

中型数控深孔钻镗床 Medium diameter BTA deep hole drilling machine



TSK2116、TSK2120、TSK2136: 具有钻孔和镗孔功能, Has drilling and boring function.  
TSK2216、TSK2220、TSK2236: 只有镗孔功能 Only has boring function.

本机床是专门加工圆柱型深孔工件的设备。选用不同的深孔刀具可到达不同的精度要求。  
常规产品采用半自动控制,也可以选配数控(在加工盲孔,阶梯孔时,建议选配数控控制系统)。  
客户可选配钻杆箱(能提高钻孔加工效率和加工精度)。订货时请说明。  
我公司生产的深孔钻镗床,采用优质铸铁(HT300),木型铸造工艺,床体材质均匀,外形美观,刚性  
好,精度保持性高。导轨面淬火磨处理。

可根据客户要求定制各种变形产品

This machine is specially for the cylinder-shaped workpiece, choose different cutter can obtain different accuracy requirement.

Our normal machine is semi automatic control, you can choose CNC control also (when works on blind holes, CNC control is suggested).

Customer can choose drilling bar box (it can enhance efficient and accuracy), please indicate when place order.

Our machine adopts super cast iron (HT300), wood type cast molds, machine bed material is uniform, good looking appearance, good rigidity, accuracy keeping is long span, railway surface is quenched and ground.

深孔机床制造专家 We Are Deep Hole Machine Expert

机床主要参数 Machine Main Parameters

技术规格 Technical specification		参数 Parameters			
		TSK2116/ TSK2216	TSK2120/ TSK2220	TSK2136/ TSK2236	
工作范围 Working Capacity	钻孔直径范围 (mm) Drilling diameter range	Φ30~Φ80			
	镗孔直径范围 (mm) Boring diameter range	Φ40~Φ160	Φ40~Φ200	Φ40~Φ360	
	孔深 (m) Drilling/boring range	1000~6000 每隔 1000mm 一个规格			
	工件外径范围 (mm) Workpiece OD range	Φ50~Φ200	Φ60~Φ300	Φ100~Φ450	
	床头箱 Headstock	中心高 (mm) Center height	400	400	500
机床性能 Machine characters	主轴孔径 (mm) Spindle bore hole	Φ75			
		主轴前端锥孔 (mm) Spindle front taper hole	Φ85 1:20		
	进给 Infeeding	变速范围 (r/min) Speed range	61-1250	61-1000	40-500
		速度范围 (无级, mm/min) Speed range (stepless)	5-1000		
	快移速度 (无级, mm/min) Rapid speed (stepless)	1500			
电机 Motor	主电机功率 (KW) Main motor power	15	30	30	
	液压系统电机功率 (KW) Hydraulic system motor power	1.5	1.5	1.5	
	授油器电机 (KW) Oil pressure motor	4.3	4.3	4.3	
	进给电机 (KW) Infeed motor	4.3	4.3	4.3	
	冷却泵电机 (KW) Coolant pump motor	5.5	5.5	5.5	
冷却系统 Coolant system	最大压力 (MPa) Max. pressure	2.5	2.5	2.5	
	最大流量 (L/min) Max. flow	300	400	600	

大型数控深孔钻镗床 Heavy duty BTA deep hole drilling machine



**TSK2150: 具有钻孔和镗孔功能 Has drilling and boring function.**

**TSK2250: 只有镗孔功能 Only has boring function.**

本机床是专门加工圆柱型深孔工件的设备。选用不同的深孔刀具可达到不同的精度要求。

常规产品采用半自动控制,也可以选配数控(在加工盲孔,阶梯孔时,建议选配数控控制系统)。

本产品根据工件的长短,有两种加工工艺,短工件采用授油器授油并液压顶紧(同T2120系列),长工件采用镗杆尾部授油,四爪卡盘夹紧。授油器采用新型主轴式结构,承重能力有很大的提高,旋转精度提高,床身采用双矩形导轨,宽度800mm。承载能力大。

客户可选配钻杆箱(能提高钻孔加工效率和加工精度)。订货时请说明。

我公司生产的深孔钻镗床,采用优质铸铁(HT300),木型铸造工艺,床体材质均匀,外形美观,刚性高,精度保持性高。导轨面淬火精磨处理,耐磨性高。

可根据客户要求定制各种变形产品

This machine is specially for the cylinder-shaped workpiece, choose different cutter can obtain different accuracy requirement.

Our normal machine is semi automatic control, you can choose CNC control also (when works on blind holes, CNC control is suggested).

Customer can choose drilling bar box (it can enhance efficient and accuracy), please indicate when place order.

This machine, according to the workpiece length, has two processing method, short workpiece adopts oil supply device and hydraulic clamping (same as T2120 series), long workpiece adopts boring bar tail to oil supply, four-craw chunk clamping. Oil supply adopts new type spindle structure, loading capacity is much more higher, rotary accuracy is higher also. The machine bed adopts double rectangle rail, width is 800mm, big loading capacity.

Our machine adopts super cast iron (HT300), wood type cast molds, machine bed material is uniform, good looking appearance, good rigidity, accuracy keeping is long span, railway surface is quenched and ground.

深孔机床制造专家 We Are Deep Hole Machine Expert

主要技术规格及性能 Main technical specification

项目名称 Item name	参数 (Parameters)
	TSK2150
钻孔直径范围 Drilling diameter range	50mm-120mm
镗孔直径范围 Boring diameter range	120-500mm
镗孔最大深度 Boring :Max. Depth	1000-15000mm
工件夹持直径范围 Workpiece clamping diameter range	300-650mm
主轴中心高 Spindle center height	625mm
床头箱主轴孔径 Headstock spindle hole diameter	130mm
主轴前端锥孔 Spindle front taper hole	公制140#
主轴变速范围 Spindle speed range	3.15-315r/min 21级
进给速度范围(无级) Infeed speed range (stepless)	5-500mm/min
拖板快速移动速度 Carrier rapid move speed	1.5 m/min
主电机功率 Main motor power	30kw n=960r/min
液压泵电机功率 Hydraulic pump motor power	1.5kW
进给电机功率 Infeed motor power	5.5kW
冷却泵电机功率 Coolant pump motor power	5.5kW 3组
冷却系统额定压力 Coolant system rated pressure	2.5MPa
冷却系统流量 Coolant system flow	300 600 900L/min
液压系统额定工作压力 Hydraulic system rated working pressure	6.3MPa

大型数控深孔钻镗床 Heavy duty BTA deep hole drilling machine

TSK2180、TSK21100、TSK21120: 具有钻孔和镗孔功能 Has drilling and boring function.

TSK2280、TSK22100、TSK22120: 只有镗孔功能 Only has boring function.



本机床是专门加工圆柱型深孔工件的设备。选用不同的深孔刀具可完成钻，镗，扩，滚压加工。常规产品采用半自动控制，也可以选配数控（在加工盲孔，阶梯孔时，建议选配数控控制系统）。本产品根据工件的长短，有两种加工工艺，短工件采用授油器授油并液压顶紧（同T2120系列），长工件采用镗杆尾部授油，四爪卡盘夹紧。授油器采用新型主轴式结构，承重能力有很大提高，旋转精度提高，床身采用双矩形导轨，宽度1250mm。承载能力大。

客户可选配钻杆箱（能提高钻孔加工效率和加工精度）。订货时请说明。

本机床采用优质铸铁（HT300），木型铸造工艺，床体材质均匀，外形美观，刚性好，精度保持性高。导轨面淬火精磨处理，耐磨性高。

本机床广泛用于机床制造，机车，船舶，煤矿机械，风电设备，核电设备等领域。

根据工件情况，本系列深孔钻镗床可选择下列几种工作形式：

- 1, 工件旋转，刀具旋转并作往复进给运动。
- 2, 工件旋转，刀具不旋转只做往复进给运动。
- 3, 工件不旋转，刀具旋转并作往复进给运行。

可根据客户要求定制各种变形产品

This machine is widely used in lathe manufacturing, engine, vessels, coal machinery, wind power equipments and so on.  
According to workpiece, these is the following working method:  
1. workpiece rotary, cutter rotary and infeed.  
2. workpiece rotary, cutter do not rotary only infeed.  
3. Workpiece do not rotary, cutter rotary and infeed.  
This machine, according to the workpiece length, has two processing method, short workpiece adopts oil supply device and hydraulic clamping (same as T2120 series), long workpiece adopts boring bar tail to oil supply, four-craw chuck clamping. Oil supply adopts new type spindle structure, loading capacity is much more higher, rotary accuracy is higher also. The machine bed adopts double rectangle rail, width is 800mm, big loading capacity.  
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主要技术规格及性能 Main technical specification

技术规格 Technical specification	参数 (Parameter)		
	T2180	T21100	T21120
镗杆最大直径 boring Max. diameter	800mm	1000mm	12000mm
钻孔直径范围 drilling diameter range	60mm- 150mm	60mm- 150mm	60mm- 150mm
钻镗孔最大深度 boring Max. depth	1000-20000mm	1000-20000mm	1000-20000mm
主轴中心高 spindle center height	800mm	1000mm	1300mm
工件夹持直径范围 (卡盘) workpiece clamping diameter range(chuck)	320-1450mm	320-1850mm	320-2350mm
工件夹持直径范围 (中心架) workpiece clamping diameter range(center rest)	320-950mm	320-950mm	320-950mm
工件夹持直径范围 (托架) workpiece clamping diameter range(support rest)	320-1250mm	320-1250mm	320-1250mm
床头箱电机功率 headstock motor power	55KW直流电机	55KW直流电机	55KW直流电机
床头箱变速范围 headstock speed range	3-120r/min	3-120r/min	3-120r/min
钻杆箱电机功率 drilling bar box motor power	45KW	45KW	45KW
钻杆箱变速范围 drilling bar box speed range	16-270r/min 12级	16-270r/min 12级	16-270r/min 12级
进给电机功率 infeed motor power	7.5KW 交流伺服	7.5KW 交流伺服	7.5KW 交流伺服
进给速度范围 infeed speed range	0.5-600mm/min	0.5-600mm/min	0.5-600mm/min
快速电机功率 rapid motor power	11KW	11KW	11KW
液压泵电机功率 Hydraulic pump motor power	1.5KW	1.5KW	1.5KW
冷却泵电机功率 coolant pump motor power	7.5KW 4组	7.5KW 4组	7.5KW 4组
冷却系统额定压力 coolant system rated pressure	2.5MPa	2.5MPa	2.5MPa
冷却系统流量 coolant system flow	200-800L/min	200-800L/min	200-800L/min