



Spiral Toothed (upcut spiral)

Solid Carbide

- Spiral toothed
 - Fishtail
 - Upcut-spiral
- (- (Shank): 3,175mm (1/8")

Characteristics

Industrial Quality -

- Problem-free chip evacuation through spirals
- Low wear
- Clean surfaces
- Very good cost-performance ratio

Applications

Glass fibre -

- Carbon fibre
- Wood
- Printed circuit boards

Available as $\varnothing 1\text{mm}$, $\varnothing 2\text{mm}$ and $\varnothing 3\text{mm}$

(Flute Fish (upcut spiral-2

Technical Specifications

Solid Carbide -

- Double-Flute
- Fishtail Bottom
- Upcut-spiral

(- (Shank): 3,175mm (1/8")

Characteristics

Industrial Quality –

- Through Fishtail Bottom easy dive into material
- Low wear
- Clean surfaces

Applications

universally applicable –

- Aluminium
- Plastics
- Wood

Available as ø1mm, ø2mm, ø3mm

3D Print Head PH-40

With the 3D Print Head PH-40 you can create high quality 3D models layer by layer. The variable temperature control makes it possible to use all filaments with a processing temperature of 150 to 265°C and a diameter of 1.75 mm. Additionally, the PH-40 contains numerous useful features, e. g. the quick release for the filament change, the automatic shutdown of the hot-end and the heating or the integrated .active cooling of the hot-end, making 3D printing even more comfortable and safe

In order to start 3D printing, please export an STL-file from your CAD program or select one of the many templates you will find in the internet. Afterwards, this file needs to be prepared for the STEPCRAFT CNC System in a slicing software like CURA. This is also where the most significant 3D print parameters, such as layer thickness, nozzle diameter and infill, are defined. You will find a download file with the most important parameters for CURA [here](#). The created work file can be processed by the control software .WinPC-NC, UCCNC or others

The control software WinPC-NC Starter does not support the operation of the 3D Print Head. Either an .upgrade to the USB full version or the control software UCCNC is required

:(Technical Specification (Control Unit

- (Temperature control between 150 to 265°C (equals 300 to 500 degree Fahrenheit
- Integrated system control to handle print temperature and temperature of the heating bed
- Continuous speed control of the optional workpiece fan
- Automatic shutdown of hot-end and heating bed when printing is finished
- row LC-Display-2
- (Language setting (German, English, French, Spanish
- (Sub-D plug to connect control box to STEPCRAFT CNC System (Plug-and-Play-15

- External power supply with 30 V 120 W
- Integration on other CNC routers possible due to documented interface (see operating instruction)
- Dimension: L 200 mm x W 165 mm x H 64 mm

:(Technical specification (Printing Head

- Possible diameter of filament: 1.75 mm
- Filament material can be any material with a processing temperature between 150 to 265°C ((equals 300 to 500 degree Fahrenheit
- (Nozzle diameter 0.4 mm, optional nozzle diameters available (0.3, 0.5, 0.7 and 1.0 mm
- Integrated active cooling for the hot-end
- Continuously adjustable pressure on the pinch roller for the feed of filament
- Quick release for the filament exchange
- Integrated connector socket for optional workpiece fan
- mm mounting collar 43
- (Watts heating cartridge (hot-end 40
- Length of flexible hose connection: 0.8 m
- Easy change of printing nozzle
- Dimension: L 80 mm x W 55 mm x H 110 mm

وحدة الطباعة ثلاثية الأبعاد سهلة الاستخدام كما يمكن وضع المواد الخام بداخل الأداة التي تقوم بمهام الطباعة ثلاثية الأبعاد حيث يمكن تصميم النماذج المختلفة باستخدام هذه القطعة

(End Mill 2-flute fish (upcut 6 mm pole

End Mill 2-flute fish (upcut) 6 mm pole

Applications :

Universal usability for all Materials

Wood –

Aluminum –

Non-ferrous metals –

– Only partially usable for high strength metals

Available as Ø6mm

أداة تستخدم للحفر بمساحة 3,175 مم يمكن استخدامها مع جميع المواد مثل الخشب والالومنيوم كما تتوفر بمساحة 6مم

(End Mill 2-flute fish (upcut

Characteristics:

Industrial Quality
Through Fishtail Bottom easy dive into material
Low wear
Clean surfaces

Applications:

universally applicable
Aluminium
Plastics
Wood

Technical Specifications:

Solid Carbide-End Mill Available as $\varnothing 1\text{mm}$, $\varnothing 2\text{mm}$, $\varnothing 3\text{mm}$
Double-Flute
Fishtail Bottom
Upcut-spiral
(Shank): 3,175mm (1/8"

End Mill Diamond

Product name : End Mill Diamond

Solid Carbide -
- Diamond toothed
- Fishtail
(- (Shank): 3,175mm (1/8"

Characteristics

Industrial Quality -
- Low wear
- Clean surfaces
- Very good cost-performance ratio

Applications

Glass fibre –

– Carbon fibre

– Wood

– Printed circuit boards

Available as ø1mm, ø2mm and ø3mm

End Mill Single Flute

Characteristics:

Industrial Quality

Problem-free chip evacuation

Low wear

Clean surfaces

Applications:

High quality contours

As only one Flute, much space for chip evacuation

Very good for softmaterials

Soft plastics

PE, Teflon, Plexiglass, Styrodur

Soft Aluminium

Available as ø1mm, ø2mm and ø3mm

Technical Specifications:

Solid Carbide-End

Single-Flute

Flat Bottom

Upcut-spiral

((Shank): 3,175mm (1/8"

(End Mill Spiral Toothed (downcut spiral

Solid Carbide-End Mill

Spiral toothed

Fishtail

Downcut-spiral

((Shank): 3,175mm (1/8"

Characteristics

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Problem-free chip evacuation through spirals

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Clean surfaces

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Applications

Glass fibre

Carbon fibre

Wood

Printed circuit boards

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(End Mill Spiral Toothed (upcut spiral

Solid Carbide

Spiral toothed

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ER11 Collet for HF-Spindle

Collets for STEPCRAFT HF-spindle 350 / 500 W with diameters from 1 mm to 8 mm

يمكن وضعها مع محور الدوران HF Spindle 500

Exhaust Adapter HF-Spindle

The Vacuum Adapter is constructed as a ring nozzle, which encompasses the milling cutter completely and reliably extracts the dust. The detachable ring nozzle enables the change of a tool while the Vacuum Adapter is attached. The cup brush provides a good sealing of the workpiece and recedes in the case of contact with the clamping bars.

The enclosed tube can be connected, for example, to an commercially available vacuum cleaner. This can be accomplished with the use of the appropriate Air Regulator.

The use of the Vacuum Adapter together with the Automatic Tool Changer is not possible.

Scope of Delivery:

Vacuum Adapter, fully assembled and suitable for HF-Spindle

محول او مهوى العادم مناسب مع محور الدوران يوجد بها فوهة دائرية التي تقوم بالدوران كما يوجد بها فرشاة في طرف جهاز محور الدوران الذي يستطيع استخراج الغبار في المكان المراد الدوران فيه . يمكن فك الفوهة الدائرية الموجودة في طرف الجهاز وتغييرها بمحول اخر بكل سهولة .

Exhaust adapter Proxxon

The Exhaust Adapter is designed to remove dust from your work piece using a standard shop vac that you can find from most home improvement and department stores

It is designed to work with the Dremel (models: 2000, 3000, 4000 and 4200) as well as the Proxxon IBS/E

SAFETY NOTE: It can be very dangerous to breath in the dust of some materials, especially carbon fiber, so please take care that the area that you use your Stepcraft machine is well ventilated and you have adequate dust collection