

Алматы (7273)495-231  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Саранск (8342)22-96-24  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
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Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97  
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Тольятти (8482)63-91-07  
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Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

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<https://tigercnc.nt-rt.ru/> || [tcn@nt-rt.ru](mailto:tcn@nt-rt.ru)

# 山东泰格尔数控机床附件有限公司

## SHANDONG TIGEL CNC MACHINE TOOL ACCESSORIES CO. LTD

# SHANDONG TIGER

## CNC MACHINE TOOL ACCESSORIES CO. LTD



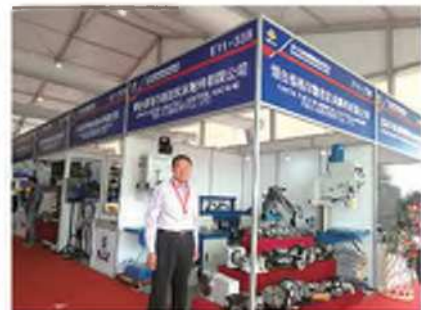
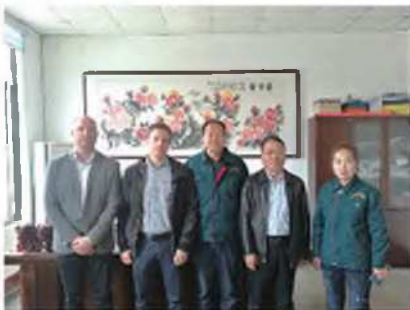
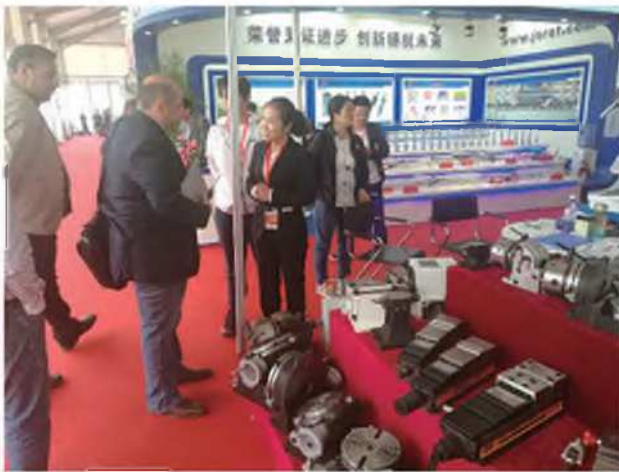
## 公司简介

山东泰格尔数控机床附件有限公司系股份制企业拥有自营进出口权。生产基地坐落在山东省滕州市。是专业的生产机床附件制造企业。公司主要产品有数控分度头系列，数控回转台系列，以及分度头，回转台，平口钳，砂轮平衡架，铣头等系列。公司技术力量雄厚，有享誉国内外知名专家杜继付总工程师带领技术团队，以先进设计理念，精湛的工艺和精良的设备作为保证。产品精度高质量可靠畅销世界远销以欧美市场。公司奉行创名牌高品质的质量战略，独创品牌“Tiger 泰格尔”，产品通过 ISO9001 质量体系认证。

以“我们只专注于质量，把我们的产品奉献给追求高品质的人”为企业核心，愿与国内外各界朋友真诚合作共同发展。

# Company Introduction

Shandong Tiger CNC Machine Tool Accessories Co., Ltd. is a joint-stock enterprise with the right to import and export. Production base is located in Tengzhou City, Shandong Province. Is a professional production of machine tool accessories manufacturing enterprises. The company's main products are CNC dividing head series, CNC turntable series, as well as indexing head, turntable, flat pliers, grinding wheel balance frame, milling and other systems. The company has strong technical force, a well-known expert at home and abroad. Du Jifu chief engineer led the technical team, to advanced design concept, exquisite technology and sophisticated equipment as a guarantee. Products with high precision and reliable quality sell well in the world. It is exported to European and American markets. The company pursues the quality strategy of creating famous brand and high grade, the original brand "Tiger Tagle", Products through the ISO9001 quality system certification.



"We only focus on quality, our products dedicated to the pursuit of high quality" as the core of the enterprise, is willing to work with Friends from all walks of life at home and abroad sincerely cooperate and develop together.

TK13数控分度转台

TK13 CNC Rotary Table Series



TKCN数控分度转台

TKCN CNC Rotary Table Series



简易数控转台

B Type CNC Rotary Table



FK15 数控分度头

FK15 CNC Dividing Head



数控尾座系列

CNC Tail Stock Series



F11系列万能分度头

F11 Series Universal Dividing Head



F12系列半万能分度头

F12 Series Semi-universal Dividing Head



BS系列半万能分度头

BS Series Semi-universal Dividing Head



BS 万能分度头

BS Universal Dividing Head



立卧回转工作台

Vertical & horizontal rotary table



卧式回转工作台

Rotary Table



转台配件

Accessories Of Rotary Table



T36600 × 12型立式等分回转工作台

T36600 × 12 Vertical Dividing Head



WZK型系列可调尾座

Tailstock



FNL100B型立卧等分分度头

Fnl100b Horizontal Vertical Collet Index



迷你型立卧两用分度盘

Mini Series Rotary Table



可倾回转工作台

Tilting rotary table



37

手动可倾回转工作台

Manual tilting rotary table



39

立卧两用强力型快速分度盘

Horizontal Vertical Super Indexing Spacers



41

立卧两用简易型分度盘

Horizontal/vertical Basic Indexing Spacers



43

快速等分分度头

Dividing head



45

可倾式分度卡盘

Tiltable Indexing Chucks



46

液压平口钳

Hydraulic vice



47

QM系列平口钳

QM series Machine Vice



49

Q12(QH)系列平口钳

Q12(QH)Series Machine Vice



Q41(QHK) 系列平口钳

Q41 (QHK) Series Machine Vice



角度夹钳

Angle clamping vice



钻床平口钳

(Drill vice)



Q13(QB)系列平口钳

Q13 (Q8) series MachineVice



QM16N一体式系列平口钳

QM16n Unibcdy Series Machine Vice



FV系列自由式虎钳

FV Freestyle Vice



FNV自由式系列机用虎钳

FNV Free Series Machine Vice



Q93系列平口钳

Q93 series Machine Vice



万能角度机用虎钳

Universal 3-way Angle



精密工具平口钳

precision tool parallel-jaw vice



万能铣头

Universal milling head



立铣头

Vertical milling head



XC系列立铣头

XC series uni



组合压板

Clamping kits



电子走刀器

Electric power feed



卧铣附件

Horizontal milling attachment



可倾斜台

Tiling Rotary table with angle



插头

slotting head



ER套装铣夹头

ER Spring Collet And Chuck



三爪卡盘

3-Jaw chuck



四爪卡盘

4-Jaw chuck



砂轮平衡支架

Grinding wheel balancer



平行块/硬度计

Parallel block / Hardness tester



# NC ROTARY TABLE

## 数控回转台

TK13EL 系列数控立卧回转工作台是各类数控铣床和加工中心的关键配套附件，可以与主轴垂直和水平两种方式安装在主机工作台上，用作主机的第四回转轴。转台在主机相关控制系统控制下，可实现等分的和不等分的孔、槽或者连续特殊曲面的加工，且保证很高的加工精度。

TK13EL series Hor./vert. Nc rotary table can carry out the performance of direct and indirect dividing, plate processing, plate-slotting and various cam-curling.





规格参数:MAIN SPECIFICATIONS

| NO. | 项目 ITEMS                                        | TK13200EL        | TK13250EL | TK13315EL | TK13400EL | TK13500EL | TK13630EL |
|-----|-------------------------------------------------|------------------|-----------|-----------|-----------|-----------|-----------|
| 1   | 工作台面直径 Turntable diameter (mm)                  | φ 200            | φ 250     | φ 315     | φ 400     | φ 500     | φ 630     |
| 2   | 工作台面垂直时 中心高 Center height (mm)                  | 140              | 160       | 210       | 260       | 310       | 400       |
| 3   | 工作台面总厚度 Total thickness (mm)                    | 150              | 190       | 210       | 250       | 290       | 350       |
| 4   | 中心定位孔直径 Center bore diameter (mm)               | 50               | 70        | 90        | 130       | 180       | 225       |
| 5   | 定位键宽度 Locating key size (mm)                    | 18               | 18        | 18        | 18        | 22        | 22        |
| 6   | 工作台面T型槽宽度 T-slot size (mm)                      | 4-12             | 6-12      | 6-14      | 6-14      | 6-18      | 6-18      |
| 7   | 蜗轮副传动比 worm gear ratio                          | 1:72             | 1:90      | 1:90      | 1:120     | 1:150     | 1:120     |
| 8   | 总传动比 Total reduction ratio                      | 1:72             | 1:180     | 1:90      | 1:180     | 1:180     | 1:180     |
| 9   | 工作台面最高转速 Max. speed (r/min)                     | 16.6             | 11.1      | 11.1      | 11.1      | 11.1      | 11.1      |
| 10  | 设定最小分度单位 Table graduation angle per pulse       | 0.001°           | 0.001°    | 0.001°    | 0.001°    | 0.001°    | 0.001°    |
| 11  | 伺服电机(用户自备带2000脉冲编码器)<br>Servo motor (optional)  | 功率(kw)           | ≥0.9      | ≥1.0      | ≥2.0      | ≥2.1      | ≥2.1      |
|     |                                                 | 扭矩Nm             | ≥3        | ≥8        | ≥10       | ≥12       | ≥15       |
| 12  | 分度精度 Dividing accuracy                          | 30 "             | 30 "      | 25 "      | 20 "      | 20 "      | 20 "      |
| 13  | 重复精度 Repeatability accuracy                     | 8 "              | 6 "       | 6 "       | 6 "       | 6 "       | 4 "       |
| 14  | 夹紧力矩 Clamp torque(Nm)                           | 油压夹紧 Oil 15x10Pa | 1000      | 1800      | 2000      | 2800      | 4000      |
|     |                                                 | 气压夹紧 Air 15x10Pa | 150       | 300       | 650       | 800       | 1500      |
| 15  | 水平承载 load capacity hor. (kg)                    | 200              | 300       | 350       | 500       | 600       | 800       |
| 16  | 立式承载 load capacity vert (kg)                    | 75               | 150       | 175       | 300       | 350       | 400       |
| 17  | 允许最大惯量(垂直使用时) Max. inertia of vertical(kg.cm.s) | 15               | 16.4      | 55.4      | 55.4      | 100       | 200       |
| 18  | 最大允许驱动力矩 Max. torque capacity (N.m)             | 90               | 300       | 700       | 1200      | 1700      | 3000      |
| 19  | 转台重量 Net weight (kg)                            | 67               | 110       | 200       | 325       | 650       | 1125      |

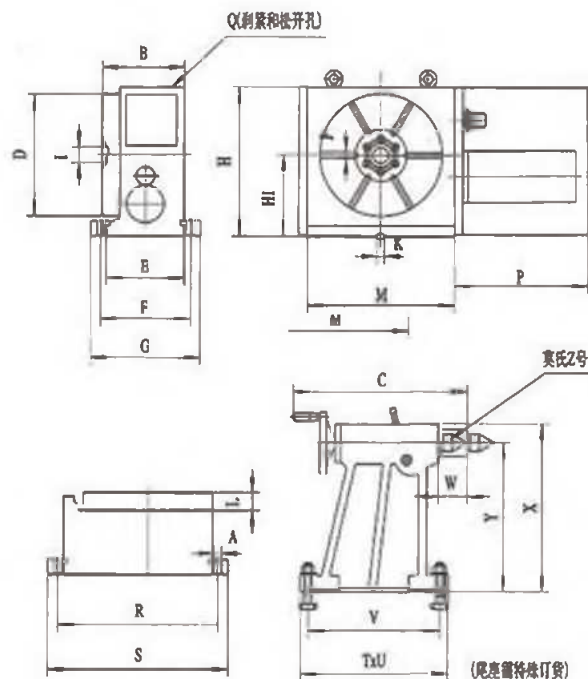
◆ 请用户尽量选用油压,最大使用油压为:推荐值+1Mpa

◆ 以上参数以实物为准,如有变动,最终解释权归本公司。

# TK13E 系列

## 数控立卧式回转工作台

### 安装尺寸图DIMENSIONAL SKETCH



TK13E系列数控立卧回转工作台安装尺寸参数Installation dimensions

| Dim.<br>Spec | D    | B   | H   | H1     | W     | F     | G     | A   | I        | J     | K   | L    | C     | M   |
|--------------|------|-----|-----|--------|-------|-------|-------|-----|----------|-------|-----|------|-------|-----|
| TK13160EL    | Φ160 | 170 | 245 | 135    | 160   | 186   | 220   | Φ13 | Φ20H6×18 | 12H12 | 14  | 35   | 258.5 | 204 |
| TK13200EL    | Φ200 | 150 | 240 | 140    | 165   | 199   | 231   | Φ13 | Φ25H6×20 | 12H12 | 18  | 32   | 258.5 | 245 |
| TK1325EL     | Φ250 | 190 | 300 | 160    | 170   | 215   | 252   | Φ17 | Φ30H6×22 | 12H12 | 18  | 35   | 250   | 286 |
| TK13315EL    | Φ315 | 210 | 375 | 210    | 190   | 228   | 262   | Φ18 | Φ40H6×25 | 14H12 | 18  | 44.5 | 250   | 365 |
| TK13400EL    | Φ400 | 250 | 470 | 260    | 230   | 268   | 302   | Φ18 | Φ50H6×28 | 14H12 | 18  | 50   | 370   | 440 |
| TK13500EL    | Φ500 | 290 | 570 | 310    | 243.5 | 281.5 | 315.5 | Φ18 | Φ60H6×25 | 18H12 | 22  | 72   | 460   | 500 |
| TK13630EL    | Φ630 | 350 | 730 | 400    | 330   | 378   | 428   | Φ22 | Φ70H6×28 | 18H12 | 22  | 75   | 460   | 680 |
|              |      |     | P   | Q      | R     | S     | T     | U   | V        | w     | X   | Y    |       | Z   |
| TK13160EL    |      |     | 266 | Rc1/4" | 271   | 305   | 185   | 100 | 157      | 40    | 162 | 135  |       | 2   |
| TK13200EL    |      |     | 310 | Rc1/4" | 284   | 316   | 185   | 100 | 157      | 40    | 167 | 140  |       | 2   |
| TK13250EL    |      |     | 310 | Rc1/4" | 342   | 382   | 186   | 110 | 154      | 40    | 187 | 160  |       | 2   |
| TK13315EL    |      |     | 310 | Rc1/4" | 413   | 447   | 202   | 120 | 166      | 40    | 237 | 210  |       | 2   |
| TK13400EL    |      |     | 310 | Rc1/4" | 508   | 542   | 280   | 180 | 220      | 60    | 300 | 260  |       | 4   |
| TK13500EL    |      |     | 310 | Rc1/4" | 608   | 642   | 370   | 260 | 330      | 60    | 360 | 310  |       | 5   |
| TK13630E     |      |     | 360 | Rc1/4" | 778   | 828   | 377   | 300 | 337      | 60    | 450 | 400  |       | 5   |

以上参数以实物为准,如有变动,最终解释权归本公司。

# NC Rotary table

## 数控回转台

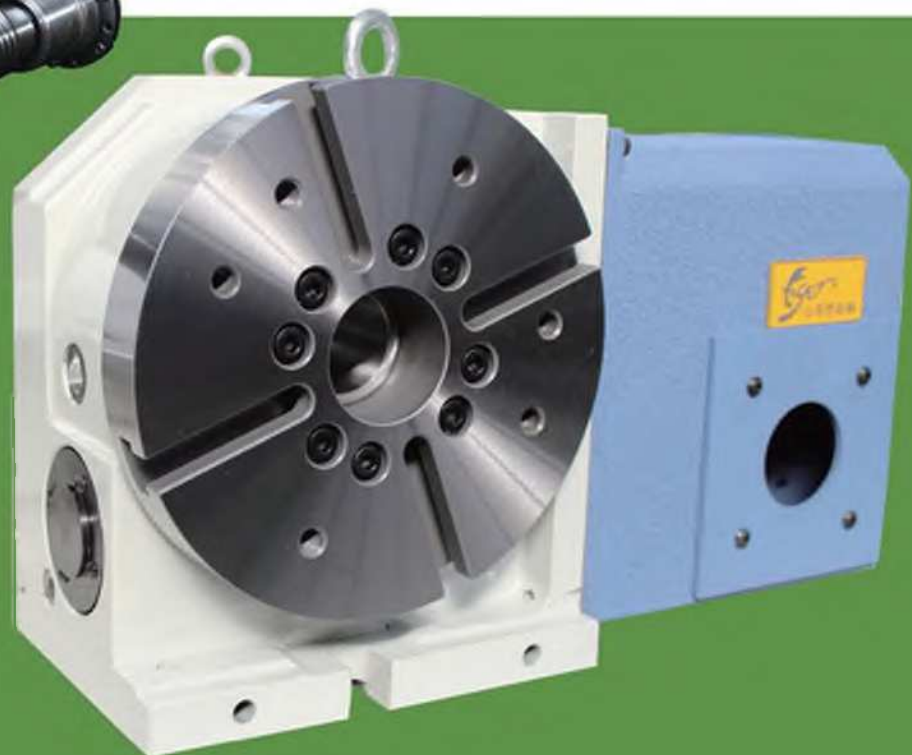
- 通过三向刹车盘实现气动刹紧
- 高速回转
- 高精度
- 适合小型加工中心

- Powerful pneumatic clamping torque by triple disk brake system
- High speed rotation
- High accuracy
- Ideal for compact machining centres



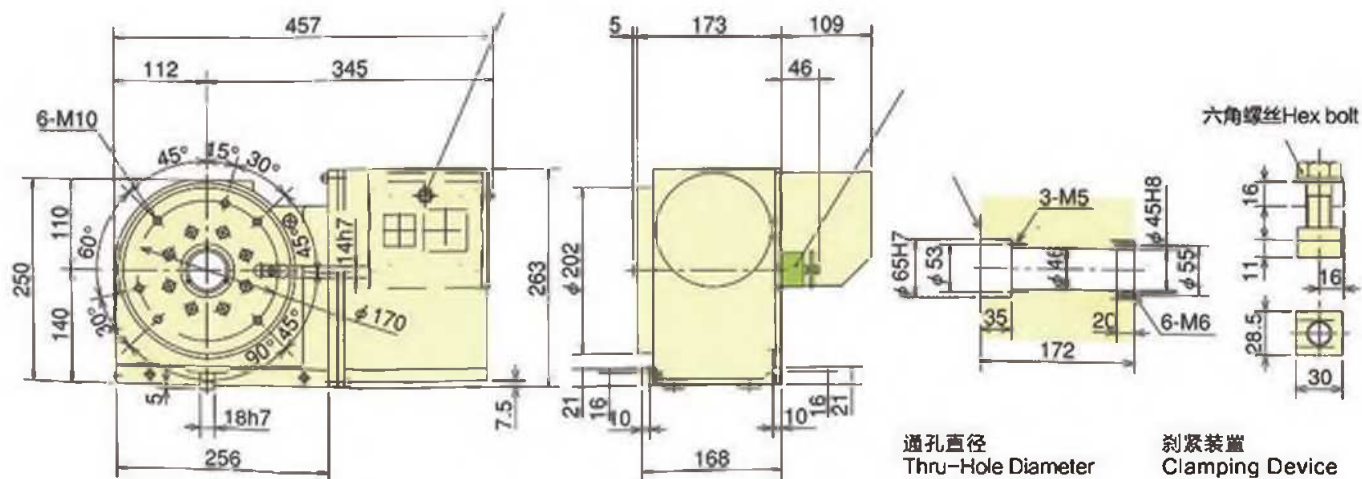
台湾制造

| 形式Model                                    | MR200                     |     |
|--------------------------------------------|---------------------------|-----|
| 台面直径 Table Dia (mm)                        | Φ202                      |     |
| 中心孔直径 Centre Bole Dia(mm)                  | Φ65H7                     |     |
| 通孔直径 Through Hole Dia(mm)                  | Φ45                       |     |
| 中心高 Center Height (mm)                     | 140                       |     |
| 刹紧方式 Clamping Method                       | 空压Pneumatic               |     |
| 刹紧压力 Clamping Torque (in Pneumatic 0.5mpa) | 350                       |     |
| 伺服电机gear Ratio                             | 1/90                      |     |
| 分度精度indexing Accuracy(sec)                 | 20                        |     |
| 重复定位精度repeatability(sec)                   | 4                         |     |
| 重量mass Of Rotary Table(kg)                 | 61                        |     |
| 工作台承载<br>Allowable Mass Of Workpiece       | 卧式horizontal installation | 200 |
|                                            | 立式vertical installation   | 100 |



## 安装尺寸图DIMENSION SKETCH

### MR200R ( L )

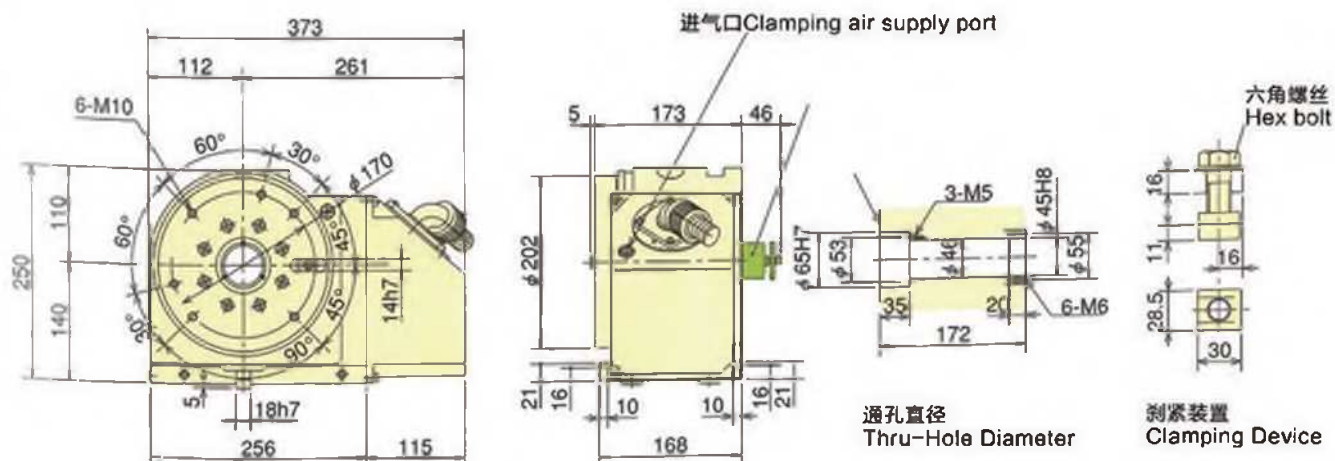


以上尺寸与FANUC规格相同。这些尺寸可能因电机安装不同而不同。

R是右手规格，L是左手规格。

The above dimensions are the same as FANUC specifications. Those dimensions may vary from motor to motor that is mounted.

R is a right hand spec. and L is a left hand spec.



※R是右标，L是左标。

※R is a right hand spec. and L is a left hand spec.

# B TYPE CNC ROTARY TABLE

## 简易数控转台

1. 此款数控转台是根据客户的要求，在正常手动回转台的基础上加装电机接口，使手动转台可以实现数控。
2. 转台的款式，有立卧两用式，卧式，可倾样式供客户选择，尺寸根据台面直径从 80mm 到 2000mm 供客户选择。
3. 电机接口可以根据客户所选择的电机大小配不同的接口。
4. 选配：气动夹紧、尾座、法兰卡盘。
5. 支持客户定制！

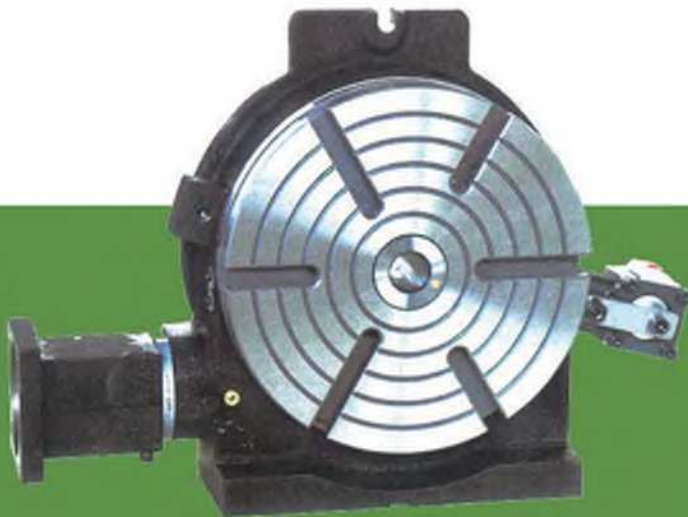
1.This CNC Rotary table, we produce according to customer's requirements, basis of manual rotary table, add motor interface, make it can be controlled by CNC.

2.According to the type of rotary table, we have Horizontal & Vertical type, Horizontal type, Tilting type for your choice. And according to the sizes of table, we have from 80mm to 2000mm for your choice.

3.For the motor interface, we will produce according to your motor.

4. Optional: Pneumatic clamping, Flange&3-jaw chuck, Tail stock.

5.Support Customization!



(立卧两用)



(卧式)

# FK15 Series NC dividing head

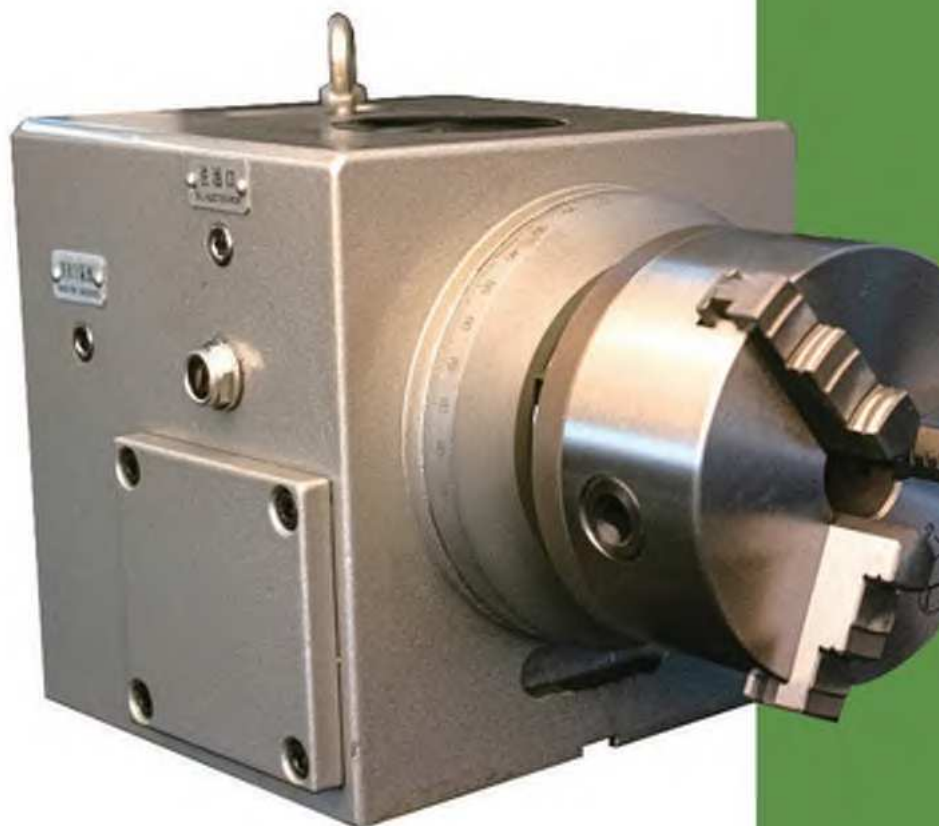
## FK15 系列数控分度头

FK15系列数控分度头是数控铣床，加工中心等机床的主要附件之一，亦可作为半自动铣床、镗床或其它类机床的主要附件。

该分度头与相应的CNC控制装置或机床本身特有的控制系列连接，并与4-6Pa压缩空气接通，可自动完成对被加工件的夹紧、松开和任意角度的圆周分度工作，可立卧两用。当上述机床采用该分度头后，可大大提高劳动生产力和保证工件的加工质量。

Model FK15 series NC dividing head is one of the main accessories for the NC machine and machine center, it can also be used as one of the main accessories of semiauto milling machine, boring machine or other machine tool.

Connected with the CNC control device or the control system of the machine and the 4-6 bar pressure air the NC dividing head can carry out the performance of clamping, unclamping and circular indexing at arbitrary angle for the work piece. this product can be used vertically and horizontally.





台湾制造



规格参数:MAIN SPECIFICATIONS

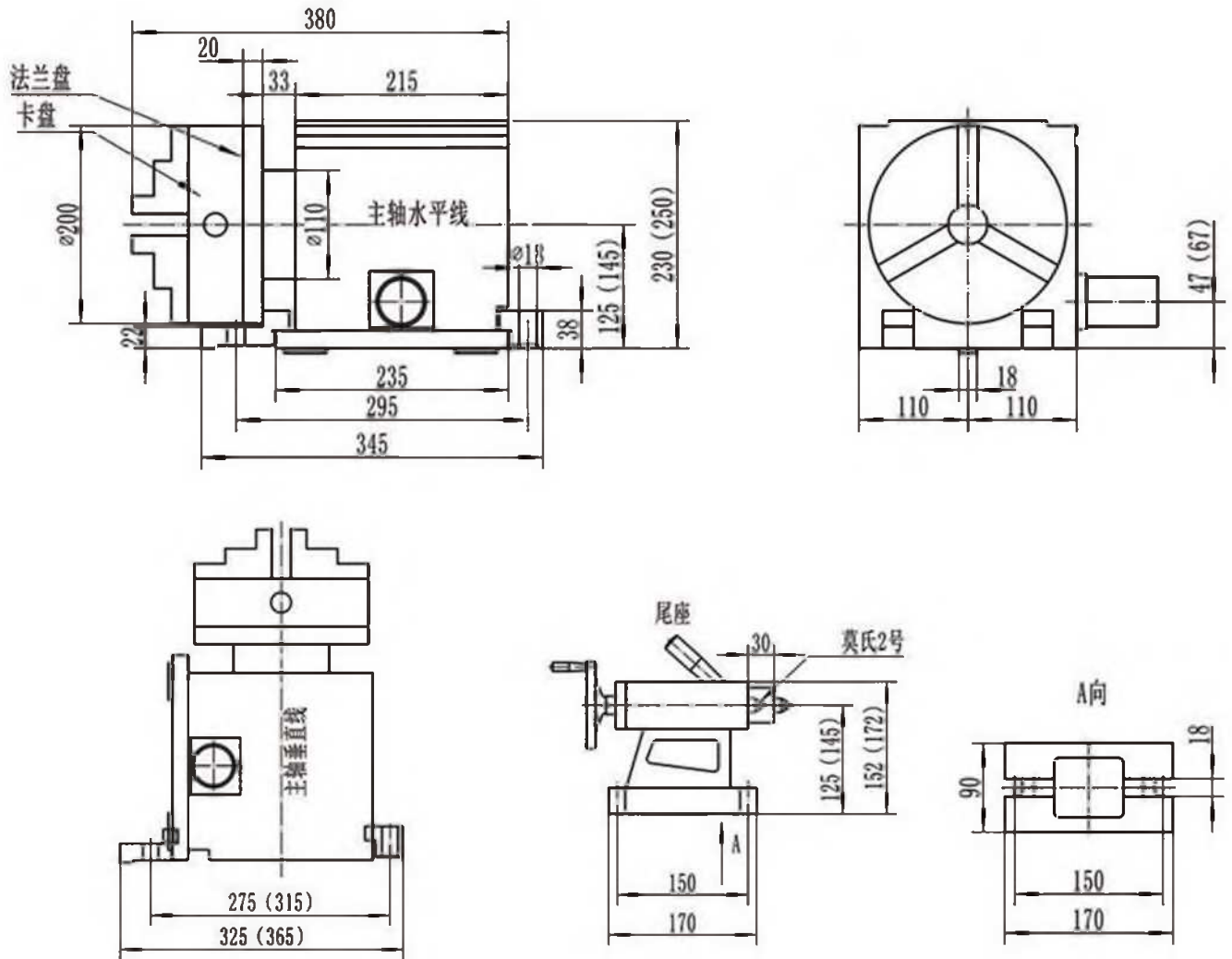
| NO. | 项目 ITEMS                                           |              | FK15110A               | FK15125A               | Fk15145                | Fk15160                |
|-----|----------------------------------------------------|--------------|------------------------|------------------------|------------------------|------------------------|
| 1   | 中心高center height (mm)                              |              | 110                    | 125                    | 145                    | 160                    |
| 2   | 通孔直径dia spindle boe(mm)                            |              | Φ30                    | Φ58                    | Φ58                    | Φ58                    |
| 3   | 蜗杆副传动比Worm gear radio                              |              | 1:90                   | 1:90                   | 1:90                   | 1:90                   |
| 4   | 定位键宽度Width of locating key (mm)                    |              | 14                     | 18                     | 18                     | 18                     |
| 5   | 主轴端部连接尺寸Connecting dimensions of spindle nose (mm) |              | Φ52H6                  | A16                    | A16                    | A16                    |
| 6   | 可配电机Motor (N.m)                                    |              | ≥2.94                  | ≥2.94                  | ≥6                     | ≥6                     |
| 7   | 气源压力Air pressure (Pa)                              |              | 4~6x10 <sup>5</sup> Pa | 4~6x10 <sup>5</sup> Pa | 4~6x10 <sup>5</sup> Pa | 4~6x10 <sup>5</sup> Pa |
| 8   | 重复精度Repeatability                                  |              | 7.5 "                  | 7.5 "                  | 7.5 "                  | 7.5 "                  |
| 9   | 分度精度Dviding accuracy                               |              | 60 "                   | 60 "                   | 60 "                   | 60 "                   |
| 10  | 切向最大力矩Max tangent torque (N.m)                     |              | 90                     | 120                    | 120                    | 120                    |
| 11  | 分度头最高转速Mxspeed (r/min)                             |              | 11.1                   | 11.1                   | 11.1                   | 11.1                   |
| 12  | 净重Net Weight (kg)                                  |              | 50                     | 95                     | 105                    | 125                    |
| 13  | 毛重Gross Weight (kg)                                |              | 58                     | 105                    | 115                    | 135                    |
| 14  | 承载能力Load capacity kg                               | 水平Horizontal | 100                    | 150                    | 150                    | 150                    |
|     |                                                    | 垂直Vertical   | 50                     | 80                     | 80                     | 80                     |

以上参数以实物为准，如有变动，最终解释权归本公司。

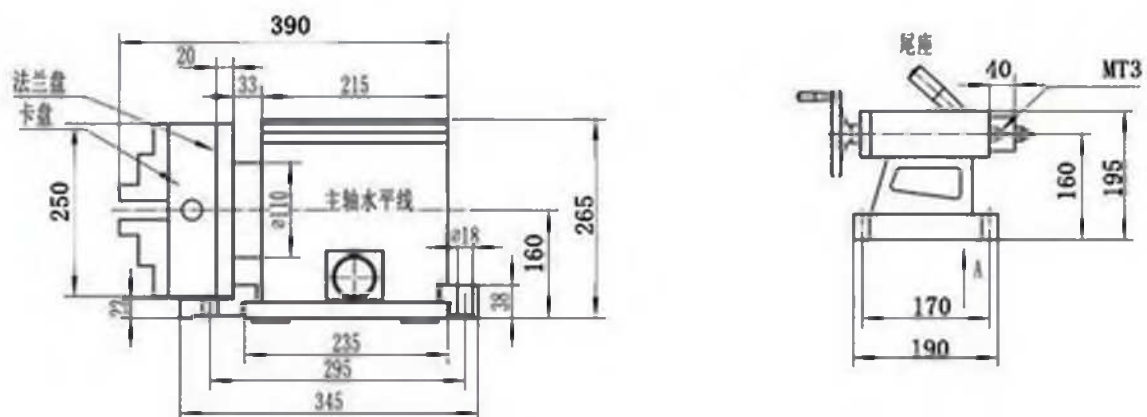
# FK15系列数控分度头

## 安装尺寸图 DIMENSION SKETCH

FK15110 FK15125 FK15145



FK15160



# 数控尾座系列

## CNC Tail Stock Series



圆盘尾座  
Disk Tail Stock



台湾重型尾座  
Heavy Duty Tail Stock



气动尾座  
Pneumatic Tail Stock



数控尾座  
Tail Stock

## 圆盘尾座规格参数安装尺寸图 Disk Tail Stock Specifications & Dimension

| Specification<br>型号<br>参数<br>model | 中心高Y<br>Center Height | 圆盘直径<br>Dia Of Disc | 总高度<br>Overall Height | 总宽度<br>Overall Width | 键宽K<br>Width Of Key | 螺钉距V<br>Distance Of Screw |
|------------------------------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------------------------|
| RT-135                             | 135                   | 170                 | 187                   | 130                  | 18                  | 80                        |
| RT-160                             | 160                   | 250                 | 285                   | 150                  | 18                  | 90                        |
| RT-210                             | 210                   | 320                 | 370                   | 160                  | 18                  | 90                        |

## 台湾重型尾座规格参数安装尺寸图 Heavy Duty Tail Stock Specifications & Dimension

| Specification<br>型号<br>参数<br>model | 中心高Y<br>Center Height | 套筒莫氏Z<br>center nose | 底座长T<br>length of base | 底座宽U<br>width of base | 总长C<br>Overall length | 套筒伸长w<br>Sleeve range | 键宽K<br>Width Of Key | 螺钉距V<br>Distance Of Screw | 尾座体高度X<br>Overall height |
|------------------------------------|-----------------------|----------------------|------------------------|-----------------------|-----------------------|-----------------------|---------------------|---------------------------|--------------------------|
| HT135                              | 135                   | 3# MT4               | 190                    | 120                   | 440                   | 55                    | 18                  | 205                       | 185                      |
| HT160                              | 160                   | 3# MT4               | 190                    | 120                   | 440                   | 55                    | 18                  | 205                       | 210                      |
| HT185                              | 185                   | 3# MT4               | 190                    | 120                   | 440                   | 55                    | 18                  | 205                       | 235                      |
| HT210                              | 210                   | 3# MT4               | 202                    | 120                   | 440                   | 55                    | 18                  | 205                       | 265                      |

## 气动尾座规格参数安装尺寸图 Pneumatic Tail Stock Specifications & Dimension

| Specification<br>型号<br>参数<br>model | 中心高Y<br>Center Height | 套筒莫氏Z<br>center nose | 底座长T<br>length of base | 底座宽U<br>width of base | 总长C<br>Overall length | 套筒伸长w<br>Sleeve range | 键宽K<br>Width Of Key | 螺钉距V<br>Distance Of Screw | 尾座体高度X<br>Overall height |
|------------------------------------|-----------------------|----------------------|------------------------|-----------------------|-----------------------|-----------------------|---------------------|---------------------------|--------------------------|
| QT135                              | 135                   | 3#                   | 190                    | 120                   | 310                   | 40                    | 18                  | 170                       | 165                      |
| QT160                              | 160                   | 3#                   | 190                    | 120                   | 310                   | 40                    | 18                  | 170                       | 190                      |
| QT185                              | 185                   | 3#                   | 190                    | 120                   | 310                   | 40                    | 18                  | 170                       | 215                      |
| QT210                              | 210                   | 3#                   | 202                    | 120                   | 310                   | 40                    | 18                  | 170                       | 235                      |

## 数控尾座规格参数安装尺寸图 Tail Stock Specifications & Dimension

| Specification<br>型号<br>参数<br>model | 中心高Y<br>Center Height | 套筒莫氏Z<br>center nose | 底座长T<br>length of base | 底座宽U<br>width of base | 总长C<br>Overall length | 套筒伸长w<br>Sleeve range | 键宽K<br>Width Of Key | 螺钉距V<br>Distance Of Screw | 尾座体高度X<br>Overall height |
|------------------------------------|-----------------------|----------------------|------------------------|-----------------------|-----------------------|-----------------------|---------------------|---------------------------|--------------------------|
| NT135                              | 135                   | 3#                   | 190                    | 120                   | 310                   | 55                    | 18                  | 170                       | 165                      |
| NT160                              | 160                   | 3#                   | 190                    | 120                   | 310                   | 55                    | 18                  | 170                       | 190                      |
| NT185                              | 185                   | 3#                   | 190                    | 120                   | 310                   | 55                    | 18                  | 170                       | 210                      |
| NT210                              | 210                   | 3#                   | 202                    | 120                   | 310                   | 50                    | 18                  | 180                       | 235                      |
| NT110                              | 110                   | 2#                   | 170                    | 90                    | 260                   | 40                    | 14                  | 145                       | 135                      |
| NT125                              | 125                   | 2#                   | 170                    | 90                    | 260                   | 40                    | 18                  | 145                       | 150                      |
| NT145                              | 145                   | 2#                   | 170                    | 90                    | 260                   | 40                    | 18                  | 145                       | 170                      |
| NT255                              | 255                   | 4#                   | 280                    | 180                   | 420                   | 70                    | 18                  | 255                       | 295                      |
| NT260                              | 260                   | 4#                   | 280                    | 180                   | 420                   | 70                    | 18                  | 255                       | 300                      |
| NT310                              | 310                   | 5#                   | 375                    | 260                   | 520                   | 110                   | 22                  | 345                       | 365                      |
| NT400                              | 400                   | 5#                   | 380                    | 300                   | 520                   | 110                   | 22                  | 350                       | 455                      |

# F11 series universal dividing head

## F11系列万能分度头

FW80、F11100A、F11125A、F11160A、F11200A 型万能分度头是铣床工的主要附件之一，利用分度刻度环和游标，定位销和分度盘以及交换齿轮，能将装卡在顶尖间或卡盘上的工件分成任意角度，可将圆分成任意等份，辅助机床利用各种不同形状的刀具进行各种沟槽、正齿轮、螺旋正齿轮、阿基米德螺旋线凸轮的加工工作；

该产品还备有圆工作台，将它安装在分度头主轴上，工件可直接紧固在工作台上，也可利用装在工作台上的夹具紧固，可完成工件多方位加工；

F11125C、F11160C 型万能分度头，是根据用户要求特殊订货的产品。本产品是在 F11125A、F11160A 型万能分度头的基础上进行了改进，能随较大负荷；

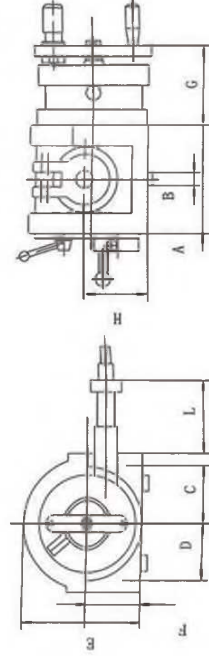
F11100AL、F11125AL、F11160AL 型万能分度头，分度手把为左置。

1、The universal dividing head, Type F11100A, F11125A, F11160A, F11200A is one of the most important attachment for milling machine. With the help of this dividing head the workpiece held between centers, or on a chuck can be rotate to any angle as desired and the periphery of a workpiece can be divided into any divisions of equal parts. By means of all kind of cutters, the dividing head can also help milling machine to perform the milling operation for flute spur gears, spiral flutes, Archimedean cam, helical flute and etc.

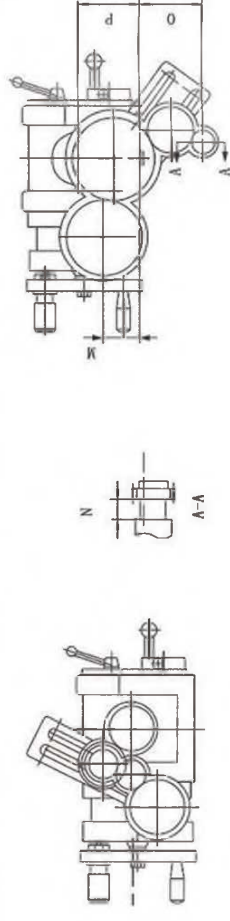
2、The dividing head is equipped with a face plate that can be mounted onto the spindle nose. The workpiece can be mounted on the face plate, thus cutting can be carried out on 4-sides of a workpiece.

3、F11125C, F11160C is designed for the customers special needed, the shafting is improved to support heavy load.

4、The universal dividing head, type F11160AL, F11125AL, F11160AL is the same as the structures and the operation handle is set on the left.



安装尺寸图 DIMENSIONAL SKETCH





(B 款带电机)



(左置式)



规格参数:Main teachnival parameter:

| 项目Items                                                                                                  |                     | 规格Specifications                 |  | FW80                              | F11100A     | F11125A     | F11160A     | F11200A     |
|----------------------------------------------------------------------------------------------------------|---------------------|----------------------------------|--|-----------------------------------|-------------|-------------|-------------|-------------|
| 中心高<br>Center hight mm                                                                                   |                     |                                  |  | 80                                | 100         | 125         | 160         | 200         |
| 主轴由水平位置向上转动的角度<br>Swivel angle of spindle from horizontal to upward                                      |                     |                                  |  | ≤90°                              | ≤95°        |             |             |             |
| 主轴由水平位置向下转动的角度<br>Horizontal position(downward)                                                          |                     |                                  |  | ≤6°                               | ≤5°         |             |             |             |
| 分度手轮每转主轴回转角度<br>Rotating angle of spindle for one complete revolution dividing handle                    |                     |                                  |  | 9°(540grad : 1 each)              |             |             |             |             |
| 游标最小示值<br>Min.reading of vernier                                                                         |                     |                                  |  | 10°                               |             |             |             |             |
| 蜗杆副传动比<br>Worm gear ratio                                                                                |                     |                                  |  | 1:40                              |             |             |             |             |
| 主轴孔锥度(莫氏)<br>Taper of spindle bore                                                                       |                     |                                  |  | MT3                               |             | MT4         |             |             |
| 定位键宽度<br>Width of locating key mm                                                                        |                     |                                  |  | 14                                |             | 18          |             |             |
| 主轴法兰盘定位短锥直径<br>Diameter of short taper of spindlenose for mounting flange mm                             |                     |                                  |  | Φ36.54                            | Φ41.275     | Φ53.975     | Φ53.975     | Φ53.975     |
| 分度盘孔数<br>Numbers of hole in dividing plate                                                               | 第一面<br>1st plate    | 24.25.28.30.34.37.38.39.41.42.43 |  |                                   |             |             |             |             |
|                                                                                                          | 第二面<br>2nd plate    | 46.47.49.51.53.54.57.58.59.62.66 |  |                                   |             |             |             |             |
| 变换齿轮<br>Change gear                                                                                      | 模数<br>Module        |                                  |  | 1.5                               |             | 2           |             |             |
|                                                                                                          | 齿数<br>Teeth Numbers |                                  |  | 25.30.35.40.50.55.30.70.80.90.100 |             |             |             |             |
| 分度手柄-整转主轴单个分度误差<br>Individual indexing error of the spindle for one complete revolution of diving handle |                     |                                  |  | ±45″                              |             |             |             |             |
| 主轴在任意1/4圆周上的累积误差<br>Cumulate error at any 1/4 periphery of spindle                                       |                     |                                  |  | ±1″                               |             |             |             |             |
| 最大承载<br>Max.bearing kg                                                                                   |                     |                                  |  | 80                                | 100         | 130         | 130         | 130         |
| 净重<br>Net weight kg                                                                                      |                     |                                  |  | 36                                | 67          | 101.5       | 113         | 130         |
| 毛重<br>Gross weight kg                                                                                    |                     |                                  |  | 45                                | 79          | 111.5       | 125         | 140         |
| 箱体尺寸<br>Overall dimensions mm                                                                            |                     |                                  |  | 542×403×220                       | 616×465×265 | 635×530×530 | 710×535×342 | 710×535×342 |

F11系列万能分度头安装尺寸参数: Installation sketc and dimensions:

| Model   | A   | B  | C   | D  | E   | F   | G   | H   | L   | M    | N    | O   | P   |
|---------|-----|----|-----|----|-----|-----|-----|-----|-----|------|------|-----|-----|
| FW80    | 139 | 14 | 77  | 73 | 147 | 77  | 98  | 80  | 106 | 43   | 30   | 60  | 80  |
| F11100A | 162 | 14 | 102 | 87 | 186 | 95  | 116 | 100 | 93  | 54.7 | 30   | 100 | 100 |
| F11125A | 209 | 18 | 116 | 98 | 224 | 117 | 120 | 125 | 103 | 68.5 | 34.5 | 100 | 125 |
| F11160A | 209 | 18 | 116 | 98 | 259 | 152 | 120 | 160 | 103 | 68.5 | 34.5 | 100 | 160 |
| F11200A | 209 | 18 | 116 | 98 | 299 | 192 | 120 | 200 | 200 | 68.5 | 34.5 | 100 | 200 |

注:配带附件Accessories

尾座 Tailstock 挂轮架 Change gear bracket 交换齿轮12件 12xchange gear 千斤顶 Jack 顶尖Center  
分度盘 Dividing plate 法兰盘 Flange 三爪卡盘 3-jaw chuck 圆工作台(特殊订货) Round table(optional)

# F12系列半万能分度头

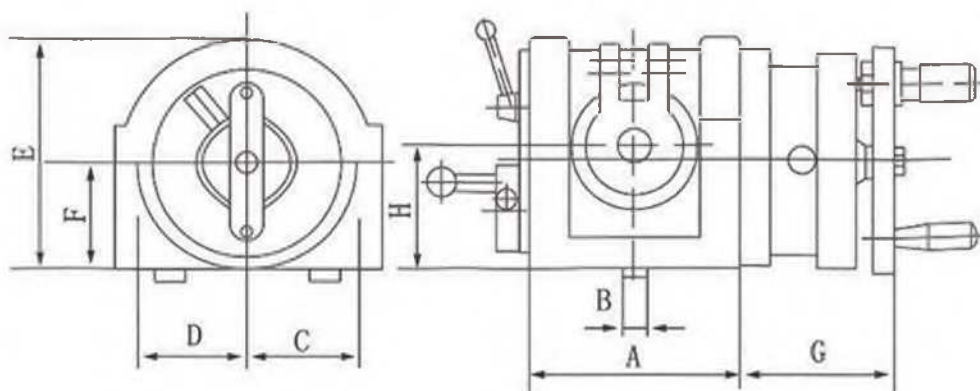
## F12 series semi-universal dividing head

- ◆ F12系列半万能分度头是铣床上的主要附件之一,可用于简单分度也可将圆周分成任意等份等的加工工作。
- ◆ F12系列为右把手。
- ◆ Type F12 series semi-universal dividing head is one of the most important attachment for milling machine. It can be used for simple indexing and divide circle into any equal parts, etc.
- ◆ The F12 series with right handwheel.



F12系列万能分度头

安装尺寸图DIMENSIONAL SKETCH



| 规格Specifications<br>项目Items                                                                                | F12100            | F12125                           | F12160        | F12200       | F1226D | F12300 | F12400 | F12500  |
|------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------|---------------|--------------|--------|--------|--------|---------|
| 中心高Center height mm                                                                                        | 100               | 125                              | 160           | 200          | 260    | 300    | 400    | 500     |
| 主轴由水平位置向上转动的角度<br>Swivel angle of spindle from horizontal to upward                                        | ≤95°              | ≤95°                             | ≤95°          | ≤95°         | ≤95°   | ≤95°   | ≤95°   | ≤95°    |
| 主轴由水平位置向下转动的角度<br>Horizontal position ( downward )                                                         | ≤5°               | ≤5°                              | ≤5°           | ≤5°          | ≤5°    | ≤5°    | ≤5°    | ≤5°     |
| 分度手轮每转主轴回转角度Rotating<br>angel of spindle for one complete revolution<br>dividing handle                    | 9° (540rad. each) |                                  |               |              |        |        |        |         |
| 游标最小示值<br>Min.reading of vernier                                                                           | 10'               | 10'                              | 10'           | 10'          | 10'    | 10'    | 10'    | 10'     |
| 蜗杆副传动比<br>Worm gear radio                                                                                  | 1:40              | 1:40                             | 1:40          | 1:40         | 1:40   | 1:40   | 1:40   | 1:40    |
| 主轴孔锥度 (莫氏)<br>Taper of spindle bore                                                                        | MT3               | MT4                              | MT4           | MT4          | MT6    | MT6    | MT6    | MT5     |
| 定位键宽度<br>Width of locating key mm                                                                          | 100               | 18                               | 18            | 18           | 18/20  | 18/20  | 18/20  | 18/20   |
| 主轴法兰盘定位键直径Diameter of short<br>taper of spindlerose for mounting flange mm                                 | 41.275            | 53.975                           | 53.975        | 53.975       | 52.563 | 52.563 | 52.563 | 106.375 |
| 分度盘孔数<br>Numbers of hole<br>in dividing plate                                                              | 第一面1st plate      | 24.25.28.30.34.37.38.41.42.43    |               |              |        |        |        |         |
|                                                                                                            | 第二面2nd plate      | 46.47.49.51.53.54.57.58.59.62.66 |               |              |        |        |        |         |
| 分度手轮-整转主轴单个分度误差<br>Individual indexing error of the spindle for<br>one complete revoluton of diving handle | ±45"              | ±45"                             | ±45"          | ±45"         | ±45"   | 80 "   | 80 "   | 80 "    |
| 主轴在任意1/4圆周上的累积误差<br>Cumulate error at any 1/4 periphery of spindle                                         | ±1°               | ±1°                              | ±1°           | ±1°          | ±70°   | ±70°   | ±70°   | ±70°    |
| 最大承载<br>Max.bearing kg                                                                                     | 100               | 130                              | 130           | 130          | 100    | 130    | 130    | 130     |
| 净重Net weight Kg                                                                                            | 57                | 83.5                             | 100           | 130          | /      | /      | /      | /       |
| 毛重Gross weight Kg                                                                                          | 69                | 96                               | 114           | 140          | /      | /      | /      | /       |
| 箱体尺寸Overall dimensions mm                                                                                  | 616<br>495255     | 96<br>460310                     | 114<br>535342 | 140<br>53534 | /      | /      | /      | /       |

F12系列万能分度头安装尺寸参数: Installation sketch and dimensions:

| Model    | A   | B  | C   | D   | E   | F   | G   | H   | L   | M    | N    | O   | P   |
|----------|-----|----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|
| F121000A | 162 | 14 | 102 | 87  | 186 | 95  | 116 | 100 | 93  | 54.7 | 30   | 100 | 100 |
| F12125A  | 209 | 18 | 116 | 98  | 224 | 117 | 120 | 125 | 103 | 68.5 | 34.5 | 100 | 125 |
| F12160A  | 209 | 18 | 116 | 98  | 259 | 152 | 120 | 160 | 103 | 68.5 | 34.5 | 100 | 160 |
| F12200A  | 209 | 18 | 116 | 98  | 299 | 192 | 120 | 200 | 103 | 68.5 | 34.5 | 100 | 200 |
| F12500   | 490 | 22 | 300 | 330 | 790 | 500 | 160 | 500 |     |      |      |     |     |

注:配带附件Accessories

尾座Tailstock顶尖Center分度盘Dividing plate法兰盘Flange三爪卡盘3-jaw chuck

圆工作台(特殊订货) Round table(optional)

# BS系列半万能分度头

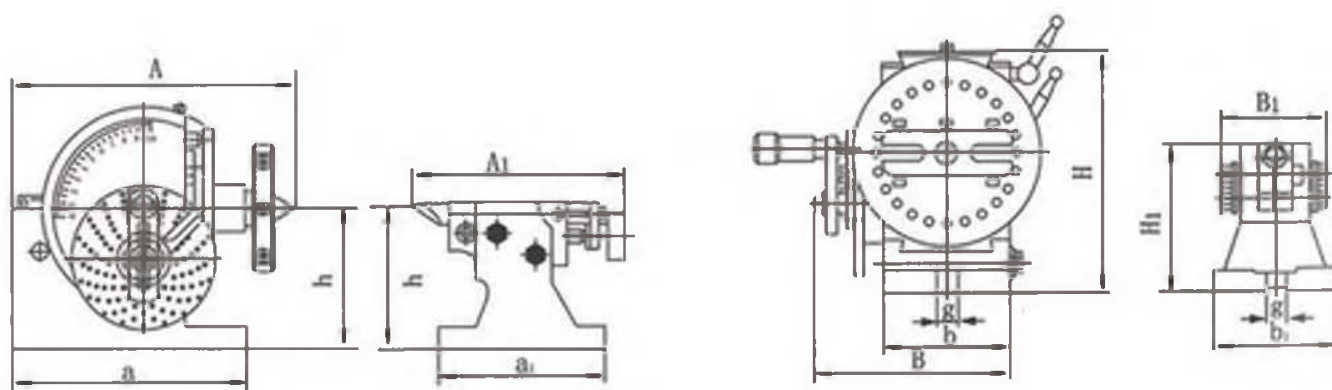
## BS series semi-universal dividing head

### 分度头

半万能分度头是简易的分度中心,可直接、间接分度。完成面、槽、齿加工,不需配件。但整体结构与万能分度头相同,快速分度的24孔直接进行2,3,4,6, 8, 12, 24等分分度,随机附3个分度板间接分度等分数2-50,51-3801。

### Features:

Semi-Universal Dividing Head is a simple Index Center and can be used for direct and indirect dividing. Complete the gear, face, flute processing and no need accessories, but the whole construction is the same as universal type. The 24 quick-dividing holes can complete 2, 3, 4, 6, 8, 12, 24 division indexing. Attaches 3 dividing plate along with the dividing head indirect dividing in any division indexing 2-50, 51-380.



SEMI-UNIVERSAL INDEX CENTER B&S TYPE NO.0, NO.1 (HEAD-STOCK)

| Model | A    | B    | H    | h    | a    | b    | g    | Taper of center | Diameter of Spindle hole | N.W.(kg) |
|-------|------|------|------|------|------|------|------|-----------------|--------------------------|----------|
| BS-0  | 193  | 140  | 173  | 100  | 166  | 90   | 16   | M12             | 18                       | 22       |
|       | 7.59 | 5.51 | 6.81 | 3.93 | 6.53 | 3.54 | 0.63 | B&S NO.7        |                          |          |
| BS-1  | 242  | 180  | 220  | 128  | 206  | 113  | 16   | M13             | 20                       | 35.8     |
|       | 9.52 | 6.61 | 8.66 | 5.04 | 8.11 | 4.45 | 0.63 | B&S NO.9        |                          |          |

### OPTIONAL ACCESSORY

3-jaw Chuck

4" or 5" 3-jaw Chuck for BS-0

5" or 6" or 8" 3-jaw Chuck for BS-1

6" or 8" 3-jaw Chuck for BS-2

### STANDARD ACCESSORIES

Dividing plate A.B.C.

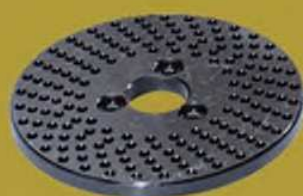
Numbers of holes of dividing plate  
(worm gear reduction ratio 1:40)

SEMI-UNIVERSAL INDEX CENTER B&S TYPE NO.0, NO.1 (HEAD-STOCK)

Unit:mm

Unit:mm

| Numbers of hole | PlateA | 15 | 16 | 17 | 18 | 19 | 20 | Model | A1   | B1   | H1   | h    | a1   | b1   | g1   | N.W (kg)                      | Mueasurement m <sup>3</sup> |
|-----------------|--------|----|----|----|----|----|----|-------|------|------|------|------|------|------|------|-------------------------------|-----------------------------|
|                 | PlateB | 21 | 23 | 27 | 29 | 31 | 33 | BS-0  | 180  | 78   | 107  | 100  | 130  | 92   | 16   | Packed with the Dividing Head |                             |
|                 |        |    |    |    |    |    |    |       | 6.89 | 3.42 | 4.21 | 3.93 | 3.93 | 3.62 | 0.63 |                               |                             |
|                 | PlateC | 37 | 39 | 41 | 43 | 47 | 49 | BS-1  | 183  | 87   | 128  | 128  | 175  | 124  | 16   | Packed with the Dividing Head |                             |
|                 |        |    |    |    |    |    |    |       | 7.20 | 3.42 | 5.39 | 5.04 | 5.04 | 4.33 | 0.63 |                               |                             |



BS-0-5C

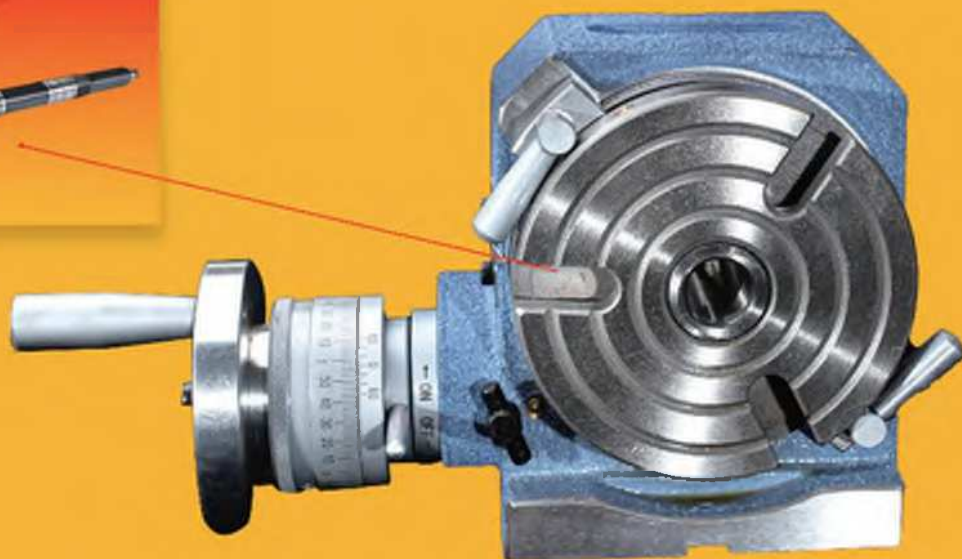
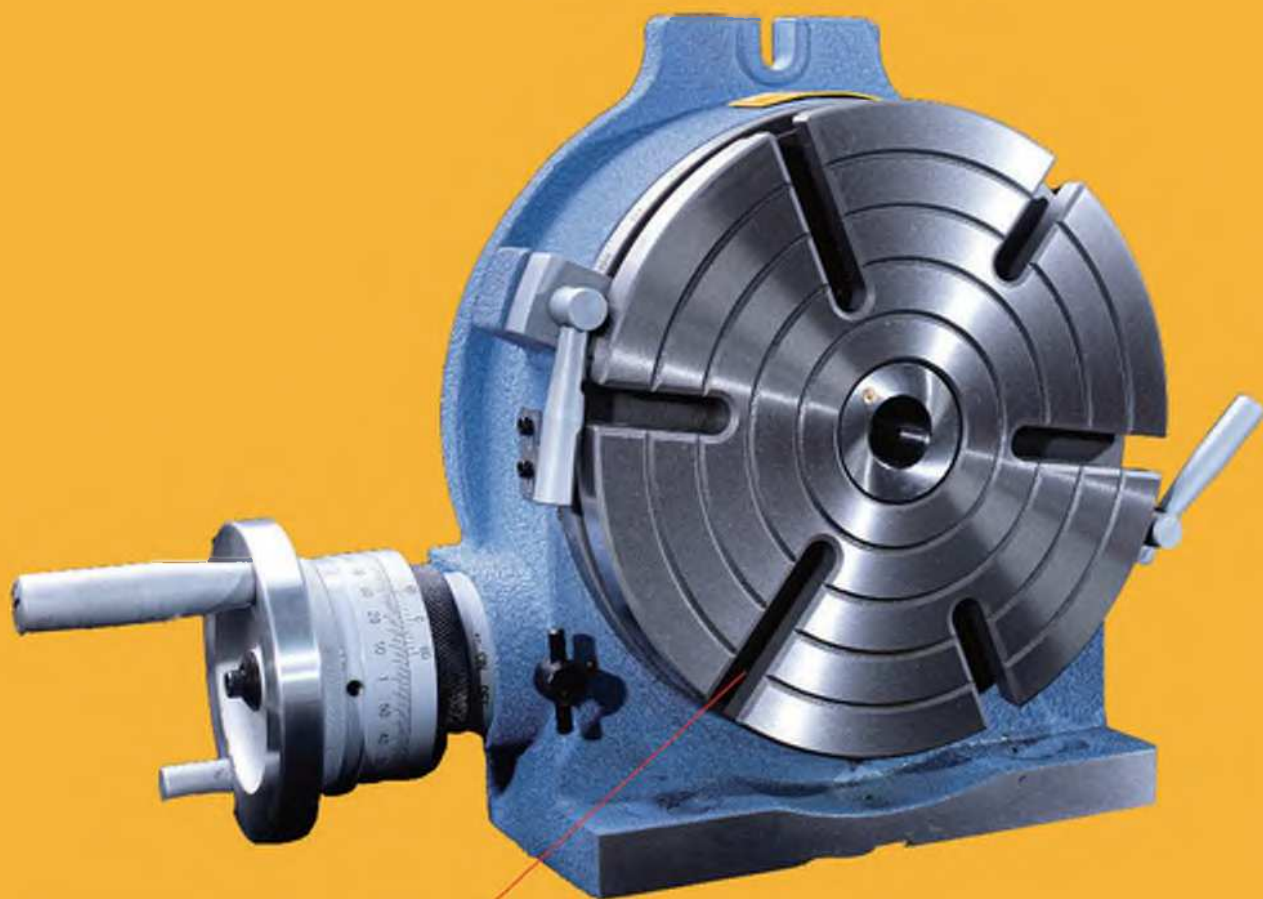


BS-1-8C



# 立卧回转工作台

Vertical&horizontal rotary table





5寸卡盘  
5 " Chuck

HV-6 组合套装

DP-1蜂巢板  
DP-1Dividing Plates

TS-1可调尾座  
TS-1Tail Stock



6寸法兰  
6 " Flange

6寸卡盘  
6 " Chuck

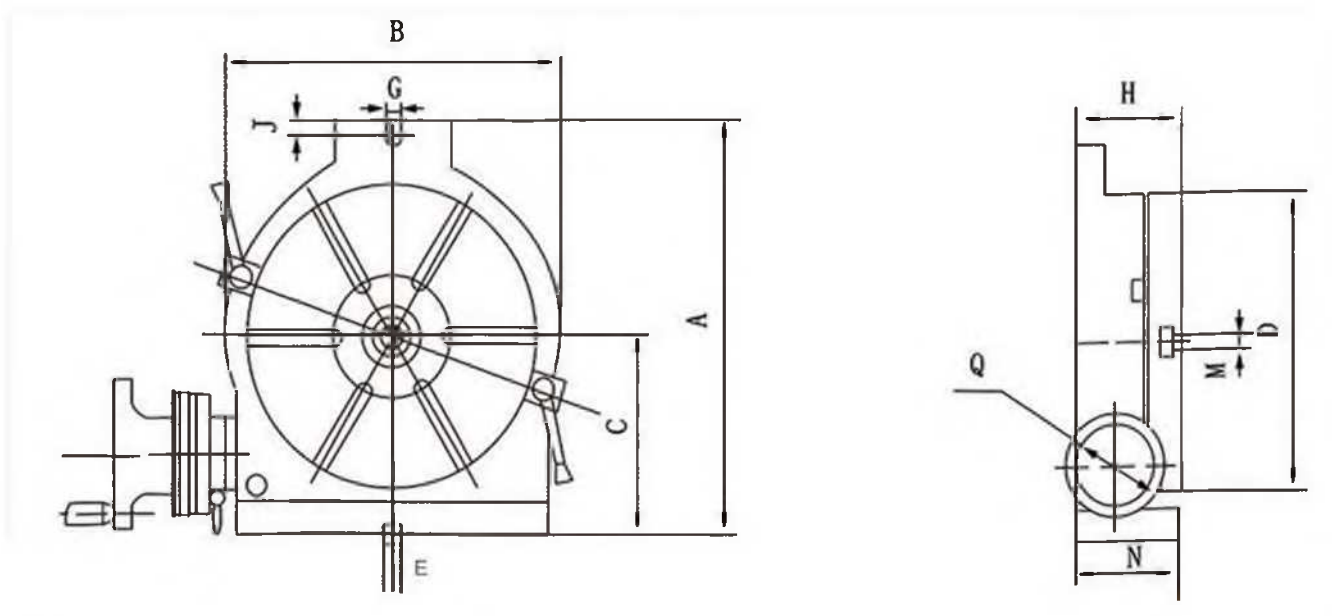
HV-8 组合套装

DP-2蜂巢板  
DP-2Dividing Plates

TS-2可调尾座  
TS-2Tail Stock

# 立卧回转工作台

## 安装尺寸图DIMENSIONAL SKETCH

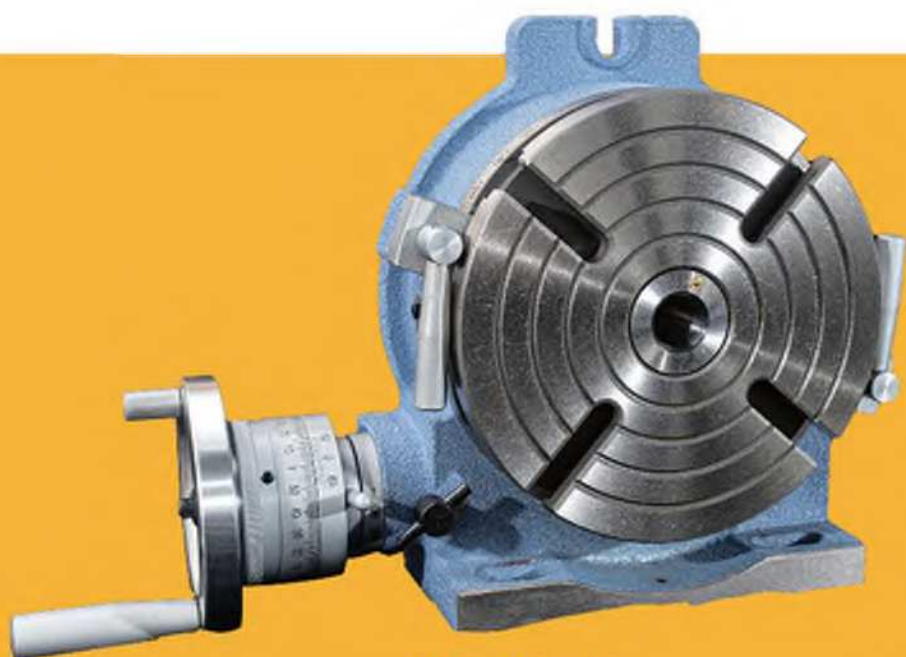


### 主要规格和参数: Main technical parameter:

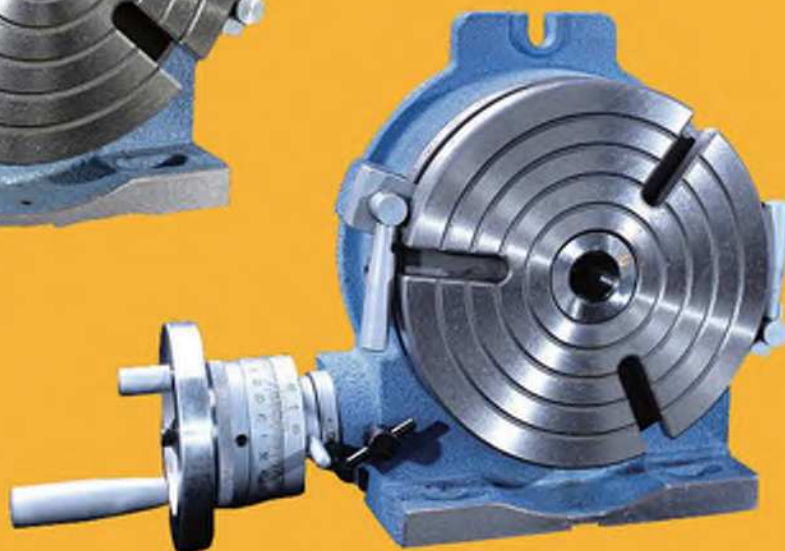
| 项目Items                                                                 | 规格Specifications<br>公制/英制Metric/Inch |  | TSL75<br>HV3° | TSL100<br>HV4° | TSL125<br>HV5° | TSL150<br>(HV6)        | TSL200<br>(HV8) | TSL250<br>(HV10) | TSL300<br>(HV12) | TSL350<br>(HV14) | TSL400<br>(HV16) | TSL630<br>(HV20) |
|-------------------------------------------------------------------------|--------------------------------------|--|---------------|----------------|----------------|------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|
|                                                                         |                                      |  |               |                |                |                        |                 |                  |                  |                  |                  |                  |
| 工作台直径<br>Diameter of table mm                                           |                                      |  | φ76.2         | φ110           | φ127           | φ150                   | φ200            | φ250             | φ300             | φ350             | φ400             | φ630             |
| 台面中心孔锥度(莫氏)<br>Morse taper of the center hole                           |                                      |  | MT2           | MT2            | MT2            | MT2                    | MT3             | MT3              | MT4              | MT4              | MT4              | 200              |
| 工作台垂直时中心高<br>Height of center for verti mounting mm                     |                                      |  | 59            | 85.5           | 90             | 100                    | 135             | 165              | 195              | 230              | 260              | 400              |
| 台面T型槽宽度<br>Width of T-slot mmx                                          |                                      |  | 8             | 12             | 12             | 14                     | 14              | 14               | 16               | 16               | 16               |                  |
| 台面T型槽相邻角度<br>Adjacent angle of T-slot                                   |                                      |  | 90°           | 120°           | 120°           | 90°                    | 90°             | 60°              | 60°              | 60°              | 60°              | 18               |
| 定位键宽度<br>Width of the locking key mm                                    |                                      |  | 12            | 12             | 12             | 16                     | 16              | 16               | 16               | 16               | 18               | 22               |
| 蜗轮副模数<br>Modules of worm and worm gear                                  |                                      |  | 1             | 1              | 1              | 1                      | 1.5             | 1.5              | 2                | 2                | 2.5              | 4                |
| 蜗轮副传动比<br>Transmission ratio of the worm gear                           |                                      |  | 1:36          | 1:72           | 1:72           | 1:90                   | 1:90            | 1:90             | 1:90             | 1:90             | 1:90             | 1:20             |
| 工作台圆周刻度<br>Graduation of the table                                      |                                      |  | 360°          | 360°           | 360°           | 360°                   | 360°            | 360°             | 360°             | 360°             | 360°             | 360              |
| 蜗杆每转所代表的转台度数<br>Rotating angle of table with one revolution of the worm |                                      |  | 10            | 5              | 5              | 4° (1' Per graduation) |                 |                  |                  |                  |                  | 3°               |
| 游标最小示值<br>Minimum value of vernier                                      |                                      |  | /             | /              | /              | 10°                    | 10°             | 10°              | 10°              | 10°              | 10°              | 10°              |
| 分度精度<br>Indexing accuracy                                               |                                      |  | /             | /              | /              | 60°                    | 60°             | 60°              | 60°              | 60°              | 60°              | 60°              |
| 最大承载(卧式)<br>Max. bearing ( With table Hor. ) kg                         |                                      |  | 15            | 40             | 50             | 100                    | 150             | 200              | 250              | 300              | 350              | 450              |
| 最大承载(立式)<br>Max. bearing ( With table vert. ) kg                        |                                      |  | 10            | 20             | 25             | 50                     | 75              | 100              | 125              | 150              | 175              | 200              |

TSL系列回转工作台安装尺寸参数: Installation sketch and dimensions:

| 公制/英制<br>Metric/inch    | TSL75(HV-3) | TSL100(HV-4) | TSL125(HV-5) | TSL150(HV-6) | TSL200(HV-8) | TSL250(HV-10) | TSL300(HV-12) | TSL350(HV-14) | TSL400(HV-16) | TSL630(HV-20) |
|-------------------------|-------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
| MODEL                   |             |              |              |              |              |               |               |               |               |               |
| A                       | 98          | 146          | 155          | 200          | 265          | 325           | 388           | 450           | 525           | 765           |
| B                       | 78          | 115          | 127          | 160          | 220          | 280           | 330           | 390           | 450           | 680           |
| C                       | 59          | 85.5         | 90           | 100          | 135          | 165           | 195           | 230           | 260           | 400           |
| D                       | Φ76.2       | Φ110         | Φ127         | Φ150         | Φ200         | Φ250          | Φ300          | Φ350          | Φ400          | 630           |
| E                       | 12          | 12           | 12           | 16           | 16           | 16            | 16            | 16            | 18            | 22            |
| G                       | /           | /            | /            | 16           | 17           | 17            | 17            | 17            | 17            | 22            |
| H                       | 83          | 85           | 85           | 86           | 105          | 120           | 135           | 135           | 145           | 220           |
| J                       | /           | /            | 15           | 10           | 15           | 15            | /             | /             | /             | 30            |
| M                       | MT2         | MT2          | MT2          | MT2          | MT3          | MT3           | MT4           | MT4           | MT4           | 200通孔         |
| N                       | 68          | 68           | 68           | 78           | 98           | 110           | 130           | 130           | 130           | 220           |
| 净重<br>Net weight kg     | 8           | 11           | 13.5         | 14           | 28           | 43            | 71            | 83            | 93            | 500           |
| 毛重<br>Gross weight kg   | 9           | 11.5         | 14           | 15           | 30           | 45            | 73            | 85            | 95            | 550           |
| 箱体尺寸<br>Case dimensions | 187x94x113  | 294x243x130  | 294x243x130  | 294 x243x130 | 380x 300x160 | 430x350x180   | 550x450x190   | 550x480x190   | 550x500x200   | 820x820x240   |



HV-6/HV-8四槽



HV-6/HV-8三槽

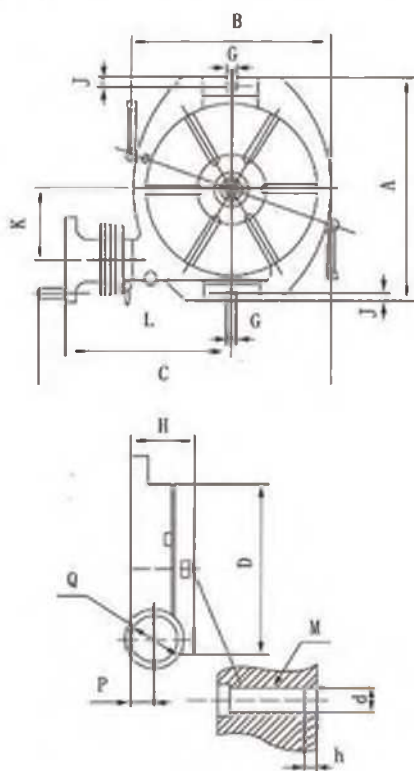
## 卧式回转工作台

Rotary table



Ts...A系列回转工作台

安装尺寸图 DIMENSITONAL SKETCH



◆卧式回转工作台是铣床的主要附件之一, 可用在铣床上进行分度、钻孔或铣削、圆周切削、圆周曲面加工、平面及部分线段的直线加工作。

◆每个规格的转台分别提供连接不同法兰盘, 作为特殊订货, 并将法兰盘独立包装。另外, 为特殊订货所提的分度盘附件可实现2至66间所有整数和由67到132间能被2、3和5整除的所有整数的分度。

Rotary table is one of the most important accessory of milling machine. It is widely used for index boring, miligcircle cutting, circle curve plane and segment etc operation.

◆As a option, different table supply different flange, flange will be packed separately, otherwise, dividing plates which provides from the option can indexing all of the integer between 2 and 66 also can indexing the numbers between 67 and 132 can be divided exactly by numbr 2、3 and 5.

主要规格和参数Main technical parameter:

1:90 1:90 1:120 1:120 1:90 1:120 1:120

| 项目 Item                                       | TS150A          | TS200A          | TS250A          | TS320A          | TS400A          | TS500A          | TS630A          | TS800A            | TS1000A           | TS1250            | TS1600         |
|-----------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|-------------------|----------------|
| 工作台面直径<br>Table diameter mm                   | Φ150            | Φ200            | Φ250            | Φ320            | Φ400            | Φ500            | Φ630            | Φ800              | Φ1000             | Φ1250             | Φ1600          |
| 台肩中心孔精度(莫氏)<br>Morse taper of the center hole | 2#              | 3#              | 3#              | 4#              | 4#              | 5#              | 5#              | 6#                | 6#                | 6#                | 6#             |
| 台面T型槽宽度<br>Width of the T-slot mm             | 14              | 14              | 14              | 14              | 16              | 18              | 18              | 22                | 22                | 22                | 22             |
| 台面T型槽相邻角度<br>Adjacent angle of table T-slot   | 90°             | 90°             | 60°             | 60°             | 60°             | 45°             | 45°             | 45°               | 45°               | 45°               | 45°            |
| 定位键宽度<br>Width of the locating key mm         | 16              | 16              | 14              | 14              | 18              | -               | -               | -                 | -                 | 22                | 22             |
| 工作台面周刻度<br>Graduation of the table            | 360°            |                 |                 |                 |                 |                 |                 |                   |                   | 360°              | 360°           |
| 游标最小示值<br>Minimum value of vernier            | 10"             |                 |                 |                 |                 |                 |                 |                   |                   | 10"               | 10"            |
| 分度精度<br>Indexing accuracy                     | 80"             | 60"             |                 |                 |                 |                 |                 |                   |                   |                   | 60"            |
| 工作台最大承载<br>Max workload kg                    | 50              | 100             | 150             | 200             | 250             | 300             | 700             | 1200              | 2000              | 3000              | 8000           |
| 净重<br>Net weight kg                           | 16.5            | 22.5            | 33.5            | 65              | 125             | 215             | 345             | 800               | 1300              | 1580              | 2500           |
| 毛重<br>Gross weight kg                         | 21.5            | 31              | 44.5            | 76              | 145             | 238             | 377             | 855               | 1400              | 1700              | 2700           |
| 箱体尺寸<br>Overall dimensions mm                 | 294x243<br>x130 | 400x360<br>x208 | 500x400<br>x210 | 580x480<br>x238 | 750x616<br>x280 | 850x730<br>x302 | 995x900<br>x326 | 1175x1090<br>x391 | 1430x1224<br>x550 | 1450x1450<br>x450 | 178x178<br>x50 |

TS…A系列回转工作台安装尺寸参数Installation sketch and dimensions

| Model | TS160A | TS200A | TS250A | TS320A | TS400A | TS500A | TS630A | TS800A | TS1000A | TS1250A | TS1600A |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| A     | 213    | 280    | 330    | 420    | 500    | 610    | 920    | 1000   | 1170    | 1400    | 1700    |
| B     | 186    | 238    | 286    | 360    | 450    | 560    | 700    | 890    | 1080    | 1300    | 1664    |
| C     | 260    | 390    | 422    | 480    | 640    | 680    | 898    | 1090   | 1295    | 1450    | 1731    |
| D     | Φ150   | Φ200   | Φ250   | Φ320   | Φ400   | Φ500   | Φ630   | Φ900   | Φ1000   | 1250    | 1600    |
| G     | 16     | 16     | 14     | 14     | 18     | 22     |        | 22     | —       | 22      | 22      |
| H     | 86     | 105    | 97     | 125    | 140    | 140    | 160    | 215    | 250     | 290     | 320     |
| J     | 12     | 14     |        | 18     |        | 22     |        | 30     | —       | 30      | 30      |
| K     | 54     | 85     | 102.5  | 128.5  | 135    | 180    | 295    | 364    | 364     | 530     | 666     |
| L     | 165    | 211    | 230    | 240    | 345    | 383    | 488    | 535    | 654     | 6900    | 891     |
| M     | MT2    | MT3    |        | MT4    |        | MT5    |        | MT6    |         | MT6     | MT6     |
| P     | 27     | 30     | 30.5   | 44     | 50     | 65     | 60     | 78     | 108     | 108     | 108     |
| Q     | Φ85    | 115    |        |        | 140    | 140    | 220    | 250    |         | 250     | 250     |
| d     | Φ17    | Φ23    |        | Φ31    |        | Φ50    |        | Φ50    |         | Φ55     | Φ55     |
| h     | 6      |        |        | 6      |        | 12     |        | 14     |         | 14      | 14      |

特殊订货Optional:

分度盘附件1套Dividing plate 1 set

法兰盘附件1套Flange 1 set

## 转台配件

### Accessories Of Rotary Table

Dividing Plate set includes index plate, crank handle , 3 pcs screw , sector , and U-washer.

| MODEL | Used of Model              |
|-------|----------------------------|
| DP-1  | HV-3,HV-4,HV-5,HV-6,TS160, |

| Number of the holes of Dividing Plates |                       |
|----------------------------------------|-----------------------|
| A-Plate                                | 15 ,16,17 ,18 ,19 ,20 |
| B-Plate                                | 21,23. 27,29,31. 33   |
| A-Plate                                | 37 , 39, 41,43,47,49  |

| MODEL | Used of Model                              |
|-------|--------------------------------------------|
| DP-2  | HV8, 10, 12 , 14 / TS200,TS250,TS320,TS400 |

| Number of the holes of Dividing Plates |                                   |
|----------------------------------------|-----------------------------------|
| A-Plate                                | 26, 30, 34,38, 41 . 44, 47,51, 57 |
| A-Plate                                | 28,32,37 ,39,43,46,49,53,59       |
| B-Plate                                | 61, 67, 71, 77,81,87, 91,97       |
| B-Plate                                | 63, 69,73,79,83,89,93,99          |



## Tail Stock可调尾座

| 型号<br>Model No. | 顶尖高度          |              | 适用型号<br>Used for Model  |
|-----------------|---------------|--------------|-------------------------|
|                 | 最大 Max        | 最小 Min       |                         |
| TS-O            | 90<br>3.54"   | 42<br>1.65"  | HV-3 HV-4 HV- 5         |
| TS-1            | 131<br>5.15"  | 97<br>3.81"  | HV6, CC-6, CS-6         |
| TS-2            | 210<br>8.26"  | 130<br>5.12" | HV8, 10, 12, CC-8, CS-8 |
| TS-3            | 300<br>11.81" | 210<br>8.27" | HV-14, HV-16            |



## Flan法兰盘

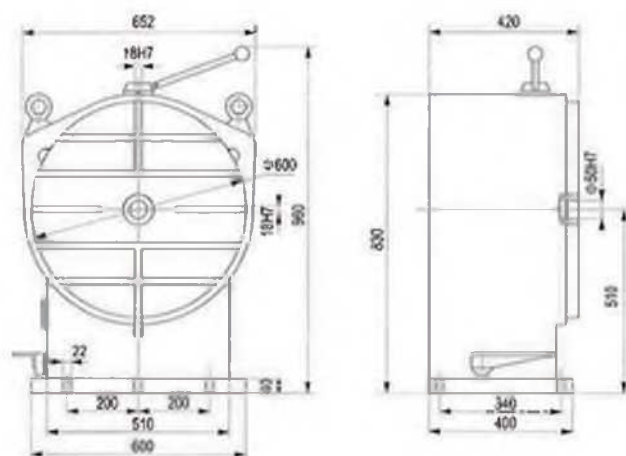
| MODEL NO | USED FRO MODEL       |
|----------|----------------------|
| F-3"     | HV-3, TSK3           |
| F-3"     | HV 4, TSK4           |
| F-4"     | HV-5, TSK5           |
| F-5"     | HV-6, TSK6, TS160    |
| F-6"     | HV-8, TSK-8, TS200   |
| F-8"     | HV-10, TSK250, TS250 |
| F-10"    | HV-12, TS320, TSK320 |
| F-12"    | HV14                 |
| F-14"    | HV-16, TSK400, Ts400 |

# T36600×12型立式等分回转工作台

## T36600×12 VERTICAL DIVIDING HEAD

◆T36600X12型立式等分回转工作台是手动分度钻孔，可将工件分为12等分，具有稳定性好、操作方便等特点，能迅速快捷地完成孔加工工作。

◆T36600X12 vertical dividing head is one of the most important attachment for drilling machine. With the help of the product, the workpiece 12 divisions can be carried out. It is simple in construction, easy in operation and reliable.



主要规格和参数: Main specifications

| 项目 Items                                | 参数 Parameter |
|-----------------------------------------|--------------|
| 工作台直径(mm)Table diameter                 | Φ600         |
| 工作台中心高(mm)Center height                 | 510          |
| 工作台总高度(mm)Table whole height            | 960          |
| 工作台总厚度(mm)Table whole thickness         | 420          |
| 中心孔(直径×深度) (mm)centre hole(Dia.x depth) | Φ50H7x35     |
| 台面T型槽宽度(mm)Width of T-slot              | 18H7, 18H12  |
| 可分等分数Divisions                          | 12           |
| 12等分单个分度误差Divisions individual error    | ± 30 "       |
| 净重Net weight Kg                         | -            |
| 毛重Gross weight Kg                       | 660          |
| 箱体尺寸Case dimensions mm                  | 1080x868x582 |

## WZK型系列可调尾座

### TYPE WZK SERIES ADJUSTABLE TAILSTOCK

WZK100-1,WZK140,WZK180,WZK224可调尾座是TSL (HV)系列立卧回转工作台及其它机床附件配套附件之一。它与TSL系列回转工作台及其他机床附件配合使用，可加工顶尖支承的轴类工件。

◆注:WZ K100-1可调尾座配用FNL100B分度头，WZ K140可调尾座配用TSL160(HV-6)转台，WZK180可调尾座配用TSL200(HV-8)、TSL250(HV-10)转台，WZK224可调尾座配用TSL320(HV-12)转台。

WZK100-1,WZK140,WZK180,WZK224 is designed for use with the vertical rotary tables.The tailstock is used to hold center shaft,cylinders and other workpieces for the machining of grooves,splines,flatskeyways,ect.The center height and angle are adjustable.The center is retractable

for repeated operations.Center is securely locked into position with clamp.

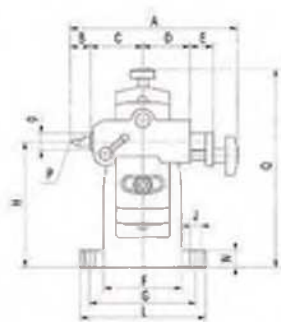
Note:Type WZK100-1 adjustable tailstock is matched to FNL100B.Type WZK140 adjustable tailstock is matched to TSL160.Type WZK180

adjustable tailstock is matched to TSL200 and TSL250.WZK224 adjustable tailstock is mached to TSL320.

#### 主要规格和参数: Main specifications

| 项目Items                                                  | 规格Specifications | WZK100-1          | WZK140             | WZK180             | WZK224      |
|----------------------------------------------------------|------------------|-------------------|--------------------|--------------------|-------------|
| 顶尖锥孔中心至底平面距离<br>Distance between taper center to base mm |                  | Max.100<br>Min.80 | Max.140<br>Min.100 | Max.180<br>Min.140 |             |
| 顶尖套中心孔锥度<br>Taper of Center                              |                  |                   |                    | MT2                |             |
| 定位键宽度<br>Width of locating key mm                        |                  | 12                | 14                 | 14                 | 18          |
| 顶尖中心轴线可倾角度<br>Tilting angle of center axes               |                  | $\pm 11^{\circ}$  |                    |                    |             |
| 顶尖套轴向最大移动量<br>Stroke of center mm                        |                  | 25                |                    |                    |             |
| 净重<br>Net weight Kg                                      |                  | 6                 | 8                  | 14.5               | 16.5        |
| 毛重<br>Gross weight Kg                                    |                  | 8                 | 10                 | 18.5               | 21          |
| 箱体尺寸<br>Case dimensions mm                               |                  | 257X230X192       | 281x230x194        | 353X308X223        | 398X308X223 |

#### WZK型系列可调尾座安装尺寸图Dimensional sketch



#### NZK型系列可调尾座安装尺寸参数: Installation sketch and dimensions:

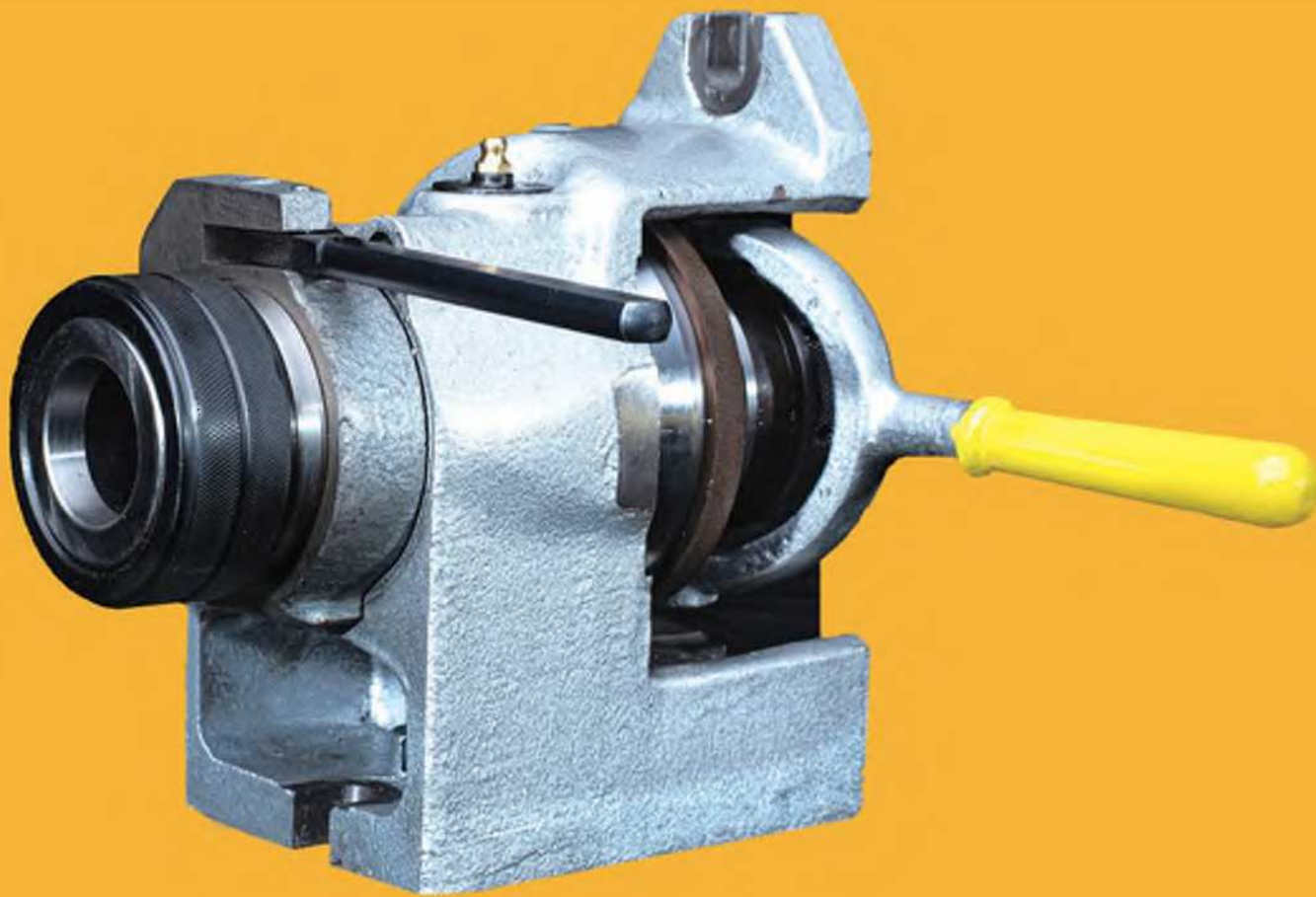
|          | A   | B  | C  | D  | E  | F   | G   | H       | I  | J   | K    | L   | M   | N  | O     | P   | Q   |
|----------|-----|----|----|----|----|-----|-----|---------|----|-----|------|-----|-----|----|-------|-----|-----|
| WZK100-1 | 169 | 34 | 50 | 45 | 18 | 100 | 130 | 80-100  | 18 | Φ12 | 12k7 | 152 | 95  | 20 | Φ18H7 |     | 188 |
| WZK140   | 169 | 34 | 50 | 45 | 18 | 110 | 140 | 100-140 | 18 | Φ14 | 14k7 | 162 | 98  | 20 | Φ18H7 |     | 228 |
| WZK180   | 281 | 36 | 87 | 80 | 38 | 130 | 172 | 140-180 | 28 | Φ14 | 14k7 | 200 | 125 | 24 | Φ28H7 | MT2 | 277 |
| WZK224   | 281 | 36 | 87 | 80 | 38 | 130 | 178 | 180-224 | 28 | Φ18 | 18k7 | 210 | 125 | 28 | Φ28H7 | MT2 | 321 |

## FNL100B型立卧等分分度头

### FNL100B HORIZONTAL VERTICAL COLLET INDEX

FNL100B立卧等分分度头可安装在铣、磨、钻及其它各种机床上，协助机床完成2、3、4、6、8、12、24七种等分的分度加工。亦可用于对零件进行等分划线工作。该装置体积小、重量轻，可安装5C弹簧夹头。

FNL 100B can be mounted on milling machine, grinding machine, drilling machine and other machine tools. The divisions of 2, 3, 4, 6, 8, 12, and 24 can be divided. It can also be used for marking out of components. This index has the advantage of use in horizontal and vertical, compact construction, light in weight, operating by single handle, it can accept a 5C collet. Consequently, it is a reliable device for enhancing work efficiency.





# 迷你型立卧两用分度盘

Mini Series Rotary Table



A 3" Tilting Rotary Table



B 3" Rotary Table With Clamps



C 4" Rotary Table with Tilting Base



D 4" Rotary Table with set of Clamps



### A 3" Tilting Rotary Table

Manufactured from precision-ground graded casts iron  
Worn gear is hardened and ground  
Work table is graduated to a full 360°  
Collar is graduated in 15 minute increments  
Gear ratio: 36:1  
Table tilt - 90°  
Table height in horizontal position: 2 1/8" g  
T-slot size: 5/16"  
Mounting hole size: 5/16"

### B 3" Rotary Table With Clamps

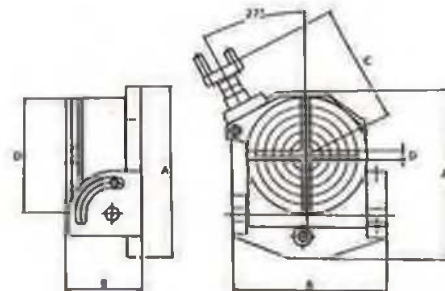
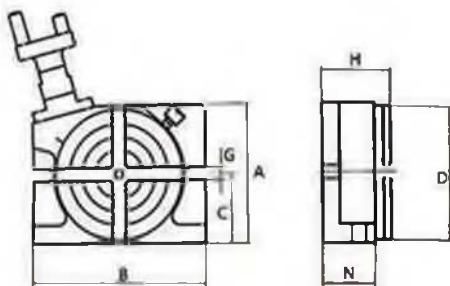
Horizontal or vertical use  
Table height in horizontal position: 1 5/8"  
Table height in vertical position: 3 1/4"  
3" Diameter table rotates 360°  
Low profile, only 1 6/7" tall  
5/16" T-slots  
5/16" Mounting holes  
1:36 Ratio or 10° per handwheel revolution  
Scale reads to 15°  
Bass lock knob

### C 4" Rotary Table with Tilting Base

This 4" Rotary Table offers the added benefit and flexibility of a 90° tilting base. Great for precision model making applications where table angle setting is important.  
Features 360° table rotation, four 5/16" T-slots, 1:36 handwheel ratio, 5 Minute scale resolution, and ball-bearing rotary support. Table measures 2 5/8" high in the horizontal position. 5/16" Mounting holes.

### D 4" Rotary Table with set of Clamps

This is the perfect rotary table for all your model makers and those doing small precision work. It features a whole degree scale on the dial, worn gear drive, lash adjustment screw, reference lines, and ball bearing rotary support. Comes supplied with 2 each: 6mm clamping studs -- 2 @ 1g" long, T-nuts, clamping straps, and steps. Table height in horizontal position is 2 1/8", table height in vertical position is 4 1/8". This remarkable little rotary table is priced affordably, too!



| MODEL | M-HV-3 | M-HV-4 |
|-------|--------|--------|
| A     | 84     | 105.5  |
| B     |        |        |
| C     | 42     | 54     |
| D     | 80     | 102    |
| G     | 8      | 10     |
| H     | 44     | 55     |
| N     | 30     | 40     |

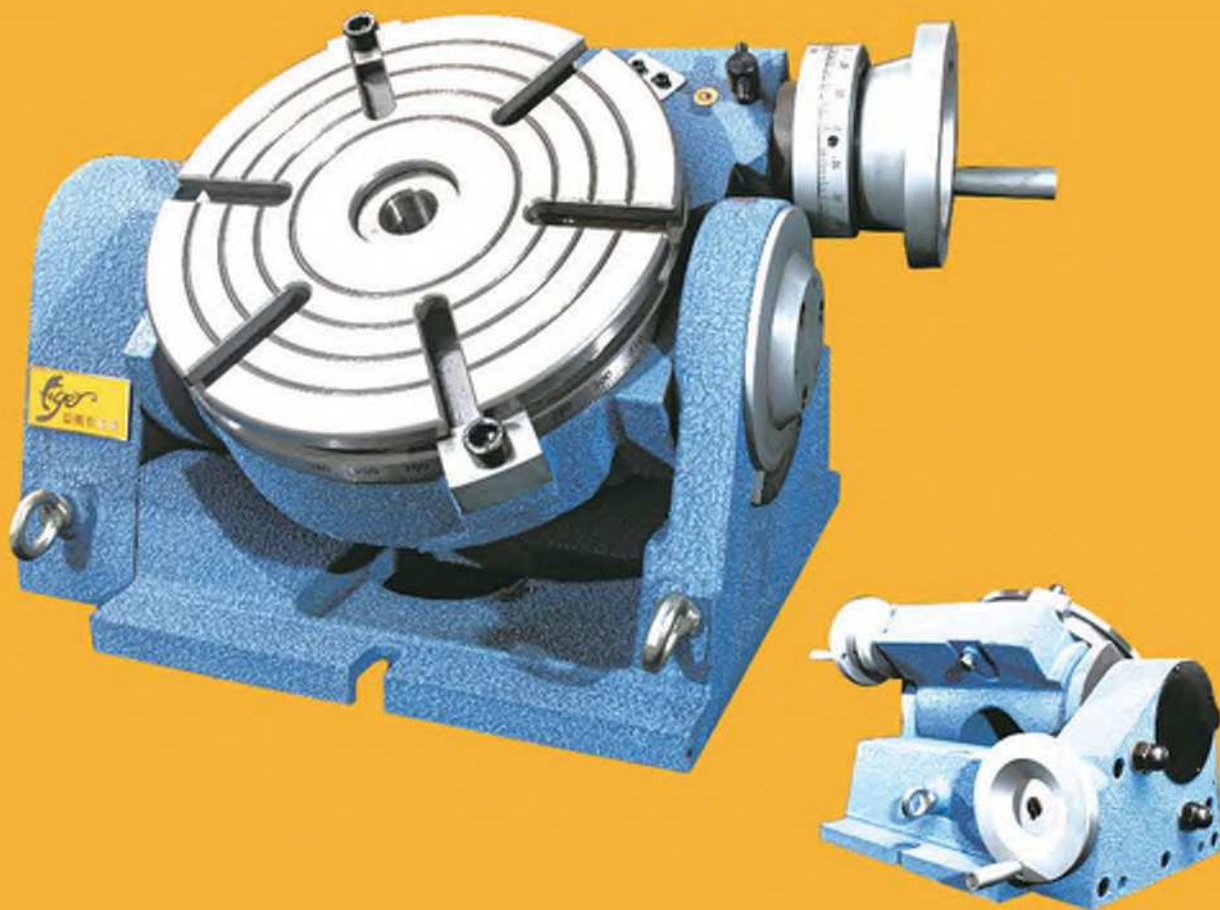
| MODEL | M-TSK-3 | M-TSK-4 |
|-------|---------|---------|
| A     | 104     | 143     |
| B     | 108     | 130     |
| C     | 95      | 105     |
| D     | 80      | 102     |
| d     | 8       | 18      |
| H     | 55      | 68      |

## 可倾回转工作台

tilting rotary table

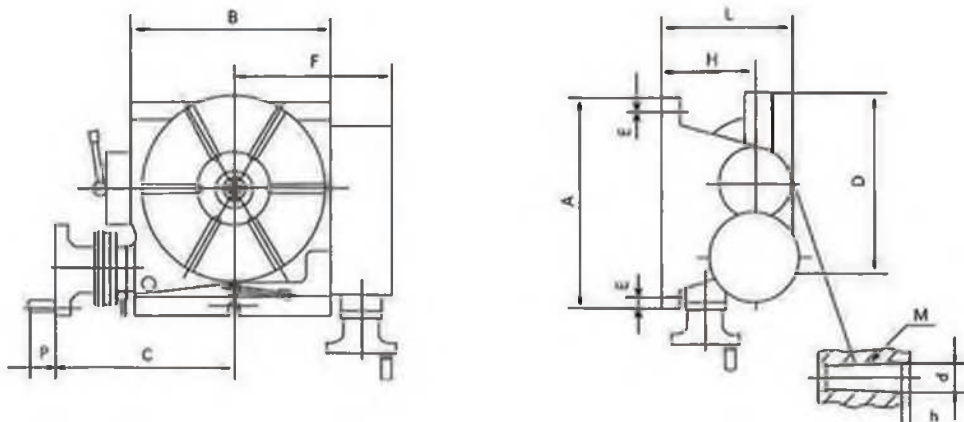
- ◆可倾回转工作台是铣床、镗床、钻床的主要附件之一,主要用于加工斜孔或通过一次装夹定位加工除支撑面以外要求从工作中的各方位进行加工的工件。另外,工作台可以垂直位置与尾座配合使用,对工作进行圆周分度钻削和铣削。
- ◆工作台可从水平位置到垂直位置间(  $0^{\circ} - 90^{\circ}$  )任意调整并锁紧。
- ◆每个规格的转台分别提供连接不同卡盘的法兰盘,作为特殊订货,并将法兰盘独立包装,另外,为特殊订货所提供的分度盘附件可实现由2至66间所有整数和由67到下132间能被2, 3和5整数的所有整数的分度。

- ◆Tilting rotary tables are one of main accessories for milling, boring and drilling machines. They can be used for machining, the oblique hole or surface and hole of compound angle at one set-up. Besides this, it is so designed as to be used in a vertical position to carry out center work with a tailstock.
- ◆This table can be tilted to any position from  $0^{\circ}$  to  $90^{\circ}$  and locked.
- ◆A flange for connecting scroll chuck is special supplied, and be packed independent. For special order, the dividing plates accessory allows the operator to accurately divide the  $360^{\circ}$  rotation of the clamping surface into divisions of 2 through 66, and all divisible of 2, 3 and 5 from 67-132.



## 可倾回转工作台

### 安装尺寸图Dimensional sketch



| 项目Items                                            | 规格Specifications | TSK250      | TSK320      | TSK400      | TSK630       | TSK1250    |
|----------------------------------------------------|------------------|-------------|-------------|-------------|--------------|------------|
| 工作台尺寸<br>Diameter of table mm                      |                  | Φ250        | Φ320        | Φ400        | Φ630         | Φ1250      |
| 台面中心孔锥度(莫氏)<br>Morse taper of the center hole      |                  | 3#          | 4#          |             | 通孔Φ120       | 70         |
| 台面T型槽宽度<br>Width of T-Slot mm                      |                  | 14          | 14          | 16          | 18           | 22         |
| 蜗轮副模数<br>Modules of worm and worm gear             |                  | 1.5         | 2           | 2.5         |              | 5.5        |
| 定位键宽度<br>Width of the locating key mm              |                  | 18          | 18          |             | 22           | 22         |
| 台面T型槽相邻角度<br>Adjacent angle of T-slot              |                  |             | 60°         |             | 45°          | 45°        |
| 蜗轮副传动比<br>Transmission ratio of the worm gear      |                  |             | 1:120       |             | 1:120        | 1:180      |
| 工作台周向刻度<br>Graduation of the table                 |                  |             | 360°        |             | 360          | 360        |
| 工作台可倾角度<br>Tilting angle                           |                  |             | 0°~90°      |             | 0°~90°       | 0°~90°     |
| 轮台手轮刻度值<br>Readout of the handwheel                |                  |             | 1°          |             | 1°           | 1°         |
| 游标最小示值<br>Minimum value of wernier                 |                  |             | 10°         |             | 10°          | 10°        |
| 可倾游标最小示值<br>Minimum reading of the tilting vernier |                  |             | 2°          |             | 2°           | 2°         |
| 分度精度<br>Indexing accuracy                          |                  |             | 60°         |             | 60°          | 60°        |
| 最大承载(卧式)<br>Max.bearing(With table Hor.)kg         |                  | 200         | 250         | 300         | 1000         | 2000       |
| 最大承载(立式)<br>Max.bearing(with table Vert.)kg        |                  | 100         | 125         | 150         | 500 (含托架)    | 5000 (含托架) |
| 净重<br>Gross weight kg                              |                  | 80          | 135         | 280         | 700          | 2800       |
| 毛重<br>Net weight kg                                |                  | 93          | 150         | 305         | 780          | 3000       |
| 箱体尺寸<br>Overall dimensions mm                      |                  | 550x430x330 | 630x490x950 | 830x600x460 | 1280x820x670 |            |

可倾回转工作台安装尺寸参数Installation sketch and dimensions:

|   | TSK250 | TSK320 | TSK400 | TSK630 | TSK1250 |
|---|--------|--------|--------|--------|---------|
| A | 320    | 380    | 460    | 670    | 1230    |
| B | 265    | 330    | 410    | 1000   | 1638    |
| C | 240    | 245    | 280    | 480    | 1250    |
| D | Φ250   | Φ320   | Φ400   | 630    | 30      |
| E | 18     | 18     |        | 22     | 795     |
| F | 210    | 241    | 280    | 600    | 700     |
| H | 150    | 175    | 217    | 365    | 908     |
| L | 230    | 265    | 320    | 480    | 通孔70    |
| M | MT3    | MT4    |        | 通孔120  |         |
| P | 40     | 40     |        | 100    | 100     |
| D | Φ23    | 31     |        | 160    | 120     |
| H | 6      | 6      |        | 6      | 30      |

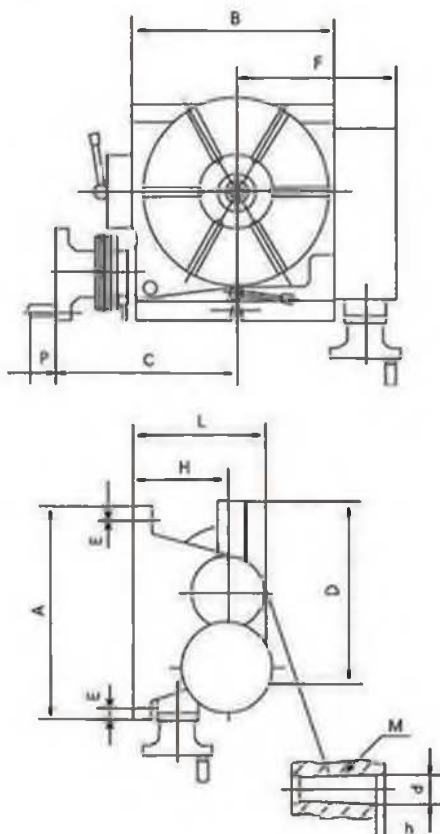
特殊订货Optional:分度盘附件 I 套Hole plate I 套法兰盘附件 I 套Flange I 套

# 手动可倾回转工作台

Manual tilting rotary table



TSK手动系列可倾回转工作台  
安装尺寸图Dimensional sketch



■手动可倾回转工作台是铣床、镗床、钻床的主要附件之一,主要用于加工斜孔或通过一次装夹定位加工除支撑面以外要求从工作中的各方位进行加工的工件。另外,工作台可以垂直位置与尾座配合使用,对工作进行圆周分度钻削和铣削。

■工作台可从水平位置到垂直位置间(  $0^{\circ} - 90^{\circ}$  )任意调整并锁紧。

■每个规格的转台分别提供连接不同卡盘的法兰盘.作为特殊订货,并将法兰盘独立包装,另外,为特殊订货所提供的分度盘附件可实现由2

至66间所有整数和由67到下132间能被2, 3和5整数的所有整数的分度。

Manual tilting rotary table is one of the main accessories of milling machine, boring machine and drilling machine. It is mainly used

for processing inclined hole or through one clamping and positioning processing in addition to the support surface. The various parts

of the workpiece for processing. In addition, the table can be used vertically in conjunction with the tailstock for circumferential indexing drilling and milling.

The table can be adjusted and locked from the horizontal position to the vertical position ( $0^{\circ} - 90^{\circ}$ ).

Each specification of the turntable is provided with a flange connecting different chuck. Flanges are individually packaged as special orders.

In addition, the indexing plate accessories provided for special orders can be made by 2

The index of all integers from 67 to 132 that can be divided by 2, 3 and 5 integers.

## 手动可倾回转工作台

| 项目Items                                        | 规格Specifications | TSK3"       | TSK4"       | TSK5"       | TSK6"       | TSK8"       |
|------------------------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|
| 工作台直径Diameter of table mm                      |                  | Φ75         | Φ110        | Φ127        | Φ150        | Φ200        |
| 台面中心孔锥度(莫氏) Morse taper of the center hole     |                  | /           | 2#          | 2#          | 2#          | 3#          |
| 台面T型槽宽度Width of T-slot mm                      |                  | 8           | 12          | 12          | 14          | 14          |
| 蜗轮副模数Modules of worm and worm gear             |                  | 1           | 1           | 1           | 1           | 1.5         |
| 定位键宽度Width of the locking key mm               |                  | 16          | 16          | 16          | 16          | 16          |
| 台面T型槽相邻角度Adjacent angle of T-slot              |                  | 90°         | 120°        | 120°        | 90°         | 90°         |
| 蜗轮副传动比Transmission ratio of the worm gear      |                  | 1:36        | 1:72        | 1:72        | 1:90        | 1:90        |
| 工作台圆周刻度Graduation of the table                 |                  | 360°        | 360°        | 360°        | 360°        | 360°        |
| 工作台可倾角度Tilting angle                           |                  | 0-90°       | 0-90°       | 0-90°       | 0-90°       | 0-90°       |
| 轮台手轮刻度值Readout of the handwheel                |                  | 1"          | 2"          | 2"          | 2"          | 1"          |
| 游标最小示值Minimum value of vernier                 |                  | 20"         | 20"         | 20"         | 20"         | 10"         |
| 可倾游标最小示值Minimum reading of the tilting vernier |                  | 2°          | 2°          | 2°          | 2°          | 2°          |
| 分度精度Indexing accuracy                          |                  | 80"         | 60"         | 60"         | 60"         | 60"         |
| 净重Net weight Kg                                |                  | 7           | 15          | 16          | 19          | 38          |
| 毛重Gross weight Kg                              |                  | 7.5         | 17          | 18          | 21          | 41          |
| 箱体尺寸Overall dimensions mm                      |                  | 260x160x140 | 300x200x180 | 320x200x190 | 340x250x185 | 400x300x240 |

### 手动可倾回转工作台安装尺寸参数Installation sketch and dimensions

|   | TSK3"   | TSK4" | TSK5"   | TSK6"   | TSK8" |
|---|---------|-------|---------|---------|-------|
| A | 95      | 142   | 145     | 180     | 230   |
| B | 115     | 175   | 190     | 215     | 280   |
| C | 130     | 150   | 150     | 160     | 200   |
| D | 75      | 110   | 127     | 150     | 200   |
| F | 65      | 85    | 115     | 125     | 160   |
| H | 72      | 65    | 85      | 65      | 100   |
| L | 120 125 | 130   | 140 137 | 125 128 | 170   |
| M | /       | MT2   | MT2     | MT2     | MT3   |
| P | 50      | 5     | 50      | 50      | 70    |

# 立卧两用强力型快速分度盘

HORIZONTAL VERTICAL SUPER INDEXING SPACERS

Model No. CS-6



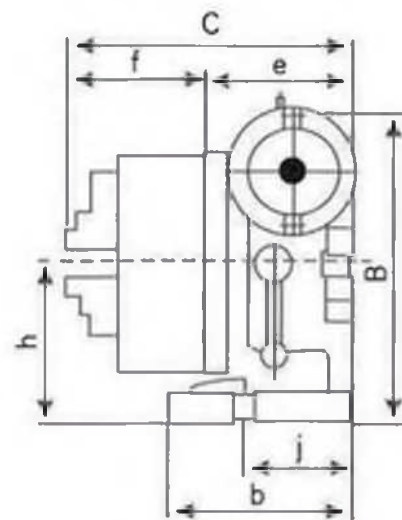
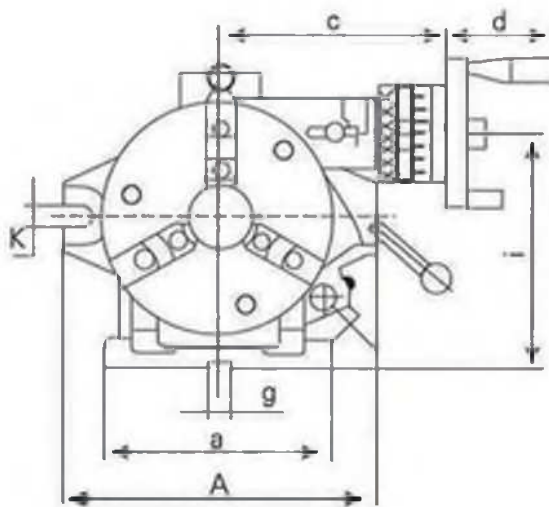
## FEATURES

- ◆ Solid Meehanite casting, specially designed for milling, drilling and boring.
- ◆ Hardened and ground 24 position master plate.
- ◆ Hardened and ground worm gear.
- ◆ Precision ground steel spindle.
- ◆ Heavy duty shoe type spindle brake ensuring maximum rigidity for milling cuts.
- ◆ 360° Graduated ring.
- ◆ Chrome plated graduated ring with five minute vernier reading.
- ◆ The center through hole is big to be suitable for the large and long workpiece.
- ◆ Used the key guide block, the center can be corrected both quickly and accurately.
- ◆ Eccentric worm housing for spindle disengagement.
- ◆ When the chuck is removed the unit can be used as a horizontal and vertical type rotary table.
- ◆ The operating handle for rotary table worm gear reduction ratio is 1:90
- ◆ Horizontal and vertical mounting positions.

## standard Accessories

- ◆ 3-jaw chuck
- ◆ Six masking plates (2, 3, 4, 6, 8 & 12 position)
- ◆ T-slotted face plate (8" or 10")

| ACCURACY for CS-68 CS-6.8                | TOLERANCE (Max.) |
|------------------------------------------|------------------|
| Parallelism of table surface to base     | .0006".015m/m    |
| Axial movement of table surface          | .0006".015m/m    |
| True running of center boss              | .0004".01m/m     |
| Squareness of base to angle face per 12" | .0008".02m/m     |
| Positioning accuracy                     | 45 sec.          |



## SPECIFICATIONS

| MODEL NO. | Chuck       |                |                   |                     | 花盘 Face Plate |              |
|-----------|-------------|----------------|-------------------|---------------------|---------------|--------------|
|           | Outer Dia.  | Thru Hole Dia. | 正爪 Inner Jaw      | 反爪 Outer Jaw        | 外径 Outer Dia. | 厚度 Thickness |
| CS-6      | 167<br>6.30 | 50<br>1.57     | 4~60<br>0.12~2.17 | 55~150<br>2.17~5.71 | 205<br>8.07   | 42<br>1.57   |
| CS-8      | 210<br>7.87 | 63<br>2.56     | 4~85<br>0.16~3.35 | 65~200<br>2.55~7.87 | 254<br>10     | 42<br>1.65   |

| MODEL NO. | Guide Block | Turret Hole Dia. | A            | B            | C           | a           | b           | c           | d          | e             | f           | g          | h           | i              | j          | k          | Gross Weight kgs/lbs |
|-----------|-------------|------------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|---------------|-------------|------------|-------------|----------------|------------|------------|----------------------|
| CS-6      | 16<br>0.63  | 50<br>1.97       | 250<br>9.84  | 238<br>9.37  | 220<br>8.15 | 182<br>7.17 | 140<br>5.51 | 186<br>7.32 | 96<br>3.66 | 112<br>4.41   | 105<br>2.56 | 16<br>0.63 | 122<br>4.80 | 191<br>7.52    | 80<br>3.15 | 16<br>0.63 | 32<br>70             |
| CS-8      | 16<br>0.63  | 63<br>2.48       | 325<br>12.60 | 300<br>11.57 | 267<br>9.27 | 236<br>9.06 | 160<br>6.30 | 220<br>9.27 | 96<br>3.66 | 126.5<br>4.99 | 137<br>2.95 | 16<br>0.63 | 155<br>6.10 | 234.67<br>9.24 | 95<br>3.74 | 18<br>0.79 | 52<br>114            |

# 立卧两用简易型分度盘

HORIZONTAL/VERTICAL BASIC INDEXING SPACERS



## FEATURES

Solid Meehanite casting, specially designed for milling, drilling and boring.

Hardened and ground 24 position master plate.

Precision ground steel spindle.

Heavy duty shoe tupe spindle brake ensuring maximum rigidity for milling cuts. 360° graduation ring.

Chrome plated graduated ring with five minute vernier reading.

The center through hole is big to be suitable for the large and long workpiece.

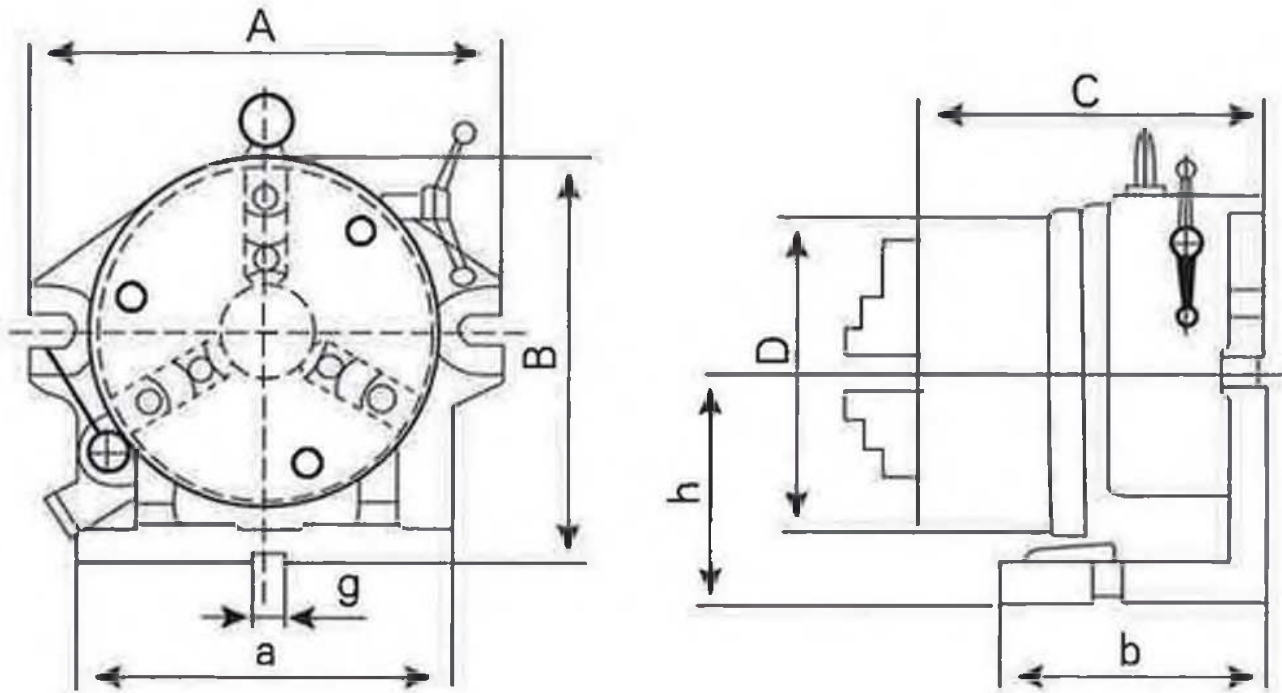
Used the key guide block, the center can be corrected both quickly and accurately.

Horizontal and vertical mounting positions.

## Standard Accessories

3-jaw chuck

Six masking plates (2, 3, 4, 6, 8 and 12 position)



## SPECIFICATIONS

| MODEL NO. | Chuck       |                |                   |                     | Guide Block | Turret Hole Dia | A            | B            | C           | D           | a           | b           | h           | Gross Weight<br>kgs/lbs |
|-----------|-------------|----------------|-------------------|---------------------|-------------|-----------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
|           | Outer Dia.  | Thru Hole Dia. | Inner Jaw         | Outer Jaw           |             |                 |              |              |             |             |             |             |             |                         |
| CC-6      | 167<br>6.30 | 50<br>1.57     | 4-60<br>0.12-2.17 | 55-150<br>2.17-5.71 | 16<br>0.63  | 50<br>1.97      | 260<br>10.04 | 255<br>8.86  | 152<br>5.98 | 167<br>6.30 | 196<br>7.48 | 115<br>4.53 | 130<br>5.12 | 32<br>70                |
| CC-8      | 210<br>7.87 | 63<br>2.56     | 4-85<br>0.16-3.35 | 65-200<br>2.55-7.87 | 16<br>0.63  | 63<br>2.48      | 325<br>12.60 | 272<br>10.71 | 177<br>6.85 | 210<br>7.87 | 236<br>9.06 | 154<br>6.06 | 154<br>6.06 | 52<br>114               |

## 快速等分分度头

### Indexing Spacers

特征:实心Meehanite铸造, 专门设计用于铣削、钻孔、钻孔和相关机械加工操作。

结构简单紧凑, 可分为两种类型。

角度分度可通过刻度环从0度到360度进行, 增量为1度。

Catch设备允许您在2、3、4、6、8、12和24分区中执行基本索引, 而无需更改遮罩板。

水平和垂直安装位置。

标准配件 三爪卡盘 定位键

#### FEATURES

Solid Meehanite casting, specially designed for milling, drilling, boring and related machining operations.

Simple and compact construction provides for 2 types of dividing.

Angular indexing can be performed through the graduation ring from 0° to 360° in increments of 1°.

Catch device allows you to perform basic indexing in divisions of 2,3,4,6,8,12&24 without changing masking plates.

Horizontal and vertical mounting positions.

Standard Accessories 3-jaw chuck Locating keys



#### SPECIFICATIONS

Unit:mm/inches

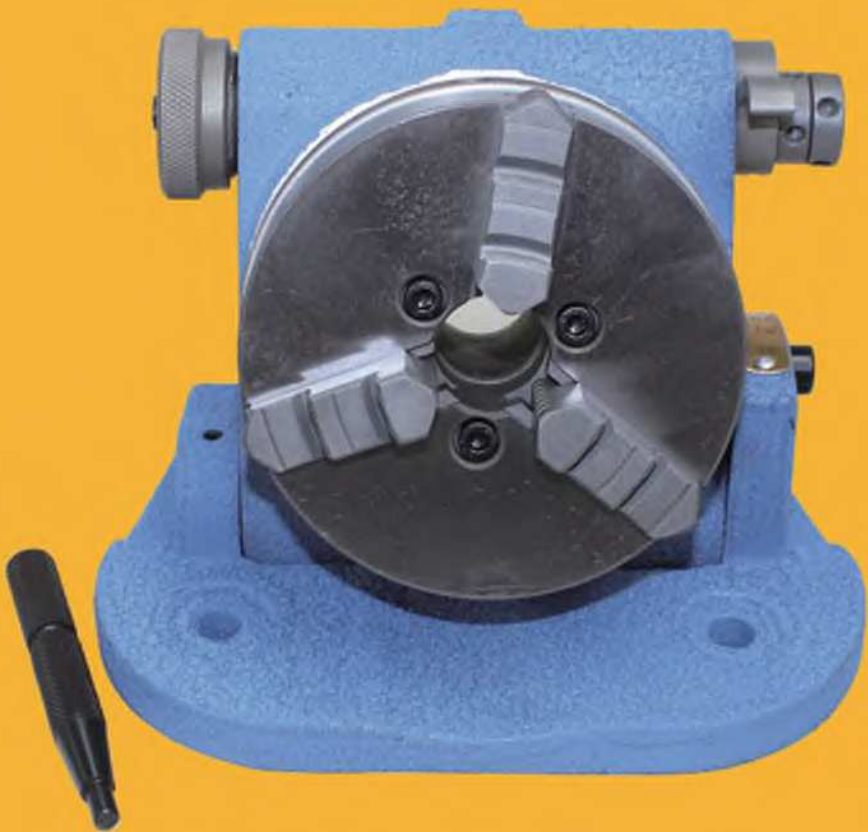
| MODEL NO. | Chuck Dia    | A           | B            | C           | D           | Thru Hole Dia. d | E          | F           | G          | H           | I           | Weight kgs/lbs |
|-----------|--------------|-------------|--------------|-------------|-------------|------------------|------------|-------------|------------|-------------|-------------|----------------|
| ECCP-6    | 160<br>6: 30 | 125<br>4.92 | 301<br>11.85 | 210<br>8.27 | 160<br>6.30 | 42<br>1.653      | 14<br>0.55 | 140<br>5.51 | 14<br>0.55 | 220<br>8.66 | 245<br>9.65 | 34<br>75       |

# 可倾式分度卡盘

## TILTABLE INDEXING CHUCKS

专用于刻模铣床,也可用于普通机床。  
功能为分度和两个方向的旋转。  
适用于轴类、盘类、套类零件的刻线、刻字、划线及切削等项加工。

The chucks are special attachments for engraving machine as well as the common accessories for general machine tool.  
The functions include indexing and rotating in two directions.  
Suitable for machining bar,plate,sleeve components for cutting and engraving



T-100性能参数  
T-100Characteristic Parameters

| 卡盘外径<br>Chuck Outer Diameter | 卡盘通孔<br>Through-hole Diameter | 中心高<br>Center Height | 卡盘轴线倾斜范围<br>Tilting Range | 卡盘回转刻度<br>Rotary Graduation |
|------------------------------|-------------------------------|----------------------|---------------------------|-----------------------------|
| 100                          | 25                            | 70                   | 0° -90°                   | 0° -360°                    |

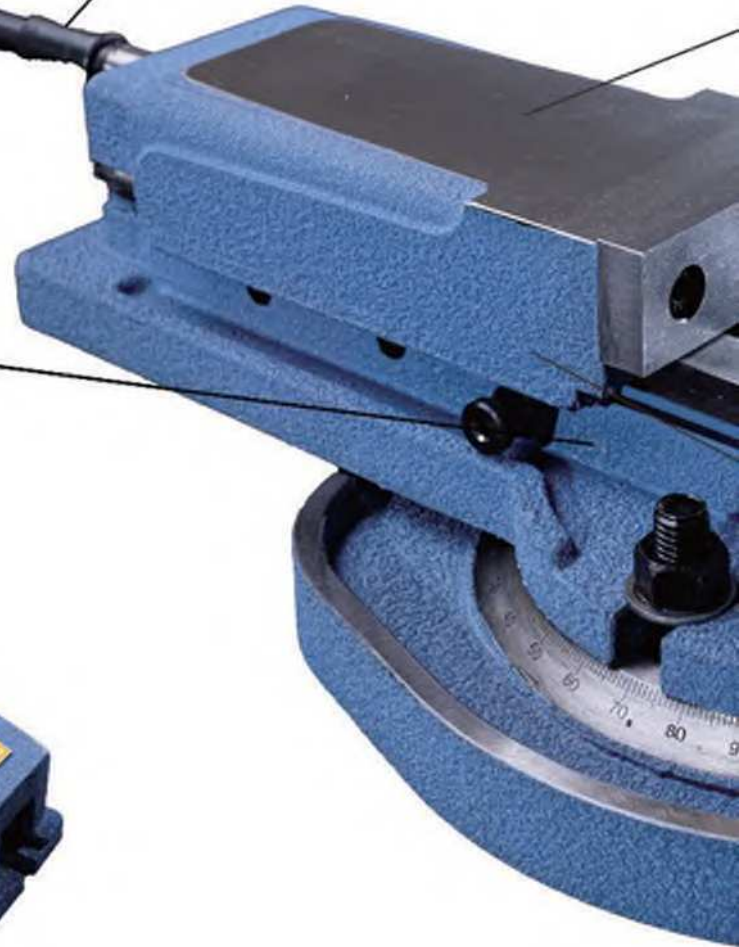
敬告:鉴于产品不断改进,样本内技术参数可能会有所变动,请用户选型时及时与本公司联系。  
Note:We reserve the ring to make changes in designs and specifications with-out prevlous notice.

## 液压平口钳

Hydraulic vice



Clamping force may be freely adjusted with this base line as a guide. It magnifies a small force into an enormous clamping force by virtue of its unique hydraulic booster incorporated.



### 3 RANGES FOR JAW OPENING

Jaw opening distance of this unit is variable into 3 ranges, and its sliding stock may be glided to and fixed with the lock pin at a position selected according to the size of the work to be mounted. As per the table here, time required in preparation and proper fixing of the work is thus minimized.

| MODEL NO. | 3 STEPS CLAMPING POSITION |        |         |
|-----------|---------------------------|--------|---------|
|           | X                         | Y      | Z       |
| HP-4V     | 0-60                      | 57-115 | 110-170 |
| HP-5V     | 0-72                      | 70-140 | 135-220 |
| HP-6V     | 0-100                     | 98-200 | 195-305 |
| HP-8V     | 0-100                     | 98-200 | 195-305 |

Hardened Booster provides a steady Clamping force against shocks and Vibrations during the Operations, Since it fastens the work piece resiliently With an aid of the diSc-Springs mounted inside.

Jawplates are made of Special Steel, which is hardened and ground

Body is made of high quality cast iron, which resists deflection or bending, and its sliding surface flame hardened and ground.

It makes possible 3-range jaw opening Variation where maximum opening attained is 3 times as large as that of normal machine Vises.

## SPECIFICATIONS

| MODEL NO | JAW WIDTH (A) | JAW DEPTH (a) | JAW OPENING (C) | D    | E   | F   | G   | H   | I   | J   | K   | L   | CLAMPING FORCE      | WEIGHT           |                  |
|----------|---------------|---------------|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|------------------|------------------|
|          |               |               |                 |      |     |     |     |     |     |     |     |     |                     | Plain            | W/Swivel Base    |
| HP-4V    | 100<br>4"     | 36<br>1.42"   | 170<br>6.7"     | 525  | 430 | 130 | 160 | 94  | 60  | 78  | 100 | 155 | 2600kgs<br>5720lbs  | 16kgs<br>36lbs   | 22kgs<br>48.5lbs |
| HP-5V    | 125<br>5"     | 46<br>1.81"   | 220<br>8.66"    | 670  | 540 | 165 | 185 | 118 | 72  | 97  | 117 | 185 | 3500kgs<br>7700lbs  | 32kgs<br>70.4lbs | 42kgs<br>92.4lbs |
| HP-6V    | 155<br>6"     | 53.6<br>2.10" | 305<br>12"      | 960  | 615 | 202 | 232 | 136 | 82  | 115 | 125 | 255 | 4600kgs<br>10120lbs | 58kgs<br>128lbs  | 75kgs<br>165lbs  |
| HP-8V    | 200<br>8"     | 62<br>2.44"   | 305<br>12"      | 1020 | 700 | 240 | 280 | 162 | 100 | 160 | 165 | 266 | 7200kgs<br>15840lbs | 96kgs<br>212lbs  | 125kgs<br>275lbs |

## QM系列平口钳

### QM series Machine Vice

本产品是铣床、钻床的主要附件之一，它尤其适用于精密部件的加工

两钳口的平行度，两钳口中对导轨面垂直度 $\leq 0.025\text{mm}/100\text{mm}$

当活动钳口水平移动时，它上面的半圆球会有一个垂直向下的压力，因此夹持工件不会上浮

可单独订购本台及含底座

钳口张开度可根据四个方向改变

1.It is one of main attachments for milling ,drilling machine, it is particularly suitable for the finishing of precision parts.

2.The accuracy of vice(parallelism and squareness)is  $0.025\text{mm}/100\text{mm}$ ,

3、The special segment in the movable jaw forces the vertical pressure downward when the horizontal pressure works,so that this jaw does not lift the workpiece.

4、These units can be ordered separately or with swivel base,

5、Four positions allow extra capacity to change opening of jaw.



活动式参数 Swivel type parameter

| 型号<br>Model | 钳口宽度 (mm)<br>Width of Jaw | 钳口高度(mm)<br>Height of Jaw | 总高度(mm)<br>Total Height | 钳口张开度 (mm)<br>Max.Opening | 毛/净重 (kg)<br>G./N.Weight | 装箱数量<br>Q ' TY | 包装尺寸(mm)<br>Packing Size |
|-------------|---------------------------|---------------------------|-------------------------|---------------------------|--------------------------|----------------|--------------------------|
| Qm16100     | 100                       | 32                        | 95                      | 100                       | 14/13                    | 1              | 360X250X130              |
| QM16125     | 125                       | 40                        | 102                     | 125                       | 18/17                    | 1              | 410X270X130              |
| QM16160     | 160                       | 45                        | 127                     | 160                       | 26/25                    | 1              | 450X320X140              |
| QM16160L    | 160                       | 45                        | 127                     | 200                       | 28/27                    | 1              | 480X320X140              |
| QM16200     | 200                       | 65                        | 158                     | 220                       | 40/40                    | 1              | 560X360X160              |
| QM16250     | 265                       | 70                        | 175                     | 290                       | 96/88                    | 1              | 750X400X210              |

固定式多数Fixed type parameter

| 型号<br>Model | 钳口宽度 (mm)<br>Width of Jaw | 钳口高度(mm)<br>Height of Jaw | 总高度(mm)<br>Total Height | 钳口张开度 (mm)<br>Max.Opening | 毛/净重 (kg)<br>G./N.Weight | 装箱数量<br>Q ' TY | 包装尺寸(mm)<br>Packing Size |
|-------------|---------------------------|---------------------------|-------------------------|---------------------------|--------------------------|----------------|--------------------------|
| QM1680      | 80                        | 24                        | 108                     | 75                        | 10/9                     | 1              | 290x200x130              |
| QM16100     | 100                       | 32                        | 124                     | 100                       | 17/16                    | 1              | 360x250x150              |
| QM16125     | 125                       | 40                        | 132                     | 125                       | 22/21                    | 1              | 410x270x170              |
| QM16160     | 160                       | 45                        | 157                     | 160                       | 35/34                    | 1              | 450x320x180              |
| QM16160L    | 160                       | 45                        | 157                     | 200                       | 37/36                    | 1              | 480x320x180              |
| QM16200     | 200                       | 50                        | 198                     | 220                       | 51/50                    | 1              | 560x360x200              |

# Q12(QH)系列平口钳

## Q12(QH)Series Machine Vice

采用高质量的普通铸铁材料

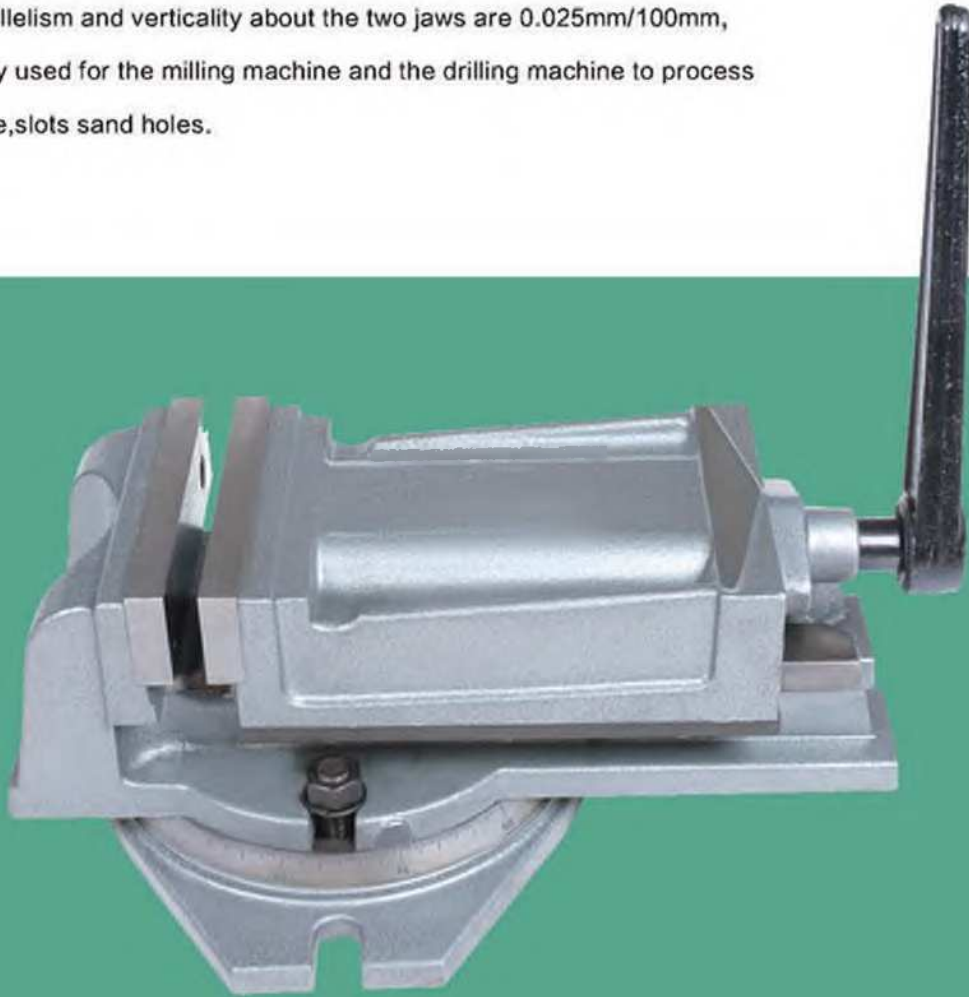
两钳口的平行度、两钳口中对导轨面垂直度 $\leq 0.025\text{mm}/100\text{m}$

广泛用于铣床，钻床等进口各种平面、沟槽、角度、孔等加工

1、It adopts the high-quality case irons.

2、Both parallelism and verticality about the two jaws are  $0.025\text{mm}/100\text{mm}$ ,

3、It is widely used for the milling machine and the drilling machine to process some surface,slots sand holes.



| 型号<br>Model | 钳口宽度(mm)<br>Width of Jaw | 钳口高度 (mm)<br>Height of Jaw | 总高度(mm)<br>Total Height | 钳口张开度 (mm)<br>Max.Opening | 毛/净(kg)<br>G./N.Weight | 装箱数量<br>Q ' TY | 包装尺寸(mm)<br>Packing Size |
|-------------|--------------------------|----------------------------|-------------------------|---------------------------|------------------------|----------------|--------------------------|
| Q1280       | 80                       | 32                         | 91                      | 63                        | 30/28                  | 4              | 250 × 130 × 110          |
| Q12100      | 100                      | 35                         | 105                     | 80                        | 45/44                  | 4              | 280 × 150 × 130          |
| Q12125      | 125                      | 40                         | 122                     | 100                       | 18/17                  | 1              | 33a × 200 × 170          |
| Q2160       | 160                      | 52                         | 158                     | 125                       | 34/33                  | 1              | 430 × 230 × 180          |
| Q12200      | 200                      | 63                         | 175                     | 160                       | 45/44                  | 1              | 470 × 270 × 190          |

## Q41(QHK) 系列平口钳

### Q41 (QHK) Series Machine Vice

采用高质量的普通铸铁材料

两钳口的平行度、两钳口中对导轨面垂直度 $\leq 0.025\text{mm}/100\text{mm}$

平口钳可以从水平位置到垂直位置( $0^\circ \sim 90^\circ$ ), 任意调整并锁紧, 带有

回旋底座可 $360^\circ$  旋转

广泛用于机床上加工各种角度的平面、沟槽、孔等

1、It adopts the high-quality cast irons.

2、Both parallelism and verticality about the two jaws are  $0.025\text{mm}/100\text{mm}$ .

3、The vice can be adjusted and locked at random from the horizontal position to the vertical position ( $0^\circ \sim 90^\circ$ ) with swivelling base being rotated  $360^\circ$

4、It can be widely used for processing all kinds angels of surface, slots and holes.



| 型号<br>Model | 钳口宽度(mm)<br>Width of Jaw | 钳口高度 (mm)<br>Height of Jaw | 总高度(mm)<br>Total Height | 钳口张开度 (mm)<br>Max.Opening | 毛净(kg)<br>G./N.Weight | 装箱数量<br>Q ' TY | 包装尺寸(mm)<br>Packing Size |
|-------------|--------------------------|----------------------------|-------------------------|---------------------------|-----------------------|----------------|--------------------------|
| Q41100      | 100                      | 41                         | 148                     | 80                        | 18/17                 | 1              | 350 × 210 × 200          |
| Q41125      | 125                      | 45                         | 152                     | 95                        | 28/27                 | 1              | 410 × 240 × 180          |
| Q41125L     | 125                      | 45                         | 152                     | 130                       | 25/24                 | 1              | 450 × 240 × 180          |
| Q41160      | 160                      | 50                         | 196                     | 125                       | 37/36                 | 1              | 440 × 260 × 200          |

## 角度夹钳

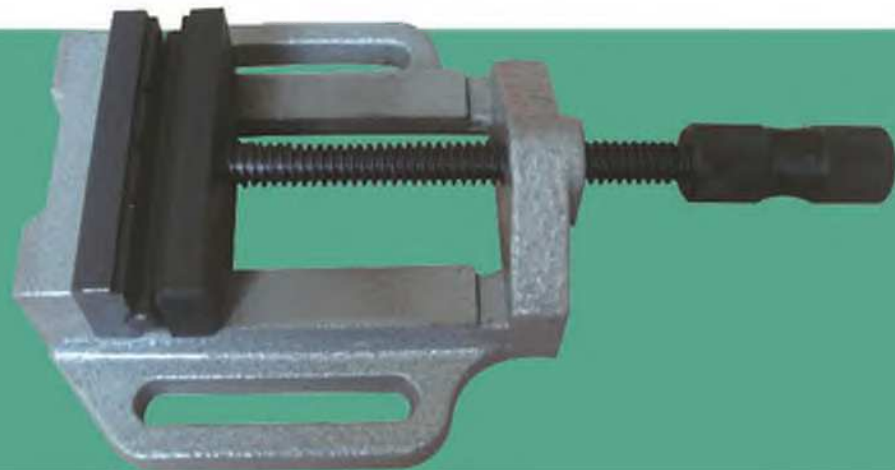
### Angle clamping vice



| Model型号              | AC-60 | AC-100 |
|----------------------|-------|--------|
| Max. opening(mm)最大开口 | 60    | 100    |
| Jaw Height(mm)钳口宽度   | 35    | 60     |
| Jaw Length(mm)钳口长度   | 60    | 90     |
| N.W./G.W.(kg)毛净重     | 6/7   | 12/13  |

## 钻床平口钳

### (Drill vice)



| 型号Model               | Z1975   | Z19100  | Z19125 | Z19150 | Z19200  |
|-----------------------|---------|---------|--------|--------|---------|
| 钳口宽度With of jaw(mm)   | 75      | 100     | 125    | 150    | 200     |
| 钳口高度Heigh of jaw(mm)  | 27      | 30      | 30     | 30     | 45      |
| 钳口张开度Max.opening (mm) | 70      | 102     | 120    | 142    | 175     |
| 毛重/净重GW/NW (kg)       | 2.5/2.3 | 3.8/3.6 | 6/5    | 7/6    | 13/12.5 |

# Q13(QB)系列平口钳

## Q13 (Q8) series MachineVice

采用高质量的普通铸铁材料

两钳口的平行度，两钳口中对导轨面垂直度 $\leq 0.025\text{mm}/100\text{mm}$

广泛用于铣床、钻床等进行各种平面、T沟槽、角度、孔等加工

1、It adopts the high-quality cast irons.

2、Both parallelism and verticality about the two jaws are  $0.025\text{mm}/100\text{mm}$ .

3、It is widely used for the milling machine and the drilling machine to process some surface, slots and holes.



| 型号<br>Model | 钳口宽度(mm)<br>Width of Jaw | 钳口高度(mm)<br>Height of Jaw | 总高度(mm)<br>Total Height | 钳口张开度(mm)<br>Max. Opening | 毛/净重(kg)<br>G/N. Weight | 装箱数量<br>QTY | 包装尺寸(mm)<br>Packing Size |
|-------------|--------------------------|---------------------------|-------------------------|---------------------------|-------------------------|-------------|--------------------------|
| Q13136      | 135                      | 35                        | 118                     | 170                       | 17/16                   | 1           | 420 × 200 × 150          |
| Q13160      | 160                      | 51                        | 142                     | 180                       | 27/26                   | 1           | 420 × 210 × 170          |
| Q13200      | 200                      | 64                        | 172                     | 220                       | 38/37                   | 1           | 500 × 240 × 180          |
| Q13250      | 250                      | 6                         | 186                     | 280                       | 57/55                   | 1           | 610 × 300 × 200          |
| Q13320      | 320                      | 81                        | 205                     | 360                       | 86/84                   | 1           | 720 × 390 × 220          |

# QM16N一体式系列平口钳

## QM16N UNIBCDY Series Machine Vice

钳体采用高韧性球墨铸铁精密加工而成

角固式夹紧结构可防止工件上浮

两钳口的平行度、两钳口中对导轨面垂直度

≤0.025mm/100mm

平口钳可单台使用，也可多台并排使用

广泛用于加工中心等精密机床

1、It adopts the ductile cast iron with high durability.

2.The locking structure with the angle-fixed shape can prevent the workpiece from rising during the operation.

3.Both parallelism and verticality about the two jaws are 0.025mm/100mm.

4、It can be used by single set or several sets side by side

5、It is widely used for precision machines in the machine center.



### 主要技术参数 Main technical parameter

| 型号<br>Model | 钳口宽度(mm)<br>Width of Jaw | 钳口高度(mm)<br>Height of Jaw | 总高度(mm)<br>Total Height | 钳口张开度(mm)<br>Max.Opening | 毛/净重(kg)<br>G./N.Weight | 装柄数量<br>Q'ITY | 包装尺寸 (mm)<br>Packing Size |
|-------------|--------------------------|---------------------------|-------------------------|--------------------------|-------------------------|---------------|---------------------------|
| QM161CON    | 100                      | 32                        | 86                      | 100                      | 12/11                   | 1             | 360×150×150               |
| QM16150U    | 150                      | 45                        | 118                     | 150                      | 26/25                   | 1             | 450×320×140               |
| QM16160N    | 160                      | 45                        | 122                     | 160                      | 32/29                   | 1             | 450×200×210               |

# FV系列自由式虎钳

## FV Freestyle Vice

主要应用范围:铣床、数控铣床、加工中心、磨床、钻床等

- 1、可以自由调节夹持宽度在夹持大工件上其它虎钳无法比拟的优势。
- 2、实际加工中可以对一个大工件采用多组自由式虎钳同时进行装夹,使用的时候每一组虎钳相对安装在一条T型槽上,人工校对钳口的平行度,根据工件大小调整一组虎钳钳口之间的距离。
- 3、每只虎钳的钳口都是采用斜角压力设计,钢性强,虎钳口热处理HRC40,在螺丝的工作下沿着前下方或者后上方运动,这样在装夹工件的时候同时有向下的力,不会在装夹中造成工件上浮。
- 4、自由式虎钳操作简单方便,夹持力大,适用性广,最典型的应用:CNC加工中的大型工件装夹。

### Features

- 1、It can adjust clamping width freely.It has more advantages than other machine vise which clamps the big workpiece.
- 2、It can adopt several groups of free vise to fix the clamps in the actual processing of the vise. When using,every vise may install one T slot and the operator can revise the parallel degree.and then adjust the vise distance according to the workpiece.
- 3、The vise of the machine vise is designed according to the tilting force and the vise heating-treatment is more than 40t can of the screw meanwhile we are installing the work down force and will not cause the workpiece to lift.
- 4、It is easy to operate the free style machine vise and has more clamping force and it can be use in many ranges.



参数/Swivel Type Parmeter

| 型号/model | A     | B   | C   | D    | G  | N  | 夹紧力/KN | 净重 (kg )N.W |
|----------|-------|-----|-----|------|----|----|--------|-------------|
| FV350N   | 142   | 70  | 72  | 14.5 | 25 | 60 | 23     | 6.8         |
| FV450N   | 192.5 | 86  | 87  | 17   | 30 | 70 | 28     | 13          |
| FV550N   | 220   | 110 | 105 | 21   | 36 | 85 | 38     | 21          |

# FNV自由式系列机用虎钳

## FNV Free Series Machine Vice

### 特点:

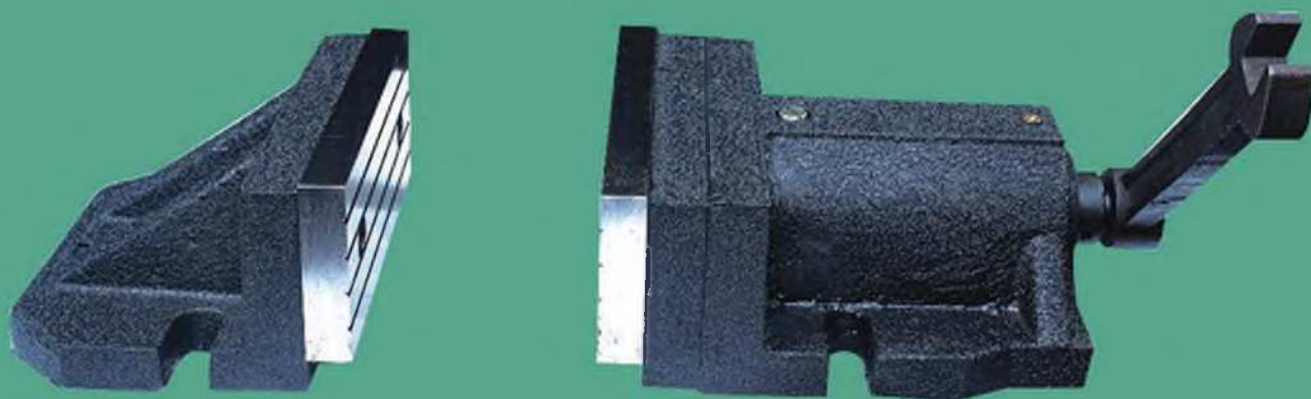
- 1、可以夹持超长工件,并可利用整个机床的工作台面
- 2、机械加工键槽确保精确安装。

### Features:

- 1、 It can clamp the super long workpiece,and can use the working table of the whole machine tool.
- 2、 Machinery keyway to ensure accurate installation.

### 参数/Swivel Type Parameter

| MODEL  | A   | H  | L   | W   | JAW MICRO<br>ADJUSTING SIZE<br>(mm) | G./N. WEIGHT<br>(kg) | PACKING SIZE<br>(mm) |
|--------|-----|----|-----|-----|-------------------------------------|----------------------|----------------------|
| FNV160 | 160 | 81 | 350 | 150 | 0-16                                | 19/18                | 350*170*130          |
| FNV200 | 200 | 81 | 400 | 190 | 0-24                                | 29/28                | 410*210*150          |



## Q93系列平口钳

### Q93 series Machine Vice

钳体采用高韧性球墨铸铁精密加工而成

角固式夹紧结构可防止工件上浮

它具有两个夹持单位，可夹持两个尺寸相等或尺寸不等的工件，还可以同时夹持两个处于不同夹紧位置加工面不相同的工件。

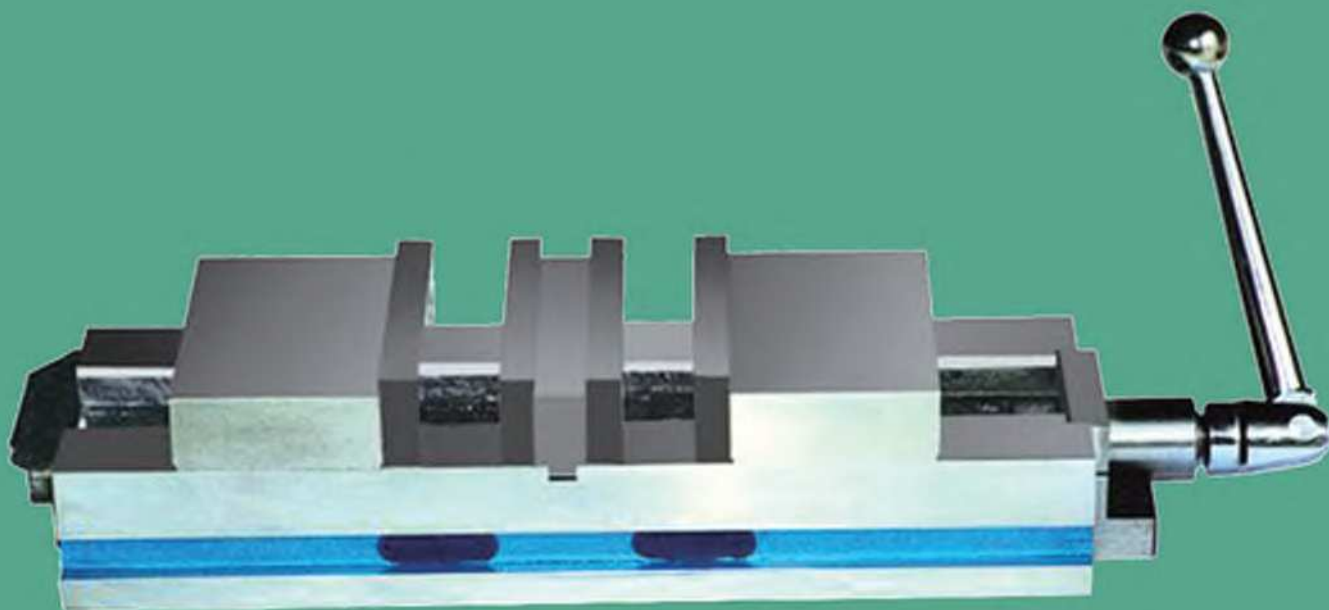
两钳口的平行度，两钳门对导轨面垂直度 $\leq 0.025\text{mm}/100\text{mm}$

平口钳可单台使用，也可多台并非使用

广泛用于加工各种角度的平面、槽、孔

- 1、It is made of ductile cast iron.
- 2、The vice with angle locked can prevent workpieces rising during operation.
- 3、It is possessed of two clamping positions , two workpieces of same size or different size can be clamped by it,the vice is also able to clamp two same workpieces which are clamped in different positions and processed in different surfaces.
- 4、The accuracy of vice(parallelism and squareness )is  $0.025\text{mm}/100\text{mm}$ .
- 5、The vice can be used with single or set side on the machine worktable.
- 6、It is widely used on machining center and other precision machine.

| 型号<br>Model | 钳口宽度(mm)<br>Width of Jaw | 钳口高度 (mm)<br>Height of Jaw | 总高度(mm)<br>Total Height | 钳口张开度 (mm)<br>Max.Opening | 毛/净重(kg)<br>G./N.Weight | 装箱数量<br>QTY | 包装尺寸(mm)<br>Packing Size |
|-------------|--------------------------|----------------------------|-------------------------|---------------------------|-------------------------|-------------|--------------------------|
| QM93100     | 100                      | 35                         | 95                      | 76                        | 18/17                   | 1           | 580 × 180 × 170          |
| QM93160     | 160                      | 50                         | 130                     | 100                       | 49/48                   | 1           | 730 × 280 × 200          |



## 万用角度机用虎钳

UNIVERSAL 3-WAY ANGLE



Machine vises with swivel base

Angle can be set in 3 dimensions

Swivels 360 around base

The vise can be elevated through 90 from the horizontal to the vertical position

Can be tilted on its lower angle base up to 45 in right and

left, Workpiece is steady and smooth, in all permissible angle settings.

| MODEL NO. | JAW WIDTH<br>① | JAW OPENING<br>② | JAW HEIGHT<br>③ | L             | w             | H            | VERECAL HEIGHT | WEIGHT (IBS/KGS) |
|-----------|----------------|------------------|-----------------|---------------|---------------|--------------|----------------|------------------|
| 3W-AV80   | 3.23"<br>82    | 3.54"<br>90      | 1.26"<br>32     | 16.14"<br>410 | 7.48"<br>190  | 6.30"<br>160 | 15.75"<br>400  | 37.4<br>17       |
| 3W-AV100  | 4.17"<br>106   | 4.17"<br>106     | 1.50"<br>38     | 20.87"<br>530 | 9.13"<br>232  | 7.28"<br>185 | 19.69"<br>500  | 74.8"<br>34      |
| 3W-AV130  | 5.31"<br>135   | 5.71"<br>145     | 1.57"<br>40     | 25.20"<br>640 | 10.83"<br>275 | 8.46"<br>215 | 23.62"<br>600  | 101<br>46        |

## 精密工具平口钳

precision tool parallel-jaw vice

采用优质合金结构制造，工作面硬度HRC58~62；

平行度0.005mm/100mm垂直度0.005mm；

夹紧快，操作灵活；

用于精密测量和检查，精密磨削及电火花；

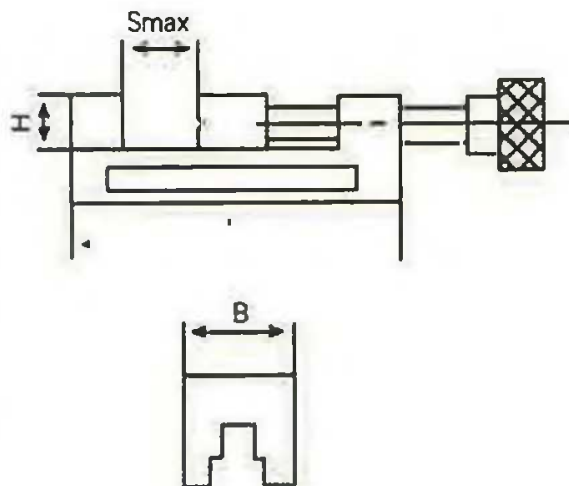
在工作时无论横立、竖立、平放皆可保持高的精密度。

- 1、Made of high-quality alloy steel, The hardness of working surface reaches HRC58~62.
- 2、Parallelism 0.005mm/100mm squareness 0.005mm.
- 3、Quickly to clamp and easy to operate.
- 4、Used for precision measurement and in spection precision grinding, EDM and Wire-cutting machine.
- 5、Guarantee high accuracy in any position.

## QGG系列精密工具平口钳

QGG series precision tool parallel-jaw vice

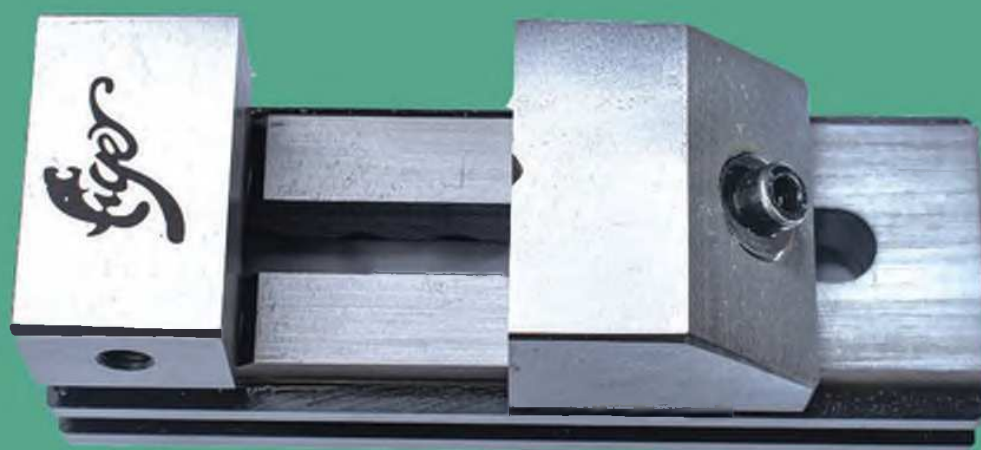
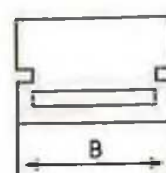
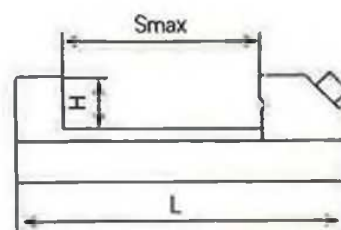
| 订单号<br>Order No. | B<br>mm | H<br>mm | Smax<br>mm | L<br>mm | 重量<br>Wt(kg) |
|------------------|---------|---------|------------|---------|--------------|
| QGG50            | 50      | 25      | 65         | 155     | 3            |
| QGG60            | 60      | 25      | 55         | 110     | 2.4          |
| QGG63            | 63      | 32      | 85         | 190     | 3.8          |
| QGG73            | 73      | 35      | 100        | 210     | 5            |
| QGG80            | 80      | 40      | 100        | 220     | 6.5          |
| QGG88            | 88      | 40      | 125        | 250     | 11           |
| QGG100           | 100     | 45      | 125        | 260     | 13           |
| QGG125           | 125     | 50      | 160        | 300     | 19.5         |
| QGG125A          | 125     | 50      | 210        | 350     | 23           |
| QGG150B          | 150     | 50      | 175        | 315     | 23.8         |



## QkG系列精密工具平口钳

QkG series precision tool parallel-jaw vice

| 订单号<br>Order No. | B<br>mm | H<br>mm | Smax<br>mm | L<br>mm | 重量<br>Wt(kg) |
|------------------|---------|---------|------------|---------|--------------|
| QKG25            | 26      | 9.15    | 22         | 65.4    | 0.5          |
| QKG36            | 36      | 20      | 40         | 100     | 1.2          |
| QKG38            | 38      | 20      | 44         | 105     | 1.3          |
| QKG50            | 50      | 25      | 65         | 140     | 2            |
| QKG63            | 63      | 32      | 85         | 175     | 3.0          |
| QKG73            | 73      | 35      | 100        | 190     | 4.1          |
| QKG80            | 80      | 40      | 100        | 200     | 5.5          |
| QKG88            | 88      | 40      | 125        | 235     | 7.3          |
| QKG100           | 100     | 45      | 125        | 245     | 10.0         |
| QKG125           | 125     | 50      | 160        | 285     | 18.0         |
| QKG150           | 150     | 50      | 200        | 330     | 21.5         |
| QKG150A          | 150     | 50      | 250        | 380     | 23.0         |
| QKG150B          | 150     | 50      | 300        | 430     | 24.0         |

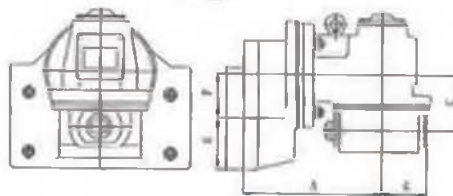
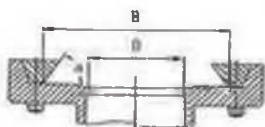


## 万能铣头

### Universal milling head

万能铣头主轴可以在相互垂直的两个回转平面内回转，不仅能完成立铣、平铣工作，而且可以在工作一次装夹中，进行各种角度的多面、多棱、多槽的铣削。特别适用于单件，小批及维修加工。

The spindle of universal milling head can be turned round between two vertical surface, it is not only can complete vertical milling, horizontal milling, but also complete milling cutting in polyhedral, multi-edges, multi-flutes during chuck on one time, it is suitable for single, small batch and maintenance processing.



#### 主要规格和参数

#### Main specifications and parameters

| 项目<br>铣头型号 | 铣头主轴<br>锥孔锥度 | 铣头回转角度 |      | 配套铣床型号             | 配套铣床生产厂             | 与铣床传动比 | 与铣床主轴连接锥度        |
|------------|--------------|--------|------|--------------------|---------------------|--------|------------------|
|            |              | 水平     | 垂直   |                    |                     |        |                  |
| XC624A     | 莫氏4          | 360°   | 360° | X62 X62W<br>X6132  | 长征、皖南<br>北一、江东、长春二机 | 1:1    | 7:24<br>(Φ69.85) |
| XC624C     | 莫氏4          | 360°   | 360° | X6132A             | 齐二、青海               | 1:1    | 7:24<br>(Φ69.85) |
| XC634A     | 莫氏4          | 360°   | 360° | X63 X63W<br>B,400W | 北一、蚌埠               | 1:1    | 7:24<br>(Φ69.85) |
| XC634C     | 莫氏4          | 360°   | 360° | X6040<br>X6140     | 齐二                  | 1:1    | 7:24<br>(Φ69.85) |
| XC63T4A    | 莫氏4          | 360°   | 360° | X63T<br>X63WT      | 上海四机<br>蚌埠          | 1:1    | 7:24<br>(Φ69.85) |

#### XC系列万能铣头安装尺寸参数

#### XC series universal milling head installed size parameters

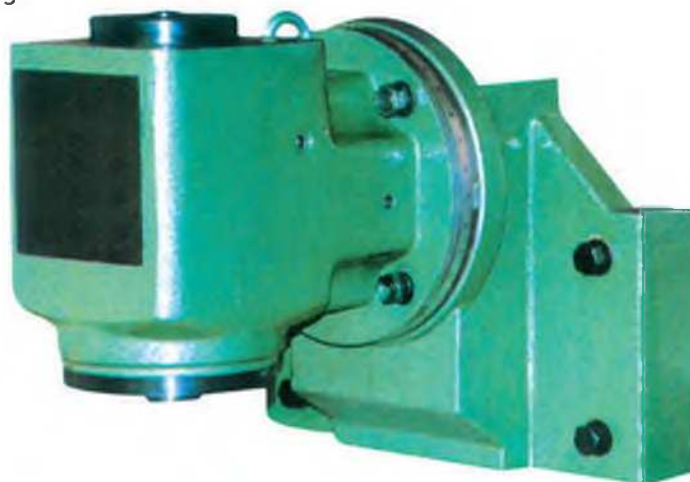
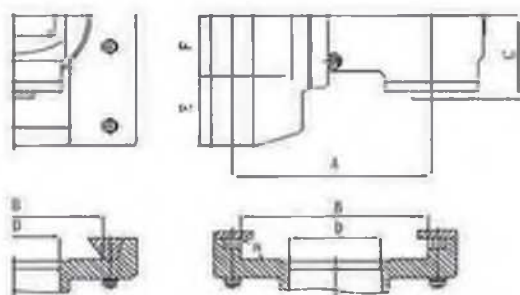
| 项目<br>铣头型号 | A   | B   | C   | D    | E   | F   | G   | a   | 重量  | 箱体尺寸        |
|------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-------------|
| XC624A     | 340 | 320 | 140 | Φ165 | 133 | 112 | 110 | 55° | 147 | 575×520×480 |
| XC624C     | 343 | 340 | 140 | Φ170 | 133 | 112 | 110 | 90° | 150 | 575×530×480 |
| XC634A     | 350 | 400 | 140 | Φ165 | 133 | 112 | 110 | 55° | 154 | 585×600×480 |
| XC634C     | 350 | 400 | 140 | Φ170 | 133 | 112 | 110 | 90° | 162 | 595×605×480 |
| XC63T4A    | 350 | 360 | 140 | Φ210 | 133 | 112 | 110 | 50° | 156 | 585×575×480 |

# 立铣头

## Vertical milling head

立铣头有一垂直的回转平面，主要用于立铣，可辅助机床加工不同角度平面，棱角和沟槽。主轴刚性强，传递功率大，是扩大卧式升降台铣床加工范围的重要附件。

The XC series vertical milling head have a vertical rotatory plane.It is mainly used on vertical milling,It can help machine to produce different angle planes,edges and grooves,This product with high rigid and large power , it is improtant accessory fro enlarge milling range of processing.



### 主要规格和参数

### Main specifications and parameters

| 项目<br>铣头型号    | 铣头主轴<br>锥孔锥度     | 铣头回转角度 | 配套铣床型号             | 配套铣床生产厂             | 与铣床传动比 | 与铣床主轴连接锥度        |
|---------------|------------------|--------|--------------------|---------------------|--------|------------------|
| XC57-32B      | 7:24<br>(Φ44.45) | 360°   | X57-3              | 宿迁、皖南               | 1:15   | 莫氏3              |
| XC602B        | 7:24<br>(Φ44.45) | 360°   | X60<br>X60W        | 桂林、宿迁               | 1:1    | 7:24<br>(Φ44.45) |
| XC612B        | 7:24<br>(Φ44.45) | 360°   | X61 X61W<br>X6130A | 桂林、皖南、<br>大连四机、齐二   | 1:1    | 7:24<br>(Φ44.45) |
| XC621C        | 7:24<br>(Φ44.45) | 360°   | X6130<br>X6130A    | 齐二、青海               | 1:1    | 7:24<br>(Φ44.45) |
| XC622B        | 7:24<br>(Φ44.45) | 360°   | X62 X62W<br>X6132  | 长征、皖南、北一<br>江东、长春二村 | 1:1    | 7:24<br>(Φ69.85) |
| XC622C        | 7:24<br>(Φ44.45) | 360°   | X6132A             | 齐二、青海               | 1:1    | 7:24<br>(Φ69.85) |
| XC632B        | 7:24<br>(Φ44.45) | 360°   | X63 X63W<br>B,400W | 北一、蚌埠               | 1:1    | 7:24<br>(Φ69.85) |
| XC632C        | 7:24<br>(Φ44.45) | 360°   | X6040<br>X6140     | 齐二                  | 1:1    | 7:24<br>(Φ69.85) |
| XC63T2B       | 7:24<br>(Φ44.45) | 360°   | X63T<br>X63WT      | 上海四机、蚌埠             | 1:1    | 7:24<br>(Φ69.85) |
| XC6328Z       | 7:24<br>(Φ69.85) | 360°   | X63 X63W<br>B,400W | 北一、蚌埠               | 1:1    | 7:24<br>(Φ69.85) |
| XC632CZ       | 7:24<br>(Φ69.85) | 360°   | X6040<br>X6140     |                     | 1:1    | 7:24<br>(Φ69.85) |
| XC642CZ       | 7:24<br>(Φ69.85) | 360°   | FX6045<br>FX6145   |                     | 1:1    | 7:24<br>(Φ69.85) |
| C3150X40OL-1A | 7:24<br>(Φ69.85) | 360°   | X6140A             |                     | 1:1    | 7:24<br>(Φ69.85) |
| C3140X300L-1A | 7:24<br>(Φ44.45) | 360°   | X6130T             |                     | 1:1    | 7:24<br>(Φ69.85) |

## XC系列立铣头安装尺寸参数

XC series universal milling head installed size parameters

| 项目<br>铣头型号      | A   | B   | C   | D    | E   | F   | a   | 重量  | 箱体尺寸            |
|-----------------|-----|-----|-----|------|-----|-----|-----|-----|-----------------|
| XC57-32B        | 255 | 192 | 137 | Φ134 | 133 | 75  | 60° | 76  | 430x410x415     |
| XC602B          | 265 | 250 | 137 | Φ152 | 95  | 102 | 55° | 82  | 440 × 435x405   |
| XC612B          | 254 | 280 | 137 | Φ190 | 110 | 102 | 50° | 84  | 430x465 × 420   |
| XC612C          | 254 | 300 | 137 | Φ130 | 120 | 102 | 90° | 88  | 440 × 480 × 420 |
| XC622B          | 360 | 320 | 155 | Φ165 | 133 | 112 | 55° | 150 | 575x520 × 475   |
| XC622C          | 360 | 340 | 155 | Φ170 | 133 | 112 | 90° | 155 | 575 × 530 × 475 |
| XC632B          | 370 | 400 | 155 | Φ165 | 133 | 112 | 55° | 158 | 535 × 600x475   |
| XC632C          | 370 | 400 | 155 | Φ170 | 133 | 112 | 90° | 168 | 595 × 605x475   |
| XC63T2B         |     | 360 | 155 | Φ210 | 133 | 112 | 50° | 160 | 585x575 × 475   |
| XC632BZ         | 400 | 400 | 170 | Φ165 | 150 | 112 | 55° | 234 | 635x600 × 545   |
| Xc632CZ         | 400 | 400 | 170 | Φ170 | 150 | 112 | 90° | 244 | 640x600x545     |
| XC642CZ         | 470 | 500 | 170 | Φ260 | 160 | 112 | 90° | 274 | 710x700x555     |
| C3150 × 400L-1A | 400 | 420 | 170 | Φ218 | 150 | 112 | 90° | 246 | 640x625 × 545   |
| C3140 × 300L-1A | 254 | 300 | 137 | Φ168 | 110 | 102 | 90° | 88  | 440x480x420     |

MODEL NO.AP-R5

Ratchet Type

Ratcheting Presses put lever arm in most comfortable Position for final application of force,  
For heavier bending, Handwheel advance.

Unit : mm/inches

| MODEL NO | APPROX TONS PRESSURE | CAPACITY OVER TABLE | LARGEST ARBOR | RAM SQUARE  | RAM LENGTH    | HEIGHT OF PRESS | BASE DIMENSION          | LEVER RATIO | WEIGHT kgs/lbs |
|----------|----------------------|---------------------|---------------|-------------|---------------|-----------------|-------------------------|-------------|----------------|
| AR-R3    | 3 ton                | 320<br>12.60"       | 64<br>12"     | 38<br>1.50" | 457<br>18     | 546<br>21.50"   | 203457<br>8"18"         | 20:1        | 64/140         |
| AP-R5    | 5 ton                | 452<br>17.80"       | 78<br>3"      | 51<br>2"    | 700<br>27.56" | 820<br>32.28"   | 242x665<br>9.53"x26.18" | 25:1        | 152/335        |

Singel Leverage Type

Heavy duty construction made of finest materials

Special steel

Front and side gib adjustment

Four position anvil

Steel pinions and rams



| MODEL NO. | PRCo TONS PRESSURE | CAPACITY OVER TABLE | LARGEST ARBOR | PRESS DISTANCE BETWEEN RAM AND COLUMN | RAM SQUARE  | RAM LENGTH    | HEIGHT OF PRESS | BASE DIMENSIONS           | WEIGHT kgs/lbs |
|-----------|--------------------|---------------------|---------------|---------------------------------------|-------------|---------------|-----------------|---------------------------|----------------|
| AP-0      | 1/2ton             | 120<br>4.73"        | 30<br>1.18"   | 92<br>3.62"                           | 18<br>0.71" | 202<br>7.95"  | 265<br>10.43"   | 103 × 233<br>4.05 × 9.17" | 77/17<br>11/25 |
| AP-1      | 1 ton              | 145<br>5.71"        | 35<br>1.38"   | 108<br>4.25"                          | 25<br>1"    | 250<br>9.84"  | 300<br>11.81"   | 115 × 245<br>4.53 × 9.65" | 11/25          |
| AP-2      | 2 ton              | 215<br>8.46"        | 48<br>1.89"   | 150<br>5.90"                          | 32<br>1.26" | 335<br>13.19" | 445<br>17.52"   | 170x380<br>6.70 × 14.96"  | 28/62          |
| AP-3      | 3ton               | 330<br>13"          | 63<br>2.48"   | 170<br>6.70"                          | 38<br>1.50" | 465<br>18.30" | 580<br>22.83"   | 210 × 455<br>8.27x17.91"  | 62/135         |
| AP-5      | 5 ton              | 470<br>18.50"       | 78<br>3"      | 250<br>9.84"                          | 51<br>2"    | 700<br>27.56" | 820<br>32.28"   | 242 × 665<br>9.53x26.18"  | 139/306        |

## 组合压板

### Clamping kits

HEAT TREATED STEEL BLACK OXIDE FINISH

52-PC STEEL CLAMPING KIT

Block size 1" (25mm). Set in steel rack consists of

24 pcs studs (4ea . 3", 4", 5", 6", 7", 8", or 75, 100, 125, 150, 175, 200mm )

6 pcs T-Nuts

4 pcs Coupling Nuts

6 pcs Flange Nuts

6 pcs Step Clamps

6 pas Step Blocks

The parts of every specification all can be purchased individually.



Main specifications and parameters

Unit : inches/mm

| Modes No.   | lable Slota<br>① | Stud Size<br>② | Block Size | Gross Weight<br>(lbs/kgs) |
|-------------|------------------|----------------|------------|---------------------------|
| CK-7116"    | 7/16"            | 3/8"-16        | 1"         | 17.68                     |
| CK-112"     | 1/2"             | 3/8"-16        | 1"         | 17.68                     |
| CK-9116"    | 9/16             | 1/2"-13        | 1"         | 25.811.7                  |
| CK-518"     | 5/8"             | 1/2"-13        | 1"         | 25.811.7                  |
| Ck11/16"    | 11/16"           | 5/8"-11        | 1"         | 3214.5                    |
| CK¾"        | ¾"               | 5/8"-11        | 1"         | 3214.5                    |
| METRIC SIZE |                  |                |            |                           |
| M10         | 10m/m            | M8-1.25p       | 25m/m      | 15.4/7                    |
| M12         | 12m/m            | M10-1.25P      | 25m/m      | 18.7/8.5                  |
| M14         | 14m/m            | M12-1.75P      | 25m/m      | 24.2/11                   |
| M16         | 16m/m            | M14-2.0P       | 25m/m      | 27.5/12.5                 |
| M18         | 18m/m            | M16-2.0P       | 25m/       | 31.9/14.5                 |
| M20         | 20m/m            | M18-2.5P       | 25m/m      | 68.2/31                   |

电子走刀器

Electric power feed

| Mode l型号         | Speed range (RPM)<br>速度范围 | Max speed(RPM)<br>最大速度 | Max.torque<br>最大扭矩 | Voltage电压                |
|------------------|---------------------------|------------------------|--------------------|--------------------------|
| AL-510S(X,Y,Z)   | 0-200                     | 200                    | 650in-lb           | 110V 50/60HZ220V 50/60HZ |
| AL-410S (X,Y, Z) | 0-200                     | 200                    | 550in-lb           | 110V 50/60HZ220V 50/60HZ |
| AL-310S(X.Y.Z)   | 0-200                     | 200                    | 450in-lb           | 110V 50/60HZ220V 50/60HZ |
| ALB-310Sx        | 0-200                     | 200                    | 450in-lb           | 110V 50/60HZ220V 50/60HZ |

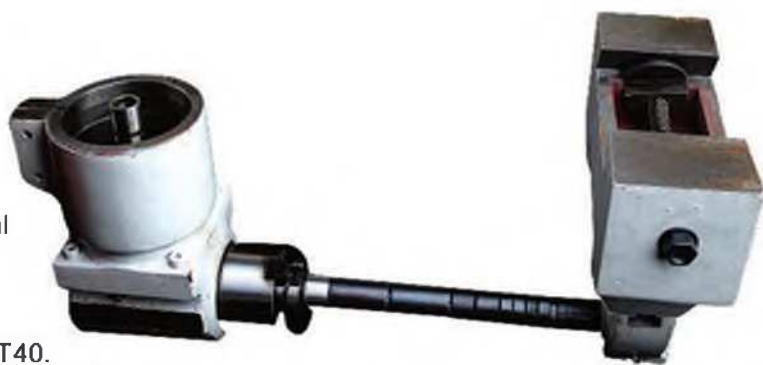


## 卧铣附件

### Horizontal milling attachment

Main features:

1. Used in Milling machine, as an horizontal spindle
2. Suitable for widely range of milling machines, according to different spindle bore, such as R8, NT30, NT40.
3. Suitable milling head quill diameter: 85.725 to 115mm.
4. Easy operation and economic price.



| Model型号  | "Suitable milling head quill diameter(mm)适合铣头套筒直径" | "Weight(kg)重量" |
|----------|----------------------------------------------------|----------------|
| VRA-R8   | 85.725-86                                          | 12.6           |
| VRA-NT30 | 85.725-86                                          | 13.1           |
| VRA-NT40 | 85.725, 100, 105, 110, 115                         | 18             |

可倾斜台

Tiling Rotary table with angle



| Model型号 | Table size<br>工作台尺寸(mm) | L长度(MM) | W宽度(MM) | H高度(MM) | T-slotT型槽(MM) | Weight重量(KG) |
|---------|-------------------------|---------|---------|---------|---------------|--------------|
| TR-7    | 125*180                 | 180     | 130     | 90      | 12            | 7.8          |
| TR-10   | 180*250                 | 250     | 180     | 125     | 12            | 23           |
| TR-12   | 250*300                 | 300     | 230     | 164     | 12            | 37           |
| TR-15   | 300*380                 | 380     | 260     | 185     | 16            | 60           |
| TR-24   | 300*680                 | 600     | 300     | 205     | 16            | 100          |

插头

slotting head

| Model型号                 | SI100       | SI125       |
|-------------------------|-------------|-------------|
| Slotting stroke插削行程(mm) | 100         | 125         |
| Voltage电压 (V)           | 220/380/415 | 220/380/415 |
| Power (w)               | 250         | 370         |
| Speed(RPM)              | 35-350      | 35-350      |



# ER套装铣夹头

## ER SPRING COLLET AND CHUCK

SET OF COLLET AND CHUCK 夹头、锥柄型式

The complete collet chuck set is supplied with wooden box (or plastic box) and spinner.



| 形式<br>TYPE      | 顶尖高度<br>Center Height                                                            | 适用型号<br>used Of Model |
|-----------------|----------------------------------------------------------------------------------|-----------------------|
| BC20-ER16-120   | ER16-3,4,5,6,7, 8,9, 10                                                          | 8pCs                  |
| BC20-ER11 6-180 | ER16-3,4,5, 6,7,8,9, 10                                                          | 8PCs                  |
| BC20-ER16-150   | ER16-3,4,5,6,7,8,9,10                                                            | 8PCs                  |
| BC20-ER20-120   | ER20-3, 4,5,6,7,8,9,10, 11,12, 13                                                | 11PCS                 |
| NI30-ER32-6     | ER32-6,8, 10,12,16,20                                                            | 6PCs                  |
| NT30-ER32-18    | ER32-3,4, 5, 6,7,8, 9, 10, 11, 12,13,14,15, 16, 17,18, 19, 20                    | 18PCs                 |
| NT40-ER32-6     | ER32-6, 8, 10, 12,16,20                                                          | 6PCS                  |
| NT40-ER32-18    | ER32-3,4, 5, 6, 7,8,9,10, 11, 12,13, 14,15, 16, 17, 18,19, 20                    | 18PCs                 |
| NT40-ER40-7     | ER40-6,8,10,12,16, 20, 25                                                        | 7pCs                  |
| NT40-ER40-23    | ER40-4, 5, 6,7,8, 9,10, 11,12,13, 14,15, 16,17,18, 19, 20, 21,22,23, 24,25, 26   | 23pCS                 |
| NT50-ER40-7     | ER40-6,8 10 12 16 20 25                                                          | 7pCs                  |
| NT50-ER40-23    | ER40-4, 5, 6,7,8, 9, 10, 11,12, 13,14, 15,16,17,18,19,20, 21, 22, 23, 24, 25, 26 | 23PCs                 |
| NT50-ER50-6     | ER50-12,14,16, 20, 26, 32                                                        | 6PCS                  |
| NT50-ER50-12    | ER50-12,14, 16, 20,22,24, 27, 28, 30, 32,34                                      | 12PCS                 |
| R8-ER32-6       | ER32-6,8, 10, 12, 16, 20                                                         | 6PCS                  |
| R8-ER32-18      | ER32-3,4,5,6,7, 8, 9, 10,11,12, 13, 14,15,16, 17, 18,19,20                       | 18PCS                 |

## 三爪卡盘

3-Jaw chuck



### 尺寸、性能参数

#### Dimension Characteristic Parameters

| 规格    | D1   | D2   | D3  | H     | H1    | H2    | h   | S  | z-d   | 最大输入扭矩 | 极艰转速 | 净重    |
|-------|------|------|-----|-------|-------|-------|-----|----|-------|--------|------|-------|
| 80    | 55   | 66   | 16  | 66    | 50    | -     | 3.5 | 8  | 3-M6  | 40     | 4000 | 1.9   |
| 100   | 72   | 84   | 22  | 74.5  | 55    | -     | 3.5 | 8  | 3-M8  | 60     | 3500 | 3.2   |
| 125   | g5   | 108  | 30  | 84    | 58    | -     | 4   | 10 | 3-M8  | 10a    | 3000 | 5     |
| 130   | 100  | 115  | 30  | 86    | 60    | -     | 3.5 | 10 | 3-M8  | 100    | 3000 | 5.6   |
| 160   | 130  | 142  | 40  | g5    | 65    | -     | -   | 10 | 3-M8  | 160    | 2500 | 8.8   |
| 160A  | 130  | 142  | 40  | 109   | 65    | 71    | 5   | 10 | 3-M8  | 160    | 2500 | 8.3   |
| 165   | 130  | 145  | 40  | 96.5  | 66.5  | -     | 4.5 | 12 | 3-M8  | 160    | 2500 | 9.5   |
| 190   | 155  | 172  | 55  | 105   | 75    | -     | 5   | 12 | 3-M10 | 250    | 2000 | 13.8  |
| 200   | 165  | 180  | 65  | 109   | 75    | -     | 5   | 12 | 3-M10 | 250    | 2000 | 15.5  |
| 200c  | 1165 | 180  | 65  | 122   | 75    | 78    | 5   | 12 | 3-M10 | 250    | 2000 | 14.1  |
| 200A  | 165  | 180  | 55  | 122   | 75    | 80    | 5   | 12 | 3-M10 | 250    | 2000 | 14.1  |
| 240   | 19   | 215  | 70  | 120   | 80    | -     | 3   | 12 | 3-M12 | 320    | 1600 | 24    |
| 240C  | 195  | 215  | 70  | 130   | 80    | 84    | 8   | 12 | 3-M12 | 320    | 1600 | 20    |
| 250   | 206  | 226  | 80  | 120   | 80    | -     | 5   | 12 | 3-M12 | 320    | 1600 | 25.7  |
| 250c  | 206  | 226  | 80  | 130   | 80    | 84    | 5   | 12 | 3-M12 | 320    | 1600 | 23    |
| 250A  | 206  | 226  | 80  | 136   | 80    | 86    | 5   | 12 | 3-M12 | 320    | 1600 | 23    |
| 315   | 250  | 285  | 100 | 147   | g0    | -     | 5   | 14 | 3-m16 | 400    | 1200 | 47    |
| 315A  | 285  | 285  | 100 | 153   | 90    | 95    | 5   | 14 | 3-M16 | 400    | 1200 | 41    |
| 320   | 270  | 290  | 100 | 152.5 | 95    | -     | 11  | 13 | 3-M16 | 400    | 1200 | 47.5  |
| 320C  | 270  | 290  | 100 | 153.5 | 95    | 101.5 | 11  | 13 | 3-M16 | 400    | 1200 | 42    |
| 325   | 272  | 296  | 100 | 153.5 | g6    | -     | 12  | 13 | 3-M16 | 400    | 1200 | 49    |
| 325C  | 272  | 296  | 100 | 154.5 | 96    | 102.5 | 12  | 13 | 3-M16 | 400    | 1200 | 44    |
| 325A  | 272  | 296  | 100 | 169.5 | 96    | 105.5 | 12  | 13 | 3-M16 | 400    | 1200 | 46    |
| 380   | 325  | 350  | 135 | 155.1 | 98    | -     | 5   | 14 | 3-M16 | 500    | 1000 | 65    |
| 380   | 325  | 3so  | 135 | 156.5 | 98    | 104.5 | 5   | 14 | 3-M16 | 500    | 1000 | 60    |
| 380A  | 325  | 350  | 135 | 171.5 | gg    | 107.5 | 6   | 14 | 3-M16 | 500    | 1000 | 62    |
| 400   | 340  | 368  | 138 | 158   | 100   | -     | 5   | 17 | 3-M16 | 500    | 1000 | 74    |
| 400D  | 340  | 368  | 138 | 172   | 100   | 108   | 5   | 17 | 3-M16 | 500    | 1000 | 71    |
| 500   | 440  | 465  | 210 | 184   | 115   | -     | 5   | 17 | 6-M16 | 630    | 800  | 124   |
| 500D  | 440  | 465  | 210 | 202   | 115   | 126   | 5   | 17 | 6-M16 | 630    | 800  | 117.6 |
| 500A  | 440  | 465  | 210 | 202   | 115   | 126   | 6   | 17 | 6-M16 | 630    | 800  | 119   |
| 630   | 560  | sgs  | 270 | 214   | 133.5 | -     | 7   | 19 | 6-M16 | 800    | 600  | 217   |
| 630D  | 560  | 595  | 270 | 218   | 133.5 | 142   | 7   | 19 | 6-M16 | 800    | 600  | 208   |
| 630E  | 560  | 595  | 270 | 220.5 | 133.5 | 142   | 7   | 19 | 6-M16 | 800    | 600  | 215   |
| 800D  | 710  | 760  | 385 | 250   | 161   | 170   | 8.5 | 21 | 6-M20 | 1000   | 500  | 250   |
| 800E  | 710  | 760  | 385 | 250   | 161   | 170   | 8.5 | 21 | 6-M20 | 1000   | 500  | 256   |
| 1000E | 905  | 950  | 460 | 310   | 198   | 216   | g   | 24 | 6-M24 | 1200   | 400  | 745.6 |
| 1250E | 1060 | 1150 | 550 | 341   | 228   | 237   | 11  | 24 | 6-M30 | 1300   | 320  | -     |

短圆柱连接形式；

K11型卡盘配带整体爪  
(正卡爪和反卡爪各一副)；

K11A、K11C 和  
K11D)、K11E型卡盘  
爪为分离爪形式，可调整  
为正卡爪或反卡爪使用；

K11A型和K11D、  
K11E型卡盘卡爪符合  
ISO3442标准；

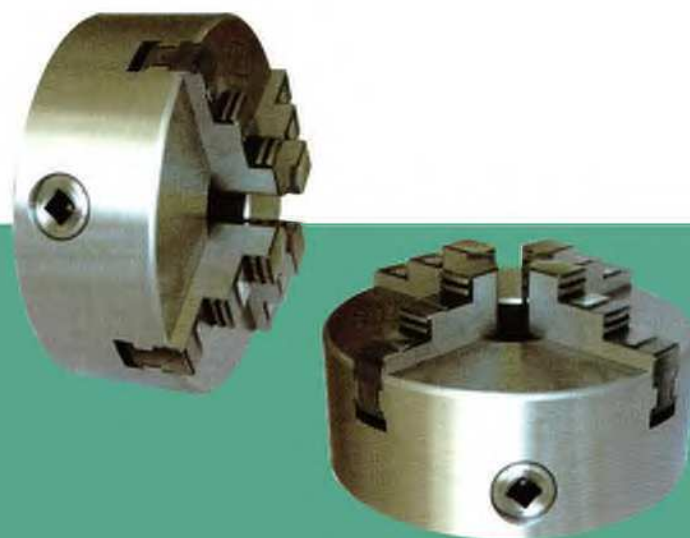
K11C型卡盘卡爪为传统  
结构的分离爪；

可提供各种形式的软卡  
爪；

按用户需求，可提供前  
穿螺钉安装方式卡盘。

## 四爪卡盘

4-Jaw chuck



### 尺寸、性能参数

#### Dimension Characteristic Parameters

| 规格        | D1   | D2   | D3  | H        | H1    | h   | z-d   | 净重kg     |
|-----------|------|------|-----|----------|-------|-----|-------|----------|
| 80        | 55   | 66   | 15  | 66       | 50    | 3.5 | 4-5   | 2        |
| 100       | 72   | 84   | 22  | 73       | 53.5  | 3.5 | 3-M8  | 3        |
| 125       | 95   | 108  | 30  | 84       | 58    | 4   | 3-M8  | 5        |
| 130       | 100  | 115  | 30  | 86       | 60    | 3.5 | 3-M8  | 5.6      |
| 160       | 130  | 142  | 40  | 95       | 65    | 5   | 3-y8  | 8.8      |
| 160A      | 130  | 142  | 40  | 109      | 65    | 5   | 3-M8  | 8.3      |
| 165       | 130  | 145  | 40  | 96.5     | 66.5  | 4.5 | 3-M8  | 9.8      |
| 190       | 155  | 172  | 55  | 105      | 75    | 5   | 3-M10 | 13.8     |
| 200       | 165  | 180  | 65  | 109      | 75    | 5   | 3-M10 | 15.5     |
| 200C      | 165  | 180  | 65  | 122      | 75    | 5   | 3-M10 | 14.1     |
| 200A      | 165  | 180  | 65  | 122      | 75    | 5   | 3-M10 | 14.1     |
| 240       | 195  | 215  | 70  | 120      | 80    | 8   | 3-M12 | s        |
| 250       | 206  | 226  | 80  | 120      | 80    | 5   | 3-M12 | 26       |
| 250C      | 206  | 226  | 80  | 130      | 80    | 5   | 3-M12 | 23       |
| 250A      | 206  | 226  | 80  | 136      | 80    | 5   | 3-M12 | 23       |
| 325(325C) | 272  | 296  | 100 | 153.5    | 96    | 12  | 3-M16 | 5(45)    |
| 325A      | 272  | 296  | 100 | 169.5    | 96    | 12  | 3-M16 | 47       |
| 380(380C) | 325  | 350  | 135 | 155.5    | 98    | 6   | 3-M16 | 66(61)   |
| 380A      | 325  | 350  | 135 | 171.5    | 98    | 6   | 3 M16 | 3        |
| 400(400D) | 340  | 368  | 138 | 158(172) | 100   | 6   | 3-M16 | 75(72)   |
| 500(500A) | 440  | 465  | 210 | 184(202) | 115   | 6   | 5M16  | 127(120) |
| 630(630D) | 560  | 595  | 270 | 214(218) | 133.5 | 7   | 5-M16 | 219(210) |
| 803D      | 710  | 760  | 385 | 250      | 161   | 85  | 5-M20 | -        |
| 800E      | 710  | 760  | 385 | 250      | 16    | 8.5 | 5-M20 | -        |
| 1000F     | 905  | 950  | 460 | 310      | 198   | 9   | 5-M24 | -        |
| 1250E     | 1060 | 1150 | 550 | 341      | 228   | 11  | 5-M30 | -        |

短圆柱连接形式；  
卡爪结构参数与K11  
系列基本一致；  
适用于正方形、八棱  
形等零件的加工。

1、Short cylindri-  
cal center  
mounting.

2. The structure  
parameters of  
these chucks are  
the same as those  
of the K11 series.

3、Suitable for  
processing square  
Components and  
eight-edged  
coponents.

硬度计

Hardness tester



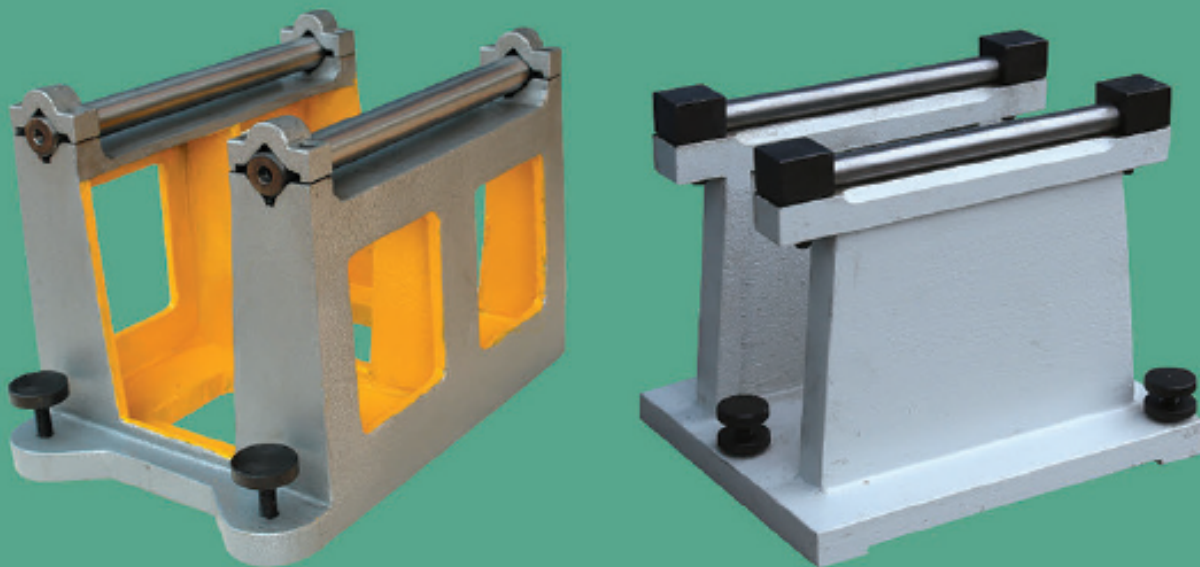
|                                              |            |                                         |          |
|----------------------------------------------|------------|-----------------------------------------|----------|
| 型号Model                                      | HR-150A    | Standard accessories                    | quantity |
| 最大承重Maximum load(kg/N)                       | 150/1471   | Large testing table 150mm               | 1        |
| 范围Load range(kg/N)                           | 60,100,150 | Small testing table 62mm                | 1        |
| 最小承重Little range load(kg/N)                  | 10         | V-block anvil 58mm                      | 1        |
| 最大检测高度Maximum test height(mm)                | 108        | Diamond penetrator 120°                 | 1        |
| 喉深Depth of throat(mm)                        | 135        | Steel base penetrator                   | 1        |
| 主轴到底座最大距离Max.depth of spindle below base(mm) | 50         | Rockwell A, B, C, D standard test block | 5        |
| 底座尺寸Size of base(mm)                         | 180x465    | Screwdrivers                            | 2        |
| 机器高度Machine height(mm)                       | 630        | Level adjusting leg                     | 1        |
| 重量Weight(kgs)                                | 65         | Accessory box                           | 1        |
|                                              |            | Dustproof plastic cover                 | 1        |
|                                              |            | Operation manual                        | 1        |

# 砂轮平衡支架

## Grinding wheel balancer

◆ 砂轮平衡支架是磨床必须配备的附件，用它可以静平衡砂轮，以达到正确使用砂轮的目的，加水平仪还可以检测精密工件的静平衡。  
规格: 200mm 800mm .

- 1、Grinding wheel balancer is one of the indispensable attachment for grinding machine. With the help of this grinding wheel balance, the grinding wheel can be static balance, to achieve the purpose of the proper use of grinding wheel, use the frame level can also inspect the static balance of precision instrument parts.
- 3、Specification: 500 mm to 800 mm.



# 平行块

## Parallel block



| 型号<br>Model | 规格<br>L*W*H                            | 件数<br>pcs |
|-------------|----------------------------------------|-----------|
| PB151-1     | 100 x4x10 ( 14,18,22,26,30,34,38,42)   | 9x2       |
| PB151-2     | 160 x 4 x 10(14,18,22,26,30,34,38,42)  | 9x2       |
| PB151-3     | 150 x 8,5x14(16,20,24,30,32,36,40,44)  | 9 x 2     |
| PB151-4     | 150 x 10 x 14(16,20,24,30,32,36,40,44) | 9 x 2     |

Алматы (7273)495-231  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-04  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Саранск (8342)22-96-24  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97  
Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Уда (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

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