

# ***DELTA***

## ***WASP 2040***



***INDUSTRIAL***  
***LINE 4.0***



# DELTA WASP 2040 INDUSTRIAL 4.0

Realizza velocemente stampe con i materiali tecnici più robusti con la stampante 3D professionale Delta WASP 2040 Industrial 4.0. Grazie al nuovo sistema di camera calda con meccanica raffreddata stampare materiali tecnici è ancora più facile.

Create quickly prints with the strongest technical materials with professional 3D printer Delta WASP 2040 Industrial 4.0. With the new system with hot chamber and cold mechanics printing technical materials it's even easier.

La Delta WASP 2040 Industrial 4.0 è la stampante 3D ottimizzata per la stampa di materiali tecnici.

Delta WASP 2040 Industrial 4.0 is the 3D printer optimized for printing technical materials.

## DESCRIZIONE PRODOTTO

Delta WASP 2040 Industrial 4.0 è realizzata in metallo, con cinghie indeformabili caricate in acciaio, coibentata per l'isolamento termico e dei rumori.

Un innovativo sistema di camera controllata fino a 80° e raffreddamento della meccanica "Hot and Cold Technology", consente la stampa ottimale di materiali tecnici.

L'avanzamento tecnologico di WASP ha permesso di poter configurare la stampante in base alle esigenze dell'utente. Passare da estrusore singolo "SPITFIRE EXTRUDER" per stampe veloci a estrusore doppio "ZEN EXTRUDER" per stampe multimateriale a "FLEX EXTRUDER" per stampare materiali morbidi (fino shore 50A) richiede pochi minuti.

Delta wasp 2040 Industrial 4.0 può essere connessa alla rete e quindi gestire la stampante direttamente tramite cellulare, tablet o computer.

All'interno della stampante è stata inserita una fotocamera per monitorare la stampa anche se situati altrove.

## PRODUCT DESCRIPTION

*Delta WASP 2040 Industrial is manufactured in metal with strong steel cored belts and features a thermal and acoustic insulation.*

*"Hot and Cold technology" allows the control of room temperature up to 70°C and cools down the mechanics making the print of technical materials easier.*

*Switching the single extruder "SPITFIRE EXTRUDER" for fast prints with double extruder "ZEN EXTRUDER" for multi-material printing or with "FLEX EXTRUDER" for printing flexible materials (up to shore 50A) just takes few minutes.*

*Delta wasp 2040 Industrial 4.0 can be connected to Wi-fi network so that you can manage your printer from smartphone, tablet or PC.*

*Inside the printer there's now a camera for monitoring the print even from remote.*

# DETTAGLI TECNICI

## INFORMAZIONI DI STAMPA 3D

Massimo volume di stampa: Ø200 x h 400 mm  
Altezza minima del layer: 50 micron  
Massima velocità di stampa(\*): 500 mm/s  
Massima velocità di spostamento(\*): 800 mm/s  
Accelerazione(\*): 15.000 mm/s<sup>2</sup>  
Piano di stampa: riscaldato fino a 120 C°  
Camera di stampa controllata: riscaldata fino 80°C  
Diametro ugello di serie: Spitfire Rosso  
con cartuccia LT con ugello diametro 0,4 mm

\* Tutti i dati relativi alle velocità si riferiscono alla Delta WASP 2040 industrial 4.0 configurata con estrusore Spitfire 0.4

## MATERIALI

Filamenti utilizzabili

Ø1.75 con "SPITFIRE EXTRUDER" e "ZEN EXTRUDER"  
Ø2.85 con "FLEX EXTRUDER"

ASA  
ABS  
HIGH-IMPACT PS  
PETG  
TPU  
TPE  
POLYPROPYLENE  
POLYCARBONATE  
PC+ABS  
PPS  
PMMA  
PVA  
PA  
PA carbon  
PLA

## TOOL CONFIGURABILI

SPITFIRE EXTRUDER: estrusore per stampe veloci e di alta qualità. Diametro ugello: 0.4 mm (filamento diametro 1.75 mm)

ZEN EXTRUDER: doppio estrusore per stampe multicolore o multimateriale. Diametro ugello: 0.4 mm, 0.7 mm, 1.2 mm (filamento diametro 1.75 mm)

FLEX EXTRUDER: estrusore direct drive per materiali flessibili fino a 50 shore A. Diametro ugello: 0.4 mm (filamento diametro 3 mm)

## SOFTWARE

Sistemi operativi: Windows, Mac, Linux  
Software di slicing: compatibile con tutti i software di slicing (Cura – SLic3r – Simplify3D®)  
Tipo di file: .stl, .obj, .gcode

# TECHNICAL DETAILS

## INFORMATION ON 3D PRINTING

Build volume: Ø200 x h 400 mm  
Heated active chamber: heated up to 80°C  
Minimum layer height: 50 micron  
Print speed max(\*): 500 mm/s  
Travel speed max(\*): 800 mm/s  
Acceleration(\*): 15.000 mm/s<sup>2</sup>  
Bed temperature max: 120 C°  
Nozzle diameter standard: Spitfire Rosso  
with LT cartridge, nozzle 0,4 mm

\* All data relative to speed make reference to a Delta WASP 2040 Industrial 4.0 with Spitfire extruder 0.4

## MATERIALS

Suitable filaments

Ø1.75 with "SPITFIRE EXTRUDER" e "ZEN EXTRUDER"  
Ø2.85 with "FLEX EXTRUDER"

ASA  
ABS  
HIGH-IMPACT PS  
PETG  
TPU  
TPE  
POLYPROPYLENE  
POLYCARBONATE  
PC+ABS  
PPS  
PMMA  
PVA  
PA  
PA carbon  
PLA

## SUITABLE TOOLS

SPITFIRE EXTRUDER: extruder for fast and high-quality prints. Nozzle diameter: 0.4 mm (filament diameter 1.75 mm)

ZEN EXTRUDER: double extruder for multicolor or multimaterial prints. Nozzle diameter: 0.4 mm, 0.7 mm, 1.2 mm (filament diameter 1.75 mm)

FLEX EXTRUDER: direct driven extruder for flexible material up to 50 shore A. Nozzle diameter: 0.4 mm (filament diameter 3 mm)

## SOFTWARE

Operative system: Windows, Mac, Linux  
Slicing software: compatible with all slicing softwares (Cura – SLic3r – Simplify3D®)  
File type: .stl, .obj, .gcode

## INTERFACCIA

Pendrivel USB  
Wifi network  
Schermo TFT touch

## DIMENSIONI FISICHE

Dimensioni: 49 cm x 44 cm x 87 cm  
Peso macchina: 30 kg  
Dimensioni per spedizione con imballo  
in cassa di legno: 65 cm x 65 cm x 107 cm, peso 60kg

## ALIMENTAZIONE

Input: 220/240 V 50/60 Hz  
Potenza assorbita:  
- Estrusore Spitfire: 600W max / 150W mid  
(per circa 15')  
- Piano Riscaldato: 1000W max / 500W max 260 C°  
- Drivers: piccolo 750W / medio 300W

## TEMPERATURA

Ambiente d'utilizzo: 20-30° C  
Magazzino: 0-30° C

## MECCANICA

Telaio e copertura:  
alluminio, acciaio verniciato, policarbonato, PU.  
Carterature in metallo, azzerano le vibrazioni della  
macchina, garantisce maggiore  
precisione di stampa.

Piano di stampa:  
Alluminio rettificato

Movimenti:  
ruote in nylon su profili in alluminio anodizzato  
cinghie in delrin con anima in acciaio inox resistenti alle  
alte temperature

Isolamento:  
schiuma in materiale isolante termo-acustico

Motori:  
Stepper

## INNOVAZIONI TECNICHE

Hot and Cold technology: camera di lavoro riscaldata e  
meccanica raffreddata

WIFI: macchina in rete monitorare e controllare la  
macchina

Nuova GUI: interfaccia rinnovata tattile con display TFT

Camera on-board: per il monitoraggio e timelapse

Assistenza remota: i tecnici WASP possono intervenire  
direttamente sulla tua scheda in caso di problemi

## INTERFACE

Pendrivel USB  
Wifi network  
Display TFT touch

## PHYSICAL DIMENSION

Dimensions: 49 cm x 44 cm x 87 cm  
Machine weight: 90 kg  
Dimensions and weight for the packaging:  
65 cm x 65 cm x 107 cm, weight 60kg

## POWER SUPPLY

Input: 220/240 V 50/60 Hz  
Power rating:  
- Spitfire extruder: Spitfire: 600W max / 150W mid  
(for around 15')  
- Hot pad: max 1000W / mid 500W max 260 C°  
- Drivers: max 750W / average 300W

## TEMPERATURE

Use: 20-30° C  
Warehouse: 0-30° C

## MECHANICS

Frame and cover:  
aluminum, painted steel, polycarbonate, PU.  
metal carters, defeats machine's vibrations, allows a  
more precise machine

Bed:  
rectified aluminum

Movements:  
nylon wheels on anodized aluminum sliders  
steel cored belts in delrin resistant to high temperature

Insulation:  
expanded polymer for thermal and acoustic insulation

Motori:  
Stepper

## TECHNICAL INNOVATION

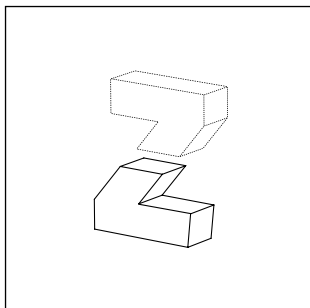
Hot and Cold technology: heated chamber and  
active cooling  
WIFI: machine connected to the network  
for monitoring and control

New GUI: new touch interface with bigger TFT display

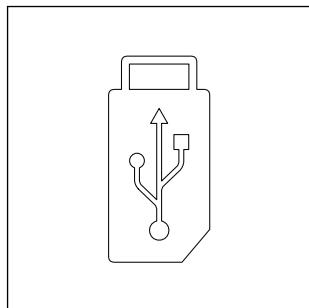
Camera on-board:  
for monitoring and timelapse

Remote intervention: WASP technicians can work  
from remote on your board in case of issues

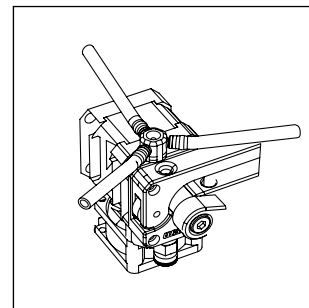
# INDUSTRIAL 4.0 FEATURES



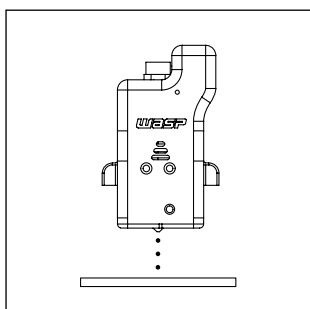
**FREE-ZETA  
SYSTEM**



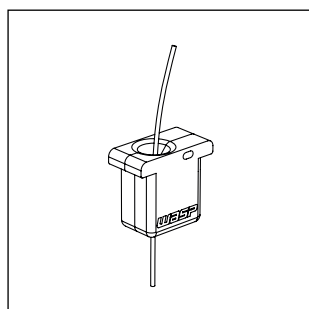
**PRINT  
VIA USB**



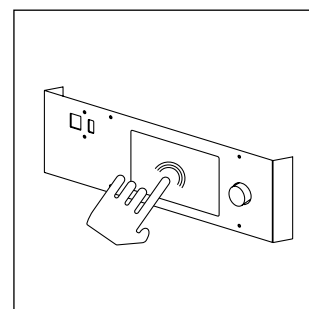
**EXCLUSIVE SUSPENDED  
BOWDEN CC**



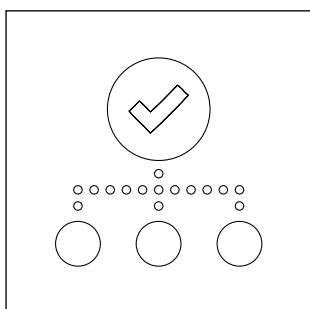
**SELF-CALIBRATION  
SYSTEM**



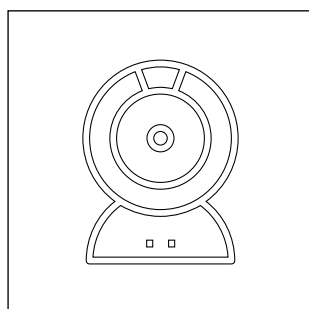
**END-MATERIAL  
SENSOR**



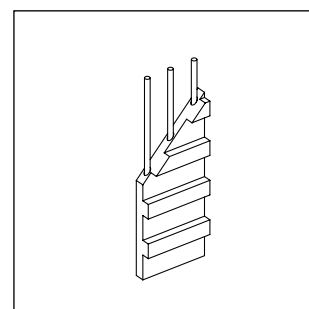
**IMPROVED  
USER INTERFACE**



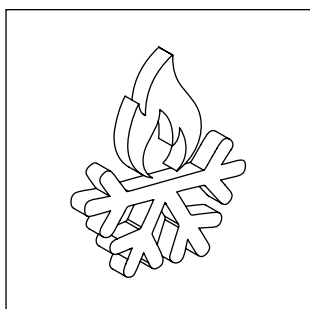
**MULTICORE AUTOMATIC  
EXTRUDER RECOGNITION**



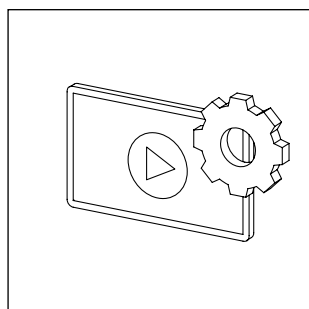
**LIVE VIEW  
CAMERA**



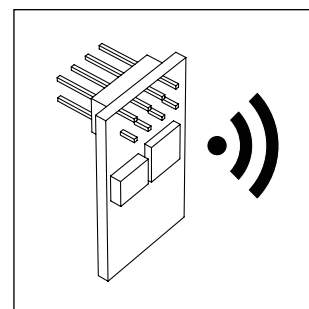
**STEEL CORED BELTS  
FOR HIGH TEMPER**



**HOT & COLD  
TECHNOLOGY**



**VIDEO TUTORIAL  
ON BOARD**



**WIFI MODULE FOR  
REMOTE CONTROL**

# **WORLD'S ADVANCED SAVING PROJECT**



**INFO**  
[info@3dwasp.com](mailto:info@3dwasp.com)

**Tel.**  
**+39 0545 87858**

**WEBSITE**  
[www.3dwasp.com](http://www.3dwasp.com)

**YOUTUBE**  
**3D WASP**

**TWITTER**  
**3dwasp**

**FACEBOOK**  
**3dwasp**

Totally developed and made in Italy  
CSP s.r.l. | Viale Zaganelli 26, Massa Lombarda 48024  
P.iva IT02108930393

