

## 3D printer

### Component : K8200

Did you ever wanted to create your own products? Did you dream that your 3D creations became real products? This is your chance with the Velleman K8200.

It's a build it yourself 3D printer kit to print objects of maximum 20x20x20cm (7.87 x 7.87 x 7.87") using PLA or ABS filament 3 mm/0.12" plastic wire). It is an extremely fast, reliable and precise printer even when printing at higher speeds. The K8200 is compatible with all free RepRap® software and firmware. It is made out of aluminum profiles and is easy to assemble, it leaves room to the user to freely alter the machine and modify it to their liking. The print bed is heated.

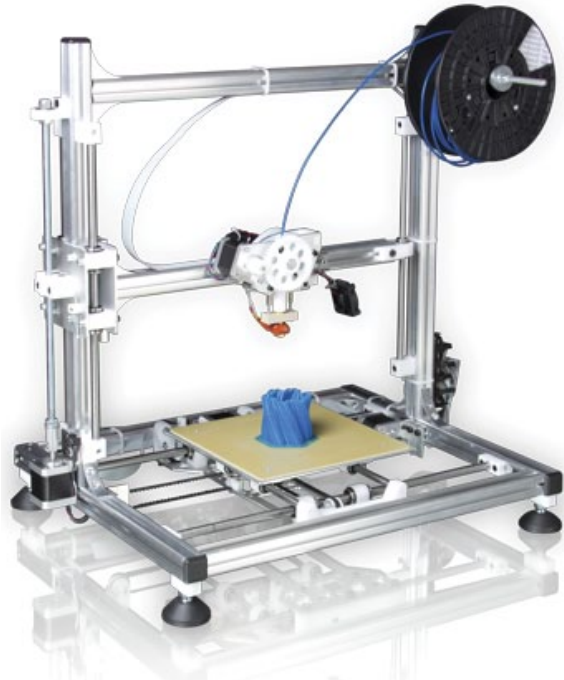
#### Specifications

- Linear ball bearings: 8 (0.31") and 10 mm (0.39")
- Technology: FFF (Fused Filament Fabrication) for PLA and ABS
- Power supply: 12 V / 3 A max.
- FTDI USB 2.0 to Serial
- Dimensions of printable area: 20 x 20 x 20cm / 7.87 x 7.87 x 7.87"
- Typical printing speed: 120 mm/s
- Maximum print speed: 150 to 300 mm/s (depending on the object to be printed)
- Extrusion nozzle: 0.5 mm (19685µin)
- Extrusion thermistor: NTC 100K
- Extruded aluminum profiles: 27.5mm (1.08") wide
- Movement: 4 NEMA 17 stepper motors
- Resolution: Nominal mechanical resolution:
  - X and Y: 0.015mm (590.55µin) (smallest step the printing plate can move in the X and Y direction)
  - Z: 0.781µm (30.748µin) (smallest step the printing plate can move in the Z direction)
- Nominal printing resolution:
  - Wall thickness (X,Y): 0.5 mm / 0.02"
  - Layer thickness (Z): 0.20 – 0.25 mm / 0.0078 - 0.0098"
- Dimensions:
  - Width: 50cm / 19.7"
  - Depth: 42cm / 16.5"
  - Height: 62cm / 24.4"
  - Weight: 9Kg / 19.84lbs
- included: 5m (16.4ft) PLA black sample

#### Options:

- PLA REEL: Black (part# PLA3B1) • Green (part# PLA3G1)  
• Natural (part# PLA3N1) • Orange (part# PLA3O1) •  
Pink (part# PLA3P1) • Red (part# PLA3R1) • Blue (part#  
PLA3U1) • White (part# PLA3W1) • Yellow (part# PLA3Y1)  
ABS REEL: Black (part# ABS3B1) • White (part# ABS3W1)

- ⚠ **This advanced kit requires mechanical, electronics and computer skills.**
- ⚠ The open source hard and firmware are based on the GNU open source communities of RepRap and Sanguinololu. See <http://RepRap.org>
- ⚠ Excelent 3D printer driving software can be downloaded from <http://www.repetier.com>
- ⚠ Source firmware can be downloaded from Velleman; See also <http://www.k8200.eu>



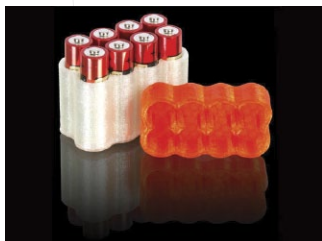
For more info, visit our website:  
<http://www.printer-3d.eu>



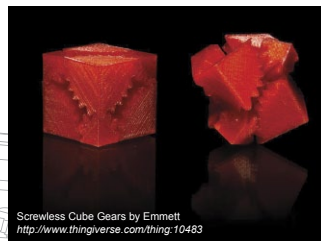
Repetier version 0.84 and up  
[www.repetier.com](http://www.repetier.com)



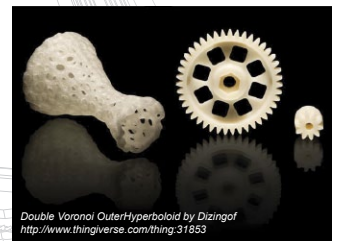
Search for reference code on  
YOUTUBE



Koch Snowflake Vase 1 by sphynx  
<http://www.thingiverse.com/thing:35246>



Screwless Cube Gears by Emmett  
<http://www.thingiverse.com/thing:10483>



Double Voronoi OuterHyperboloid by Dizingof  
<http://www.thingiverse.com/thing:31853>

