WorkForce Enterprise WF-M20590

WorkForce Enterprise mono A3 multi-function device

Lead the charge for a better future

Smarter. Greener. Faster

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Revolutionary high-speed mono business inkjet multi-function device

The WorkForce Enterprise WF-M20590 business inkjet device combines ultra-fast performance with ultra-low energy consumption that only inkjet can offer.
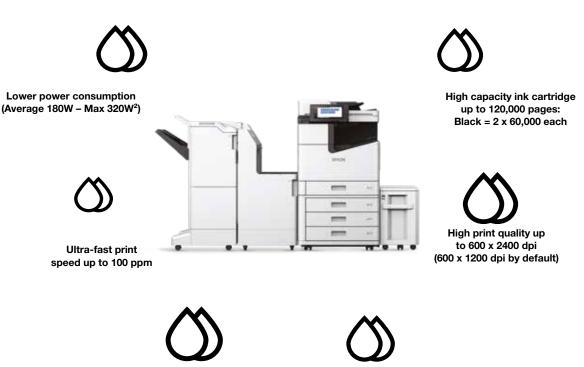
Designed for printing high volume jobs at peak periods, this environmentally smart multi-function business device is capable of delivering consistently superb print quality at superfast speeds up to 100 ppm.

With high capacity inks producing up to 120,000 pages, an optional 5350-sheet paper input and 4000-sheet finisher unit with stapling, and no warm-up time required, you can run jobs without interruption. Prints are ready the moment you get to the device, helping to maintain optimum productivity when you need it most.

Epson's advanced heat-free PrecisionCore printhead technology has the flexibility required to make WorkForce Enterprise possible, thanks to its use of liquid ink. This promotes space-saving supplies, low power consumption and reduces environmental impact.

This revolutionary high-speed mono multi-function device delivers key business benefits:

- Highest speed in its class[1] so you can meet business-critical deadlines

- Consistent print quality from the first page to the last page to provide crystal clear picking slips and reports

- High-yield consumables means lower running costs, more uptime and less staff disruptions

- Heat-free print process reduces electricity costs, CO_2 emissions, and enables reliable envelope and label printing

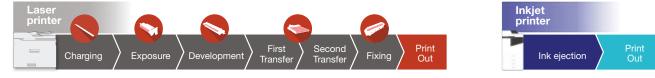## WorkForce business printers: Where quality meets efficiency

Lower power consumption
(Average 180W – Max 320W[2])

Ultra-fast print
speed up to 100 ppm

9-inch colour touch
panel display

High speed dualscan
(Simplex / Duplex: 60 / 85 ipm)

High capacity ink cartridge
up to 120,000 pages:
Black = 2 x 60,000 each

High print quality up
to 600 x 2400 dpi
(600 x 1200 dpi by default)

Efficiency champion

Cut the environmental impact of print with a low power solution that uses fewer supplies, without affecting output quality.

The WorkForce Enterprise uses up to 84% less energy[1] when printing compared to an average laser printer. It not only lowers printer-related electricity costs and CO_2 emissions, it also requires fewer supplies.

Producing less waste and consuming fewer supplies, this is a printer that improves the overall sustainability of your business. Moreover, it's outstanding reliability means less downtime. Power, efficiency and speed come together in a space saving design.

Laser printer

Charging → Exposure → Development → First Transfer → Second Transfer → Fixing → Print Out

Complex technology using **heat** and **pressure**

Inkjet printer

Ink ejection → Print Out

Simple cool, contactless technology

Advanced integration

Take advantage of remote management, customise your print options and enjoy seamless compatibility with a wide range of tools and software that can be integrated into your existing IT infrastructure to improve productivity and increase efficiency.

Epson Print Admin

Boost productivity and monitor print usage via a server-based solution that creates a secure printing, scanning and copying environment through user-authentication.

Epson Device Admin

Control, analyse and manage your printer fleet centrally from one intuitive interface, designed to increase productivity and reduce costs.

Epson Open Platform (EOP)

Gain complete control of your printing operations via a range of partner solutions, such as PaperCut®, that enable you to adapt the WorkForce range of printers to meet specific and changing business requirements. All these solutions help you better manage your office printing.

Product specifications

PRINT FUNCTION	
Printing Method	PrecisionCore on-demand ink jet (piezoelectric)
Print Speed ISO/IEC 24734 (A4)	up to 100 pages per minute
Duplex Print Speed ISO/IEC 24734 (A4)	up to 100 pages per minute
Print Speed ISO/IEC 24734 (A3)	up to 54 pages per minute
Duplex Print Speed ISO/IEC 24734 (A3)	up to 36 pages per minute
Warm-up Time	0 seconds
First Page from Ready	5 seconds
Maximum Resolution	600 x 2,400 dpi (with Variable-Sized Droplet Technology)
Default Mono Resolution	600 x 1,200
HDD Capacity	320GB (Encrypted)
Duty Cycle (maximum)	400,000 pages per month
Recommended	20,000 to 100,000 pages per month

PRINT FEATURES	
Automatic 2-sided Printing	Standard
Collation	Yes
Emulations	PCL5c, PCL6, PostScript Level 3, PDF (ver1.7)
Printer Language(s)	ESC/P-R, ESC/P-RJ, ESC/Page, ESC/Page-Colour

CONTROL PANEL	
LCD Screen	22.7 cm

COPY FUNCTION	
Copy Resolution	600 x 1200
Reduction/Enlargement	25 – 400%, Auto-fit function
Maximum Copy Size	A3, 11x17"
Copy Paper Size (Flatbed)	A3, B4, Legal, Letter, A4, B5, A5, B6, A6, 16K, 8K, #10, DL, C4, C5, C6

SCAN FUNCTION	
Scanner Type	Flatbed colour image scanner
Maximum Resolution	9600 dpi interpolated
Compatibility and Output Formats	TWAIN, WIA, ICA and JPEG, TIFF, PDF
Maximum Scan Area	297 x 431.8 mm
Scan to Memory Device	Yes (USB Host)
Scan to Network Folder/FTP	Yes
Scan to Email	Yes
Scan to Computer	Yes (via Document Capture Pro)
Scan to Computer (WSD)	Yes
Speed (single-pass, double-sided)	Mono/ Colour 200dpi: 60 ipm (single-sided), 110 ipm (duplex), Mono/ Colour 300dpi: 60 ipm (single-sided), 85 ipm (duplex)

ADF FUNCTION	
Support Paper Thickness	52 – 128 gsm
Capacity / Max Number of Originals	150 sheets (80 gsm) or less than 16.5 mm
Automatic 2-sided Scan/Copy	Scan – Yes, Copy – Yes
Maximum Document Size	A3

PRINTER INTERFACE	
USB	USB 1.1, USB 2.0 Type A, USB 3.0 Type B
Ethernet	1000Base-T / 100Base-TX / 10Base-T
Wireless	IEEE 802.11b/g/n
Wi-Fi Direct	Yes

PAPER HANDLING	
Number of Paper Trays and Weights	5 (MP, Cassette1~4) and 60 to 350 gsm
Max Paper Size	A3+
Formats	A3, A3+, A4, A5, A6, Legal, Letter, B4, B5, B6, 16K, 8K, Exec, HLT, Envelopes: #10, DL, C4, C5, C6, Postcard: user-defined

PAPER CAPACITY	2,350 sheets Standard (max 5,350 sheets)
Input Capacity: Cassette 1	550 sheets (80 gsm)
Standard Cassette 2	550 sheets (80 gsm)
Standard Cassette 3	550 sheets (80 gsm)
Standard Cassette 4	550 sheets (80 gsm)
Multi Purpose Tray	150 sheets (80 gsm), 30 sheets (Thick Paper 4, 5 (161~350 gsm), 10 sheets (Envelope)
Optional High Capacity Unit	3,000 sheets (80 gsm)
Maximum Input Capacity	5,350 sheets
Output Capacity (A4 plain paper)	Tray1 : 550 sheets (80 gsm), Tray2 : 150 sheets

ELECTRICAL SPECIFICATIONS	
Power Supply	230v / 50Hz
Typical Electricity Consumption (*Based on TEC test)	1.3 kWh
Copying and Printing	Approx 180 watts
Ready Mode	Approx 77 watts
Sleep Mode	Approx 1.4 watts
Power Off Mode	Approx 0.4 watts
Maximum Power Consumption	320 watts
PRINTER SOFTWARE	
Operating System Compatibility: Windows**	Windows XP SP3 or later / XP Professional x64 Edition SP2 or later / Vista / 7 / 8 / 8.1 / 10, Server 2003 SP2 or later / 2003 R2 / 2008 / 2008 R2 / 2012 / 2012 R2 / 2016 / 2019
Mac	Mac OS X 10.6.8, OS X 10.7.x, OS X 10.8.x, OS X 10.9.x, OS X 10.10.x, OS X 10.11.x, OS 10.12.x, OS 10.13.x, OS 10.14.x
CONNECTIVITY	
Network Printing Protocols	LPR, FTP, IPP, LPD, Port 9100, TCP/IPv4, TCP/IPv6, IPSec, WSD-Print
Network Management Protocols	SNMP, HTTP, DHCP, BOOTP, APIPA, DDNS, mDNS, SNTP, SLP, WSD, LLTD, Ping, SMTP, TCP/IPv4, TCP/IPv6, IPSec, IEEE 802.1X, DCHP, HTTPS, LDAP, SNMP 3.0
WLAN Security	WEP 64 Bit, WEP 128 Bit, WPA2 Enterprise, WPA2 PSK (AES)
Network Protocols	TCP/IPv4, TCP/IPv6, TCP, HTTP, HTTPS, IPv4, IPv6, IPSEC, SSL/TLS
SECURITY FUNCTIONS	
Epson Print Admin and Serverless	Yes
Epson Open Platform	Yes
Limit Access Function and PIN Certification	Yes
LDAP Address Book and IP Address Filtering	Yes
Panel Admin Mode	Yes
OPTIONS / ACCESSORIES	
Optional High Capacity Feeder	Yes
Finisher (includes Bridge Unit)	Yes
Cassette Lock	Yes (4 cassette locks per 1 box)
Staple Cartridge	Yes (Supplies) (3 cartridges per 1 box (5,000 staples per 1 cartridge)
DIMENSIONS & WEIGHT (out of packaging)	
Printer Dimensions (WxDxH)	W 674 x D 757 x H 1231 mm
Printer Weight	179.0 kg
MOBILE AND REMOTE PRINTING	
Google Cloud Print	Yes
Mopria	Yes
Email Print and Epson iPrint Mobile App	Yes
Scan to Cloud	Yes
Remote Print Driver	Yes
NFC FUNCTIONS	
Wi-Fi Pairing	Yes
FINISHER (OPTIONAL)	
Function: Shifting	Yes
Stapling	3 positions (Corner / Opposite Corner / 2 points on side), 1 cartridge of 5,000 staples is bundled in the default state)
Supported Paper Thickness	60 – 160 gsm
Paper Size	A3, 11x17", B4, Legal, 8.5x13", Letter, A4, B5, Executive, A5, Half Letter, 8K (270x390), 16 K (195x270), User Defined (Width : 139.7~297mm Height : 182~431.8mm)
Output Capacity	Finisher Tray : 4,000 sheets (Simplex, A4, B5, Letter, 16K 195x270), 500 sheets (A5)
Paper Sizes Supported for Stapling	A3, A4 (SEF)/(LEF), B4, B5(LEF), Legal(SEF), Letter(SEF)/(LEF), 8K (270x390 (SEF), 16K (195x270) (LEF)
Staple Position	Front / Rear / Side (2 points)
HIGH CAPACITY UNIT (OPTIONAL)	
Maximum Input Capacity	3,000 sheets(80 gsm)
Paper Size	A4 (LEF) / Letter (LEF)
Supported Paper Thickness	60 – 160 gsm
CONSUMABLES	
Black Ink	C13T04Q100 (up to 60,000 page yield, device holds two inks)
Maintenance Box	C13T671300 (up to 120,000 page yield)
Staples	C135210061 (3,000 pieces)
ENVIRONMENTAL CONDITIONS	
Temperature	10~35°C, -20~40°C, -14~40°C
Humidity	15~85%, 5~85%RH

**Under Windows Server OS, only printing, scanning are supported. Bundled apps are not supported.

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