

Machine Name : Gear grinding machine

Brand : Hofler

Machine Model : VIPER500W

Stock No. : 87381

Ex-factory Date : 2024



Main Technical Parameters:

Module: 0.5-22

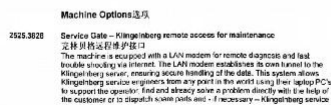
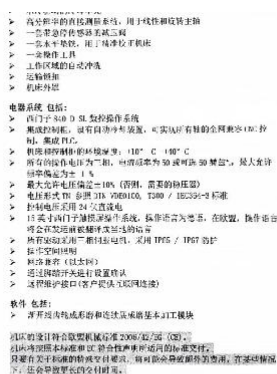
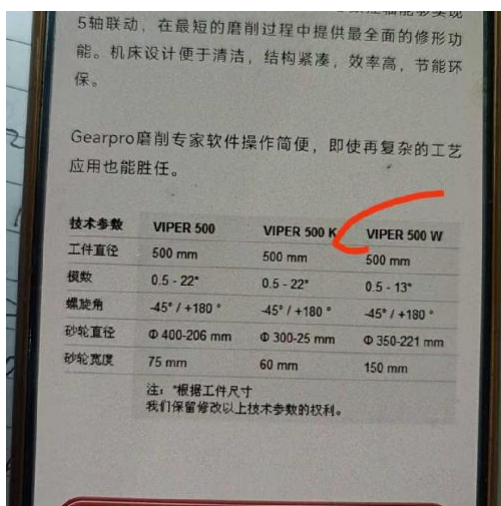
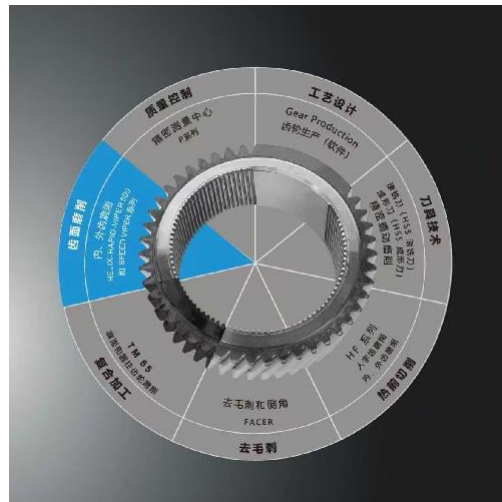
helix Angle: -45° to $+180^{\circ}$

Diameter: 500mm

grinding wheel diameter: 400-206mm

grinding wheel width: 75mm







PamtonSchnell

2525.3459 Distance plates (2 pcs.) 30 mm - Ø 210 mm, for grinding wheels width 45 mm 砂轮垫片

Software软件

Gear Production PC version
Gear?no. 枕机PC版

The graphical user interface can be installed on a conventional PC with the MS operating system Windows XP/7/10 for the purpose of work preparation, machining time calculation or for determining the necessary working range. The workpiece and machining data can be printed out or loaded directly in the machine control unit using USB stick or network.

2525.3712 Bias Control - generating grinding
用于连续研磨的偏置控制
By grinding in a staggered process with a variable profile angle over the grinding

12



扫描全能王 创建



worm with the resulting twist by applying lead modifications during grinding can be reduced. The twist can be defined by entering a random number of profile angles of the according transverse planes over the gear width.

Note: For the calculation of the twist, the following formula can be used:

Note: If a dress is a standard dressing rail can be used!

2025.1422 **Bias-Control – profile grinding**
2025.1422 Bias-Control – profile grinding
 Software for grinding helix face or specific twist profile angles onto the gear width. The twist can be defined by entering a random number of profile angles of the according transverse planes over the gear width. The topology thus defined is ground by a double- or single-flank process.

为柔性需求而生的独创性圆柱齿轮加工技术

凭借克林贝格提供的领先先进的技术，全球范围内的齿轮和齿轮箱制造商们都能保证自己在齿轮加工技术的领先地位。

通过精密齿坯热处理技术不仅降低了齿轮的生产成本，提升齿轮精度，而且其精细化设计，能灵活应对各类齿轮从粗加工到精加工的整个工艺流程。此外，凭借我们数十年的专业技艺以及高度研发能力，配合高标准研发能力，现已成功搭建起全球化的服务网络以及内部应用服务体系。这在如今以及未来全球市场，能确保我们的领先地位。

克林风格为立柱齿轮整个工艺提供先进的技术和高效的机床设备,囊括以下工艺步骤:工艺设计、切削、测量、去毛刺、磨削和后钻。其中齿轮生产软件(Gear Production)是成功完成以上各步骤的关键因素,它能提供优化的流程以及简化的操作,大幅提高日常生产效率。

意大利圆锥柱齿的机床根据实际应用进行研发,满足不同行业的需求,其服务的客户包括:航空、汽车、农业、建筑、工业机械以及风电等行业的齿轮或齿轮箱等部件。



循环带式润滑油过滤系统德夫曼 DSF 100 SE

Active filtration surface 1.0 m², width of the endless filter belt 1,000 mm, maximum throughput 200 l/min. System in energy consumption optimized configuration with regulated number of rpm.

The grinding oil flows through the plastic webbing of a surrounding filter sock lying on a suction chamber; the dirt collects in the filter cake. The suction pump thus achieves a high filter performance. Once the maximum differential pressure is achieved via the increasingly large filter cake, the filter

The endless filter belt must be removed and cleaned at cyclical intervals. We recommend that a replacement filter belt or the installation aid be kept easily accessible.

Standard equipment includes: one (1) grinding oil tank with a volume capacity of around 2,600 liters, one (1) automatically regulated grinding oil cooling unit, one (1) water cooling unit for the water circuit of the machine, one (1) rising pump rinsing the bed and one (1) mobile and liftable sludge cart for disposing of the grinding sludge. The operation of the filter system is handled through the grind machine.

The filter system is suitable for ambient temperatures of up to 40°C. An optional tropical version is required for higher ambient temperatures.

有效过滤面积为 0.42 m^2 , 过滤流速为 1000 mm , 最大过滤压力为 200 Pa /分种, 通过负压抽吸完成过滤操作。

操作时, 将位于抽吸罩上可更换滤芯的塑料罩, 沉渣收集在滤筒中, 抽吸罩因此实现了高的过滤性能。一旦通过越来越大的滤饼达到最大压力, 滤筒将很快配置同侧循环。滤筒通过下落螺旋进入污斗罐。

循环结束后将定期清洗。我们推荐订购备用的过滤带装置如过滤带清理工具。

另外, 标准装置还包括容量为 20000 升的磨削油油箱、一个自动控制的磨削冷却装置、一个用于机床水循环的水冷装置、一个用于清洗坯身的冲砂泵、一个用于回收废液的可移动可倾式收集车。磨削过滤系统的控制由数控齿轮泵控制。

11



扫清全能王 创造



溶剂的过滤系统可适应的最高环境温度是40℃。在40℃温度范围,有配置出溶剂油过滤系统作为选项可供选升。

有四个不同的有功配置：城市负荷限制、用户负荷比选择多可技术的小砂轮(K)和连续层成膜技术(W)或(KW)。

VIPER 500 W/KW 型的配置, 可用于成形法密封和连续模成型。且更换刀具的时间极短, 当切换磨削方式时, 仅需替换砂轮、法兰和金刚石修整深轮。在所有的配置中, 均可选择内圆磨对外圆加工转换为内齿加工。

此外,特殊的机床数控布局也是保证高精度、高质量和高柔性的重要因素。高动态性能数控可在较短的编程时间内对整个成形范围进行主切削优化,创新的设计便于制造,有利于提高性能,同时节省成本。

另外,拥有专利的Gear Production软件确保机床进行复杂加工时也能操作简便(更多详情,请参阅第10页Gear Production)

活潜剂和内因磨剂

- 从料杆粉碎变为成形砂轮时不超过5分钟
- 更换为内齿磨削时不超过15分钟
- 高动作性能驱动轴，最大冲程速度20m/min
- 驱动结构与工作间隔高，维护简便
- 无需牵引油泵站
- 可回收和按需供给的能量单元优化能源效率

歡迎

- | | |
|------|-----------------------|
| X | 变量名 |
| V | 数据类型 |
| M | 初始化式 |
| B | 初始工作包 |
| A | 缺省值 |
| Z | 控制流 |
| C/C# | (C++)缺省的访问类型或修型或const |
| D/E | 其他非元语言 |



VIEWER 500



Viper 500



Viper 5.20



Viper 500