



## DOUBLE FRONT

对边多动力头专用车床  
(bar machine)



nella foto: la macchina configurata per lavorazioni con barre aventi diametro fino a 50 mm  
in the picture: the machine designed to manufacture bars with diameter up to 50 mm

# 为什么选择对边多动力头 专用车床

## WHY CHOOSE DOUBLE FRONT



### 生产效率 / PRODUCTIVITY

- 从200个到2000个/小时  
from 200 to 2000 pcs/hour
- 15个动力头可以同时工作  
up to 15 spindles/tools at the same time



### 通用配置 / VERSATILE CONFIGURATION

- 机床的设定时间减少到小于30分钟  
reduced set-up time <30'



### 灵活性 / FLEXIBILITY

- 适合于加工不同类别的产品  
suitable to machine families of different parts
- 棒料直径最大到50mm或80mm(选配)  
bar diameter up to 50 or up to 80mm (others on request)

## 01

带集成尾座工件装夹系统

Part clamping system with integrated tailstock

## 02

对边同时加工 最多动力头数量9+9

Machining of parts on both sides at the same time up to 9+9  
PICK-UP SPINDLES

## 03

车削：静态棒料/料卷,可以最大程度减少切屑数量

Machining: STATIC BAR/ COIL with very reduced swarf quantity

## 04

非常方便更换刀具,长的切屑方便排出

High accessibility for tool change and smooth flow of long-size chips

## 05

每平方米的高产出

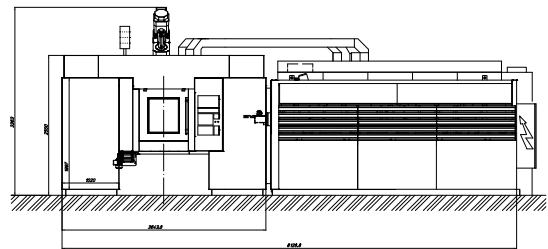
High production ratio per each square meter covered area

## 06

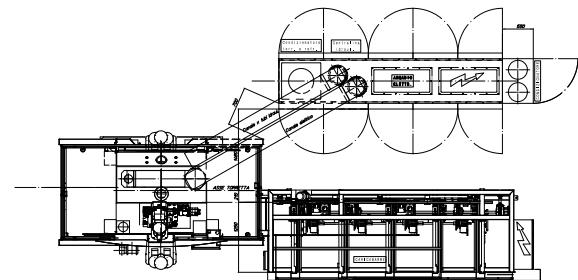
使用单个夹具可以加工不同直径的棒料

Machining of different bar diameters with one sole clamping jaw





## 技术参数 TECHNICAL DATA



### 上料装置 / BAR LOADING DEVICE

|                                 |                               |
|---------------------------------|-------------------------------|
| 棒料长度 / bar length               | 从/ from 2000 a / 到 6000 mm    |
| 最大重量 / max weight               | 3000 kg                       |
| 棒料上料技术 / bar loading technology | “跟着我”技术 / FollowMe technology |
| 棒料管理系统 / bar loading management | CNC                           |

### 棒料上料单位 / BAR LOADING UNIT

|                       |                   |
|-----------------------|-------------------|
| 驱动 / driving          | 滚珠丝杆 / ball screw |
| 标记设备 / marking device | 集成 / integrated   |
| 管理 / management       | CNC               |

### 切断单位 / SAW CUTTING UNIT

|   |  |
|---|--|
| 定位 / positioning                                    | CNC 控制直线导轨 / CNC-controlled linear slide |
| 工作进给 / working feed                                 | CNC 系统 / CNC unit                        |
| SDG 功能 (锯片脱离功能) / sdg function ( saw disengagement) | 标配 / standard                            |
| 硬件控制 / hardware                                     | 包括 / yes                                 |
| 刀具寿命监控 / tool life monitor                          | Gnutti 切削力监视器 / Gnutti Power Monitor     |

### 硬件 / HARDWARE

|   |                         |
|---|-------------------------|
| CNC 型号 / CNC-type                         | 法兰克-西门子 / FANUC/SIEMENS |
| 用于操作员界面的计算机 / PC for operator's interface | 法兰克-西门子 / FANUC/SIEMENS |
| 用于PLC管理的计算机 / PC for PLC-management       | 法兰克-西门子 / FANUC/SIEMENS |
| 连接 / connections                          | 光纤 / Optical fibre      |
| 零件编程程序 / interactive part programming     | Gnutti                  |
| 远程维护 / remote maintenance                 | 包括 / yes                |
| 远程协助 / Tele-assistance                    | 包括 / yes                |

### 动力头 / MACHINING UNITS

|   |  |
|---|--|
| 动力头行程 / unit stroke                                     | 125mm / 150mm (选配) / {other upon request}            |
| 主轴连接器 / spindle nose                                    | HSK /ISO   |
| 快进 / rapid speed  | 最高 30,000mm/分钟 / up to 30.000 mm/min                 |
| 工作进给 / working feed                                     | 0 - 30,000mm/分钟 / 0 - 30.000 mm/min                  |
| 最高转速 / max rpm  | 30.000 rpm   |
| 总线通信 / communication bus                                | 数字, 光纤连接 /<br>digital with optical fibre connections |
| 十字导轨 (3轴加工中心) / cross slides (3-axis machining centers) | 最多9+9个 / up to 9+9                                   |
| 加速 / acceleration                                       | 1g   |
| 刀断监测 (<3mm) / tool breakage detection devices           | 包括 / yes   |
| 刀具寿命监视器 / tool life monitor                             | Gnutti 切削力监视器 / Gnutti Power Monitor                 |

请注意  
我们保留 在不提前进行沟通的情况下可能的技术修改的权利

PLEASE NOTE  
possible technical modifications will be done, as per our private right, without previous communication.

## 优特上料装置和切断动力头 1 2

集成上料装置由机床的CNC系统控制

非常感谢优特的专有的解决方案,使得上一根新料的时间少于6秒成为可能。先进的CNC控制的锯断动力头,设计使用非常薄的锯片(<1.2mm),可以节省大量的原材料。

因为是非旋转棒料机加工(静态 棒料),所以机加工噪音很小。

## GNUTTI BAR LOADING DEVICE AND SAW CUTTING UNIT 1 2

Integrated bar loading device managed by the machine CNC-system: thanks to Gnutti's exclusive solution it is possible to carry out the loading of a new bar in less than 6 secs.

The highly advanced CNC-controlled saw cutting unit has been designed to use very thin blades (<1.2mm) thus saving a considerable quantity of cutoff material. Noise level reduced to a minimum owing to machining of non-rotating bars (static bars).



## 直接驱动主转盘 3

带双夹具的铸铁主转盘使用直接驱动技术和CNC闭环 (数字) 系统进行速度控制。

这个解决方案可以通过输送大扭矩来很大程度减少转盘旋转时间,并且该系统是免维护系统。

## DIRECT DRIVE INDEXING TURRET 3

The cast iron indexing turret with double clamping jaw is fitted with Direct Drive technology and speed controlled by a CNC closed loop (digital) system. This solution allows for a tremendous reduction in idle times through the transmission of high torques and stands for a maintenance-free system.

## 夹具和卡套 4 5

自定心夹头带优特特殊设计的液压平行夹具。

作为可选项,机床也可以安装知名品牌的传统卡套

## CLAMPING JAWS AND COLLETS 4 5

One-block self-centering jaws with Gnutti's specially designed hydraulic parallel clamping are available.

As alternative the machine can be equipped with traditional collets of the best brand names.

## 完全CNC和先进的操作员界面

优特组合机床,与最好的制造商合作(法兰克, 西门子等),共同开发出最大灵活性和快速反应的机床CNC结构。

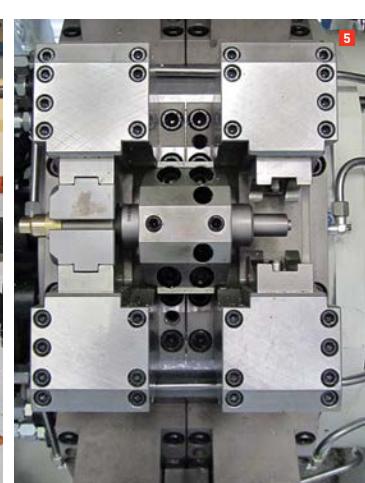
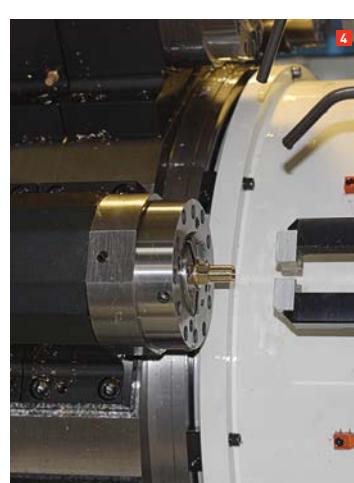
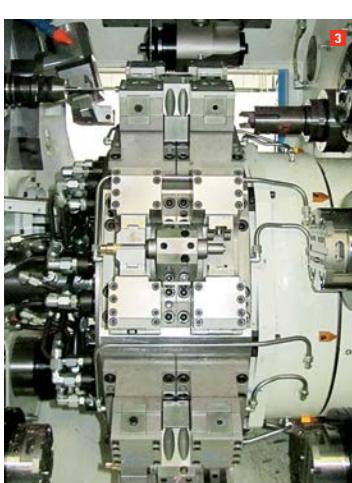
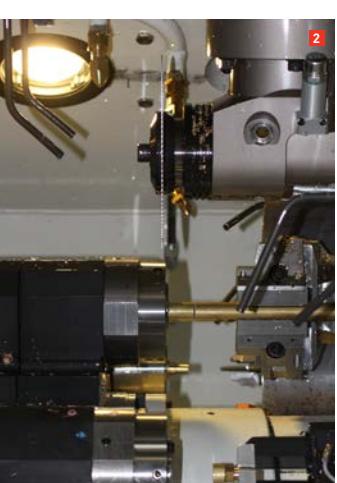
在这个结构中,先进的操作员界面包括如下功能:

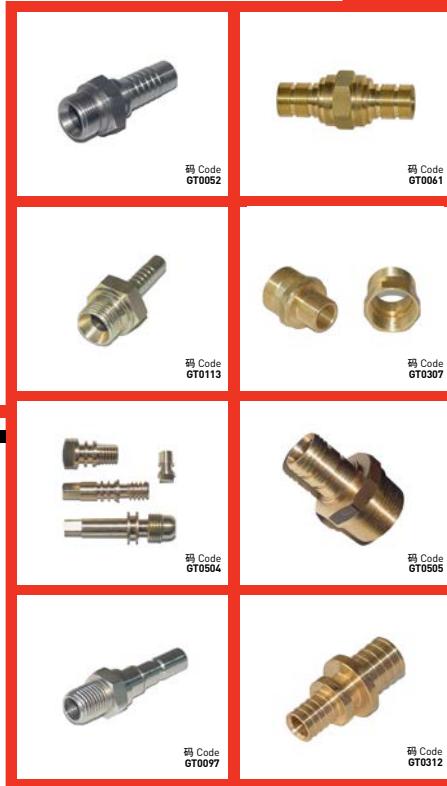
- 故障诊断
- 机床维护预定计划
- 机床计算机上的各种文件
- 刀具监控和刀具寿命管理
- 在线帮助

## FULLY CNC AND HIGHLY ADVANCED OPERATOR'S INTERFACE

Gnutti Transfer, in cooperation with the best manufacturers (Fanuc, Siemens, etc), have developed the entire CNC structure of the machine thus allowing extreme flexibility and quick actions. On this structure a highly advanced operator's interface has been implemented with following functions:

- trouble shooting
- plans for precautionary maintenance
- documents available on machine pc
- tool monitor and tool life management
- help on line





### 应用领域

汽车,电器,供暖和制冷,石油化工,  
气动,液压,洁具

### APPLICATION FIELDS

AUTOMOTIVE ELECTRIC INDUSTRY  
HEATING AND AIR CONDITIONING,  
OIL AND CHEMICAL INDUSTRY  
PETROCHEMICAL INDUSTRY,  
PNEUMATIC INDUSTRY, INDUSTRY  
FOR SANITARY FITTINGS

### 适用材料

黄铜,青铜,钢/不锈钢,铝合金,  
镁合金,和别的材料 (选配)

### WORKABLE MATERIALS

BRASS, BRONZE, STEEL/STAINLESS  
STEEL, SINTERED, ALUMINIUM,  
MAGNESIUM, OTHERS UNDER  
REQUEST

**GNUTTI 全球服务**  
很荣幸为您服务



### 及时的服务

由专门的售后服务部门熟练的工  
作人员提供的及时的服务:  
意大利12小时之内,欧洲24小时  
之内,欧洲以外48个小时

### 备件仓库

由于很好的库存和我们自己生产  
的配件确保了配件维修和更换.

### 故障预诊断

为了减少机床停下来的时间,  
Gnuttii 提供了  
一套通过网络的高效的监测诊  
断系统.

### CNC 编程培训

按照客户需求提供定制的CNC  
培训课程.

### PROMPT ASSISTANCE

Dedicated service department  
with skilled operators for  
prompt assistance: 12 hours  
in Italy, 24 hours in Europe, 48  
hours outside Europe.

### SPARE PARTS WAREHOUSE

Repair works and replacements  
are guaranteed thanks to a  
well-stocked warehouse and its  
own production facility.

### DIAGNOSTIC PRE-CHECK

To reduce machine stop times,  
Gnuttii offers an efficient  
supervising system via Internet.

### SCHOOLING FOR CNC- PROGRAMMING

Customized CNC training  
courses according  
to customer's needs.

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