

## LONGKOU BLUETOOTH NC EQUIPMENT CO.,LTD.

[www.bluetooth-cnc.com](http://www.bluetooth-cnc.com)

Longkou Bluetooth NC Equipment Co.,Ltd is a CNC precision machine tools company, focus on : milling with turning multi function series CNC machines ,bits automation CNC machines ,gear hobbing and turning CNC machine, manufacturing solution and service providing ,ect.

Establish in 1994 ,company merges the best thinking and the best ideas in a solution that works best for our customers and has been helping our customers succeed.

By representing industry and technology pioneers , Longkou Bluetooth NC Equipment Co.,Ltd offers the leading technology required to customized solutions and able to design and customized business solutions that maximize technology ,efficiency, productivity, and manufacturing.

Proud of our Bluetooth Control and a complete range of machines under supervision of Germany company , Longkou Bluetooth NC Equipment Co.,Ltd confirms its technical leadership in CNC machining of milling with turning series ,gear hobbing and turning multifunction series.

With over 20 years service , we would like to thank our existing clients for their support over many years and welcome new clients into the field. as always we will strive to provide competitively priced, high quality products with service and support world wide.



## Gear Hobbing With Turning CNC Machine ( SKCX SERIES )

### Application:

well applied at trucks and car's transmitting gears, gearbox gears, motorcycles and micro car's transmitting gear ,such as : cylindrical spur gear, cylindrical helical gear ,crowned teeth ,turbines ,sprocket



### Characteristics:

1. To achieve all the functions of the gear hobbing machine;
2. Control system: Siemens CNC controller
3. With one clamping, achieve hobbing function and turning function
4. Carbide cutter with dry type hobbing cutting, high efficiency and environmental protection;
5. Cutter arbor automatic string/channeling.
6. Electronic gearbox: EGB function;
7. Servo axis manual adjustment;
8. Manual adjustment with independent installation hand wheel;
9. Standard communication interface RS232 / RS585 / RS422;
10. Tool automatic bounce protection function against power outage.
11. System self - diagnostic function;.
- 12..Electric box configuration 220V / 50Hz maintenance socket;
13. Independent hydraulic system with liquid temperature display;
14. Independent circulation lubrication system;
15. Independent rail timing quantitative lubrication system;
16. Optional installed gear shaving function, deburring function.
17. Optional installed automatic feeding, automatic unloading unit;
18. Optional installed automatic chip removal unit.
19. Optional installation with customized requirement.



| Longkou Bluetooth NC Equipment Co., Ltd<br>Gear Hobbing With Turning CNC Machine SKCX-80 |                                               |                   |
|------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------|
| description                                                                              | size                                          | brand             |
| spindle                                                                                  | servo spindle motor Main motor power 11KW     | SIEMENS           |
|                                                                                          | Max.speed 2000rpm                             |                   |
|                                                                                          | spindle nose A2-6                             |                   |
|                                                                                          | style of chuck 8"hydraulic 3-jaw chuck        | Jia he,Taiwan     |
|                                                                                          | clamping range $\phi 8 \sim 45\text{mm}$      |                   |
|                                                                                          | Rotary tension hydraulic cylinder TH646       | Jia he,Taiwan     |
| hobbing shaft                                                                            | hobbing shaft servo spindle motor 7.5KW       |                   |
|                                                                                          | Max.speed 2000rpm                             | SIEMENS           |
|                                                                                          | hobbing shaft shank diameter 27mm             |                   |
| feed                                                                                     | X/Z/Y axis servo motor 18/18/27(B)N.M         | SIEMENS           |
|                                                                                          | C axis servo motor(rotation axis ) 12 N.M     |                   |
|                                                                                          | X/Z/Y axis 200/200/150mm                      |                   |
|                                                                                          | X/Z/Y feed speed 10m /min                     |                   |
|                                                                                          | C axis angle of rotation $\pm 30^\circ$ (MAX) |                   |
| machining range                                                                          | spindle bore dia (Max). 45mm                  |                   |
|                                                                                          | machining dia (Max ) 220mm                    |                   |
|                                                                                          | machining length (Max ) 200mm                 |                   |
| machining                                                                                | six-axis four linkage combinational machining |                   |
|                                                                                          | turning function、involute mode gear hobbing   |                   |
|                                                                                          | Max.modulo: M4                                |                   |
| guide rail                                                                               | X/Z axis ball type linear guide rail          | ROXROTH           |
| guide screw                                                                              | X/Z axis ball screw                           | SHANDGYI ,TAIWAN  |
| accuracy                                                                                 | positioning accuracy: X/Z/Y:0.02mm            |                   |
|                                                                                          | repeate positioning accuracy X/Z/Y:0.015mm    |                   |
|                                                                                          | Shaft end runout 0.008mm                      |                   |
| lubrication                                                                              | headstock oil pump lubricating                |                   |
|                                                                                          | others central lubricating                    |                   |
| pneumatic unit                                                                           | 0.6MPa pneumatic unit provide necessary       |                   |
| Colling                                                                                  | 80W water cooling pump                        |                   |
| Guard                                                                                    | fully guard type                              |                   |
| Electrical system                                                                        | SIEMENS controller system                     | SIEMENS           |
|                                                                                          | main controlling voltage 24V (DC)             |                   |
|                                                                                          | main controlling electrical                   | Schneider, France |
| feeder                                                                                   | manual                                        |                   |
| chip conveyor                                                                            | manual chip removal                           |                   |
| bearing                                                                                  | NSK/SKF                                       |                   |

Processing video on youtube :

<https://www.youtube.com/watch?v=Qu0G-e9gSXQ>

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### Polygon Milling With Turning Automation Machine ( CXF SERIES )

Polygons milling 2 plane to Octagon and turning function ( round ,internal /external thread , boring , tapping ,endface cutting, etc ) with one clamping.

The advantage is high precision and efficiency , low labor cost.

#### Features:

1. With one clamping , finish polygon milling function and turning function.  
Milling :2 plane ,triangle ,square ,pentagon ,hexagon ,heptagon ,octagon ,  
Stepped flats, etc.  
Turning: round ,internal /external thread , boring ,tapping ,endface cutting ,etc.
2. The fuselage and main components are high strength cast iron.
- 3.The spindle is supported by high-precision rolling bearing.
- 4.Form of workpiece clamping:1)Three-jaw chuck 2)Spring collect(optional).
- 5.The automatic feeding rack can be selected optionally according to user requests.
- 6.The high speed, high precision, high rigidity spindle unit



| Specifications                  | Units | CXF-W40X                                        | CXF-W50X                          | CXF-W60X                          | CXF-W80X                          |
|---------------------------------|-------|-------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| X-axis travel                   | mm    | 150                                             | 150                               | 150                               | 150                               |
| Z-axis travel                   | mm    | 200                                             | 200                               | 260                               | 260                               |
| spindle servo motor power       | KW    | 5.5                                             | 5.5                               | 7.5                               | 11                                |
| Maximum spindle speed           | rpm   | 2000                                            | 2000                              | 2000                              | 1600                              |
| Spindle through hole            | mm    | φ 40                                            | φ 45                              | φ 52                              | φ 75                              |
| Max subtese of turning &milling | mm    | 32                                              | 42                                | 52                                | 72                                |
| X/Z axis rapid traverse speed   | m/min | 10                                              | 10                                | 10                                | 10                                |
| X-axis servo motor              | N.M   | 12                                              | 12                                | 15                                | 15                                |
| Z-axis servo motor              | N.M   | 8                                               | 8                                 | 8                                 | 10                                |
| Positioning accuracy            | mm    | 0.015                                           | 0.015                             | 0.015                             | 0.015                             |
| Repeat accuracy                 | mm    | 0.008                                           | 0.008                             | 0.008                             | 0.008                             |
| Milling tool                    | rpm   | 2000                                            | 2000                              | 1600                              | 1600                              |
| Turning tool                    |       | 4 station tool turret                           |                                   |                                   |                                   |
| Control system                  |       | SYNTEC ( Taiwan made) Optional : SIEMENS ,FANUC |                                   |                                   |                                   |
| Machine weight                  | KG    | 1800                                            | 2000                              | 2300                              | 2800                              |
| Dimensions                      | mm    | 2100 x 1600 x 2000<br>( L *W *H )               | 2100 x 1600 x 2000<br>( L *W *H ) | 2250 x 1650 x 2100<br>( L *W *H ) | 2500 x 1700 x 2100<br>( L *W *H ) |



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### Bits Making Automation Machine ( CXK SERIES )

can be applied as mechanical processing and mould manufacturing, can adapt from roughing to finishing processing requirements, such as in hand tool screwdriver etc. high precision, high efficiency, low labor cost.

**Processing Type :** Slotted, Phillips ,Pozi , Torx, Square, Hexagonal , etc

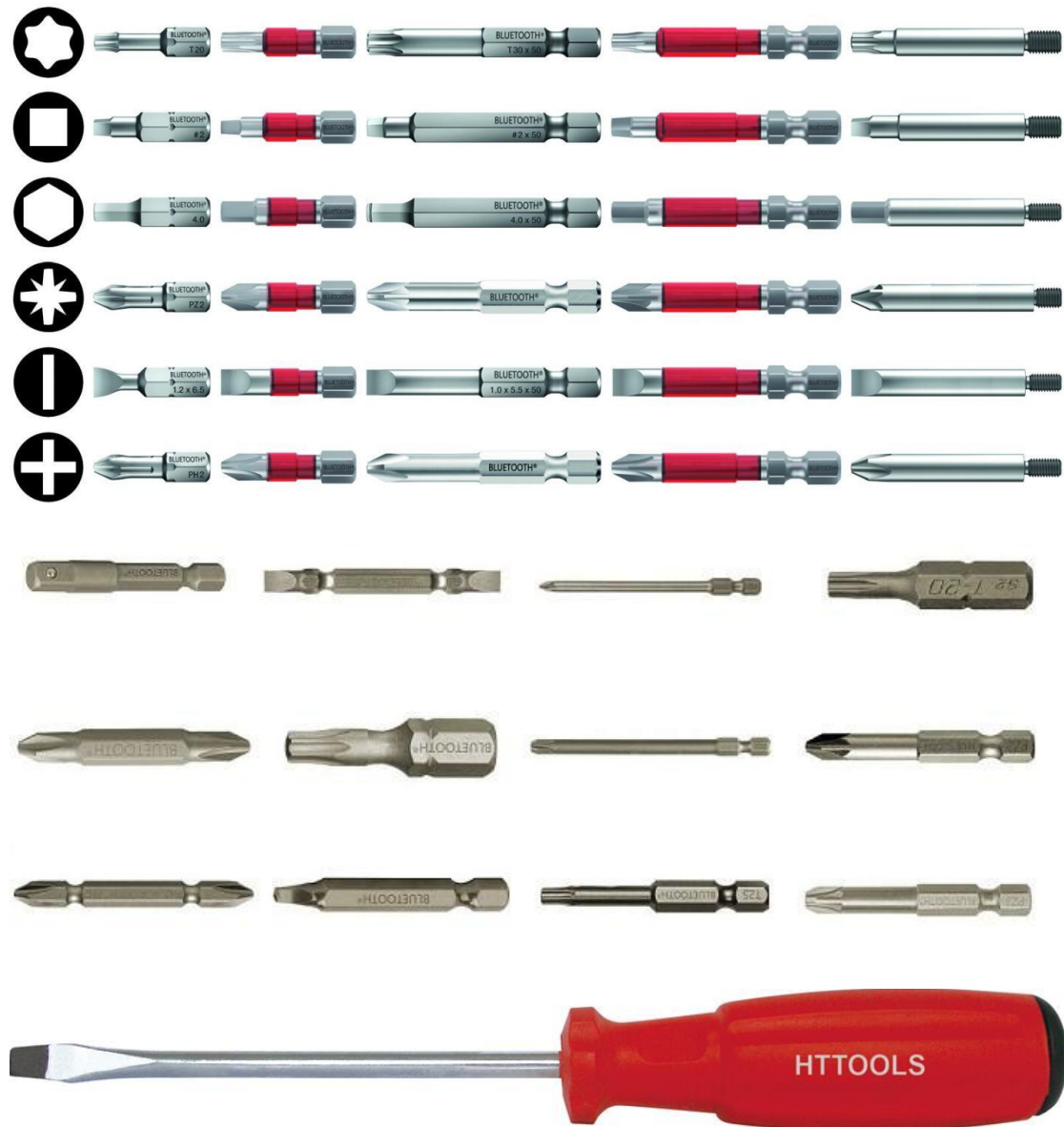
#### Features:

- 1, Machinable diameter 3mm - 12mm, feeding workpiece length 60mm-300mm screwdriver bits or screwdriver cutter arbor;
- 2, Finish processing requirements completely as per drawing to head shape and size
- 3, Processing capacity less than 15 seconds / piece;
- 4, Form of workpiece clamping: spring collect hydraulic tensioning.
- 5, The automatic feeding rack.



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Equipment structure:

The equipment with characteristic stable ,reliable, lightweight and flexible performance, automatic milling and turning multi-function machine ,equipped and assembly with high secure, high reliable components , easy operating and maintenance , all kinds of wearing parts and tooling Fixtures can be quickly replaced .  
<https://www.youtube.com/watch?v=yjSo2v7E-AY>

Processing video on youtube :

<https://www.youtube.com/watch?v=Z3bu7DHeodM>

<https://www.youtube.com/watch?v=yjSo2v7E-AY>

## Technical Specification:

| Specifications                                                                                | Units | CXK-32                                               | CXK-32X                           |
|-----------------------------------------------------------------------------------------------|-------|------------------------------------------------------|-----------------------------------|
| X-axis travel                                                                                 | mm    | 150                                                  | 180                               |
| Z-axis travel                                                                                 | mm    | 150                                                  | 160                               |
| spindle servo motor                                                                           | KW    | 3.7                                                  | 3.7                               |
| Maximum spindle speed                                                                         | rpm   | 3000                                                 | 3000                              |
| X/Z axis rapid traverse speed                                                                 | m/min | 12                                                   | 12                                |
| Clamping diameter                                                                             | mm    | φ 3 - 12                                             | φ 3 - 12                          |
| Maximum machining length                                                                      | mm    | 150mm<br><b>Option:</b> 300mm with tailstock         |                                   |
| X-axis servo motor                                                                            | N.M   | 8                                                    | 8                                 |
| Z-axis servo motor                                                                            | N.M   | 8                                                    | 8                                 |
| Positioning accuracy                                                                          | mm    | 0.015                                                | 0.015                             |
| Repeat accuracy                                                                               | mm    | 0.01                                                 | 0.01                              |
| Milling tool speed                                                                            | rpm   | 3000                                                 | 3000                              |
| Turning tool                                                                                  |       | 3 row tool holder                                    | 3 row tool holder                 |
| Control system                                                                                |       | SYNTEC ( Taiwan made )<br>Optional : SIEMENS , FAUNC |                                   |
| Machine weight                                                                                | KG    | 1200                                                 | 1500                              |
| Dimensions                                                                                    | mm    | 1650 x 1400 x 1700<br>( L *W *H )                    | 1650 x 1400 x 1900<br>( L *W *H ) |
| The automatic feeding rack                                                                    | mm    | 1500 ( L )                                           | 1500 ( L )                        |
| <b>Customized requirement / overall production solution subject to our final confirmation</b> |       |                                                      |                                   |

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[https://www.youtube.com/channel/UCgV2zsR3wtIkA\\_EjDrldOQg](https://www.youtube.com/channel/UCgV2zsR3wtIkA_EjDrldOQg)