Ultimaker 2+ Connect
Spare parts catalog
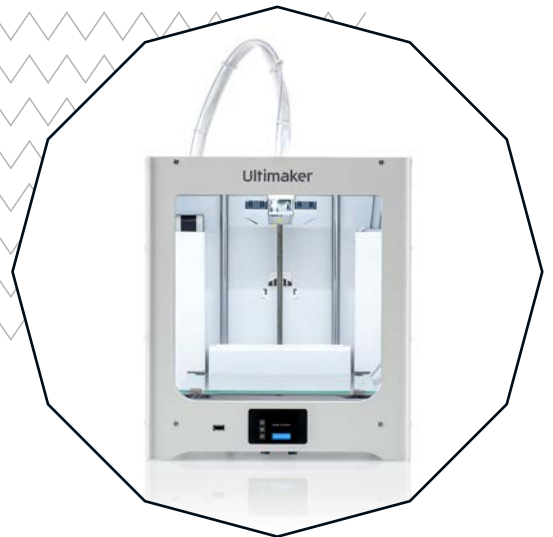
Ultimaker

Table of contents
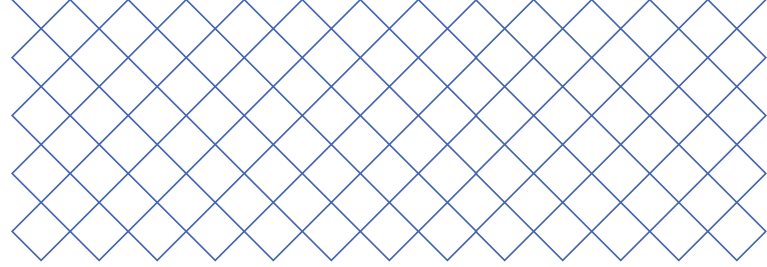
Ultimaker 2+ Connect accessories and add ons

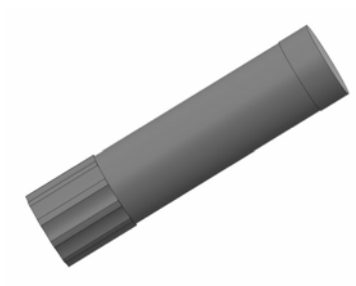## Ultimaker 2+ Connect spare parts and assemblies

Accessories

1227   Hex screwdriver 2 mm

Hex Screwdriver 2mm

Required screwdriver for most repairs on
Ultimaker 3D printers

1278   Glue stick

Glue stick

Apply a layer of glue to the build plate for
optimal print adhesion

1402   Hex key 2.5 mm

Hex Key Wrench 2.5

Used for M4 bolts, such as on the square flanged
linear bearings

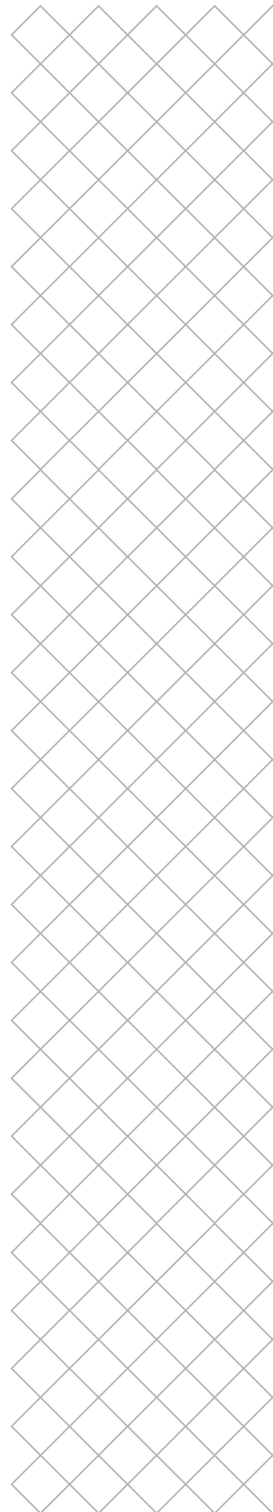**2073   USB stick**

USB Stick

Save print files to USB for offline printing

2083   Machine oil

Machine Oil

This oil is for lubricating the smooth axles on the
Ultimaker 2+ Connect

Accessories

2084 Magnalube
Magnalube Reclosable

This grease is for lubrication the Z motor's trapezoidal lead screw

2321 Nozzle wrench 7 mm
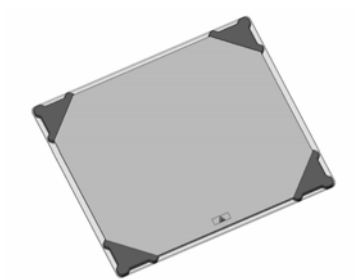Nozzle spanner 7mm

Use this wrench to change the nozzle on the Ultimaker 2+ Connect

9341 Print head calibration aid
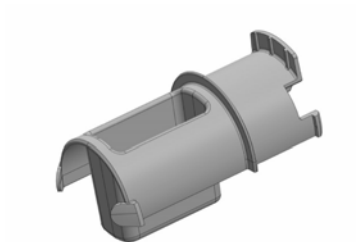Print head alignment aid (user)

Use this tool to ensure the correct distance between the hot end holders after a print head repair

214421 Glass plate
Packaged glass plate

Glass build plate for the Ultimaker 2+ Connect with protective corners

217570 Spool holder
Short reel holder

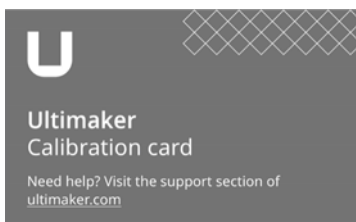White single spool holder for the Ultimaker 2+ Connect

Accessories

217599   Ethernet cable L3000

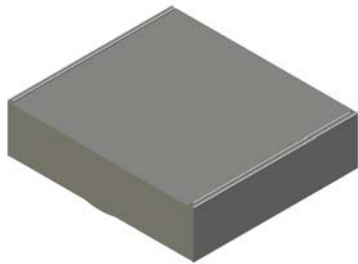STP ethernet cable L3000

Connect the Ultimaker 2+ Connect to a local area network with this Ethernet cable

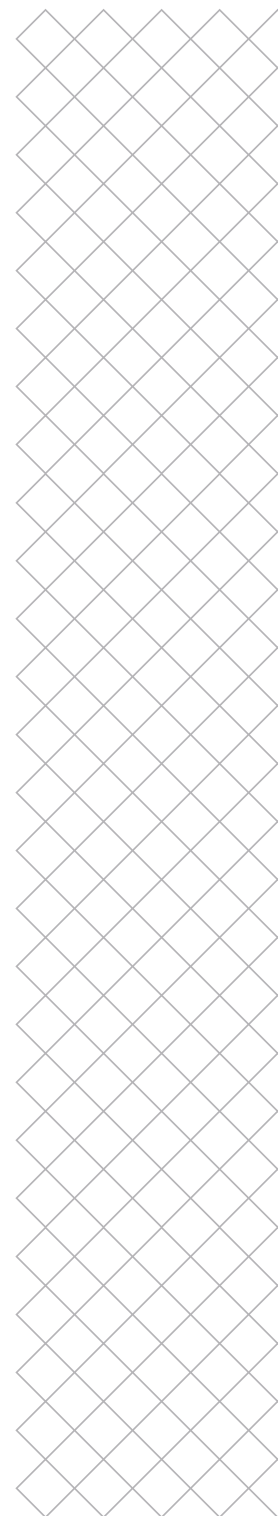### 219569   Calibration card

Calibration card

Use the calibration card during the bed leveling procedure to ensure the correct distance between the nozzle and build plate
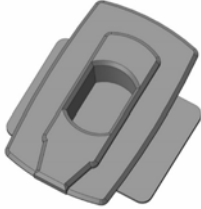
226740   Accessory box Ultimaker 2+ Connect

Ultimaker 2+ Connect accessory box service

Complete accessory box for the Ultimaker 2+ Connect

Packaging

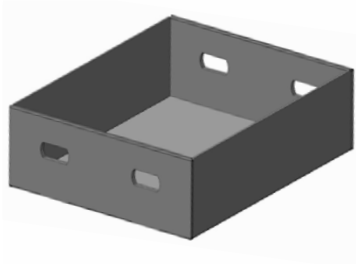### 206688   Box locking clip
S5Pkg Box locking clip

Four of these clips secure the packaging of the
Ultimaker 2+ Connect

224348   Outer box Ultimaker 2+ Connect
UM2+ Connect Outerbox

The outer sleeve / box for the Ultimaker 2+ Connect

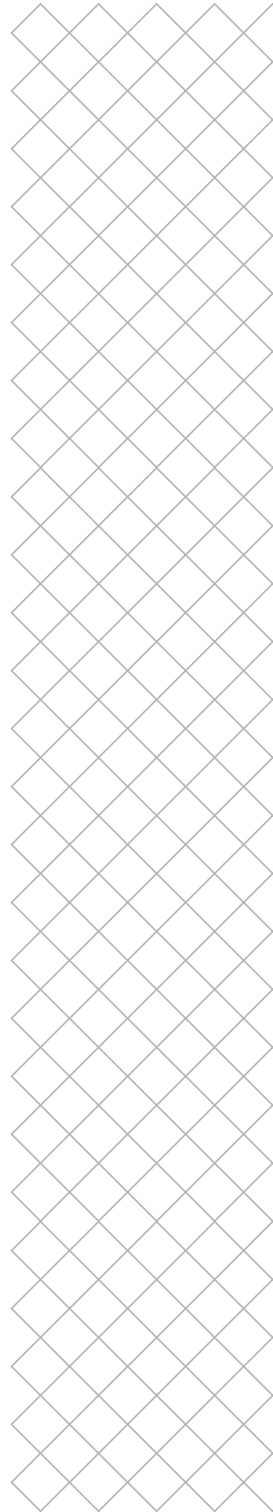### 224349   Tray Ultimaker 2+ Connect
UM2+ Connect Cap

Part of the Ultimaker 2+ Connect packaging:
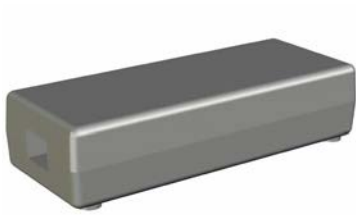Bottom and top tray

226742   Packaging assembly
Ultimaker 2+ Connect packaging assembly

Complete packaging assembly for the Ultimaker 2+
Connect, including outer box, trays, and foam pieces

Power adapter and cables

1238   Power adapter 24-220W
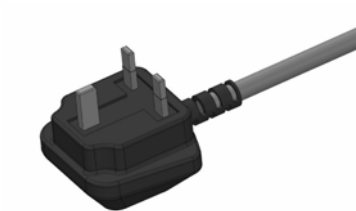
Power adapter 24-220W

Power adapter for the Ultimaker 2+ Connect

1805   Power cable EU

Power Cable EU Type C13 CE

Power cable for the Ultimaker 2+ Connect
Type EU

1806   Power cable UK

Power Cable UK Type C13 CE

Power cable for the Ultimaker 2+ Connect
Type UK

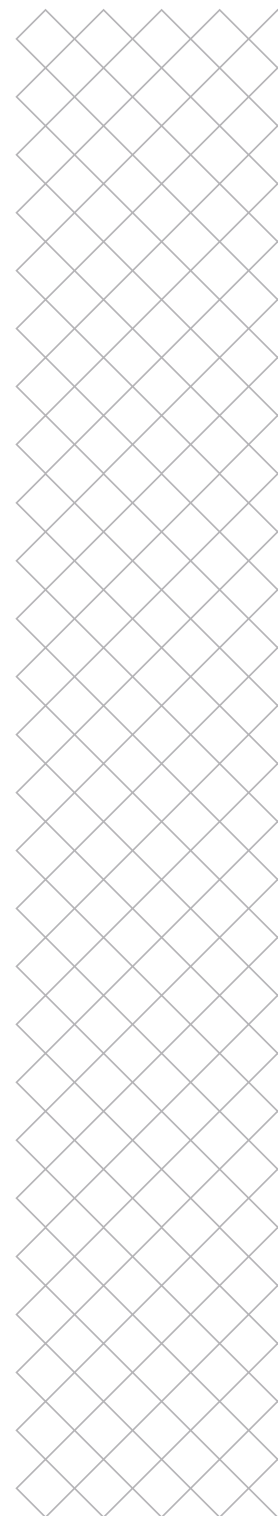### 1807   Power cable AU

Power Cable AU Type C13 CE
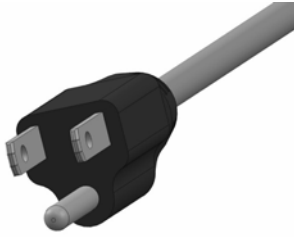
Power cable for the Ultimaker 2+ Connect
Type AU

1808   Power cable US

Power Cable US Type C13 CE

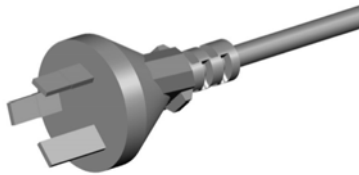Power cable for the Ultimaker 2+ Connect
Type US

Power adapter and cables

1819   Power cable JPN
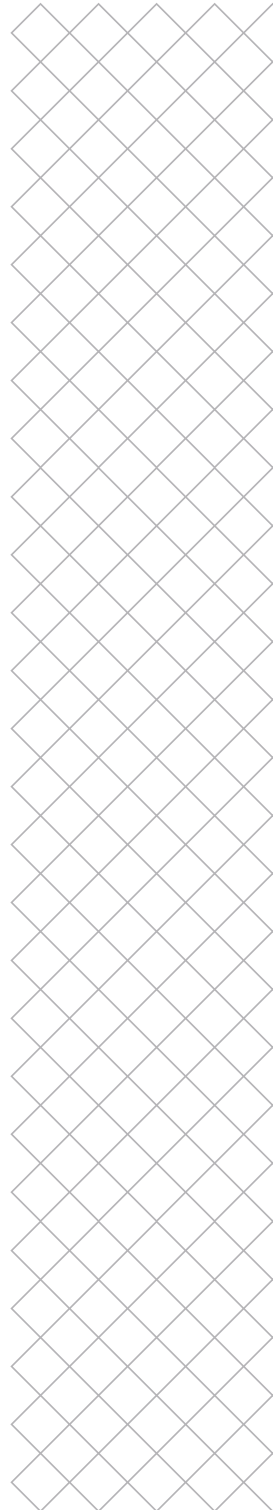Power Cable JPN Type C13 PSE

Power cable for the Ultimaker 2+ Connect
Type JPN

202091   Power cable ARG
Power Cable ARG Type C13 CE

Power cable for the Ultimaker 2+ Connect
Type ARG

Documents

222946   Quick start guide

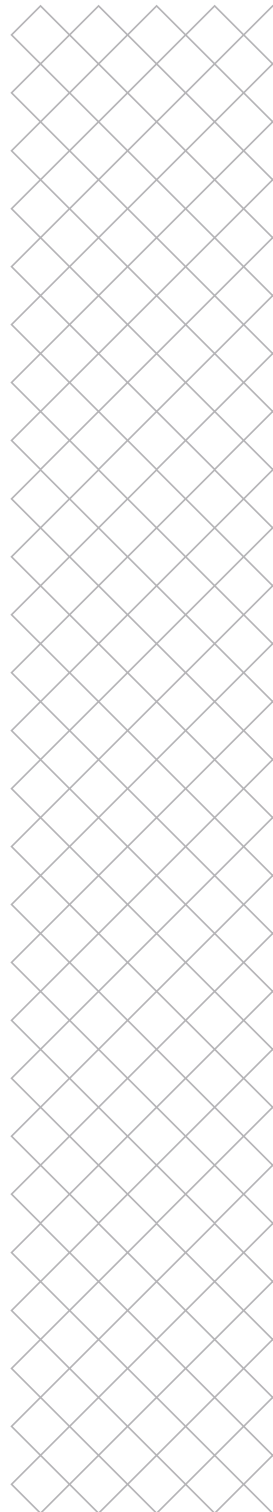Quick start guide Ultimaker 2+ Connect

Quick start guide booklet for the Ultimaker 2+
Connect. Content available in 21 languages

222947   Safety and warranty information

Safety and warranty information Ultimaker 2+
Connect

Safety and warranty information for the Ultimaker 2+
Connect. Content available in 21 languages

Housing

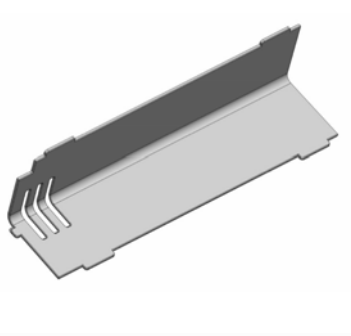### 1220   Ball bearing 8 mm

Ball Bearing F688-2RS

Frame bearings for the X and Y axles

1294   Warning sticker: Keep hands clear

Keep Hands Clear Sticker

ISO 7010 W024 icon. This sticker is placed on the
bottom panel of the Ultimaker 2+ Connect

1903   Motor cover

Cable Cover

These plastic covers shield the motors and cables of
the Ultimaker 2+ Connect

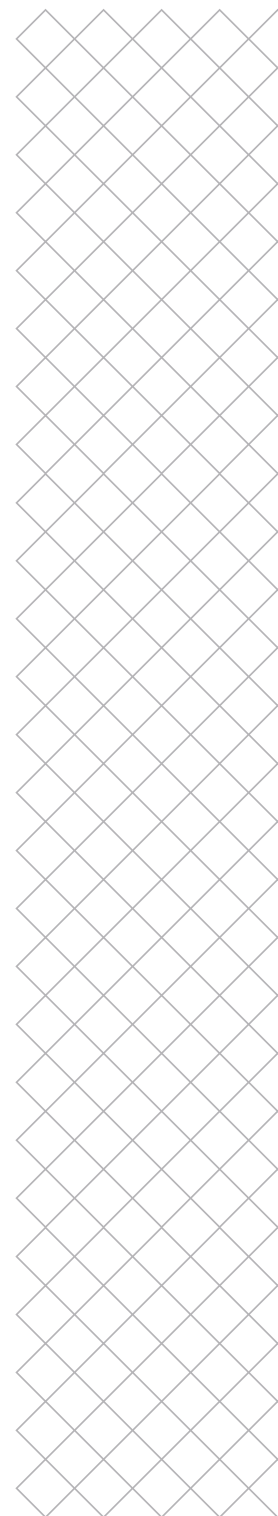### 2478   Z cap metal

Z-Cap metal

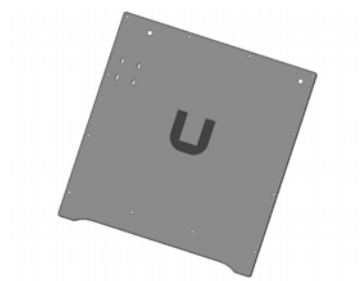Metal cap to hold the Z axle in place

2500   Z cap with inserts

Z-Cap With Inserts

Plastic cap with inserts to align and hold the
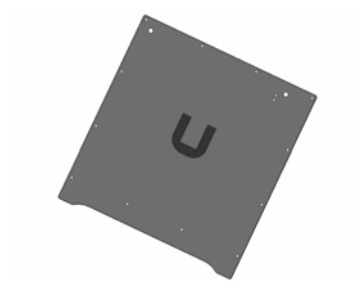Z axle in place

Housing

214595   Left panel
Left panel UM2+ Connect

Frame: Left panel for the Ultimaker 2+ Connect

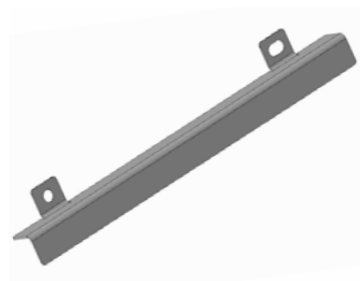### 214598   Right panel
Right panel UM2+ Connect

Frame: Left panel for the Ultimaker 2+ Connect

215807   Cable cover LED strip
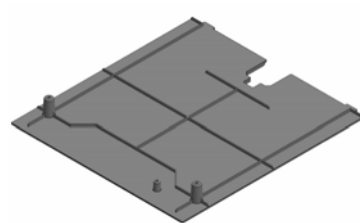UM2+ Connect Cable cover LED strip

Sheet metal cover for over the LED strip wires

215808   Cable cover Air Manager sensor
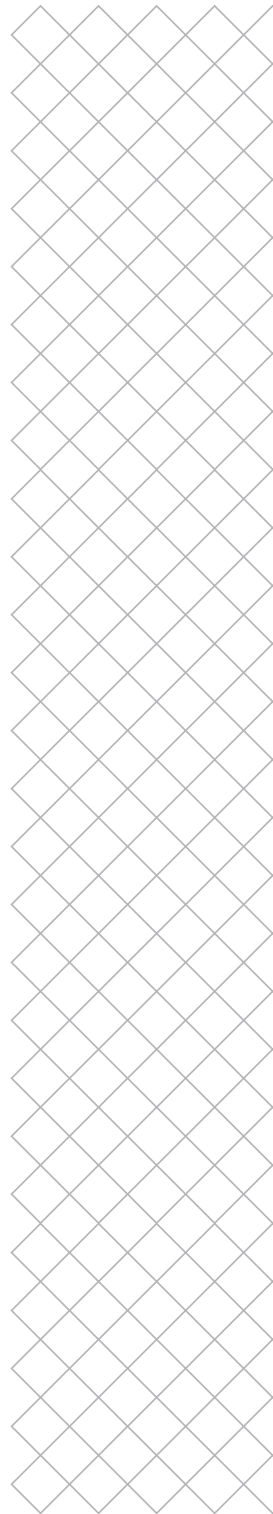UM2+ Connect Cable cover top sensor
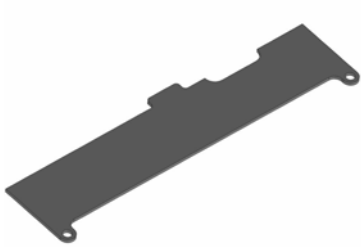
Sheet metal cover for over the Air Manager sensor cable

216566   Bottom plate
Bottom plate UM2+ Connect

The bottom plate of the Ultimaker 2+ Connect that shields the electronics

Housing

220490   Display cover

Display cover UM2+ Connect

Small plastic cover to place over the back of the display against the front panel
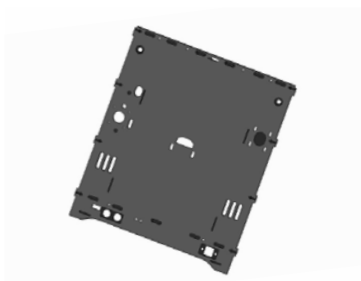
222604   Display spacer

Sheet metal spacer

Metal spacer on which the touchscreen display is mounted

224467   ESD connector

UM2+ Connect ESD Connector

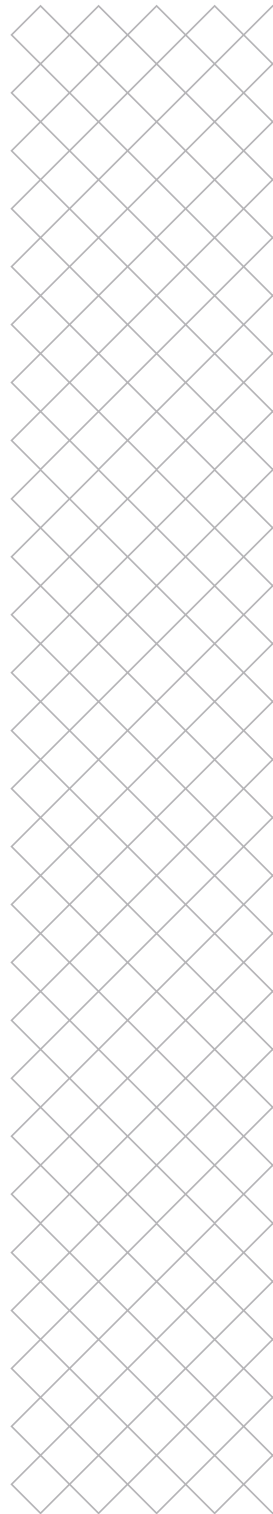Small metal connector to ensure a ground connection for the Y motor

225852   Back panel service assembly

Back panel assembly for service

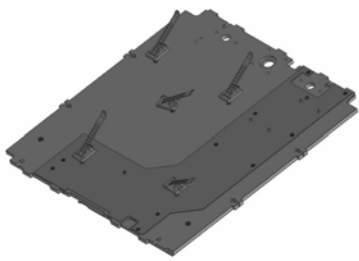Frame: Back panel for the Ultimaker 2+ Connect including inserts

225853   Front panel service assembly

Front panel assembly for service

Frame: Front panel for the Ultimaker 2+ Connect including inserts and magnets
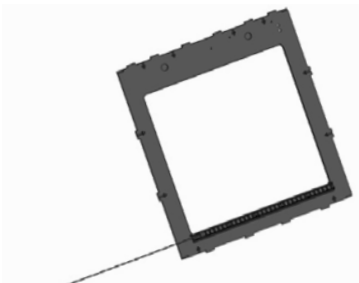
Housing

225855   Bottom panel service assembly
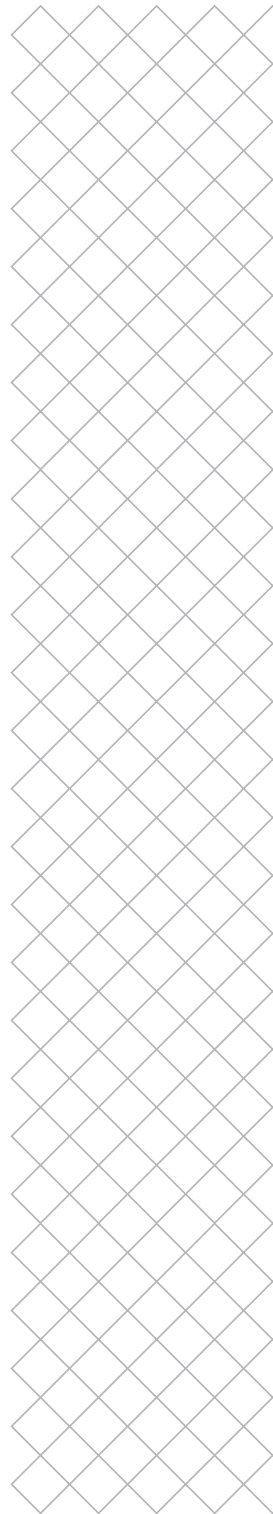Bottom panel assembly for service

Frame: Bottom panel for the Ultimaker 2+ Connect including warning sticker, inserts, ESD protection plate, and cable clips
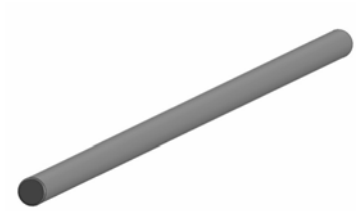

225858   Top panel service assembly
Top panel assembly for service

Frame: Top panel for the Ultimaker 2+ Connect including LED strip and profile
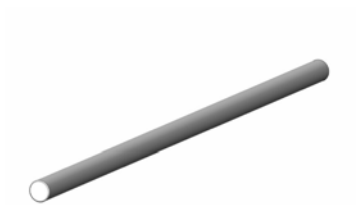
Axles

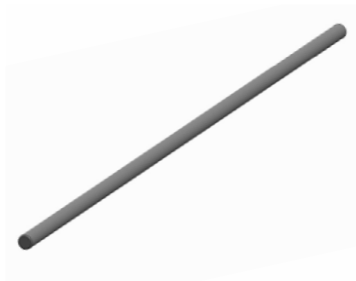**1012   X linear shaft L337**

X-Linear Shaft

Frame X axle for the Ultimaker 2+ Connect
with 8 mm diameter

1169   Z linear shaft L337

Z-Linear Shaft

Z axle for the Ultimaker 2+ Connect
with 12 mm diameter

1172   Print head shaft X L320
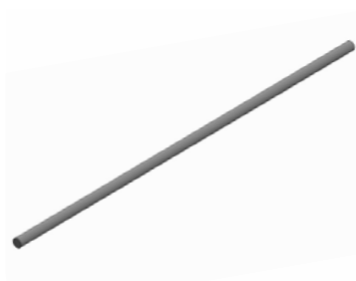
Print Head Shaft X

Print head shaft X for the Ultimaker 2+ Connect
with 6 mm diameter

1173   Print head shaft Y L300
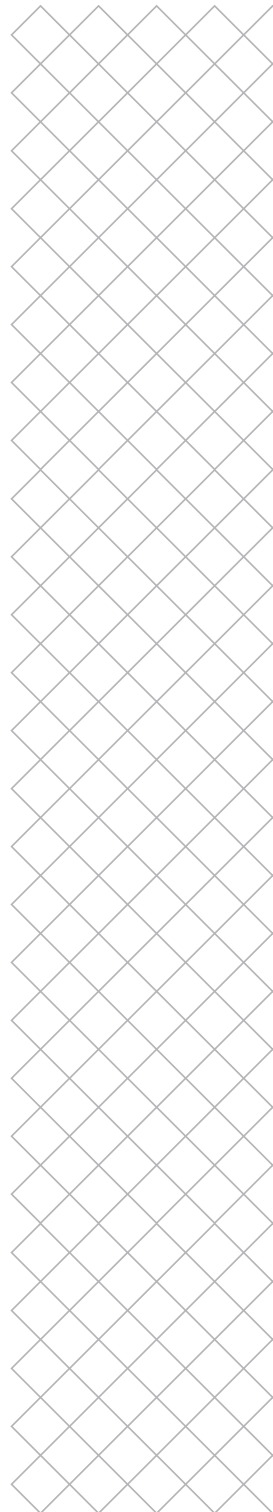
Print Head Shaft Y

Print head shaft Y for the Ultimaker 2+ Connect
with 6 mm diameter

215696   Y linear shaft L357

Shaft Ø8f8 L357

Frame Y axle for the Ultimaker 2+ Connect
with 8 mm diameter

Gantry
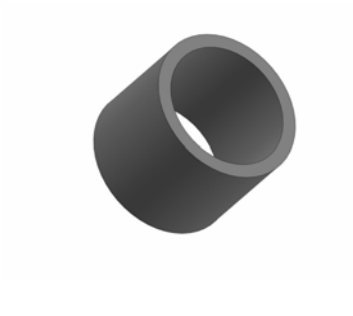
1174   Spacer 8 mm

Spacer 8.2x10x8

Pulley spacer for the gantry, 8 mm

1175   Spacer 3 mm

Spacer 8.2x10x3

Pulley spacer for the gantry, 3 mm

1177   Spacer 10 mm

Spacer 8.2x10x10

Pulley spacer for the gantry, 10 mm

1178   Spacer 25 mm

Spacer 8,2x10x25

Pulley spacer for the gantry, 25 mm

1758   Short belt S2M L200

Timing Belt S2M 200

Short timing belt attached to the X and Y motors
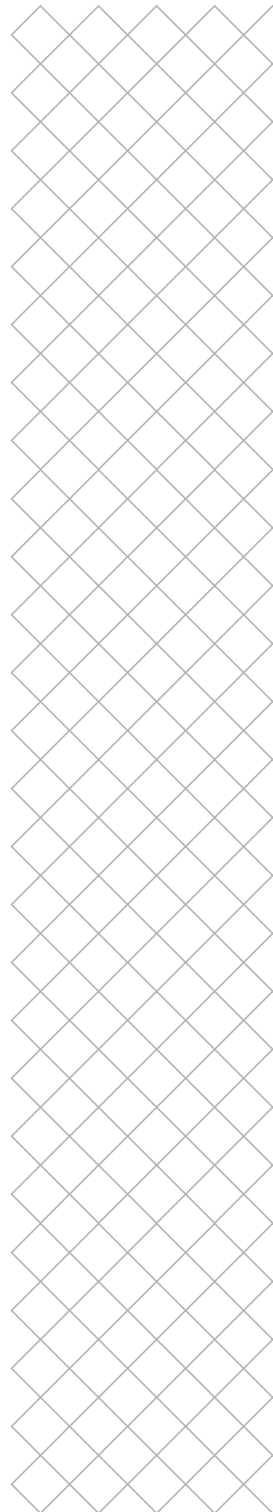
Gantry

9415   Pulley 8 mm
Pulley 8mm Assembly
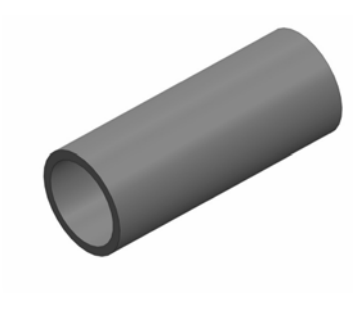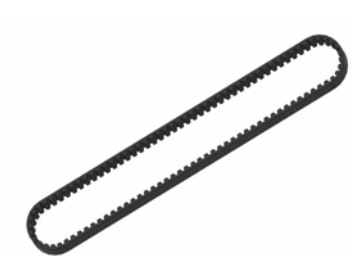
Timing pulley 8 mm including set screw

9416   Double pulley 8 mm
Double Pulley 8mm Assembly

Double timing pulley 8 mm including set screw

9442   Pulley 5 mm
Pulley 5mm Assembly

Motor timing pulley 5 mm including set screw

208133   Motor spacer
Spacer stepper

Plastic spacer to secure the X and Y motors to the frame

225586   Sliding block 616 assembly
Sliding block 616 service

Complete sliding block assembly including the 616 mm timing belt

Motors

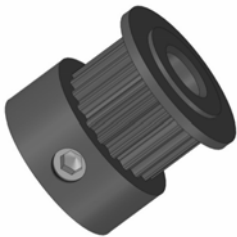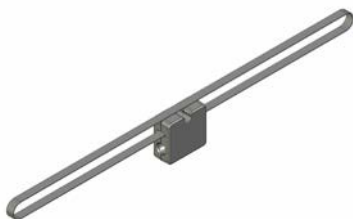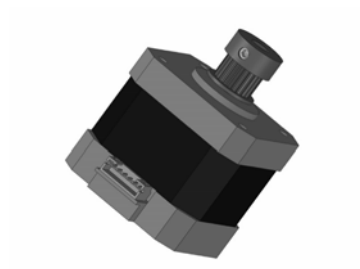### 215582   Z motor with nut

Z motor with nut

Z motor with trapezoidal lead screw.
Includes lead nut (1187), does not include cable

225713   XY motor assembly

XY Motor assembly S3/S5R2 service

X and Y motor assembly with the 5 mm pulley (9442)
mounted. Does not include cable

225715   Feeder motor assembly

Feeder motor assembly S3/S5 service

Feeder motor assembly with the feeder gear
mounted. Does not include cable

208133   Motor spacer

Spacer stepper

Plastic spacer to secure the X and Y
motors to the frame

214620   Stepper motor cable L490

Stepper motor cable L490

Motor cable with length 490 mm, used for the Y motor

Motors

214623   Stepper motor cable L670

Stepper motor cable L670

Motor cable with length 670 mm, used for the X motor

216062   Stepper motor cable L340
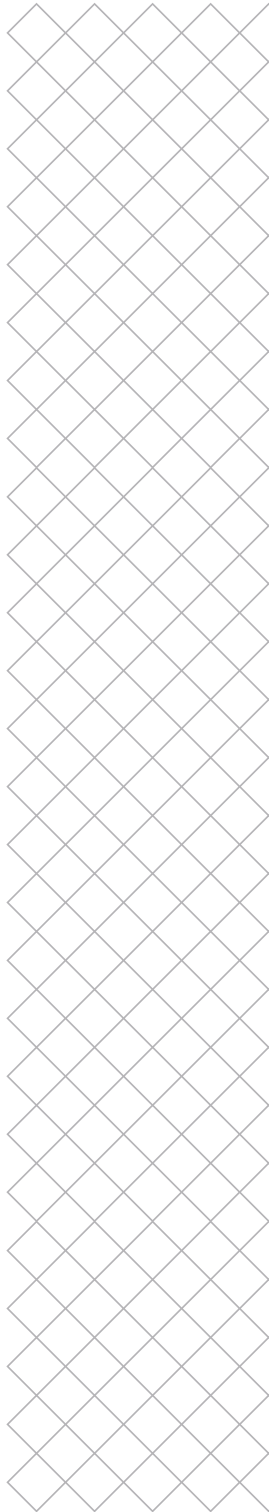
Stepper motor cable L340

Motor cable with length 340 mm, used for
the feeder motor

216073   Stepper motor cable L160

Stepper motor cable L160

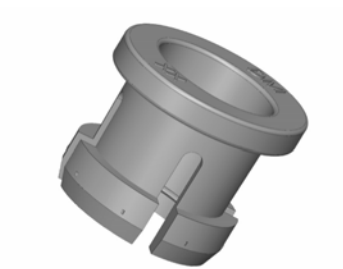Motor cable with length 490 mm, used for the Z motor

Print head

1065   Print head bearing 6 mm
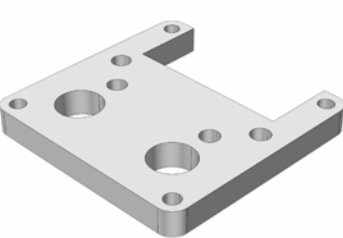Lineair Bearing LMUW6

Linear bearing with 6 mm inner diameter used in the Ultimaker 2+ Connect print head

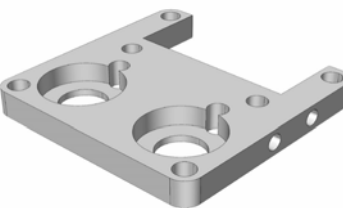### 1069   Tube coupling collet
Tube Coupling Collet

Collet with small metal blades to keep the Bowden tube in position in the feeder and print head

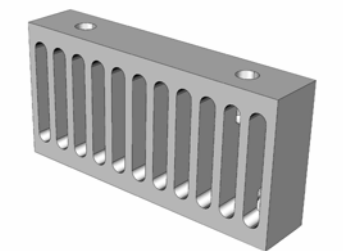### 1306   Hot end holder bottom
Hot end Holder Bottom

Bottom aluminum part of the Ultimaker 2+ Connect print head

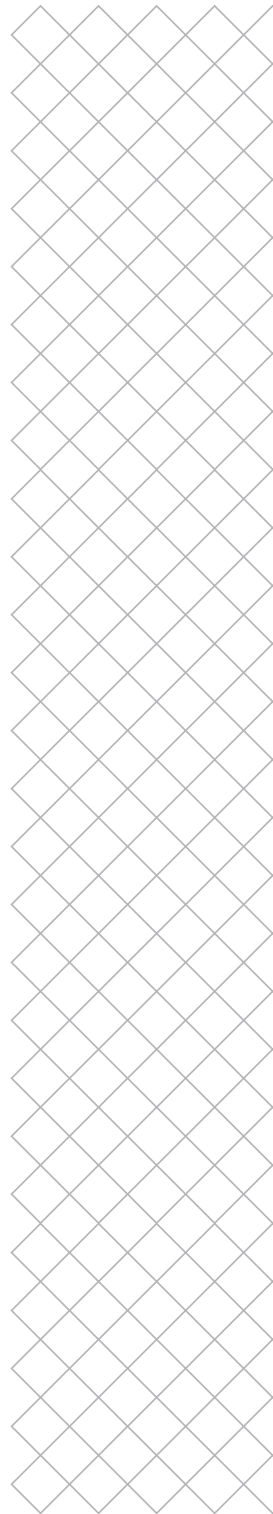### 1307   Hot end holder top
Hot end Holder Top

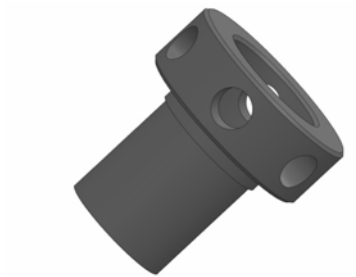Top aluminum part of the Ultimaker 2+ Connect print head

1308   Cooling rib hot end
Cooling Rib Hot End

Aluminum rib at the back of the Ultimaker 2+ Connect print head

Print head

1310　Hot end isolator
Hot End Isolator

Metal hot end isolator which screws into the heater block

1313　Side fan
Model Cooling Fan 12VDC 0.1A

12 V model cooling fan. The Ultimaker 2+ Connect print head has one on each side

1326　Warning sticker - Hot surface
Warning Sticker

ISO 7010 W017 icon. This sticker is placed on the fan bracket of the Ultimaker 2+ Connect

1330　Hot end cooling fan
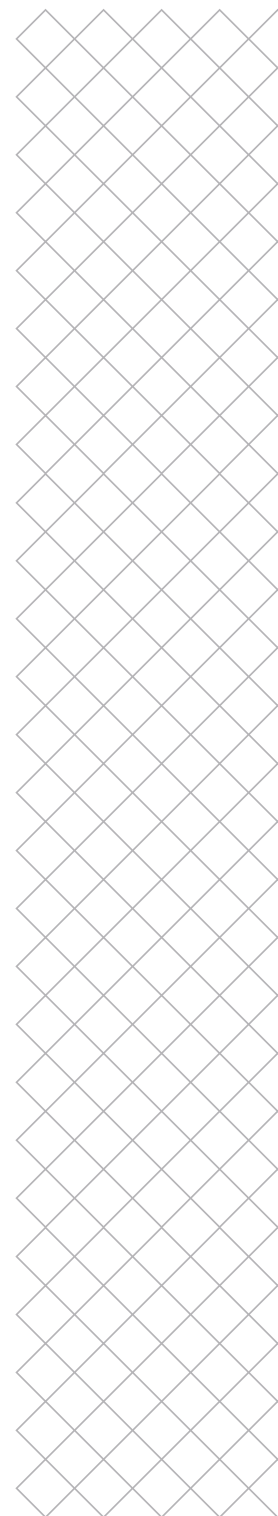Hot-end Cooling Fan 5VDC 0.008A

Small 5 V fan at the back of the print head to cool the hot end during printing

2137　Clamp clip
Clamp Clip White

Small plastic clip placed around the tube coupling collet (1069) to secure the Bowden tube in place

Print head

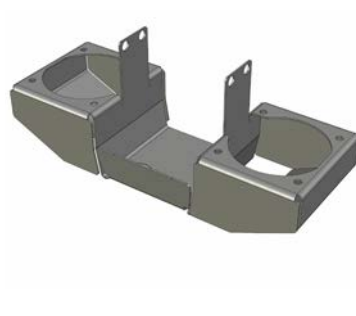### 2275   Isolator spacer 9.4mm
Isolator Spacer 9.4mm

Metal spacer of fixed width above the hot end

2278   TFM isolator coupler
TFM Isolator Coupler

Coupler of TFM material in the hot end, placed between the isolator spacer (2275) and hot end isolator (1310)

2284   Fan bracket
Fan Bracket

Metal dual fan bracket that holds the side fans and closes the bottom of the print head

217665   Print head cable
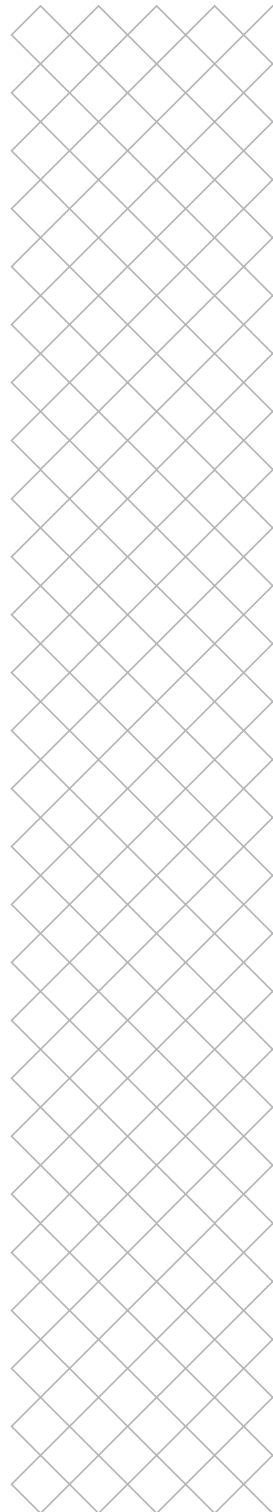UM2+ Connect Printhead cable

Collection of the fan cables in a white braided sleeve

217815   PT100 sensor L1160
PT100 with housing and cable L1160

PT100 temperature sensor for accurately measuring the nozzle temperature, length 1160 mm
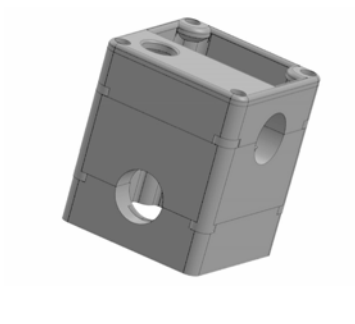
Print head

217822   Heater cable L1000

Heater with cable L1000

35 W heater cartridge to heat up the nozzle, with a cable length of 1000 mm

220486   Print head housing

Print head housing

Set of the three white plastic pieces of the print head housing, containing top, middle, and bottom

225864   Print head assembly

Printhead UM2+ Connect for service

Complete print head assembly for the Ultimaker 2+ Connect, excluding Bowden tube, tube coupling collet and clamp clip (226572)

225874   Heater block assembly
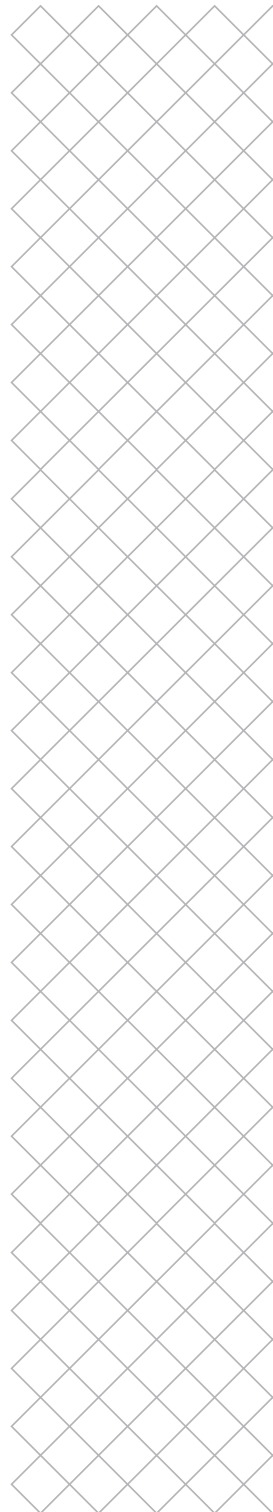
Heaterblock assembly for service

Assembly of the heater block, nozzle ring, and M3x16 bolt. Does not include nozzle
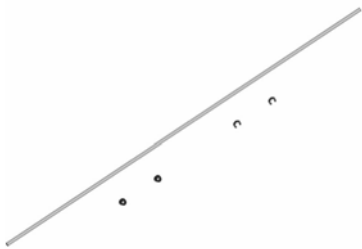
226571   Print head cable clip 5x

Braided sleeve clip (5x) Service assembly

Set of 5 white plastic clips to connect the Bowden tube to the print head cable

Print head

226572   Bowden pack L705 marked
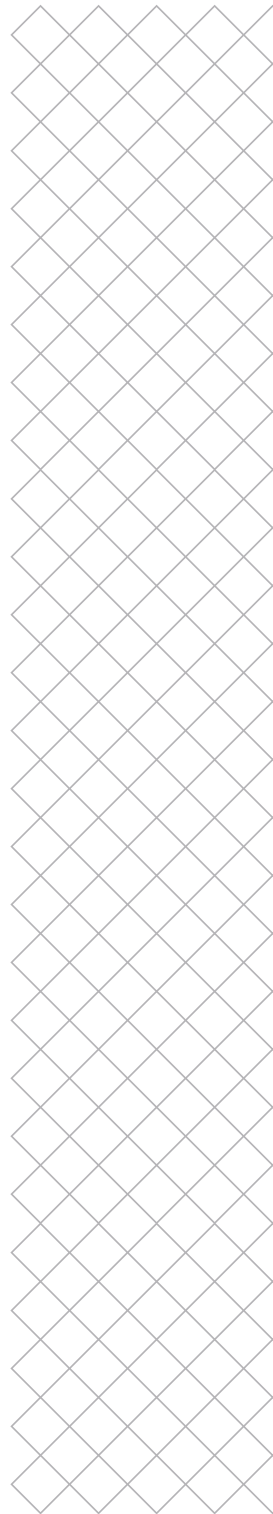Bowden pack L705 with collets & clips for service

Set of one Bowden tube with chamfer and marking, two tube coupling collets (1069) and two clamp clips (2137)
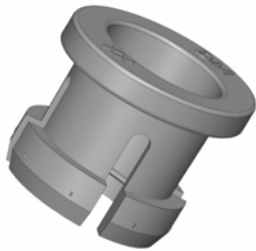
226573   Print head screws M3x70 4x
DIN 912 M3x70 (4x) for service

Set of four M3x70 screws for the print head

Feeder

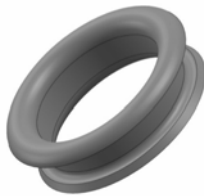### 1069   Tube coupling collet

Tube Coupling Collet

Collet with small metal blades to keep the Bowden tube in position in the feeder and print head

2137   Clamp clip

Clamp Clip White

Small plastic clip placed around the tube coupling collet (1069) to secure the Bowden tube in place
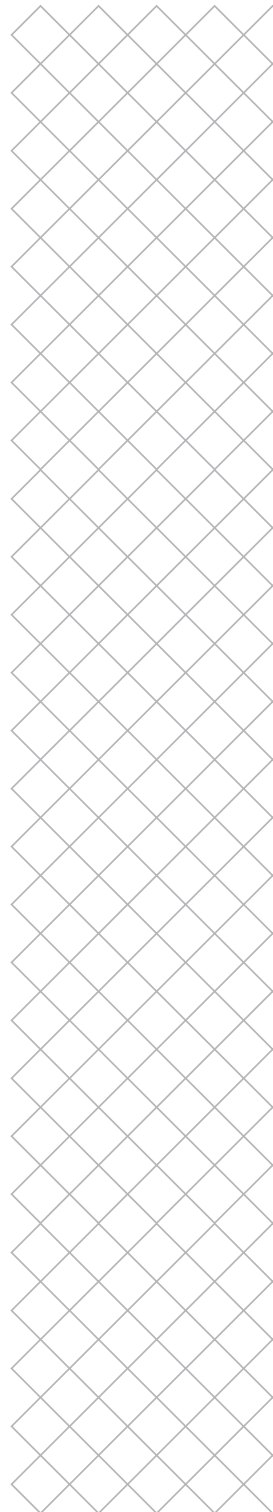
2209   Feeder ring

Feeder ring

Metal ring at the bottom of the feeder to allow frictionless entry of the filament, without causing wear to the plastic feeder housing
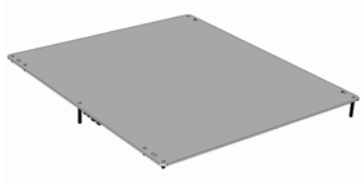
225870   Feeder assembly

Feeder Left for service

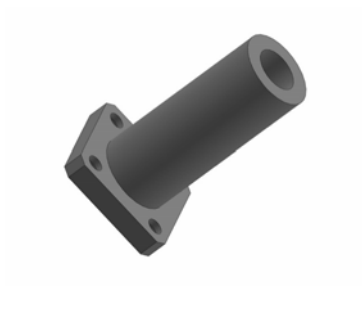Complete feeder assembly for the Ultimaker 2+ Connect

Z stage

1155   Heated bed
Print table heated bed assembled

Heated build plate for the Ultimaker 2+ Connect with integrated bolts and cable connector

1170   Square flanged linear bearing
Square Flanged Linear bearing LHFSW12

Square flanged linear bearing with 12 mm inner diameter for the Ultimaker 2+ Connect Z stage

1187   Trapezoidal lead nut
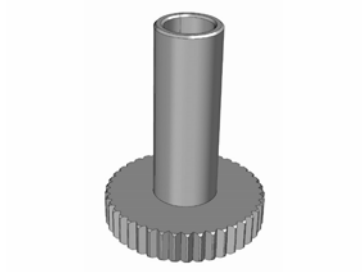Trapezoidal Lead Nut

Lead to which matches the Z motor's trapezoidal lead screw to enable vertical motion of the Z stage

1256   Build plate clamp back
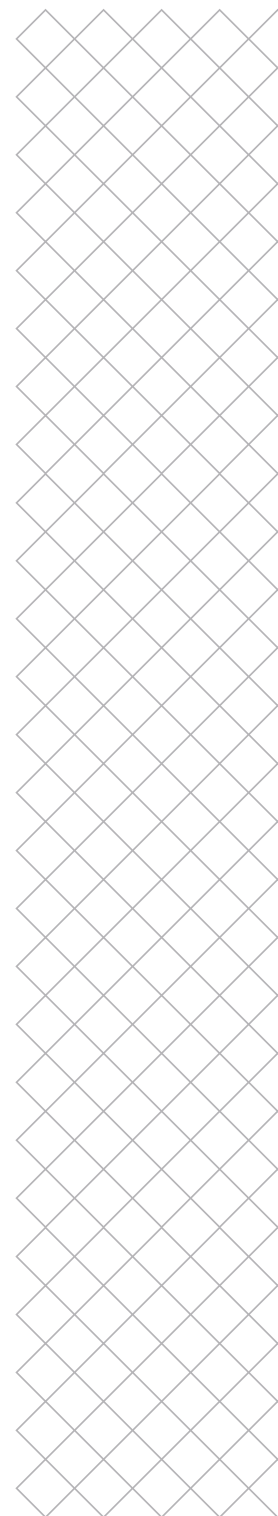Build platform glass retainer

Sheet metal build plate clamp for at the back of the build plate

1776   Thumb wheel
Knurled nut print bed

Knurled thumb wheel used to secure and adjust the Ultimaker 2+ Connect build plate
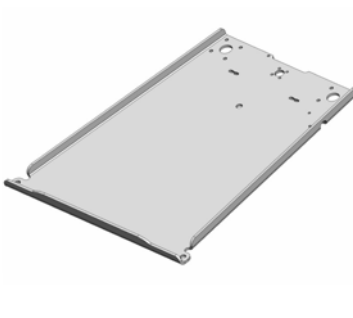
Z stage

1788   Spring 8x22

Spring 8x22

Spring placed around the heated bed bolts used for adjusting the build plate position

1952   Print table base plate

Print Table Base Plate

Curved metal base plate of the Z stage

1953   Heated bed cable clip

Cable Clip

White plastic clip attached to the base plate (1952) to keep the heated bed cable (216195) in place

1987   Build plate clamp front-left
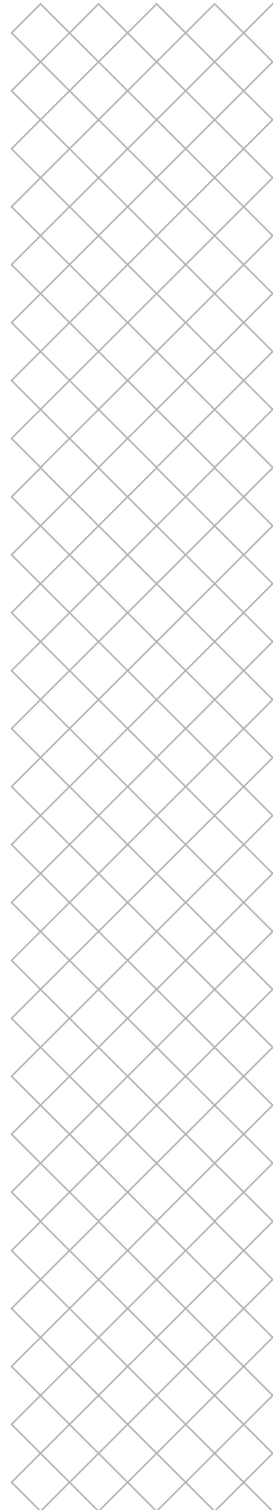
Table Clip Front-Left

Sheet metal build plate clamp for at the front-left side of the build plate, with lip for easy opening
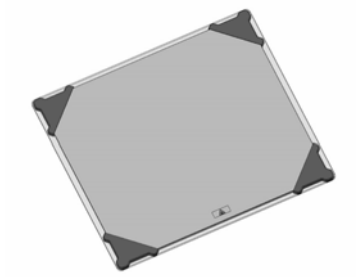
1988   Build plate clamp front-right

Table Clip Front-Right

Sheet metal build plate clamp for at the front-right side of the build plate, with lip for easy opening

Z stage

214421   Glass plate
Packaged glass plate

Glass build plate for the Ultimaker 2+ Connect
with protective corners

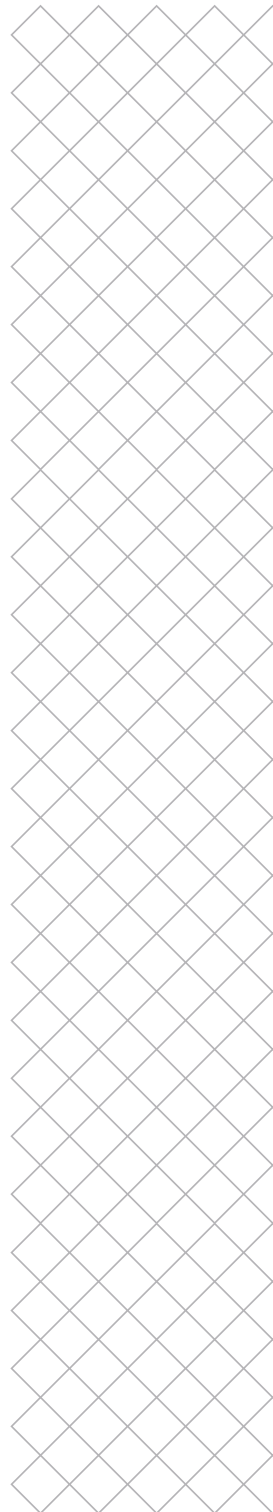### 215694   Print table back cover
Print table back cover

Plastic cover over the bearings at the back of the
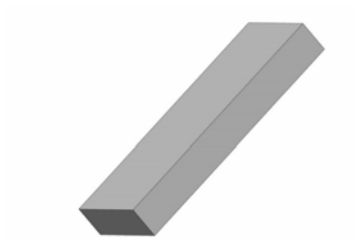Ultimaker 2+ Connect Z stage

216195   Heated bed cable L930
Heated bed cable L930

Bundled cable of the heated bed temperature sensor
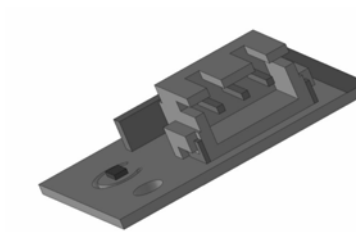and heater wires in a white braided sleeve

Electronics

2501   Thermal conductive pad

Thermal Conductive Pad

Rectangular thermal conductive pad for under the mainboard (224502)
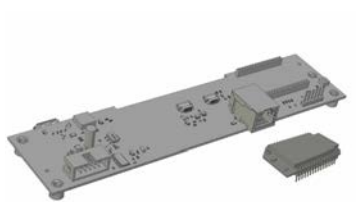
214682   Air Manager sensor

Sensors PCB

Sensor PCB at the back of the Ultimaker 2+ Connect for detecting Air Manager presence

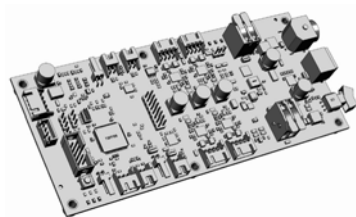### 215783   Touchscreen display

Screen 2,4" with coverglass

2.4" touchscreen display with flatcables and adhesive at the back

221542   Connectivity board

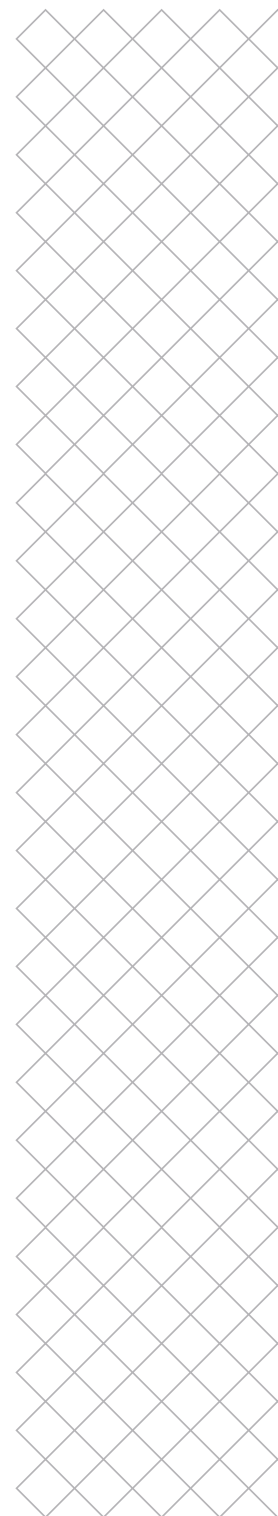Connectivity board UM2+ Connect

Connectivity board with USB port, display connectors, and Onion connectivity module

224502   Mainboard

Mainboard UM2+ Connect

Motion controller board for the Ultimaker 2+ Connect

Cables

3247   Ethernet cable internal
Ethernet Cable Panel Mount

Internal Ethernet cable between the LAN port at the back of the printer and the connectivity board (221542)

214620   Stepper motor cable L490
Stepper motor cable L490

Motor cable with length 490 mm, used for the Y motor

214623   Stepper motor cable L670
Stepper motor cable L670

Motor cable with length 670 mm, used for the X motor

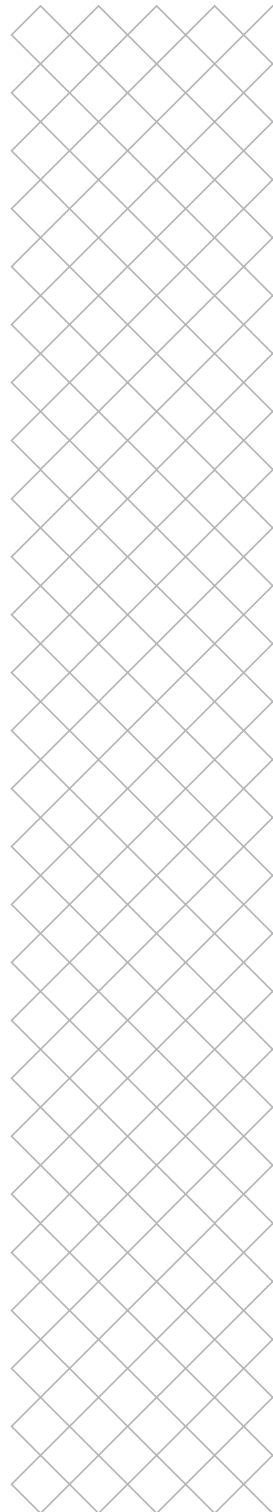### 216062   Stepper motor cable L340
Stepper motor cable L340

Motor cable with length 340 mm, used for the feeder motor

216073   Stepper motor cable L160
Stepper motor cable L160

Motor cable with length 490 mm, used for the Z motor

Cables

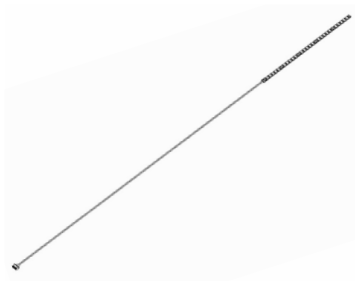### 216066   Limit switch X L530
Limit switch X L530

Limit switch for the X direction with 530 mm white
cable and blue shrink sleeve

216068   Limit switch Y L710
Limit switch Y L710

Limit switch for the Y direction with 710 mm white
cable and red shrink sleeve

216070   LED strip L250
White LED strip L250 with cable L725

White single LED strip 250 mm wide
with 725 mm cable

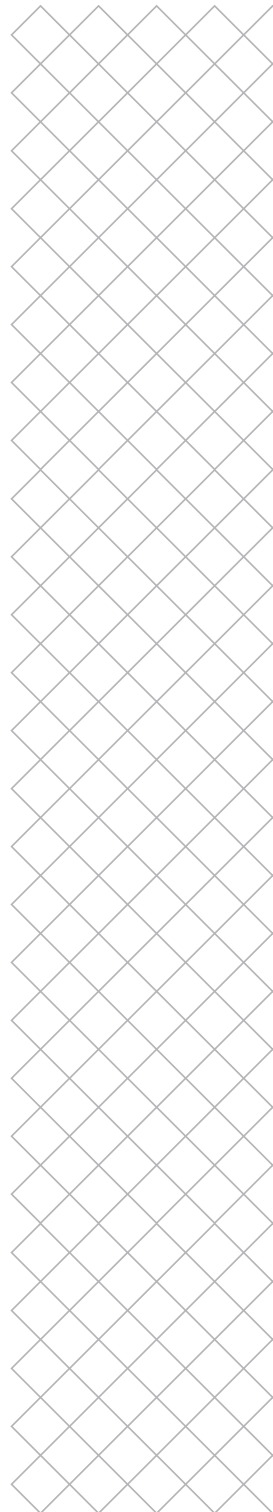### 216160   Air Manager sensor cable L645
Sensor cable L645

Cable to connect the Air Manager sensor PCB (214682)
to the mainboard (224502)

216195   Heated bed cable L930
Heated bed cable L930

Bundled cable of the heated bed temperature sensor
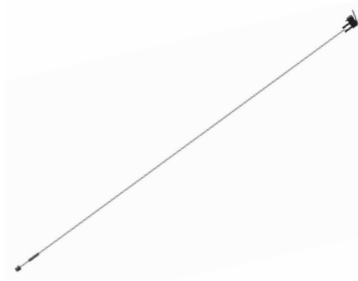and heater wires in a white braided sleeve

Cables

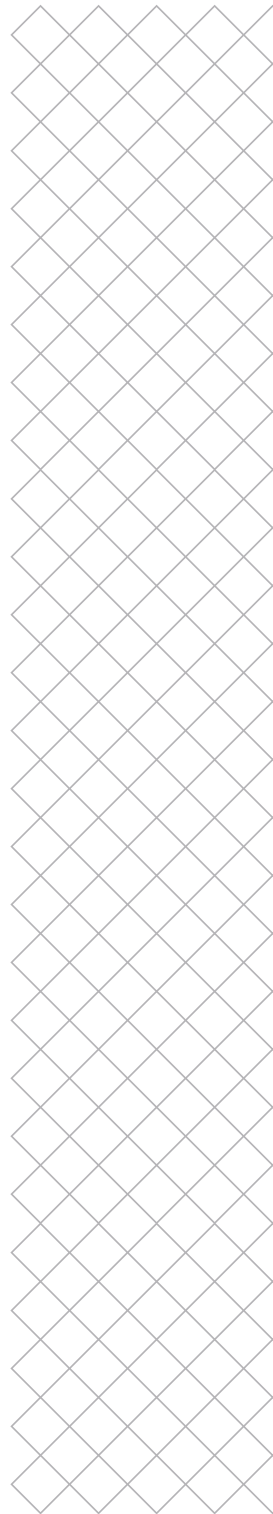### 216508   Ribbon cable L160
Ribbon cable 10pin L160

Single 10 pin ribbon cable 160 mm long between the connectivity board (221542) and mainboard (224502)

217285   Limit switch Z L200
Limit switch Z L200

Limit switch for the Z direction with 200 mm white cable and black shrink sleeve

Nuts & bolts

1200   M3x8 bolt
ISO 7380 M3X8

Hexagon socket (2 mm) button head bolt M3x8

1202   M3x10 bolt
ISO 7380 M3x10

Hexagon socket (2 mm) button head bolt M3x10

1203   M3x12 bolt
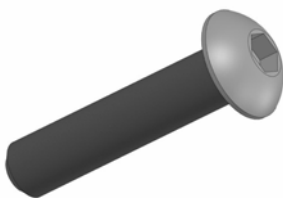ISO 7380 M3x12

Hexagon socket (2 mm) button head bolt M3x12
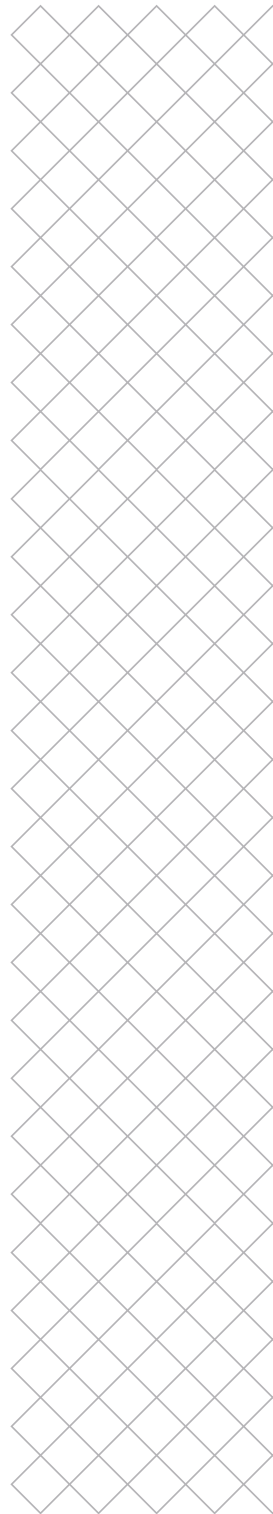
1204   M3x16 bolt
ISO 7380 M3x16

Hexagon socket (2 mm) button head bolt M3x16

1205   M3x14 bolt
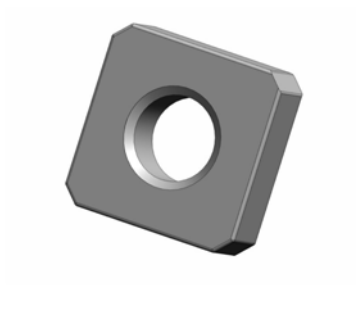ISO 7380 M3x14

Hexagon socket (2 mm) button head bolt M3x14

Nuts & bolts

1206   M3x20 bolt
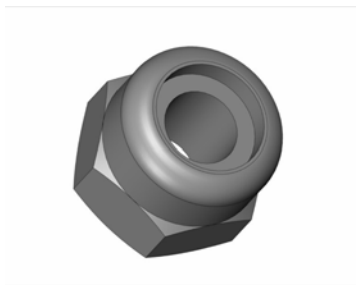ISO 7380 M3x20

Hexagon socket (2 mm) button head bolt M3x20

1213   Square nut M3
DIN 562 Square Nut M3 A2

Square M3 nut used in the Ultimaker
2+ Connect frame

1214   Lock nut M3
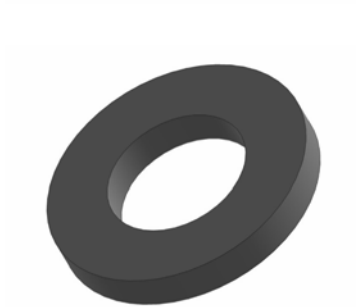Prevailing torque nut M3 ISO 7040

Hexagon M3 lock nut with plastic insert used on e.g.
the heated build plate

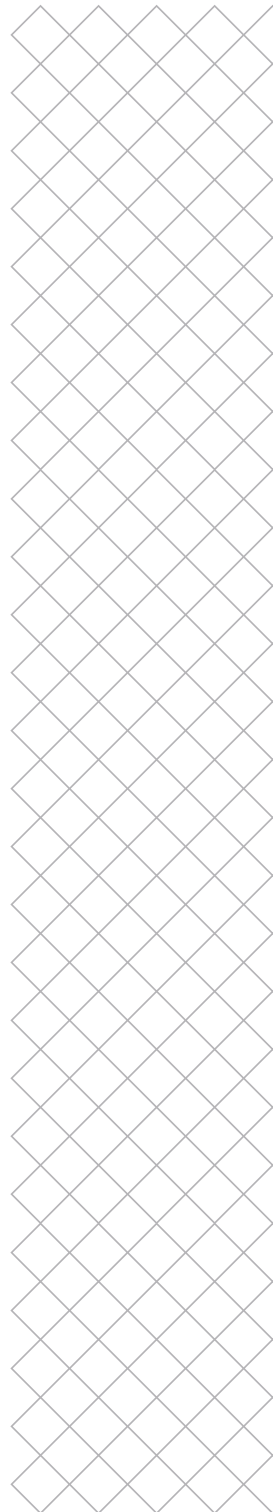### 1217   M4x10 bolt
ISO 7380 M4x10

Hexagon socket (2.5 mm) button head bolt M4x10,
used on the square flanged bearings (1170)

1288   Washer M6
Washer M6

Stainless steel M6 washer used on the Ultimaker 2+
Connect Z stage around the thumb wheels (1776)

Nuts & bolts
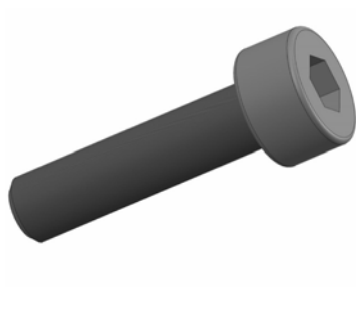
1292   M3x6 bolt

DIN 7380 M3x6

Hexagon socket (2 mm) button head bolt M3x6

1348   M3x4 bolt
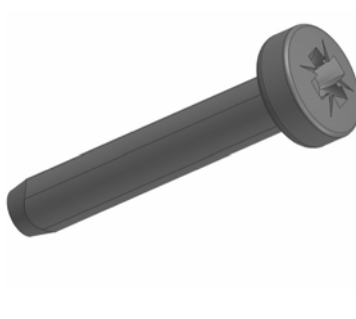
ISO 7380 M3x4 A2

Hexagon socket (2 mm) button head bolt M3x4

1351   M2.5x10 bolt
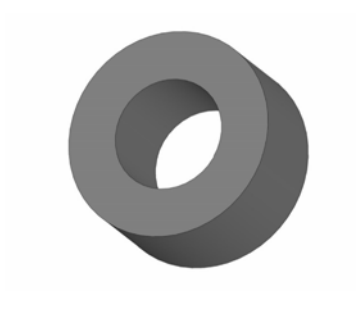
ISO 4762 M2.5x10

Hexagon socket (2 mm) cylinder head bolt M2.5x10

1362   M2.5x14 screw (PZ1)

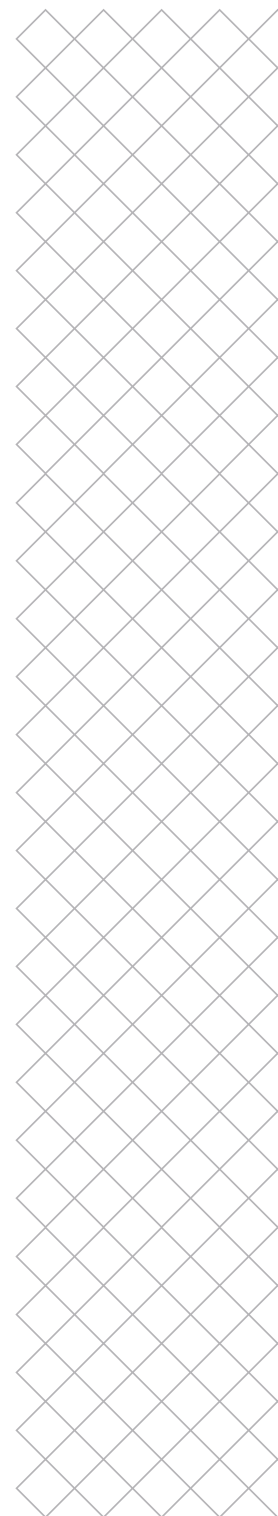Tap Fix 2.5x14 mm staal verzinkt bolkop porzidrive

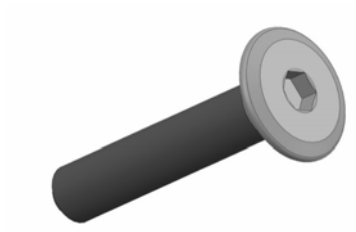Thread forming screw for plastic with PZ1 head, used on the side fans (1313)

1545   Spacer 3.2x6x3

Spacer 3.2x6x3

Plastic spacer 3 mm thick, used behind the Z limit switch (217285)

Nuts & bolts

201205   M3x16 flathead bolt

Flat head M3X16

Custom hexagon socket (2 mm) flat head bolt M3x16

201321   M3x10 flathead bolt

Flat Head M3X10
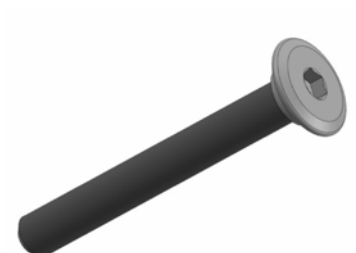
Custom hexagon socket (2 mm) flat head bolt M3x10

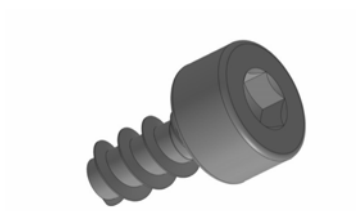**201390   M3x12 flathead bolt**

Flat head M3X12

Custom hexagon socket (2 mm) flat head bolt M3x12

212958   M3x24.2 flathead bolt

Flat head M3X24,2

Custom hexagon socket (2 mm) flat head bolt M3x24.2

215150   Thread-forming screw M2.5x5

Hex socket head plastic screw 2,5 x 5

Thread forming M2.5x5 screw for plastic with hexagon socket (2 mm) cylinder head