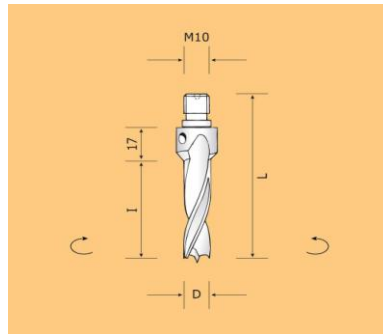


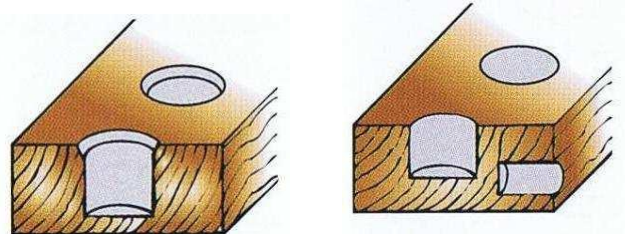
TOOLS FOR BORING MACHINES 钻床钻头 WS (STEEL) WITH THREADED SHANK SERIES

WS系列（钢），带螺纹柄

ART. 001 – 002 – 005 – 007 – 009 – 010 – 013



- ✓ Application: Used to drill blind holes.
用途：用于开盲孔。

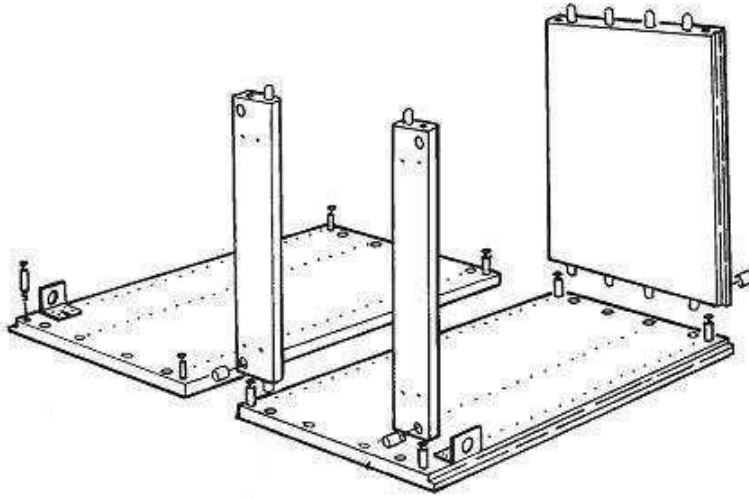


- ✓ Materials: Particularly suggested for soft wood (Pine - Beech)
适用材质：软木（松树、山毛榉）。
- ✓ Equipment: Boring machines equipped with chucks.
适用设备：各种带夹具的钻床。
- ✓ Most important equipment manufacturers:
主要钻床设备制造商：

- Biesse
- Morbidelli
- Masterwood
- Vitap
- Ayen
- Torwegge
- Nottmeyer
- Weeke



- ✓ Final products: Furniture, components (example: dowel holes for pins).
最终产品：用于家具、及配件（如：定位销孔）。

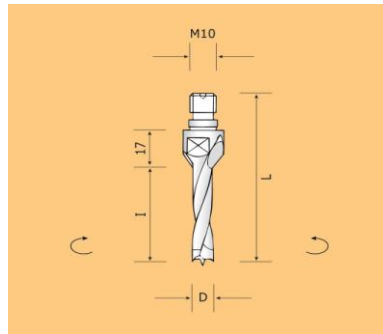


- ✓ Technicals details:
技术参数：
 - Super strength steel: In all its production range, Nordutensili uses exclusively top-quality steels that give to the tools an excellent cutting-edge duration and toughness.
超硬钢材质：在生产过程中，Nordutensili采用专用、高品质钢材，保证了刀钻极佳的耐磨性和耐用性。
- ✓ Working characteristics:
工作特性：
 - Speed up to 3000 rpm 转速：高达3000转/分
 - Feed speed 2 m/min 进给速度：2米/分
- ✓ Life of the tool: 4000 holes 使用寿命：4000孔

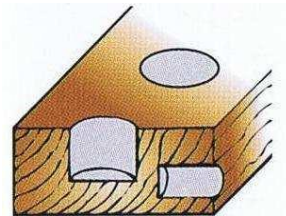
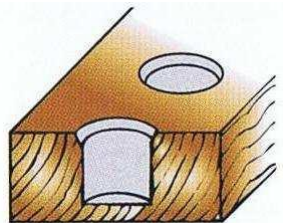
TOOLS FOR BORING MACHINES 钻床钻头 HW (HARD METAL) WITH THREADED SHANK SERIES

HW系列（硬质合金），带螺纹连杆

ART. 003 – 004 – 006 – 008 – 011 – 012 – 014



- ✓ Application: Used to drill blind holes.
用途：用于开盲孔。

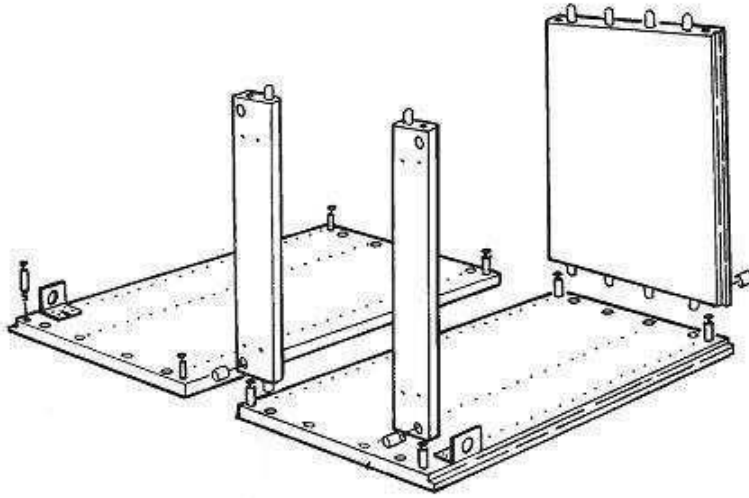


- ✓ Materials: Particularly suggested for hard wood (Oak-Exotic wood) MDF, laminates.
适用材质：硬质原木（橡木）。
- ✓ Equipment: Boring machines equipped with chucks.
适用设备：各种带夹具的钻床。
- ✓ Most important equipment manufacturers:
主要钻床设备制造商：

- Biesse
- Morbidelli
- Masterwood
- Vitap
- Ayen
- Torwegge
- Nottmeyer
- Weeke
- Alberti



- ✓ Final products: Furniture, components (example: dowel holes for pins), doors, windows, wings.
最终产品：用于家具、及配件（如：定位销孔）、门、窗、靠背。



- ✓ Technicals details:
技术参数：

- Top quality hard metal: In the production of tools with hard metal Nordutensili uses exclusively a micrograin hard metal made by Ceratizit/Luxembourg and Tigra/Germany that give to the tools an high resistance to abrasin and wear, a greater toughness of the cutting edge, and a long tool working life.
优质硬质材料：刀钻生产过程中，Nordutensili采用专用、微晶硬质合金，该材料均产自卢森堡Ceratizit公司和德国Tigra公司，保证了刀钻的抗磨损能力，刀刃韧度及使用寿命。
- Coating: Nordutensili uses PTFE (polytetrafluoroethylene) Teflon, a two layer, non-stick coating. These products have the highest working temperature of any fluoropolymer, an extremely lower friction coefficient and good resistance to abrasion and to chemical agents. The outstanding properties of Teflon:
涂层：Nordutensili采用双层、不粘的PTFE Teflon涂层，这种涂层含有耐热等级最高的含氟聚合物，极小的摩擦系数，良好的抗磨损能力和抗化学腐蚀能力。Teflon的优点有：
 - non-stick 不粘性
 - low friction coefficient 低摩擦系数
 - non-wettable 防水
 - heat resistance 耐热
 - unique electrical properties 独特的电气性能
 - cryogenic stability 耐低温
 - resistance to chemical agents 抗化学腐蚀

Nordutensili has chosen the unique properties of industrial coatings in Dupont Teflon as an integral part of the surface of the tools intended for high use and durability.

在刀钻表面处理方面，Nordutensili选用杜邦公司生产的具有独特性能的Teflon工业涂层，用来保证产品的耐用性。

✓ Working characteristics:

工作特性：

- Speed from 3000 to 6000 rpm 转速：3000-6000转/分
- Feed speed 2 m/min 进给速度：2米/分

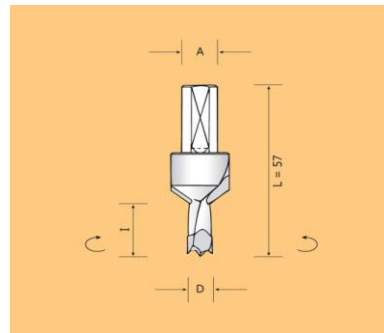
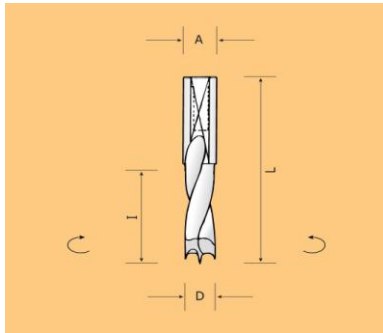
✓ Life of the tool: 4000/5000 holes 使用寿命：4000/5000孔

TOOLS FOR BORING MACHINES 钻床钻头

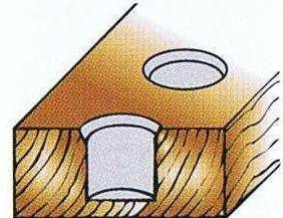
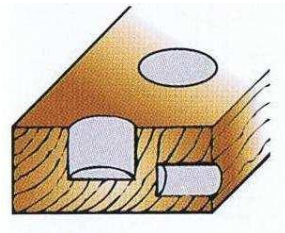
HW (HARD METAL)

HW (硬质合金)

ART. 015 – 016 – 021 – 022 – 029 – 035



- ✓ **Application:** Used to drill blind holes.
用途：用于开盲孔。



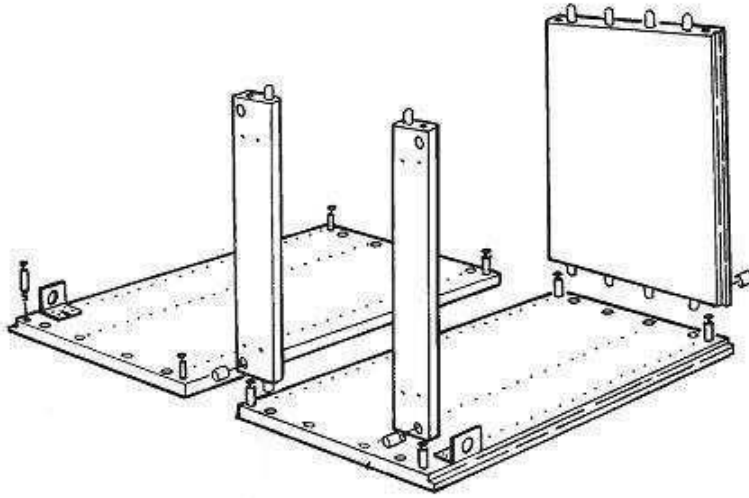
- ✓ **Materials:** Particularly suggested for hard wood, MDF, plywood
适用材质：硬质原木、中密度板、胶合板。
- ✓ **Equipment:** Boring machines equipped with chucks.
适用设备：各种带夹具的钻床。
- ✓ **Most important equipment manufacturers:**
主要钻床设备制造商：

- Biesse
- Morbidelli
- Masterwood
- Vitap
- Ayen
- Torwegge
- Nottmeyer
- Weeke
- Alberti
- Scm



- ✓ Final products: Furniture, elements, kitchens, bedrooms, panels, wings.

最终产品：用于家具、饰件、厨具、寝具、面板、靠背。



- ✓ Technicals details:

技术参数：

- Top quality hard metal: In the production of tools with hard metal Nordutensili uses exclusively a micrograin hard metal made by Ceratizit/Luxembourg and Tigra/Germany that give to the tools an high resistance to abrasin and wear, a greater toughness of the cutting edge, and a long tool working life.

优质硬质材料：刀钻生产过程中，Nordutensili采用专用、微晶硬质合金，该材料均产自卢森堡Ceratizit公司和德国Tigra公司，保证了刀钻的抗磨损能力，刀刃韧度及使用寿命。

- Coating: Nordutensili uses PTFE (polytetrafluoroethylene) Teflon, a two layer, non-stick coating. These products have the highest working temperature of any fluoropolymer, an extremely lower friction coefficient and good resistance to abrasion and to chemical agents. The outstanding properties of Teflon:

涂层：Nordutensili采用双层、不粘的PTFE Teflon涂层，这种涂层含有耐热等级最高的含氟聚合物，极小的摩擦系数，良好的抗磨损能力和抗化学腐蚀能力。Teflon的优点有：

- non-stick不粘性
- low friction coefficient 低摩擦系数
- non-wettable 防水
- heat resistance 耐热
- unique electrical properties 独特的电气性能
- cryogenic stability 耐低温
- resistance to chemical agents 抗化学腐蚀

Nordutensili has chosen the unique properties of industrial coatings in Dupont Teflon as an integral part of the surface of the tools intended for high use and durability.

在刀钻表面处理方面，Nordutensili选用杜邦公司生产的具有独特性能的Teflon工业涂层，用来保证产品的耐用性。

✓ Working characteristics:

工作特性:

- Speed from 2500 to 9000 rpm 转速: 2500-9000转/分
- Feed speed up to 5.5 m/min 进给速度: 高达5.5米/分

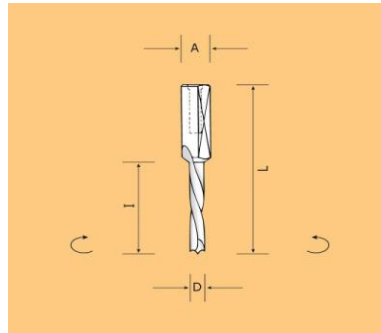
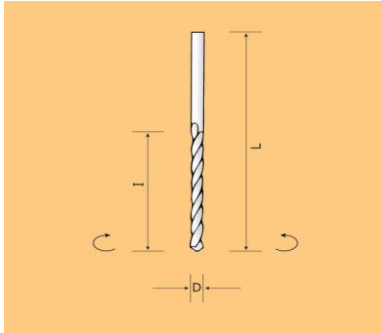
✓ Life of the tool: 15000 holes 使用寿命: 15000孔

TOOLS FOR BORING MACHINES 钻床钻头

HWM (SOLID CARBIDE)

HWM系列（整体硬质合金）

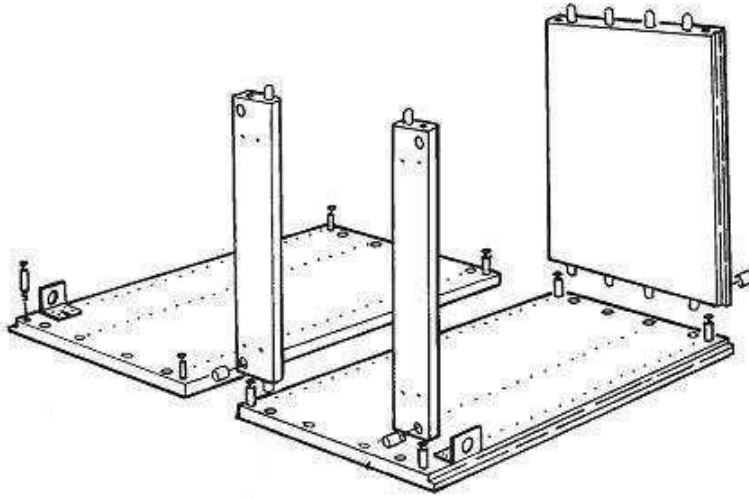
ART. 017 – 027 - 028



- ✓ Application: Used to drill blind holes.
用途：用于开盲孔。
- ✓ Materials: Particularly suggested for laminates, plywood, high pressure laminated materials, Corian
适用材质：多层板、胶合板、防火板、可丽耐人造石。
- ✓ Equipment: Boring machines equipped with chucks.
适用设备：各种带夹具的钻床。
- ✓ Most important equipment manufacturers:
主要钻床设备制造商：
 - Bre ma
 - Biesse
 - Morbidelli
 - Ayen
 - Alberti
 - Torwegge
 - Nottmeyer
 - Weeke
 - Scm



- ✓ Final products: Furniture, elements, kitchen, bedrooms, acoustic insulation panels.
最终产品：用于家具、饰件、厨具、寝具、隔音板。



- ✓ Technicals details:
技术参数：

- HWM solid carbide: In the production of tools with hard metal Nordutensili uses exclusively a micrograin hard metal made by Ceratizit/Luxembourg and Tigra/Germany that give to the tools an high resistance to abrasin and wear, a greater toughness of the cutting edge, and a long tool working life.
HWM整体硬质材料：刀钻生产过程中，Nordutensili采用专用、微晶硬质合金，该材料均产自卢森堡Ceratizit公司和德国Tigra公司，保证了刀钻的抗磨损能力，刀刃韧度及使用寿命。

- ✓ Working characteristics:
工作特性：

- Speed from 2500 to 9000 rpm 转速：2500-9000转/分
- Feed speed up to 5.5 m/min 进给速度：高达5.5米/分

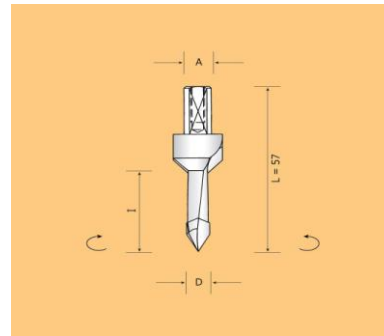
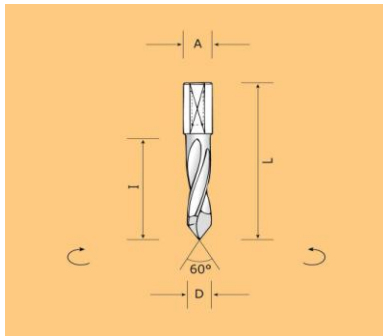
- ✓ Life of the tool: 50000 holes 使用寿命：50000孔

TOOLS FOR BORING MACHINES 钻床钻头

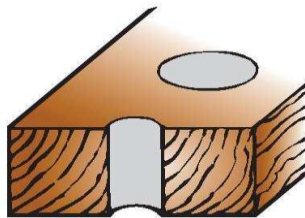
HW (HARD METAL)

HW (硬质合金)

ART. 023 – 024 – 025 – 029P - 035P



- ✓ Application: Used to drill through holes.
用途：用于开盲孔。

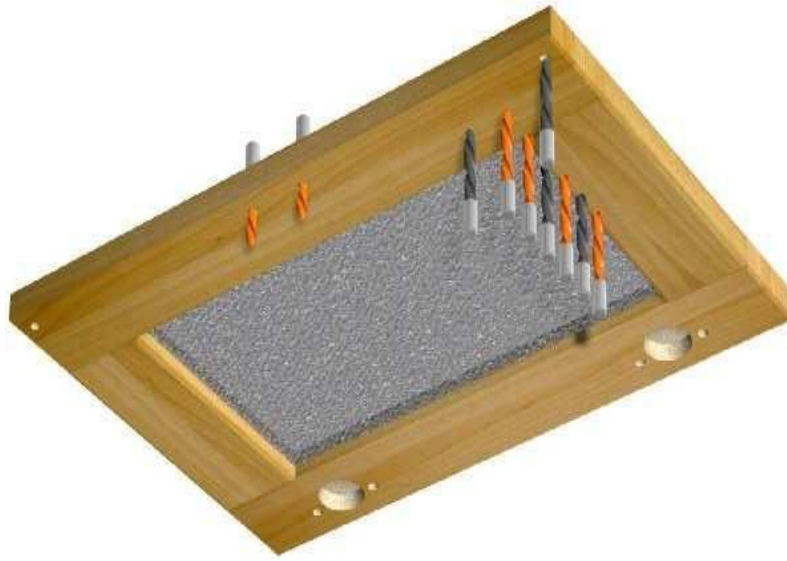


- ✓ Materials: Particularly suggested for hard wood, MDF, plywood.
适用材质：硬质原木、中密度板、胶合板。
- ✓ Equipment: Boring machines equipped with chucks.
适用设备：各种带夹具的钻床。
- ✓ Most important equipment manufacturers:
主要钻床设备制造商：

- Biesse
- Morbidelli
- Masterwood
- Vitap
- Ayen
- Torwegge
- Nottmeyer
- Weeke
- Alberti
- Scm



- ✓ Final products: Furniture, elements, kitchen, bedrooms, panels, wings.
最终产品：用于家具、饰件、厨具、寝具、面板、靠背。



- ✓ Technicals details:
技术参数：

- Top quality hard metal: In the production of tools with hard metal Nordutensili uses exclusively a micrograin hard metal made by Ceratizit/Luxembourg and Tigra/Germany that give to the tools an high resistance to abrasin and wear, a greater toughness of the cutting edge, and a long tool working life.
优质硬质材料：刀钻生产过程中，Nordutensili采用专用、微晶硬质合金，该材料均产自卢森堡Ceratizit公司和德国Tigra公司，保证了刀钻的抗磨损能力，刀刃韧度及使用寿命。
- Coating: Nordutensili uses PTFE (polytetrafluoroethylene) Teflon, a two layer, non-stick coating. These products have the highest working temperature of any fluoropolymer, an extremely lower friction coefficient and good resistance to abrasion and to chemical agents. The outstanding properties of Teflon:
涂层：Nordutensili采用双层、不粘的PTFE Teflon涂层，这种涂层含有耐热等级最高的含氟聚合物，极小的摩擦系数，良好的抗磨损能力和抗化学腐蚀能力。Teflon的优点有：
 - non-stick 不粘性
 - low friction coefficient 低摩擦系数
 - non-wettable 防水
 - heat resistance 耐热
 - unique electrical properties 独特的电气性能
 - cryogenic stability 耐低温
 - resistance to chemical agents 抗化学腐蚀

Nordutensili has chosen the unique properties of industrial coatings in Dupont Teflon as an integral part of the surface of the tools intended for high use and durability.

在刀钻表面处理方面，Nordutensili选用杜邦公司生产的具有独特性能的Teflon工业涂层，用来保证产品的耐用性。



Working characteristics:

工作特性：

- Speed from 2500 to 9000 rpm 转速：2500-9000转/分
- Feed speed up to 5.5 m/min 进给速度：高达5.5米/分



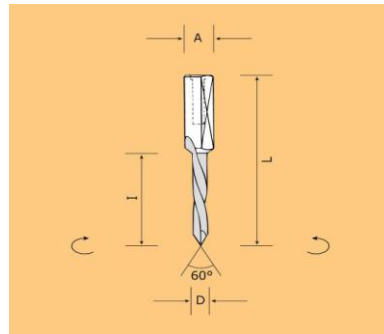
Life of the tool: 15000 holes 使用寿命：15000孔

TOOLS FOR BORING MACHINES 钻床钻头

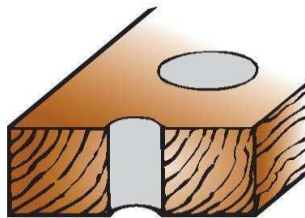
HWM (SOLID CARBIDE)

HWM系列（整体硬质金属）

ART. 026



- ✓ **Application:** Used to drill through holes.
用途：用于开盲孔。

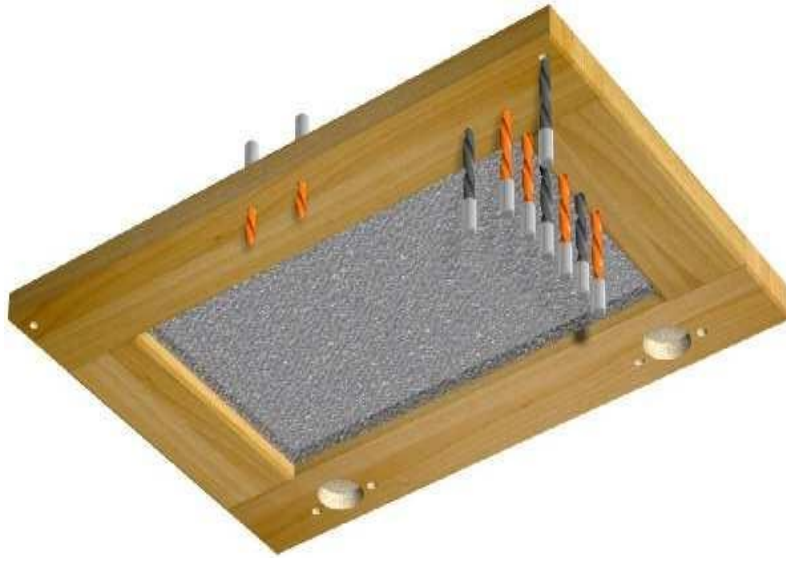


- ✓ **Materials:** Particularly suggested for laminates, plywood, high pressure laminated materials, Corian
适用材质：多层板、胶合板、防火板、可丽耐人造石。
- ✓ **Equipment:** Boring machines equipped with chucks.
适用设备：各种带夹具的钻床。
- ✓ **Most important equipment manufacturers:**
主要钻床设备制造商：

- Bre ma
- Biesse
- Morbidelli
- Ayen
- Alberti
- Torwegge
- Nottmeyer
- Weeke
- Scm



- ✓ Final products: Furniture, elements, kitchen, bedrooms, acoustic insulation panels.
最终产品：用于家具、饰件、厨具、寝具、隔音板。



- ✓ Technicals details:
技术参数：

- HWM solid carbide: In the production of tools with hard metal Nordutensili uses exclusively a micrograin hard metal made by Ceratizit/Luxembourg and Tigra/Germany that give to the tools an high resistance to abrasin and wear, a greater toughness of the cutting edge, and a long tool working life.
HWM整体硬质材料：刀钻生产过程中，Nordutensili采用专用、微晶硬质合金，该材料均产自卢森堡Ceratizit公司和德国Tigra公司，保证了刀钻的抗磨损能力，刀刃韧度及使用寿命。

- ✓ Working characteristics:
工作特性：

- Speed from 2500 to 9000 rpm 转速：2500-9000转/分
- Feed speed up to 5.5 m/min 进给速度：高达5.5米/分

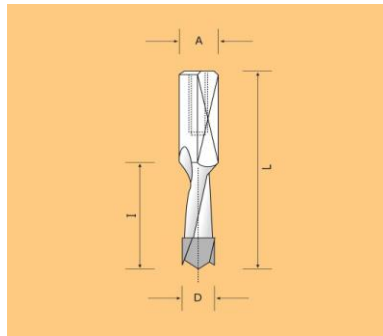
- ✓ Life of the tool: 50000 holes 使用寿命：50000孔

TOOLS FOR BORING MACHINES 钻床钻头

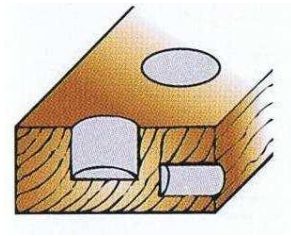
HW (HARD METAL) DUROX MICROGRAIN QUALITY

HW (硬质合金) 整体微晶硬质金属

ART. LASER



- ✓ Application: Used to drill blind holes.
用途：用于开盲孔。

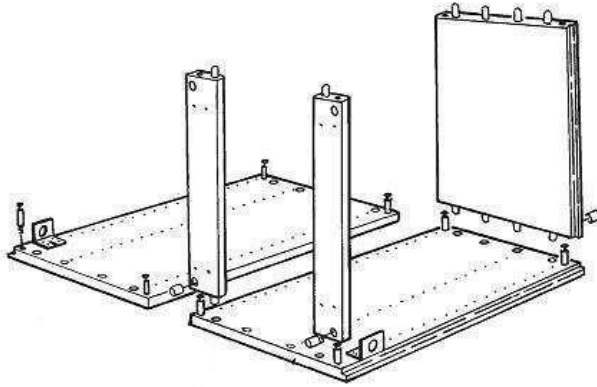


- ✓ Materials: Particularly suggested for laminates, plywood, high pressure laminated materials, Corian.
适用材质：多层板、胶合板、防火板、可丽耐人造石。
- ✓ Equipment: Boring machines equipped with chucks.
适用设备：各种带夹具的钻床。
- ✓ Most important equipment manufacturers:
主要钻床设备制造商：

- Bre ma
- Biesse
- Morbidelli
- Ayen
- Alberti
- Torwegge
- Nottmeyer
- Weeke
- Scm



- ✓ Final products: Furniture, elements, kitchen, bedrooms, acoustic insulation panels.
最终产品：用于家具、饰件、厨具、寝具、隔音板。



- ✓ Technicals details:
技术参数：

- The LASER tool geometry presents a particular strengthened center point and a negative strengthened and rounded spurs. LASER drills make perfect clean holes without any chipping.
激光钻头的几何外形具有特强的中心点和优异的开孔能力，保证激光钻孔完美洁净而无缺陷。
- Top quality hard metal: In the production of tools with hard metal Nordutensili uses exclusively a micrograin hard metal made by Ceratizit/Luxembourg and Tigra/Germany that give to the tools an high resistance to abrasin and wear, a greater toughness of the cutting edge, and a long tool working life.
优质硬质材料：刀钻生产过程中，Nordutensili采用专用、微晶硬质合金，该材料均产自卢森堡Ceratizit公司和德国Tigra公司，保证了刀钻的抗磨损能力，刀刃韧度及使用寿命。
- Coating: Nordutensili uses PTFE (polytetrafluoroethylene) Teflon, a two layer, non-stick coating. These products have the highest working temperature of any fluoropolymer, an extremely lower friction coefficient and good resistance to abrasion and to chemical agents. The outstanding properties of Teflon:
涂层：Nordutensili采用双层、不粘的PTFE Teflon涂层，这种涂层含有耐热等级最高的含氟聚合物，极小的摩擦系数，良好的抗磨损能力和抗化学腐蚀能力。Teflon的优点有：
 - non-stick 不粘性
 - low friction coefficient 低摩擦系数
 - non-wettable 防水
 - heat resistance 耐热
 - unique electrical properties 独特的电气性能
 - cryogenic stability 耐低温
 - resistance to chemical agents 抗化学腐蚀

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在刀钻表面处理方面，Nordutensili选用杜邦公司生产的具有独特性能的Teflon工业涂层，用来保证产品的耐用性。

✓ Working characteristics:

工作特性：

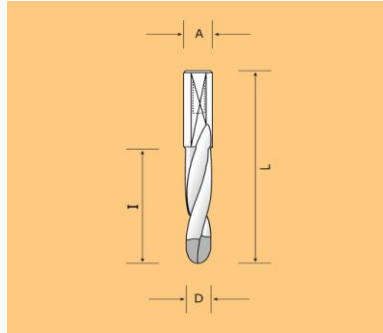
- Speed from 2500 to 9000 rpm 转速：2500-9000转/分
- Feed speed up to 5.5 m/min 进给速度：高达5.5米/分

✓ Life of the tool: 50000 holes 使用寿命：50000孔

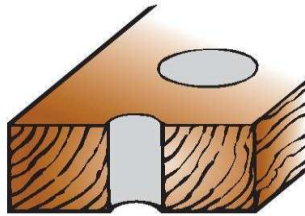
TOOLS FOR BORING MACHINES 钻床钻头 HW (HARD METAL) DUROX MICROGRAIN QUALITY

HW (硬质合金) 整体微晶硬质金属

ART. LASER/P



- ✓ Application: Used to drill through holes.
用途：用于开盲孔。

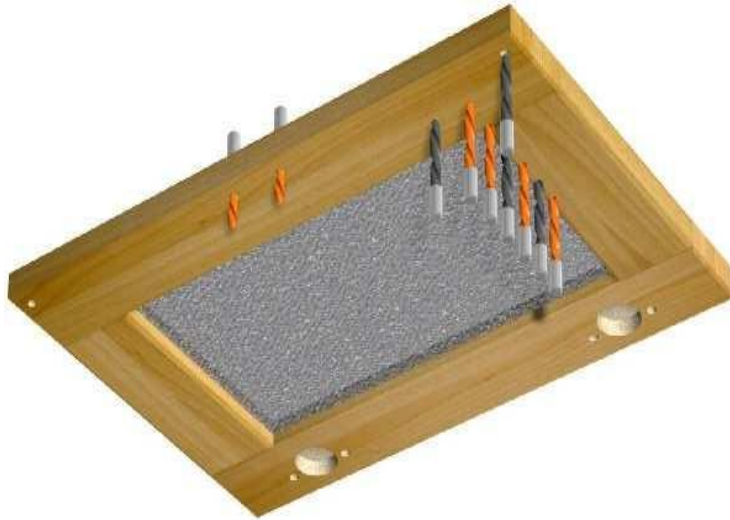


- ✓ Materials: Particularly suggested for laminates, plywood, high pressure laminated materials, Corian.
适用材质：多层板、胶合板、防火板、可丽耐人造石。
- ✓ Equipment: Boring machines equipped with chucks.
适用设备：各种带夹具的钻床。
- ✓ Most important equipment manufacturers:
主要钻床设备制造商：

- Bre ma
- Biesse
- Morbidelli
- Ayen
- Alberti
- Torwegge
- Nottmeyer
- Weeke
- Scm



- ✓ Final products: Furniture, elements, kitchen, bedrooms, acoustic insulation panels.
最终产品：用于家具、饰件、厨具、寝具、隔音板。



- ✓ Technicals details:
技术参数：

- LASER/P drills have a particular sharpening geometry with double inclination that gives an excellent hole finishing.
LASER/P钻头具有锋利的几何外形，双斜度设计保证了极佳的开孔能力。
- Top quality hard metal: In the production of tools with hard metal Nordutensili uses exclusively a micrograin hard metal made by Ceratizit/Luxembourg and Tigra/Germany that give to the tools an high resistance to abrasin and wear, a greater toughness of the cutting edge, and a long tool working life.
优质硬质材料：刀钻生产过程中，Nordutensili采用专用、微晶硬质合金，该材料均产自卢森堡Ceratizit公司和德国Tigra公司，保证了刀钻的抗磨损能力，刀刃韧度及使用寿命。
- Coating: Nordutensili uses PTFE (polytetrafluoroethylene) Teflon, a two layer, non-stick coating. These products have the highest working temperature of any fluoropolymer, an extremely lower friction coefficient and good resistance to abrasion and to chemical agents. The outstanding properties of Teflon:
涂层：Nordutensili采用双层、不粘的PTFE Teflon涂层，这种涂层含有耐热等级最高的含氟聚合物，极小的摩擦系数，良好的抗磨损能力和抗化学腐蚀能力。Teflon的优点有：
 - non-stick 不粘性
 - low friction coefficient 低摩擦系数
 - non-wettable 防水
 - heat resistance 耐热
 - unique electrical properties 独特的电气性能
 - cryogenic stability 耐低温
 - resistance to chemical agents 抗化学腐蚀

Nordutensili has chosen the unique properties of industrial coatings in Dupont Teflon as an integral part of the surface of the tools intended for high use and durability.

在刀钻表面处理方面，Nordutensili选用杜邦公司生产的具有独特性能的Teflon工业涂层，用来保证产品的耐用性。

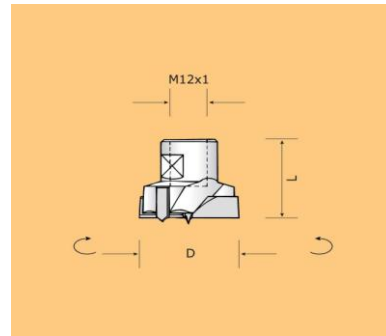
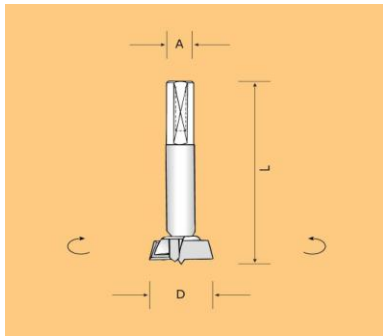
- ✓ Working characteristics:
 - Speed from 2500 to 9000 rpm 转速：2500-9000转/分
 - Feed speed up to 5.5 m/min 进给速度：高达5.5米/分
- ✓ Life of the tool: 50000 holes 使用寿命：50000孔

TOOLS FOR BORING MACHINES 钻床用刀钻

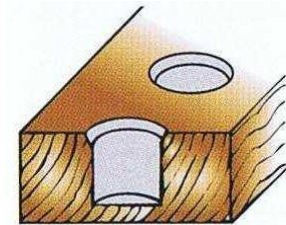
HW (HARD METAL)

HW (硬质合金)

ART. 042 – 042R – 043 – 043R – 044 - 046



- ✓ Application: Used to drill blind holes.
用途：用于开盲孔。

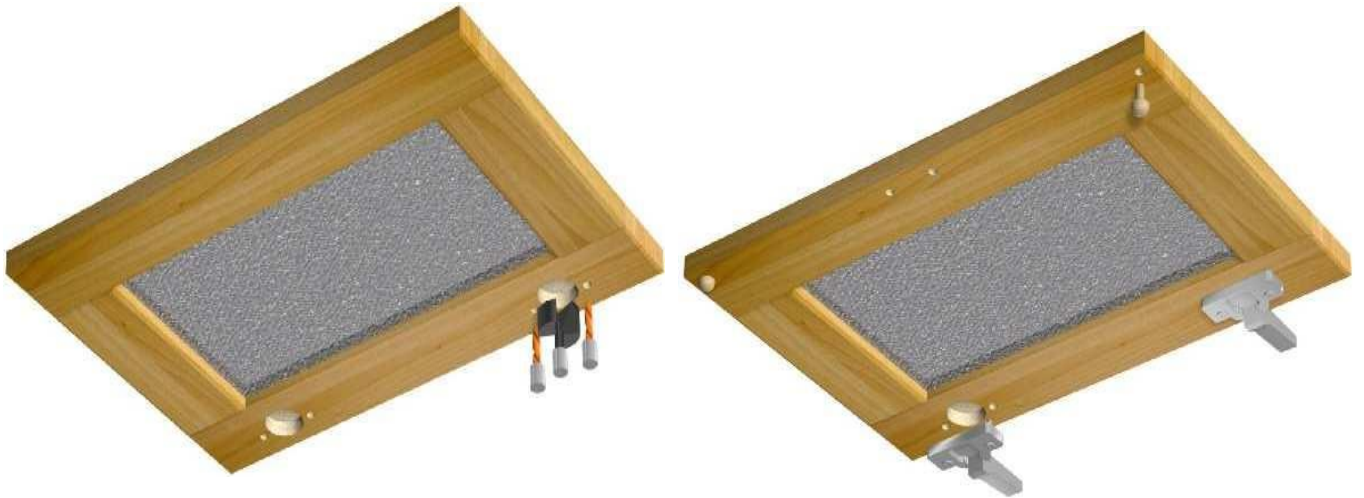


- ✓ Materials: Particularly suggested for hard wood, MDF, plywood, laminates.
适用材质：硬质原木、中密度板、胶合板、多层板。
- ✓ Equipment: Boring machines equipped with chucks.
适用设备：各种带夹具的钻床。
- ✓ Most important equipment manufacturers:
主要钻床设备制造商：

- Biesse
- Morbidelli
- Bre ma
- Ganner
- Torwegge
- Unimac
- Weeke
- Alberti



- ✓ Final products: Furniture, elements, kitchen, bedrooms, panels, sitting rooms.
最终产品：用于家具、饰件、厨具、寝具、面板、客厅家具。



- ✓ Technicals details:
技术参数：

- Top quality hard metal: In the production of tools with hard metal Nordutensili uses exclusively a micrograin hard metal made by Ceratizit/Luxembourg and Tigra/Germany that give to the tools an high resistance to abrasin and wear, a greater toughness of the cutting edge, and a long tool working life.

优质硬质材料：刀钻生产过程中，Nordutensili采用专用、微晶硬质合金，该材料均产自卢森堡Ceratizit公司和德国Tigra公司，保证了刀钻的抗磨损能力，刀刃韧度及使用寿命。

- Coating: Nordutensili uses PTFE (polytetrafluoroethylene) Teflon, a two layer, non-stick coating. These products have the highest working temperature of any fluoropolymer, an extremely lower friction coefficient and good resistance to abrasion and to chemical agents. The outstanding properties of Teflon:

涂层：Nordutensili采用双层、不粘的PTFE Teflon涂层，这种涂层含有耐热等级最高的含氟聚合物，极小的摩擦系数，良好的抗磨损能力和抗化学腐蚀能力。Teflon的优点有：

- non-stick 不粘性
- low friction coefficient 低摩擦系数
- non-wettable 防水
- heat resistance 耐热
- unique electrical properties 独特的电气性能
- cryogenic stability 耐低温
- resistance to chemical agents 抗化学腐蚀

Nordutensili has chosen the unique properties of industrial coatings in Dupont Teflon as an integral part of the surface of the tools intended for high use and durability.

在刀钻表面处理方面，Nordutensili选用杜邦公司生产的具有独特性能的Teflon工业涂层，用来保证产品的耐用性。

✓ Working characteristics:

工作特性：

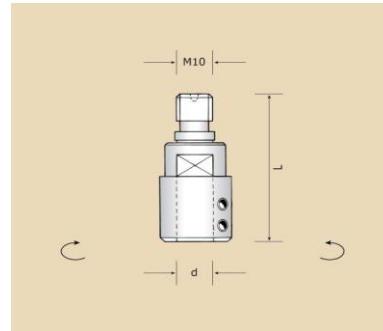
- Speed from 1200 to 6000 rpm 转速：1200-6000转/分
- Feed speed up to 1.5 m/min 进给速度：高达1.5米/分

✓ Life of the tool: 10000 holes 使用寿命：10000孔

CHUCKS FOR DOWEL DRILLS FOR BORING MACHINES

钻床用钻头家具

ART. 056 – 057 – 058 – 059 – 060 – 061 – 062 – 063 – 064 – 065
– 066 – 067



- ✓ Application: used with dowel drills to drill blind holes.
用途：配合钻头开盲孔。
- ✓ Equipment: Boring machines.
适用设备：钻床。
- ✓ Most important equipment manufacturers:
主要钻床设备制造商：

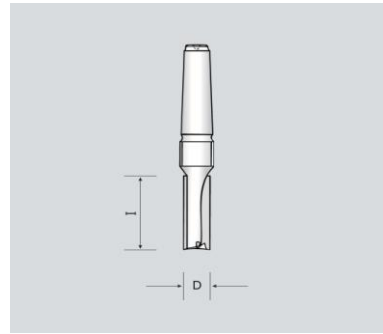
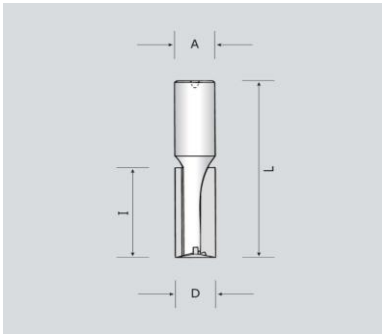
- Biesse
- Morbidelli
- Masterwood
- Vitap
- Ayen
- Torwegge
- Nottmeyer
- Weeke



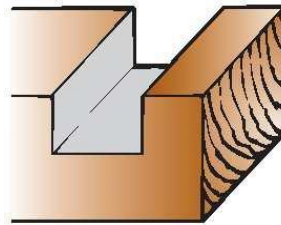
TOOLS FOR ROUTERS AND CNC MACHINES 镂铣床, CNC用钻头 HS (HARD METAL)

HS (硬质合金)

ART. 103 – 104 – 105 – 106 – 107 - 110



- ✓ Application: Used to drill and to profile.
用途：用于钻孔和成型。



- ✓ Materials: Particularly suggested for hard wood, laminates, plywood, MDF.
适用材质：硬质原木、多层板、胶合板、中密度板。
- ✓ Equipment: Router cutters equipped with chucks.
适用设备：各种带夹具的镂铣床。
- ✓ Most important equipment manufacturers:

主要镂铣设备制造商：

- Biesse
- Bre ma
- Cosmec
- Greda
- Maka
- Scm
- Ima
- Homag
- Csm



- ✓ Final products: Tables, furniture, wings, chairs, stairs, window and door frames.
最终产品：用于桌子、家具、靠背、椅子、台梯、窗和门框。



- ✓ Technicals details:
技术参数：

- Super strength steel: In all its production range, Nordutensili uses exclusively top-quality steels that give to the tools an excellent cutting-edge duration and toughness.

超硬钢材质：在生产过程中，Nordutensili采用专用、高品质钢材，保证了刀钻极佳的耐磨性和耐用性。

- Coating: Nordutensili uses PTFE (polytetrafluoroethylene) Teflon, a two layer, non-stick coating. These products have the highest working temperature of any fluoropolymer, an extremely lower friction coefficient and good resistance to abrasion and to chemical agents.

The outstanding properties of Teflon:

涂层：Nordutensili采用双层、不粘的PTFE Teflon涂层，这种涂层含有耐热等级最高的含氟聚合物，极小的摩擦系数，良好的抗磨损能力和抗化学腐蚀能力。Teflon的优点有：

- non-stick 不粘性
- low friction coefficient 低摩擦系数
- non-wettable 防水
- heat resistance 耐热
- unique electrical properties 独特的电气性能
- cryogenic stability 耐低温
- resistance to chemical agents 抗化学腐蚀

Nordutensili has chosen the unique properties of industrial coatings in Dupont Teflon as an integral part of the surface of the tools intended for high use and durability.

在刀钻表面处理方面，Nordutensili选用杜邦公司生产的具有独特性能的Teflon工业涂层，用来保证产品的耐用性。

✓ Working characteristics:

工作特性:

- Speed up from 6000 to 12000 rpm 转速: 6000-12000转/分
- Feed speed from 5 to 10 m/min 进给速度: 5-10米/分

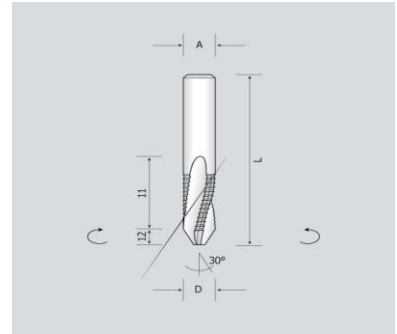
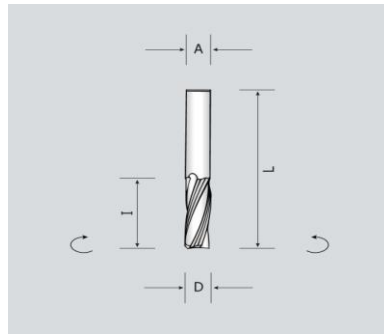
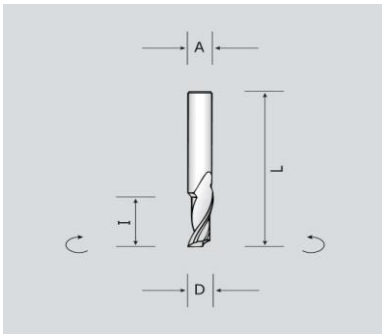
✓ Life of the tool: 15000 holes 使用寿命: 15000孔

TOOLS FOR ROUTERS AND CNC MACHINES 铣铣床, CNC用钻头 HWM (SOLID CARBIDE)

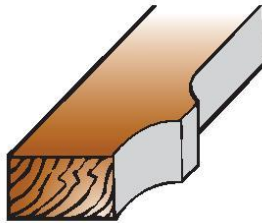
HWM系列 (整体硬质合金)

ART. 115 – 116 – 117 – 118 – 119 – 120 – 121 – 122 – 123 – 124

– 133 – 134 – 135 – 136 – 501 – 502 – 503 – 504



- ✓ Application: Used to profile, to mill and to make slots.
用途: 用于成型、磨铣、开槽。



- ✓ Materials: Particularly suggested for hard wood, laminates, bi-laminates, plywood, MDF, Corian, plastic materials.
适用材质: 硬质原木、多层板、双贴面板、胶合板、中密度、可丽耐人造石、塑胶板。
- ✓ Equipment: Router cutters equipped with chucks.
适用设备: 各种带夹具的铣铣床。
- ✓ Most important equipment manufacturers:
主要铣铣设备制造商:

- Biesse
- Bre ma
- Cosmec
- Greda
- Maka
- Scm
- Ima
- Homag
- Cms



- ✓ Final products: Tables, furniture, wings, internal and external doors, chest of drawers.
最终产品：用于桌子、家具、靠背、内外门、衣柜。



- ✓ Technicals details:
技术参数：

- HWM solid carbide: In the production of tools with hard metal Nordutensili uses exclusively a micrograin hard metal made by Ceratizit/Luxembourg and Tigra/Germany that give to the tools an high resistance to abrasin and wear, a greater toughness of the cutting edge, and a long tool working life.
HWM整体硬质材料：刀钻生产过程中，Nordutensili采用专用、微晶硬质合金，该材料均产自卢森堡Ceratizit公司和德国Tigra公司，保证了刀钻的抗磨损能力，刀刃韧度及使用寿命。

- ✓ Working characteristics:
工作特性：

- Speed up from 12000 to 24000 rpm 转速：12000-24000转/分
- Feed speed from 5 to 10 m/min 进给速度：5-10米/分

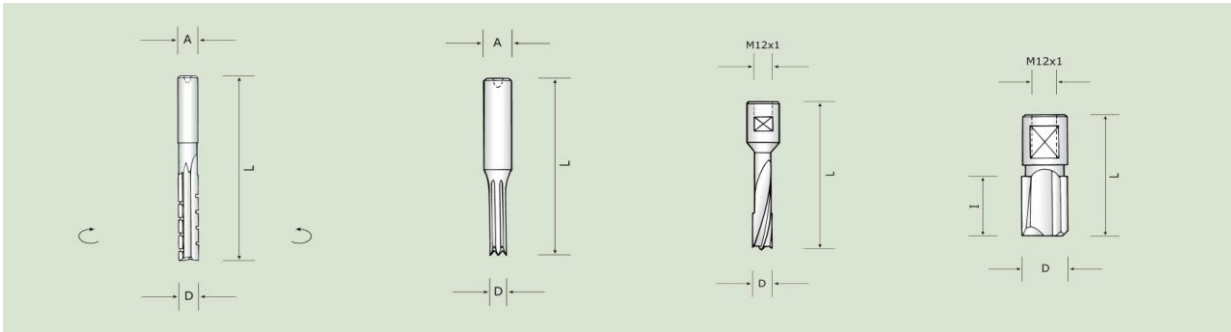
- ✓ Life of the tool: 15000 holes 使用寿命：15000孔

TOOLS FOR MORTISE WITH ORBITAL TOOL ACTION 榫眼机用钻头 WS (STEEL)

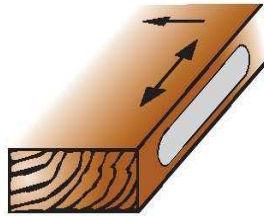
WS系列（钢）

ART. 161 – 162 – 164 – 170 – 171 – 172 – 173 – 174 – 175 – 250

– 260 – 265 – 300

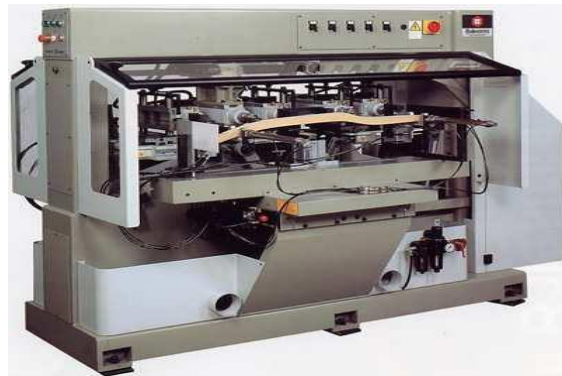


- ✓ Application: Used to make slots.
用途：用于开槽。



- ✓ Materials: Particularly suggested for soft wood
适用材质：软木
- ✓ Equipment: Mortising machine.
适用设备：榫眼机。
- ✓ Most important equipment manufacturers:
主要榫眼设备制造商：

- Comec
- Pade
- Balestrini
- Bacci
- Scm



- ✓ **Final products: Furniture, chairs, tables, stairs, beds.**
最终产品：用于家具、椅子、桌子、台梯、床。

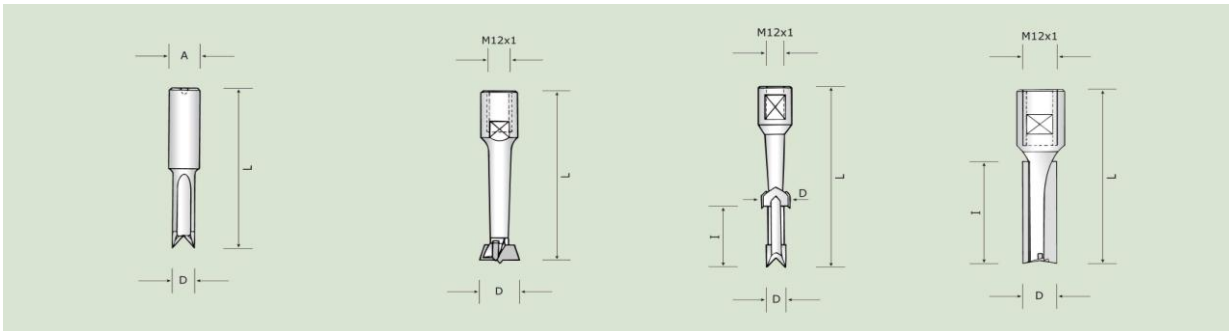


- ✓ **Technical details:**
技术参数：
 - **Super strength steel: In all its production range, Nordutensili uses exclusively top-quality steels that give to the tools an excellent cutting-edge duration and toughness.**
超硬钢材质：在生产过程中，Nordutensili采用专用、高品质钢材，保证了刀钻极佳的耐磨性和耐用性。
- ✓ **Working characteristics:**
工作特性：
 - **Speed from 3000 to 5000 rpm 转速：3000-5000转/分**
 - **Feed speed up to 1.5 - 2 m/min 进给速度：1.5-2米/分**
- ✓ **Life of the tool: 15000 holes 使用寿命：15000孔**

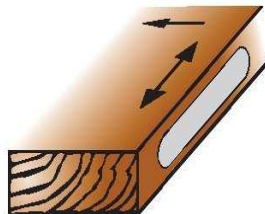
TOOLS FOR MORTISE WITH ORBITAL TOOL ACTION 榫眼机用钻头 HW (HARD METAL)

HW (硬质合金)

ART. 169 – 171 – 251 – 261 – 266 – 301

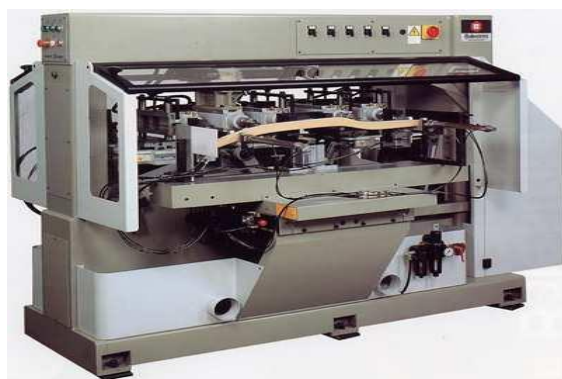


- ✓ Application: Used to make slots.
用途：用于开槽。



- ✓ Materials: Particularly suggested for hard wood, laminates, plywood, MDF.
适用材质：硬质原木、多层板、胶合板、中密度板。
- ✓ Equipment: Mortising machine.
适用设备：榫眼机。
- ✓ Most important equipment manufacturers:
主要榫眼设备制造商：

- Comec
- Pade
- Balestrini
- Bacci
- Scm



- ✓ Final products: Furniture, chairs, tables, stairs, beds.
最终产品：用于家具、椅子、桌子、台梯、床。



- ✓ Technicals details:
技术参数：

- Top quality hard metal: In the production of tools with hard metal Nordutensili uses exclusively a micrograin hard metal made by Ceratizit/Luxembourg and Tigra/Germany that give to the tools an high resistance to abrasion and wear, a greater toughness of the cutting edge, and a long tool working life.
优质硬质材料：刀钻生产过程中，Nordutensili采用专用、微晶硬质合金，该材料均产自卢森堡Ceratizit公司和德国Tigra公司，保证了刀钻的抗磨损能力，刀刃韧度及使用寿命。

- ✓ Working characteristics:
工作特性：

- Speed from 3000 to 5000 rpm 转速：3000-5000转/分
- Feed speed up to 1.5 - 2 m/min 进给速度：1.5-2米/分

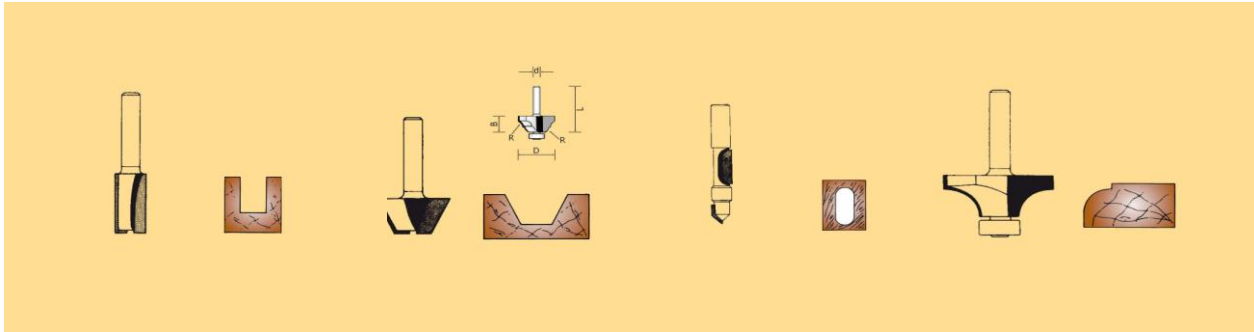
- ✓ Life of the tool: 15000 holes 使用寿命：15000孔

TOOLS FOR PORTABLE MOULDERS 四面刨钻头

HW (HARD METAL)

HW (硬质合金)

ART. FROM 801 TO 936



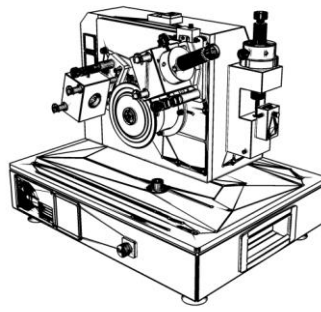
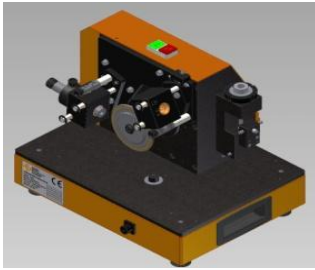
- ✓ Application: Used to make grooves and to trim.
用途：用于开槽和修边。
- ✓ Materials: Particularly suggested for wood and laminates.
适用材质：原木和多层板。
- ✓ Equipment: Profiling and routing machines.



- ✓ Technicals details:
技术参数：
 - Top quality hard metal: In the production of tools with hard metal Nordutensili uses exclusively a micrograin hard metal made by Ceratizit/Luxembourg and Tigra/Germany that give to the tools an high resistance to abrasion and wear, a greater toughness of the cutting edge, and a long tool working life.
优质硬质材料：刀钻生产过程中，Nordutensili采用专用、微晶硬质合金，该材料均产自卢森堡Ceratizit公司和德国Tigra公司，保证了刀钻的抗磨损能力，刀刃韧度及使用寿命。
- ✓ Working characteristics:
工作特性：
 - Speed from 3000 to 5000 rpm 转速：3000-5000转/分
 - Feed speed up to 1.5 - 2 m/min 进给速度：1.5-2米/分

PORTABLE TOOL SHARPENER

便携式磨刀机



上述磨刀机式样可打磨下列钻头：

Art. 015, 016, 021

Art. LASER

Machine set for re-sharpening of:

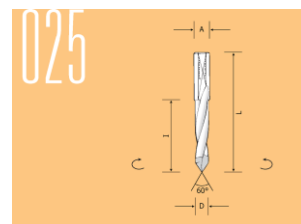
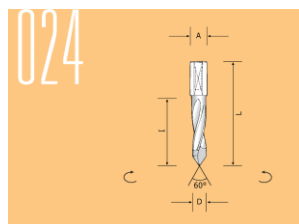
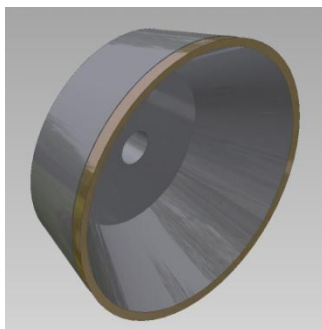
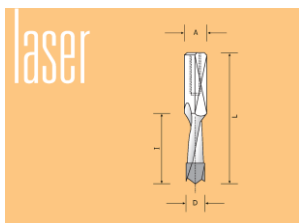
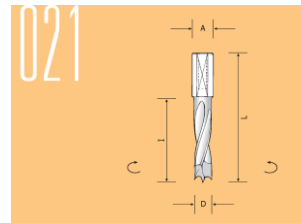
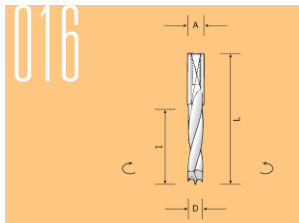
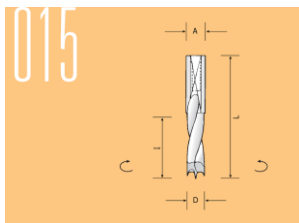
- dowel drills Art. 015, 016, 021
- drills with radius spurs: Art. LASER

上述磨刀机式样可打磨下列钻头：

通孔钻 Art. 024, 025

Machine set for re-sharpening of:

- through bore drills Art. 024, 025



Application: machine for re-sharpening drills using a grinding wheel with preset angles.

用途：用带角度的砂轮打磨已使用变钝的钻头。

Benefits: compact machine useful for every craft workshop and industry. The sharp bits are always available, saving time and cutting costs. The same machine can be set with 3 different wheels and is fitted with supports and guides for creating cutting angles by means of simple hand adjustments dressing unit to dress grinding wheels used for sharpening dowel drills and drills with radius spurs (LASER).

优点：该小型磨刀机可用于各种工业领域，并适用打磨多种钻头，省时省钱。通过运用辅助单元调整，该磨刀机可以安装三种不同式样的砂轮，用于打磨通孔钻和LASER系列钻头。

✓ Technical data:技术参数

General data 主要参数	U. of M.	Value 数值
Width 宽	[mm]	415
Depth 长	[mm]	310
Height 高	[mm]	335
Total empty weight 净重	[kg]	25
Spindle rotation speed 主轴转速	[rpm]	3200
Spindle wattage 主轴功率	[W]	90
Maximum diameter of machined drills:钻头最大直径: 请参考以下系列 - dowel drills Art. 015, 016, 021 - drills with radius spurs: Art. LASER - through bore drills Art. 024, 025	[mm]	10 8 10
Diameter of the twin-cutter grinding wheel 砂轮直径	[mm]	100
Diameter of the flared-cup grinding wheel 角度砂轮盘直径	[mm]	100

Power Supply 输入参数	U. of M.	Value
Mains voltage 电压	[V]	85-264 AC
Frequency 频率	[Hz]	47-63
Phases 相数		2P+G
Power circuit voltage 电源电路电压	[V]	24 DC
Control circuit voltage 控制电路电压	[V]	24 DC.
Installed power 安装功率 (motor + dresser)马达+砂轮修整器	[W]	90 + 50
Maximum amperage 最大电流 (motor + dresser)马达+砂轮修整器	[A]	5 + 3