

小型数控深孔钻镗床 Small diameter BTA deep hole drilling machine



TSK2110: 具有钻孔和镗孔功能 Has solid drilling and boring function.

TSK2210: 只有镗孔功能 Only has boring function.

机床主要特点:

- 箱体、床体、进给滑台等基础件采用优质铸铁铸造;
- 刀具进给导轨采用滑动导轨,导轨面经过精密磨削和淬火处理;
- 床体回油槽倾斜设计,不会存油;
- 伺服主轴电机驱动刀具旋转,刀具转速可以实现无级调速;
- 刀具进给采用伺服电机驱动滚珠丝杠来实现,刀具进给量可以实现无级调速;
- 钻杆支架带有自动挂拉机构。

Machine mainly parameters:

- The chamber box,machine bed,infedding slide table and other basic parts casted by super iron;
- The cutter tool infedding guide rail adopts slide guide linear rail, guide rail surpace is precisely ground and quenched;
- The machine bed oil returning chute is designed slantly,which will not store oil;
- The servo spindle motor drive the tool rotate,the tool rotating speed is stepless;
- The cutter tool infeed adopts servo motor to drive ball screw,so the tool infedding volume can be stepless controlled;
- The drill bar support rest has automatic hook device.

机床主要参数 Machine Main Parameters

技术规格 Technical specifications		参数 Parameters	
工作范围 Working capacity	钻孔直径范围 (mm) Drilling diameter range	Φ25 - Φ60	
	镗孔直径范围 (mm) Boring diameter range	Φ40 - Φ100	
	孔深 (mm) Drilling/boring depth	1000/2000/3000/4000	
机床性能 Machine Characters	Z轴 Zaxis	进给速度范围 (mm/min) Infeeding speed range	10 - 500
		快速移动速度 (m/min) Rapid movement speed	2
		进给电机扭矩 (Nm) Infeed motor torque	15
	钻杆箱 Drill bar box	最高转速 (r/min) Max. speed	1000
		电机功率 (KW) Motor power	18.5
	床头箱 Headstock	转速 (恒速, r/min) Speed(constant speed,r/min)	36
		电机功率 (KW) Motor power	3.7
	冷却系统 Coolant system	最大压力 (MPa) Max.pressure	2.5
		最大流量 (L/min) Max.flow	200
	其它 Others	最大钻孔长径比 Max.O-L diameter	100: 1
		机床总功率(约, KW) Machine general power	38KW
占地面积(长×宽, m) Floor floor(LXW,m)		1m机床: 5.6×2.7; 2m机床: 7.8×2.7; 3m机床: 10×2.7; 4m机床: 12.5×2.7;	
机床总重量(约, 吨) Machine general weight(Ton)		1m机床: 5; 2m机床: 7; 3m机床: 9; 4m机床: 11;	

● 机床主要配置 Machine mainly configuration

钻杆箱伺服主电机、刀具进给用滑动导轨、刀具供油泵组、液压站、钻杆支架、电箱空调、恒速床头箱、一套说明书

Drill bar box servo main motor, cutter tool infeeding slide guide rail, cutting tool oil provide pump group. Hydraulic station, drill bar support rest, electrical air condition, constant speed headstock, one set of manual book.

● 机床选配件

刀具、辅具、切削油、主机全防护、自动脱油机、排屑机、用户指定的其他配件。

Cutter tool, auxiliary and accessories, cutting oil, automatic chips oil washer, chips conveyor and others accessories.

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



床头箱
Headstock



授油器
Oil pressure head



钻杆箱
Drill box

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。导轨面淬火精磨处理。

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	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	1000 - 12000		
		每隔1000mm一个规格			
	工件外径范围(mm) Workpiece OD range	Φ50 - Φ200	Φ60 - Φ300	Φ2000 - Φ450	
机床性能 Machine characters	床头箱 Headstock	中心高 (mm) Center height	400	400	500
		主轴孔径 (mm) Spindle bore hole	Φ75		
		主轴前端锥孔 (mm) Spindle front taper hole	Φ85 1:20		
		变速范围(r/min) Speed range	61-1250	61-1000	40-500
	进给 Infecding	速度范围 (无级 mm/min) Speed range(stepless)	0-1000		
		快移速度 (无级 mm/min) Rapid speed(stepless)	2000		
	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 mctor	4.5	4.5	4.5
		进给电机 (KW) Infeed motor	4.5	4.5	4.5
		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		200	300	800	

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（HT30C），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。

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 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.

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
	T2150
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	2m/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	0.36MPa
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