17 $\times$ 22) 2pieces | Spanner (36) 2pieces

Scope of use:

√ Cast iron, steel, aluminum alloy, plastic, resin etc

√ Connection part below 4mm

√ Flanging after machining

√ general burr

√ Chamfer below C4

√ Seam line



Product Parameters:

Max rotate speed	Spindle torsion	Power	Floating Angle (X,Y)	Radial Floating Angle	Floating Force	Axial Compliance
20000rpm	50-100cN·m	1200W	$\pm 5^\circ$	360°	18N-71.9N	6.5mm

## LT-FR040B-S4040

- ☑ Position repeatability  $< 1.5\mu\text{m}$
- ☑ Available tools: 1mm-7mm
- ☑ Air cooling + fixture heat dissipation system to ensure normal temperature of machine
- ☑ Positive air pressure dustproof system extend service life

Standard configuration:

Cable | Controller 1set | Precision pressure regulator 1set

Holder:  $\Phi 6.0\text{mm}$  Spanner(12 $\times$ 14) 1piece

Scope of use:

√ Cast iron, steel, aluminum alloy, plastic, resin etc

√ Connection part below 2mm

√ Flanging after machining

√ general burr

√ Chamfer below C2

√ Seam line



Product Parameters:

Max rotate speed	Spindle torsion	Power	Floating Angle (X,Y)	Radial Floating Angle	Floating Force	Axial Compliance
20000rpm	Max 60cN·m	400W	$\pm 5^\circ$	360°	7.2N-28.8N	6.5mm

# SALES NETWORK



## Technical support:

- ① Provide 3D models of products; Customized services for special working conditions; Preliminary selection and scheme design; Provide teaching pendant for quick debugging;



## Quick response:

- ① Provide 7days x24 hours of technical support services; 12 service outlets nationwide; Give a response plan within 2 hours, and deal with problems on site within 24 hours; Set up an emergency spare parts warehouse at the customer's location

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