

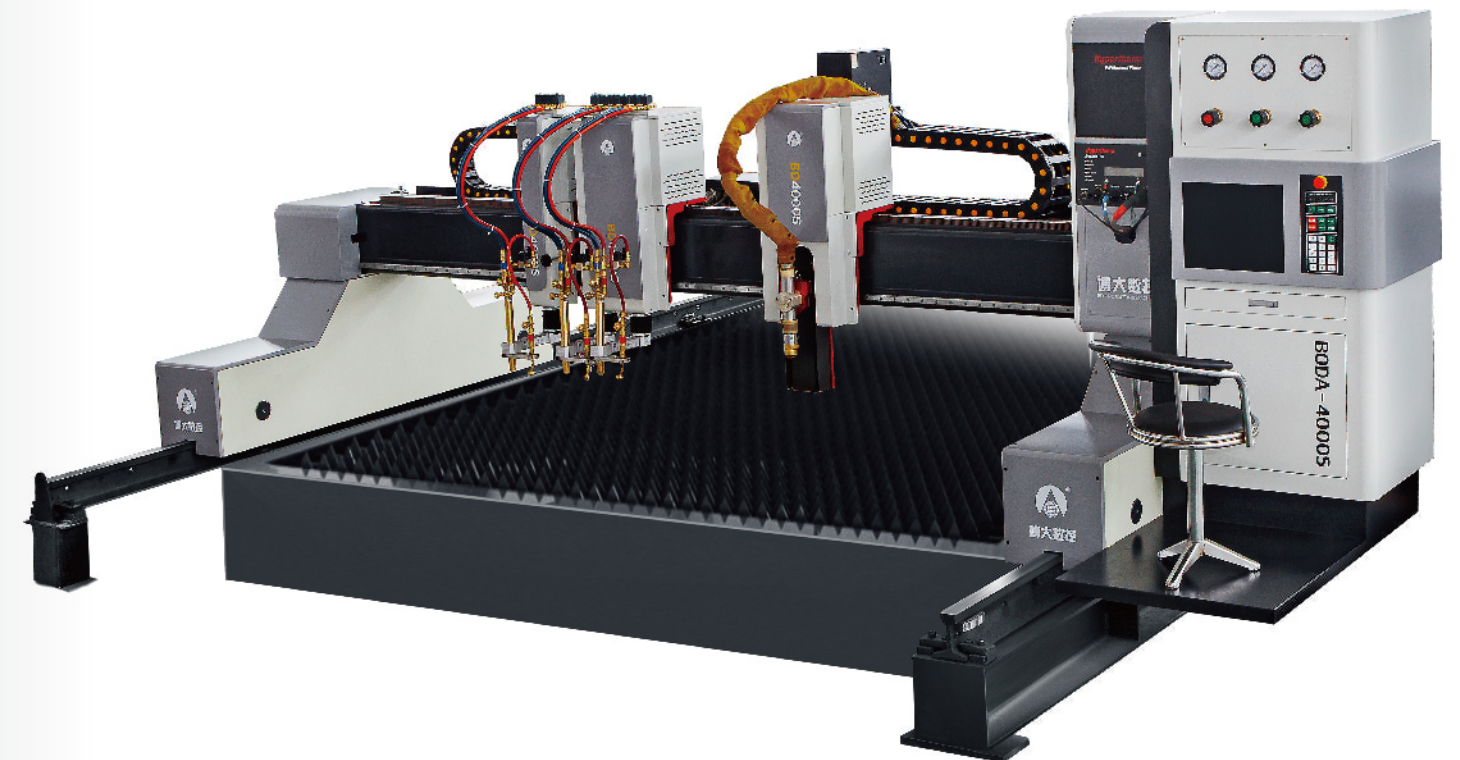


# PLATE CUTTING

HIGH SPEED | HIGH QUALITY | HIGH EFFICIENCY

## 板切割系列

PLATE CUTTING SERIES



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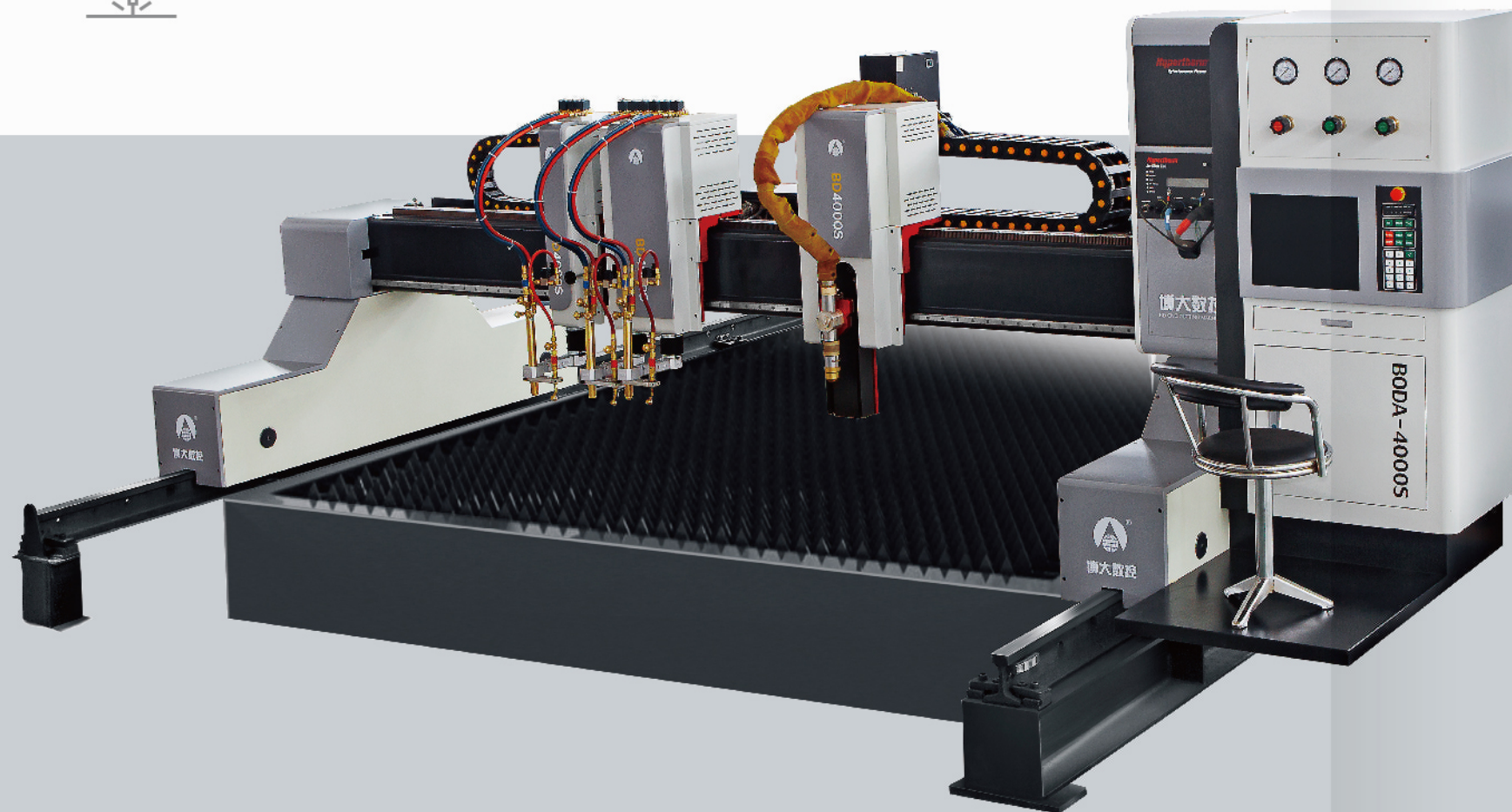
## BODA IV series

### New Generation of CNC High-Precision Plasma Cutting Machine 新一代数控高精细等离子切割机

#### 产品概述 | DESCRIPTION

BODA IV系列新一代数控高精细等离子切割机不仅性能优越，且采用工业化外观设计，使技术与艺术完美融合，打造出平板切割机的旗舰版。

BODA IV Series New Generation of CNC High-Precision Plasma cutting machine not only has superior performance, but also adopts an industrialized design, which enables the perfect fusion of technology and art and creates the ultimate version of the flat-plate cutting machine.



## PLATE CUTTING

#### 产品特点 | FEATURES



数控系统采用总线式系统。模块间(内置PLC/IO/伺服系统)采用实时以太网EtherCAT通讯，布线简洁，故障率低，抗干扰能力强，开放性好，可实现用户个性化定制，引领数控切割行业的发展方向。

CNC system adopts bus system. The module uses (built-in PLC/IO/servo system) real-time Ethernet Ether CAT communication, which has simple wiring, low failure rate, strong anti-interference ability, and good openness. It can realize user customization and lead the development direction of CNC cutting industry.



可配备LH-270A精细等离子，100%暂载率。电源组件采用先进的浮点型数字信号处理器(DSP)控制，可靠性好、切割质量媲美或者超越国外同类产品。

Can be equipped with LH-270A precision plasma, 100% duty cycle: The power components are controlled by advanced floating-point digital signal processor (DSP) which has good reliability cutting quality is comparable or exceeds similar foreign products.



高精细等离子引进了多气体工艺，其电弧的稳定性得以提高，弧压缩更精细，切割表面质量已达激光切割的下限，成本远低于激光切割。

High precision plasma has introduced multi-gas process, and its arc stability is improved. The arc compression is more precise, and the quality of the cutting surface has reached the lower limit of laser cutting, and the cost is much lower than that of laser cutting.



机器结构比普通切割机结构优化，刚性好，为高速运动性能提供了保障。配置丰富，性能优越，人机对话更直接。

The structure of the machine is better than the ordinary cutting machine with good rigidity. It provides a guarantee for high-speed sport performance; rich configuration, superior performance, more direct man-machine dialogue.



战略合作的美国Sigma软件兼容多种行业设计软件，精适于板、管、型材等切割，售后服务快捷，开发团队强大。

Our strategic cooperation partner-Sigma software compatible with a variety of industry design software, proficient in the plate, tube, profiles fast after-sales service and strong development team.



特殊设计制造的纵向定位基础采用直线导轨(选配)，精度高、稳定性好。

Longitudinal positioning which has special design adopts linear guide with high precision and stability(optional).



BODA IV  
series

New Generation of CNC High-Precision  
Plasma Cutting Machine  
新一代数控高精细等离子切割机

产品概述 | DESCRIPTION

该机型采用工业化外观设计，使技术与艺术融合，打造平板切割机的旗舰版。

This model adopts the industry appearance design combined the technology and art, built the flat plate cutting machine ultimate.



机器结构比普通切割机结构优化，刚性好，为高速运动性能提供了保障。配置丰富，性能优越，人机对话更直接。

Machine structure is more optimal than ordinary cutting machine, good rigidity, provide the guarantee for high speed movement performance. Rich configuration, superior performance, more direct man-machine.



战略合作的美国Sigma软件兼容多种行业设计软件，精通于板、管、型材等切制，售后服务快捷，开发团队强大。

Strategic cooperation partner- Sigma software is compatible with a variety of industry design which proficient in plate, pipe, profiles steel cutting, quick after-sales service, strong development team.



可配备LH-270A精细等离子电源,100%暂载率。电源组件采用先进的浮点型数字信号处理器(DSP)控制,可靠性好、切割质量媲美或者超越国外同类产品。

It can be equipped with LH-270A precision plasma, 100% duty cycle. The power source components adopt the advanced floating-point Digital Signal Processor (DSP) control, good reliability, cutting quality comparable to or exceed the similar foreign product.



精细等离子引进了多气体工艺，电弧稳定性提高，弧压缩更精细，切割成本远低于激光切割。

High precision plasma introduced various gas technology, arc stability is improved, arc compression is more precision. Cutting surface quality has reached the lower limit of laser cutting, and the cost is far lower than the laser cutting.

选型配置表—0428 | SELECTION CONFIGURATION TABLE—0428

			精细等离子切割机 Precision plasma cutting machine	精细小孔等离子切割机 Precision hole small hole plasma cutting machine	全新四代IV系列 高精细小孔等离子切割机 New 4th generation IV series high precision small hole plasma cutting machine
机床主标准规格 Machine tool standard specifications	工业设计外观 Industrial design appearance	三代（红色标准） Third generaion(red standard)	√	√	×
		四代（灰色标准） Fouehgeneration (gray standard)	×	×	√
	加工钢板尺寸范围 Plate dimension sccope	按客户需求 According to customer need	√	√	√
	运行速度 Running speed	≥12M/Min	√	√	√
	基础导轨（纵向） Gantry guide rail(longitudinal)	精磨导轨 Fine grinding gugide	√	√	√
		精铣导轨 Fine grnding guide	×	×	×
	龙门导轨（横向） Gantry guide rail(transverse)	直线导轨 Linear guide	√	√	√
	升降体 Lifter	博大(专利技术) BODA (Patented technology)	√	√	√
进口原装 Imported with original packaging		□	□	□	
控制装置 Control device	控制系统 CNC system	进口数控 Importe CNC	√	√	√
		国产数控 China CNC	□	□	□
	驱动伺服电机 Drive servomotor	进口伺服电机 Importe servo motor	√	√	√
		国产伺服电机 Chian servo motor	□	□	□
	等离子割炬调高 Height controller for plasma cutting torch	进口系统集成式弧压调高 Imported CNC integrated arc voltage height controller	□	√	√
		国产弧压调高 China arc voltage height controller	√	□	□
	火焰割炬调高 Height controller for flame cutting torch	进口电容调高 Imported capacitance height controller	□	□	□
		国产电容调高 China capacitance height controller	□	□	□
切割源 Cutting source	等离子 Plasma	进口精细电源 Imported precision plasma	□	□	□
		国产LH精细电源(六和) China LH precision plasma (LIUHE)	□	□	□
	火焰 Flame	进口电磁阀/减压阀 Imported solenoid valve and decompression valve	√	√	√
		进口割炬 Imported torch	□	□	□
		自动点火附件/高低预热阀组/多级穿孔阀组 Automatic ignition accessories/high-low preheat valve group/Multi-level piercing valve group	□	□	□
附件 Annex	烟尘净化装置 Fume purification device	干式烟尘净化 Dry Fume purification	□	□	□
	润滑装置 Lubricating		√	√	√
	激光指示装置/指示灯 Laser pointer device/Indicator lighter		□	□	□
	工作座椅 Work Chair		√	√	√
精度质量 Precision quality	最佳切割质量 Best cutting quclity	精细切割 Precision cutting	√	√	√
		精细小孔切割 Precision small hole cutting	×	√	√
	整机运行检测标准 Test standdard for whole machine running	国标/厂标 National standard/Factory standard	√	√	√
其他 Other	可按客户需求提供博大系列其他规格产品，或者按需定制 We can provide BODA series products with other specifications according to customer needs or offer users to customize on demand.				

配置选择标示  
Configuration choice marked

- √ 标准配置 Standard configuration  
□ 可选配置 Optional configuration  
× 无法选配 Not matching

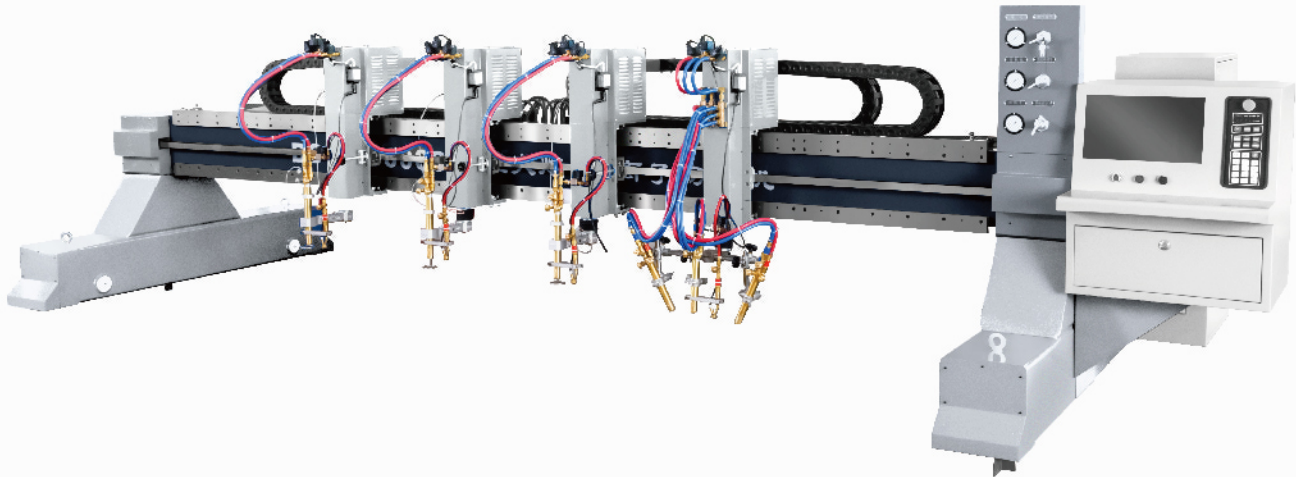
备注：仅供参考，机床为非标设备，具体配置博大公司销售人员和技术会根据客户实际工艺情况来确定，并以最终与客户签订合同及技术协会为准，我们的最高宗旨是为客户提供一流的产品与服务。

Note: For reference only, machine is non-standard equipment, BODA salesmen and technicians will confirm the configuration in details according to actual cutting process requirement of customers. The configuration will be confirmed by contract and technical agreement which signed by customer. Our highest aim is to offer the first-class products and services to customer



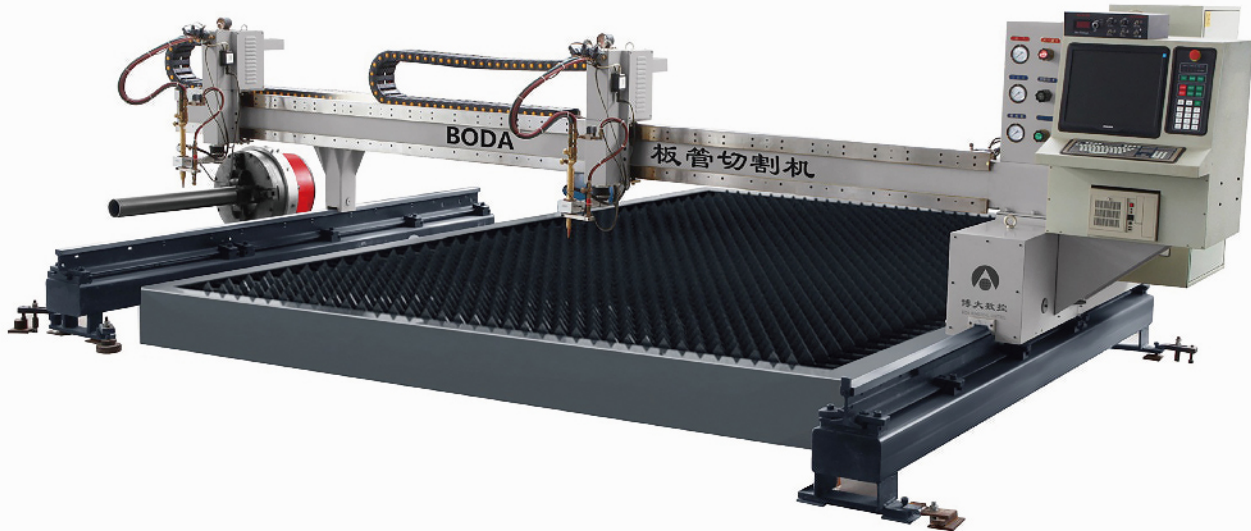
BODA  
series

Double-sided Driven CNC  
Flame Cutting Machine  
双边驱动数控火焰切割机



BODA  
series

CNC Plate & Pipe  
Cutting Machine  
板管切割机



机床技术参数 | MACHINE TECHNICAL PARAMETERS

	轨距 Track span	有效切割长度 Effective cutting length	有效切割宽度 Effective cutting width	数据系统 CNC system	驱动系统 Drive System	空程速度 Traveling speed
单边驱动 Single side driven	2500mm-4000mm	轨道长度减去 3000mm	1500mm-3000mm	BODA CNC 或进口系统	交流伺服驱动 AC servo drive	≤6000mm/min
双边驱动 Double-sideddriven	2500mm-10000mm	Raillength deduct 3000mm	1500mm-9000mm	BODA CNC or imported system		≤12000mm/min

☆特殊规格可定制，切割厚度达≤2400mm/min。 The traveling Speed can be customized to 24000mm/min according to the customer need.

火焰切割工艺参数 | FLAME CUTTING PARAMETERS

	切割气体 Cutting gas	切割速度 Cutting speed	切割厚度 Cutting thickness
单边驱动 Single side driven	O <sub>2</sub> /C <sub>3</sub> H <sub>4</sub> , O <sub>2</sub> /C <sub>2</sub> H <sub>2</sub> , 天然气等等 O <sub>2</sub> /C <sub>3</sub> H <sub>4</sub> ,O <sub>2</sub> /C <sub>2</sub> H <sub>2</sub> or natural gas,etc	100mm/min-750mm/min	6mm-300mm
双边驱动 Double-sideddriven			

☆特殊规格可定制，切割厚度达600mm。 The special specification can be customized, and cutting thickness can be achieved 600mm.

产品概述 | DESCRIPTION

数控管板一体切割机是我公司在通用龙门切割机的基础上开发的新型复合加工切割机。主要用于平板材、圆管切割加工。通过数控系统控制，在平面切割的基础上扩展出管材上进行曲线切割的功能。配备火焰、等离子可以方便地切割碳钢、不锈钢等。

该机主体为龙门式切割机，其可独立完成平面图形切割；在和管夹持用旋转主轴同步联动时完成圆管各种围形的切割。数控系统采用三轴联动软件控制，排套料采用博大专用切割套料软件，方便快捷。

具有以下特点：整机安装方便，运行稳定，操作简单，自动化程度高，切割加工精度高，速度快，效果好等特点。

CNC plate pipe cutting machine is a new combined cutting machine developed on the basis of the general gantry type cutting machine. It is mainly used for flat plate and round pipe cutting. The machine can extend the curve cutting on pipe on the basis of the flat cutting by the control of CNC system. Also it can be equipped with flame and plasma torch to cut the carbon steel and stainless steel easily.

The machine body is gantry style cutting machine which can finish the flat shape cutting independently. The cutting head can finish the various kinds of shape cutting for round pipe when doing synchronous linkage drive With rotation axis. CNC system adopts three-axis linkage software control. Nesting accepts BODA special cutting nesting software which is convenient and efficient.

Is has the following features: easy installation for whole machine, stable running, easy operation, high level of automation, high cutting precision, quick speed, good effect and so on.



## BODA series

CNC System and  
Drive System  
数控系统和驱动系统

### 数控系统 | CNC SYSTEM

#### BODA CNC

缺图

BODA CNC数控系统是我公司与上海交大合作经过近二十年的潜心研发和市场磨练，专为火焰、等离子切割开发的先进的数控系统。该系统的界面设计、切割速度和运动控制结合国内外的先进技术，工艺性能全面，操作方便，是切割加工中具有智能化的系统。

BODA CNC system is the advanced CNC system developed by BODA and Shanghai Jiaotong University, which spend nearly 20 years in painstaking research and market hone. It is specially developed for flame and plasma cutting. The system's interface design, cutting speed and motion control, combined with advanced technology and process performance at home and abroad, are comprehensive and easy to operate. It is an intelligent system for cutting and processing.

#### EDGE Connect

缺图

EDGE Connect数控系统是美国海宝(Hypertherm)公司专为等离子、火焰切割机开发的最先进的数控系统。该系统采用改进版的工业级硬件，EtherCAT连接来优化机床设置，采用了最新SureCut™技术。功能强大、操作方便，是切割加工中最具智能化的系统。

EDGE Connect CNC system is the most advanced CNC system developed by Hypertherm for plasma and flame cutting machines. The system uses an improved version of industrial hardware, EtherCAT connection to optimize machine settings, And using the latest Sure Cut™ technology, powerful and easy to operate; it is the most intelligent system in cutting processing.

#### 驱动系统 Drive System



## BODA series

Plasma Cutting Machine  
等离子切割机



### DOMESTIC INITIATED 国内首创

六和270A精细等离子切割机  
LH270A High Precision Plasma Cutting Machine



美国凯博等离子切割机  
Kaliburn Plasma Cutting  
Machine from USA



德国凯尔贝类激光等离子切割机  
Kjellberg Laser-class Plasma  
Cutting Machine from Germany



美国海宝等离子切割机  
Hypertherm Plasma Cutting  
Machine from USA



美国飞马特等离子切割机  
Thermal Dynamic Plasma  
Cutting Machine from USA

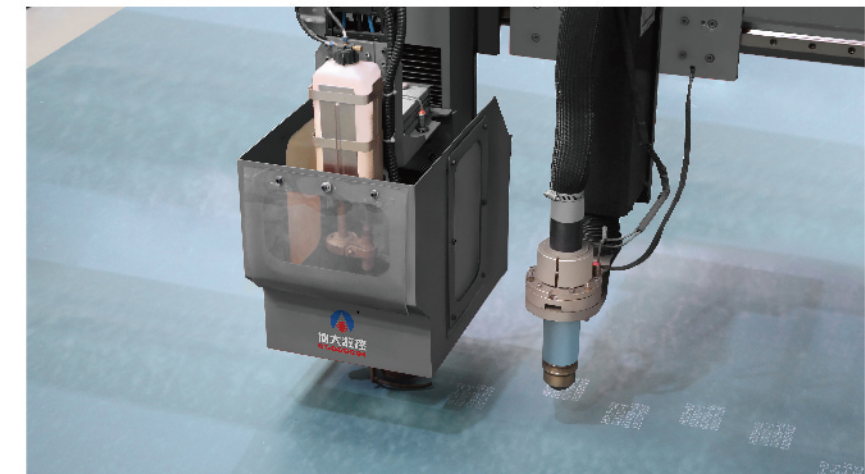
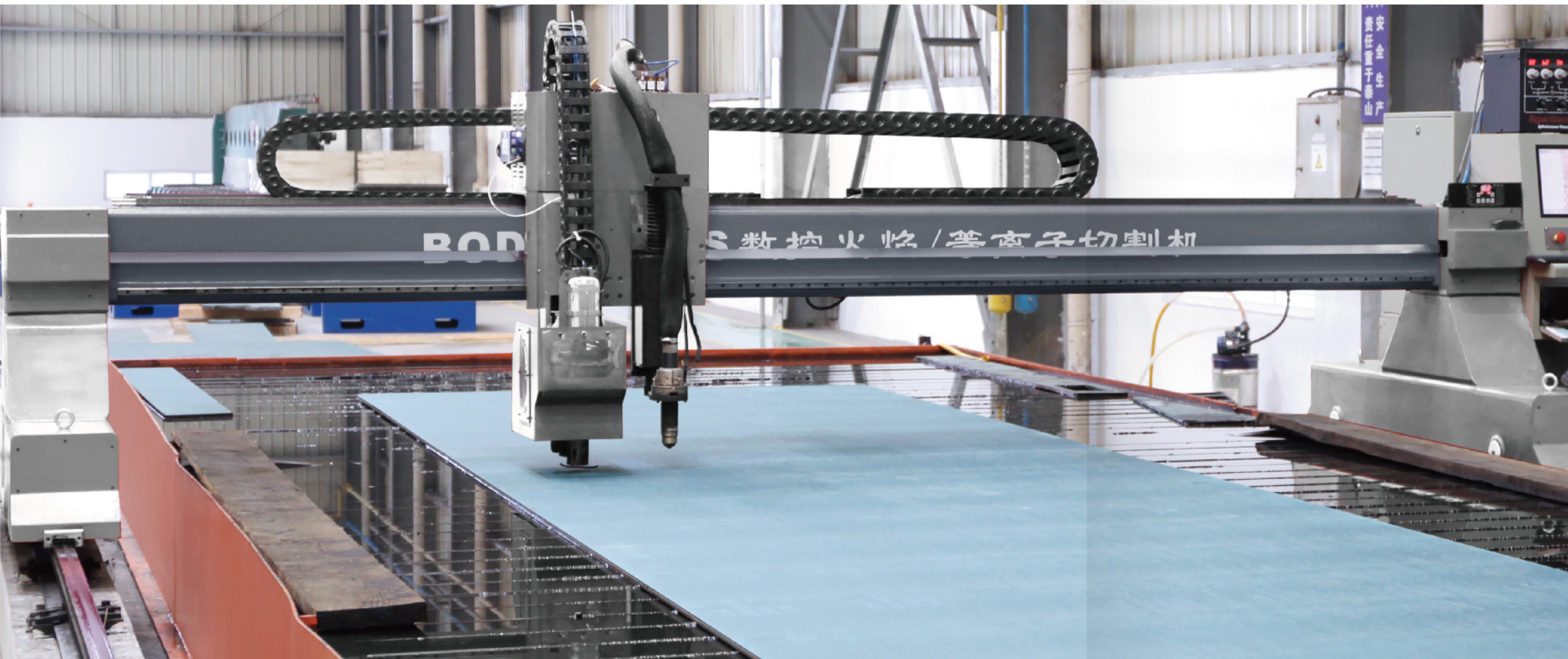


**BODA**  
series

CNC Cutting Machine  
configuration  
数控切割机功能配置

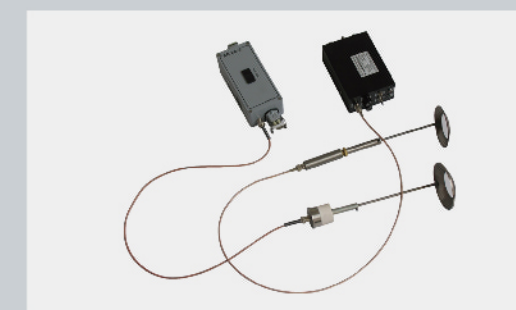
HIGH SPEED | HIGH QUALITY | HIGH EFFICIENCY

PLATE  
CUTTING



Cnc Cutting Machine  
Configuration

BODACNC



电容式自动调高  
Capacitance style automatic height  
controller



弧压式自动调高装置  
Arc automatic height controller