

TIJ PRINTERS COMPARISONS

| | W1000 | W1020 | B1040 | U2 DIEZEL | X1JET | MICRON | ELFIN IC | U2 SMART |
|-----------------|---|---|--|---|---|---|---|---|
| FEATURES |  |  |  |  |  |  |  |  |

| HARDWARE DESIGN | MECHANICAL DESIGN | | | | | | | | | |
|-----------------------------------|---------------------------------------|---|---|---|--|---------------------------------------|--|---------------------------------------|--|--|
| | DIMENSION (LxWxH) | 106 x 53 x 83 mm 4.17 x 2.09 x 3.27 " | 106 x 53 x 83 mm 4.17 x 2.09 x 3.27 " | 107.5 x 74.5 x 83 mm 4.23 x 2.93 x 3.27 " | 114 x 76 x 60 mm 4.5 x 3.0 x 2.4 " | 122 x 74 x 95 mm 4.8 x 2.9 x 3.7 " | 112 x 72 x 88 mm 4.41 x 2.8 x 3.46 " | 142 x 65 x 98 mm 5.6 x 2.6 x 3.9 " | 114 x 76 x 60 mm 4.5 x 3.0 x 2.4 " | |
| | WEIGHT *[1] | 530g ~ 1.16 lb | 450g ~ 0.99 lb | 450g ~ 0.99 lb | 490g ~ 1.08 lb | 550g ~ 1.21 lb | 530g ~ 1.17 lb | < 550g ~ 1.21 lb | 490g ~ 1.08 lb | |
| | MATERIAL | Anodize aluminium | Anodize aluminium | Anodize aluminium | Aluminium | Stainless Steel | Stainless Steel | N/A | N/A | |
| | MOUNTING BRACKETS | YES Horizontal, Vertical | YES Horizontal, Vertical | YES Horizontal, Vertical | YES Horizontal, Vertical | YES Horizontal, Vertical | YES Horizontal, Vertical | YES Horizontal, Vertical | YES Horizontal, Vertical | |
| | SKID PLATE | LEFT OR RIGHT | LEFT OR RIGHT | LEFT AND RIGHT | NO | LEFT AND RIGHT | LEFT AND RIGHT | NO | NO | |
| | ANTI-SHOCK | YES | YES | YES | YES | NO | NO | YES (Optional) | YES | |
| | ELECTRONICAL DESIGN | | | | | | | | | |
| | DISPLAY | 16x2 characters LCD | 2.8" 256K colors LCD Auto rotation LCD backlight | 2.8" 256K colors LCD Auto rotation LCD backlight | 3.5" colors LCD | NO | NO | 5.0" colors LCD touch screen | 3.5 colors LCD with LED backlight | |
| | INDICATOR LED | 2 Sensor, Power | 5 Sensor, Error, Wi-Fi/PC, Print, Ink low | 4 Sensor, Alarm, Bluetooth, Print | 5 Alarm, Ink low, Print, Run, Remote On/Off | 4 Sensor, Alarm, Ink, Connect | 6 N/A | NO | 5 Alarm, Ink low, Print, Run, Remote ON/OFF | |
| POWER SUPPLY | AC 100-240V 50/60Hz 1.0A 30W | AC 100-240V 50/60Hz 1.4A 48W | AC 100-240V 50/60Hz 1.4A 48W | AC 100-240V 50/60Hz 1.6A 60W | DC 12V | DC 15V | AC 90-240V 50/60Hz 60W | AC 100-240V 50/60 Hz, 1.6A 60W | | |
| BUILD IN ADJUSTABLE SENSOR | YES | YES ADJUSTABLE: YES | YES ADJUSTABLE: YES | YES ADJUSTABLE: N/A | YES ADJUSTABLE: NO | YES ADJUSTABLE: NO | YES ADJUSTABLE: NO | YES ADJUSTABLE: N/A | | |
| EXTENDED PORT | 1 Ethernet Alarm beacon | 1 DP15 Encoder, Sensor, Alarm, PLC | 1 DP15 Encoder, Sensor, Alarm, PLC | 1 DP15 Encoder, Sensor, Alarm | 2 EIA 232, Ethernet Encoder, Sensor, PC | 2 SUB D9 Encoder, I/O | 3 Ethernet, RS232 External data, Encoder, Sensor | 1 DP15 Encoder, Sensor, Alarm | | |
| WIRELESS TECHNOLOGIES | YES Wi-Fi | YES Wi-Fi | YES Bluetooth | YES IR, Wi-Fi | NO | NO | NO | YES IR, Wi-Fi | | |
| HI-SPEED USB 2.0 PORT | 1 Keyboard | 3 Keyboard, USB flash PC connection | 3 Keyboard, USB flash PC connection | 1 Keyboard, USB flash | 1 USB flash | 1 USB flash | 1 USB flash | 1 Keyboard, USB flash | | |

| INK SOLUTION | INK, CARTRIDGE, BULK AND INK FEEDER | | | | | | | | | |
|---------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | POROUS MEDIA | YES | YES | YES | YES | YES | YES | YES | YES | |
| | SEMI-POROUS MEDIA | YES | YES | YES | YES | YES | YES | YES | YES | |
| | NON-POROUS MEDIA | YES | YES | YES | YES | NO | YES | YES | YES | |
| | INK BULK 400 ML | YES | YES | YES | YES | NO | NO | YES | YES | |
| | INK BULK 800 ML | YES | YES | YES | NO | NO | NO | NO | NO | |
| | INK DELIVERY SYSTEM | YES | YES | YES | NO | NO | NO | NO | NO | |
| | INTELLIGENT FEATURES | | | | | | | | | |
| | AUTOMATIC INK IDENTIFICATION | YES | YES | YES | YES | YES | YES | YES | YES | |
| | AUTOMATIC INK CLEANING | YES | YES | YES | NO | NO | NO | NO | NO | |
| HOT-SWAP CARTRIDGE | NO | YES | YES | YES | NO | N/A | NO | YES | | |
| NOZZLE SWITCHING | YES | YES | YES | YES | YES | YES | YES | YES | | |
| INK LOW WARNING | YES | YES | YES | YES | YES | YES | YES | YES | | |
| INK CALCULATOR | YES | YES | YES | N/A | YES | YES | YES | N/A | | |

| PRINTING ABILITY | THROW DISTANCE | up to 6 mm ~ 0.23" | up to 6 mm ~ 0.23" | up to 6 mm ~ 0.23" | up to 6 mm ~ 0.23" | up to 6 mm ~ 0.23" | 0.5 - 2.0 mm 0.02 - 0.08" | up to 6 mm ~ 0.23" | up to 6 mm ~ 0.23" |
|-------------------------|-------------------------------|--|---|---|--|--|---|---|--|
| | RESOLUTION | 300x300 dpi 300x150 dpi 300x100 dpi | 600x600 dpi 600x300 dpi 600x150 dpi 600x100 dpi 300x300 dpi 300x150 dpi 300x100 dpi | 600x600 dpi 600x300 dpi 600x150 dpi 600x100 dpi 300x300 dpi 300x150 dpi 300x100 dpi | 300x300 dpi N/A N/A | 600 dpi | 300 x 300 dpi | 50-600 dpi | 600x600 dpi 600x300 dpi 600x150 dpi 600x100 dpi 300x300 dpi 300x150 dpi |
| | DENSITY LEVELS | 5 | 5 | 5 | N/A | N/A | N/A | N/A | N/A |
| | SPEED | 76 m/min ~ 249.3 f/min at 300x300 dpi | 76 m/min ~ 249.3 f/min at 300x300 dpi | 76 m/min ~ 249.3 f/min at 300x300 dpi | 60 m/min ~ 197 f/min at 300x300 dpi | 90 m/min ~ 295.27 f/min at 300x300 dpi | 76 m/min ~ 249.3 f/min at 300x300 dpi | 60 m/min ~ 197 f/min at 300x300 dpi | 60 m/min ~ 197 f/min at 300x300 dpi |
| | CONTINUOUS PRINTING | YES | YES | YES | YES | YES | YES | NO | YES |
| | SENSOR REPEAT PRINTING | YES | YES | YES | N/A | NO | NO | YES | N/A |
| | PRINT DIRECTION | Left to Right Left to Right mirror Right to Left Right to Left mirror | Left to Right Left to Right mirror Right to Left Right to Left mirror | Left to Right Left to Right mirror Right to Left Right to Left mirror | Left to Right Left to Right rotate- 180 degree Right to Left Right to Left rotate- 180 degree | Left to Right Right to Left | Left to Right Right to Left | Left to Right Right to Left | Left to Right Left to Right rotate- 180 degree Right to Left Right to Left rotate- 180 degree |

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|-------------------------|----------------------------------|---------------------------------------|---------------------------------------|------------|----------------------|----------------------|-----------------|------------|
| STORAGE CAPACITY | 15 Unlimited on Smartphone | 100 Unlimited on Smartphone, PC | 100 Unlimited on Smartphone, PC | 999 N/A | 9 Unlimited on PC | 1 Unlimited on PC | Unlimited on PC | 999 N/A |
|-------------------------|----------------------------------|---------------------------------------|---------------------------------------|------------|----------------------|----------------------|-----------------|------------|

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|-------------------------|---------------------------------|--|--|---|---|---------------------------------------|--------------------------------------|---|---|
| MESSAGES ABILITY | LINES AND HEIGHT | 2 3.8 mm - 2 lines 0.15" 12.7 mm - 1 line 0.5" | 6 1.69 mm - 6 lines 0.06" 2.54 mm - 4 lines 0.10" 3.89 mm - 3 lines 0.15" 5.92 mm - 2 lines 0.23" 12.7 mm - 1 lines 0.5" | 6 1.69 mm - 6 lines 0.06" 2.54 mm - 4 lines 0.10" 3.89 mm - 3 lines 0.15" 5.92 mm - 2 lines 0.23" 8.0 mm - 1 lines 0.31" 12.7 mm - 1 lines 0.5" | 1 10.0 mm or 12.7 mm 0.39" or 0.5" | Template Design 12.5 mm ~ 0.49" | Template Design 12.7 mm ~ 0.5" | 1.0-12.7 mm ~ 0.039-0.5" | 4 2.7mm - 4 lines 0.11" 3.6mm - 3 lines 0.14" 5.5mm - 2 lines 0.22" 8.0mm - 1 line 0.31" 10.0mm - 1 line 0.39" 12.7mm - 1 line 0.5" |
| | FONT | Arial, Time New Roman, Tahoma | Arial (Default) Window True Font (PC application) | Arial (Default) Window True Font | NO | Window True Font PC application | Window True Font PC application | Arial (Default) Window True Font (PC application) | NO |
| | MAXIMUM LENGTH | 0.5 m ~ 19.68 " | 0.9 - 1.0 m 35.43 - 39.37" | 0.9 - 1.0 m 35.43 - 39.37" | N/A | 1.0 m 39.37" | 0.1 m 0.39 " | N/A | N/A |
| | MAXIMUM CHARACTERS INPUT | 15-20 | 150 | 150 | N/A | Template Design | Template Design | N/A | N/A |
| | FREE TEMPLATE DESIGN | NO | YES PC application | YES PC application | NO | YES PC application | YES PC application | YES PC application | NO |
| | 1D & 2D BARCODE | YES Static | YES Static, Dynamic | YES Static, Dynamic | YES N/A | YES Static, Dynamic | YES Static | YES Static, Dynamic | YES N/A |
| | DATABASE CONNECT | NO | YES SQL, Excel, Access Plain text | YES SQL, Excel, Access Plain text | NO | YES Access, Excel, Plain text | NO | YES Excel, Access, SQL | NO |
| | LOGO | YES Static | YES Static, Dynamic | YES Static, Dynamic | YES Static | YES Static, Dynamic | YES Static | YES Static, Dynamic | YES Static |
| | VARIABLE DATA | Counter, Shift code, Date, Expiry date, Time | Counter, Shift code, Box/Lot, Date, Expiry date, Time | Counter, Shift code, Box/Lot, Date, Expiry date, Time | Counter, Shift code, Box/Lot, Date, Expiry date, Time | Counter, Date, Time, Shift code | Counter, Date, Time | Counter, Shift code, Box/Lot, Date, Expire date, Time | Alphanumeric, Date/Time, Shift Code, Counter, Lot-Box Code |

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|----------------------|--------------------------------|---|---|---|--|---|---|---|--|
| USER FRIENDLY | OPERATION MENU LANGUAGE | English (Default), German, French, Spanish, and Finnish | English (Default), Chinese, Japanese, French, German, Spanish, Finnish, Polish, Russian, Portuguese, Vietnamese | English (Default), Chinese, Japanese, French, German, Spanish, Finnish, Polish, Russian, Portuguese, Vietnamese | English (Default), Chinese (Traditional and Simplified), Japanese, Portuguese, French, German, Spanish, Russian, Korean | English (Default), Chinese, Japanese, e,Italiano, Turkish, French, German, Spanish, | English (Default), Chinese, Turkish, French, Spanish, Port uguese, Polish, | Chinese, English, Japanese, French, German, Spanish, Portuguese and Russian | English, French, German, Spanish, Portuguese, Russian, Korean, Japanese, Chinese (Traditional and Simplified) |
| | PRINTING LANGUAGE | English, Others (with logo) | All language (with Smartphone, PC) | All language (with Smartphone, PC) | English, Others (with logo) | All language (with PC) | All language (with PC) | All language (with PC) | English, Others (with logo) |

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|---------------------------|-------------------------|---|---|--------------------------------------|---|-----------------|----------------|--------------|---|
| CONTROLLING METHOD | STAND ALONE MODE | Wire keyboard Android devices iOS devices | Wireless keyboard Android devices iOS devices | Wireless keyboard Android devices | IR remote keypad 7" uPad touch screen- Optional | 3 buttons logic | 3 buttons | Touch Screen | IR remote keypad 7" uPad touch screen- Optional |
| | PC MODE | NO | YES Default | YES Default | YES Optional | YES Default | YES Default | YES | NO |
| | RS485 PLC MODE | NO | YES | YES | NO | YES | NO | NO | NO |
| | REAL TIME REPORT | NO | YES PC, Smartphone | YES PC, Smartphone | YES | YES | NO | NO | NO |

| | | | | | | | | | |
|--------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| OPTIONAL HARDWARE | ENCODER KIT | NO | YES | YES | YES | YES | YES | YES | YES |
| | EXTERNAL SENSOR KIT | YES | YES | YES | YES | YES | YES | YES | YES |
| | ALARM BEACON KIT | YES | YES | YES | YES | NO | NO | YES | YES |

| | | | | | | | | | |
|---------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| PRICES | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
|---------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|

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| EXPLANATION | * [1]: excluding cartridge and mounting brackets |
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| INFORMATION SOURCE | http://rynantech.com/products/ |
| | http://www.anser-u2.com/2013/en/u2-1.asp# |
| | http://www.weber-marking.com/inkjet-printers/drop-on-demand-inkjet-printers.html |
| | http://www.sojet-tech.com/products.asp?ProClass=70 |
| | http://www.hsasystems.com/products/mini-series/micron-mchp1-%C2%BD.aspx |
| | http://loogal.com/en/productsdetail.php?aid=71&id=10 |



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