

整体式&模块化系列 / INTEGRAL & MODULAR SERIES

**200 种型号, 200 种选择**  
**2 RANGES & MORE THAN**  
**200 MODELS AVAILABLE**

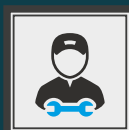
**铣削、钻孔及攻丝的完美选择**  
**IDEAL FOR MILLING, DRILLING**  
**& TAPPING OPERATIONS**



**微型系列**  
**QUICK**  
**ASSISTANCE**

**偏置系列**  
**1 YEAR**  
**GUARANTEED**

**双向输出系列**  
**MODULAR**  
**QUICK CHANGE**



帕莱克角度头致力于为客户提供高品质的产品及专业的加工解决方案，全系列产品拥有50多年设计经验，解决了成千上万的产品生产问题，始终确保产品的高品质及稳定性。

232种零部件可分解为两种系列角度头，CLASSIC系列由141个零部件组成，EVOLUTION系列由91个零部件组成，两种系列角度头相辅相成，提供最佳解决方案及最优质服务。

Gerardi angle heads are based on a solid technical know-how and on experience gained in 50 years spent at the side of our customers, during which we solved the most varied problems looking for the best solution and always ensuring the high quality and reliability of our products.

232 models of angle heads that can be split in two different ranges, CLASSIC LINE (the "integral" ones) composed of **141** models and EVOLUTION LINE (the "modular" ones) composed of **91** models. Both heads groups are accompanied by a range of options that complete their application and performance potentiality.

*series*  
**SLIM**



**微型系列**  
MICROMACHINING

*series*  
**OFFSET**



**偏置系列**  
OFFSET OUTPUT

*series*  
**DOUBLE**



**双向输出系列**  
DOUBLE OUTPUT

# 整体式系列角度头 INTEGRAL ANGLE HEADS SERIES

## CLASSIC LINE



**整体式高刚性驱动刀柄**  
Integral case hardened & ground shank and shaft area made in 1 piece.

**销组件**  
Positioning pin with automatic release

**旋转环**  
Modular antirotation group

series  
**DOUB2E**



**10BAR 外接冷**  
Standard 10BAR coolant through the pin



**分度盘**  
Graduated ring

series  
**LIGHT**

### 模块化快换接口 MODULAR QUICK CHANGE ADAPTORS

模块化快换接口适用于所有ER系列(DIN6499)输出角度头, 支持内冷功能, 允许刀具离线预调。

They are a modular toolholder system for the fitting of toolholders in a spindle unit with ER collets (DIN6499) outputs. All Adaptors are suitable for external and internal coolant supply and keep the presetting already done.



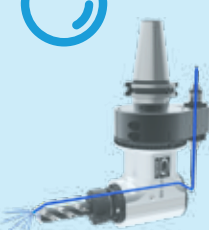
**内嵌式接口**  
Internal thread



**外螺纹接口**  
External thread

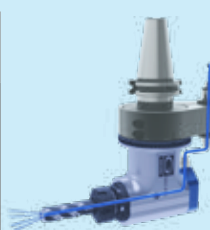
节约换刀时间,  
允许刀具离线预调!  
REDUCE SET-UP TIME and ALLOW  
OFFLINE TOOL PRESETTING !

### 角度头冷却方式: - ANGLE HEADS COOLANT TYPES:



**10bar**

- » 外部冷却
- » Positioning
- » Pin Tool



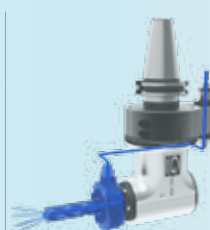
**10bar**

- » ATC外接刀中 内冷
- » Positioning Pin
- » Rotating Distributor Tool



**up to 70bar**

- » 主轴中心内冷
- » Shank
- » Rotating Distributor Tool



**10bar**

- » 内冷螺母转接刀具
- » Positioning Pin
- » ReCool Nut Tool



# 模块化系列角度头&模块化增速器

## MODULAR ANGLE HEADS SERIES & SPINDLE SPEEDERS

# EVOLUTION LINE



*series*  
**SLIM**

微型系列  
MICROMACHINING



*series*  
**STD 90°**

标准系列  
90° MACHINING



*series*  
**COOLANT**

10 bar 内冷系列  
COOLANT BY TOOL  
10 bar



*series*  
**FM U**

0° to 90° 万向系列  
ADJUSTABLE OUTPUT  
0° to 90°



*series*  
**DOUB2E**

双向输出系列  
DOUBLE OUTPUT



*series*  
**OFFSET**

偏置系列  
OFFSET OUPUT

角度头壳体可以实现0~360° 轴向旋转和承载内部空气压力，具有高刚性、耐腐蚀性与抗热膨胀性能。

Treated steel head body with 360° position and internal air pressure, maximum rigidity and corrosion resistant. Minimum thermal expansion

输出 - OUTPUTS:

ER弹簧夹套 (标准) / 侧固式类型 / 芯轴类型 / 定制类型  
ER collet (standard) / Weldon / Shell mill holder / Special



一个角度头适用于多台机床  
ONE HEAD FOR MANY MACHINES

模块化驱动刀柄  
Interchangeable drive tapers  
to fit any machine spindle



销组件  
Positioning pin with  
automatic release



多种角度头适用于一台机床  
THE SAME MACHINE  
WITH MANY HEADS I

旋转环  
Antirotation Group



高刚性角度头体  
Case hardened and  
ground shank and shaft

分度盘  
Graduated ring



10BAR 外接冷  
10BAR coolant  
through the pin

*series*  
**LIGHT**



齿轮 - GEARS  
格里森精磨螺旋伞齿轮，  
低噪音，耐高温，使用寿命长久  
Gleason ground spiral bevel  
gears maximum performances  
and minimum vibration



CUSCINETTI - BEARINGS  
高精度角接触球轴承，  
精度达ABEC9级以上  
Angular contact preloaded  
ball bearings of precision  
class ABEC 9



STOP BLOCK  
高刚性定位块  
with case hardened  
bushing and gasket

# MTC系列--手动换刀

## MTC SERIES - MANUAL TOOL CHANGE

CLASSIC LINE

EVOLUTION LINE



该系列角度头是带有法兰附件的机床工具，安装在万能法兰盘中的T型滑块可以调节角度头头部沿着轴向进行360°旋转，模块化设计可以通过增加加长法兰来延长角度整体长度，加长法兰，驱动刀柄及万能法兰都是模块化结构，因此所有MTC系列类似尺寸角度头可以互换。

This is a range of heads for traditional machine tools with flange attachment. The T-slot on the universal flange facilitates positioning the head 360° around its vertical axis. The modular system makes it possible to extend the length of the body by adding a spacer. The extension spacer, drive tapers and universal flange are modular and therefore interchangeable among all the heads of similar size.



### MTC 加长法兰

#### MTC extension

MTC系列角度头可通过增加加长法兰实现角度头体加长

On MTC series is possible to extend the length of the body by adding an extension



### 双向输出选项

#### Double output option

双向输出设计，避免角度二次调整

With the double option output you can optimize the production cycle avoiding extra set-up



### 辅助支撑

#### MULTIPOINT system

- 提高加工精度
- 适用于重载切削
- 避免加工震动
- 适用于ATC系列
- High precision guaranteed
- For heavy duty machining
- Avoiding any type of vibration
- For any type of machine spindle



### 外接内冷螺母

#### ReCool ER nuts

通过增加内冷螺母实现无内冷角度头实现内冷功能。

By ReCool nuts it is possible to get coolant through the tool even on angle heads which do not have this option.