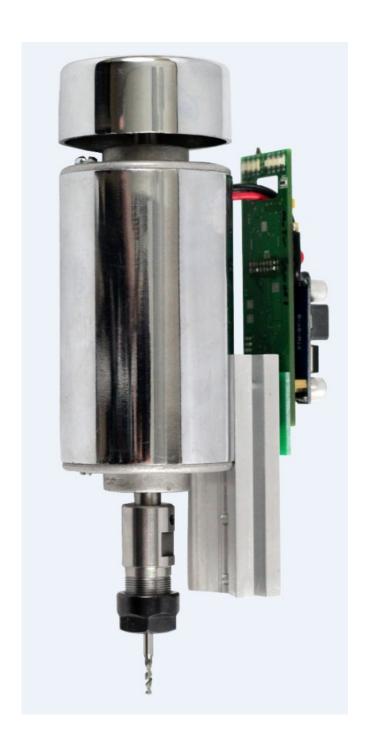
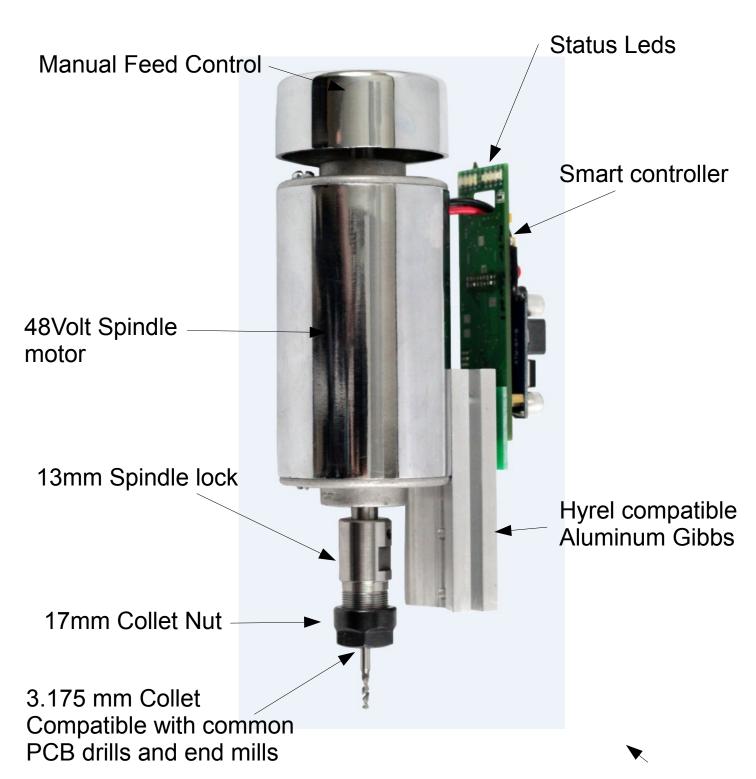
Drill Mill Head



Click Link below to watch video

Specifications:

Programmable Speed
Programmable Print Cooling Fan 0 – 100 %
Weight 1000 grams,
1/8 inch chuck
Power supply, 12v 3.5 amps max
Interface, CanBus



Theory of Operation:

The Hyrel Drill-Mill Head was designed to allow manufacture Of PCB on the Hyrel Printer.

It is NOT designed to be a full capacity Mill.

It IS capable of teaching students Gcode using Blue machining Wax.

Gcode Supported

G0 Move fast

G1 Move ac programmed feed rate

G2 Clockwise arc, uses classical I and J for Arc definition.

G3 CCW arc, uses classical I and J for Arc definition.

M0 machine pause

M3 Spindle motor start

M5 Spindle motor stop



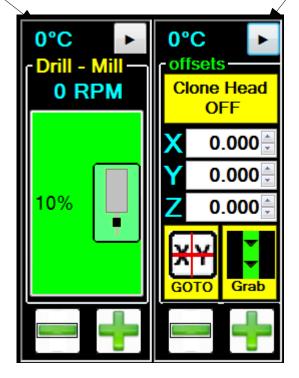
DRILL_MILL HEAD SETTINGS.

Live Temperature Ignore at this time

Navigate button, click to Move to next settings panel

RPM indicator

Manual Motor start/stop 0-100% power (Pwm drive control)



Finger friendly UP/Down

Head Model

RTD TYPE (not used)

Drive Motor
Current
(Not Used)

Drive Motor MicroStep Resolution. (Not Used)



CLONE

Used for Parallel Printing, multiple Copies of 1 Part at the same time.

OFFSETS

Used when printing With multiple heads In a single build.

GOTO X,Y OFFSET

Used during initial Head offset calibration

Grab:

Automatically reads
The current X-Y offsets
And plugs them into the
Head Offsets w and Y.

Right click on Flash To store these settings As power on default.

Com Window, for Diagnostics and Advanced status.

Read:

Reads back the Firmware revision

Reset:

Performs a soft reset Of the Head.

TIPS:

Balance the Z up down speed to give good drilling Feed rate. When correct the holes in the pcb will Be very clean and burr free.

Ebay has a large number of suppliers who sell resharpened Bits at very good prices.

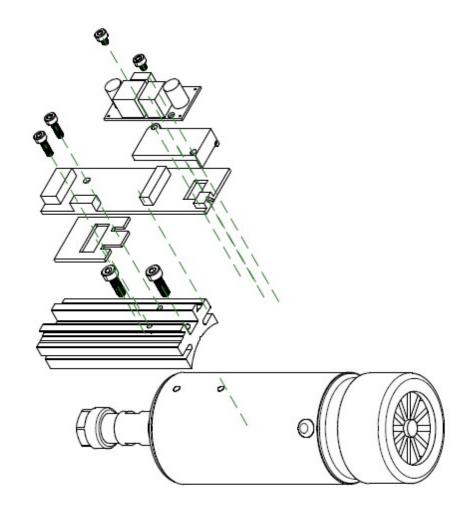
Make sure to purchase bits that have plastic collars, this allows You to swap bits in the middle of a drill cycle without worryingvAbout the z offsets.



DISCLAIMER: !!!Use at your own risk.!!!

No warranty or guarantee is offered for the application of this Product,

The user agrees to be ENTIRELY responsible for Safe Operation Of this product.



| hem# | QTY. | Part Name |
|-------|------|--|
| _ | 1 | 50003 1 Boost Regulator PCA. XTW6009.3 A35V Stand In |
| 2 | 1 | W004.10 Mild-IIM.09000 |
| 3 | 2 | 200304-12 M4x12mm |
| 4 | 1 | 103124.Boost Regulator Bracket |
| Ch Ch | 1 | 102080-080.DRILL HEAD |
| o | 2 | 200303-4.M3x4.Cap.Socket.91292A109 |
| 7 | 2 | 2000303-10.M3x10.SocketHead.Screw.SS.91292A113 |
| 8 | 1 | 102508.PCBSpacerStop.H3D |
| 9 | 1 | DANOBLING DASHNOISNLXXXXXXXX |