

Built to perform



MUTOH

ValueJet Series



When Quality, Flexibility and Reliability really matter!

At Mutoh, every industry development presents us with a new challenge, the challenge to improve on it and use our experience to go beyond the expected, to achieve the ideal balance between print quality, efficiency and reliability.

That's why Mutoh has been at the forefront of the wide-format industry for more than 20 years. As an innovative developer and manufacturer of wide-format printers and cutters, we incorporate our pioneering technology into everything we do to bring you the best equipment for your application. Our core philosophy is to deliver products with technology proven to be faster, more reliable, more cost effective and more efficient.

Applying this philosophy we created the ValueJet range of wide-format printers. ValueJet printers feature best-in-class piezo drop-on-demand inkjet head technology, latest generation electronics and fit-for-purpose high quality inks, whilst enhancing overall performance and user comfort!



Built to Perform

At Mutoh we understand that your equipment needs to be built to perform. That is why innovation and craftsmanship are at the heart of our ValueJet range. Built to deliver fit-for-purpose quality at all times, Mutoh's ValueJets are tailored to your needs, enabling you to reproduce your creative ideas exactly as you intended.

The range is available in widths from 130 cm (51") to 264 cm (104") covering Sign and Display, Indoor and Digital Transfer as well as Direct to Fabric applications. All ValueJet models include Mutoh's innovative Intelligent Interweaving technology, enabling you to effortlessly deliver the right quality at the lowest cost.

Mutoh printers work as hard as you do – no more over-specified print jobs that take longer and cost more than they should, no more under-specified print jobs that result in inferior quality and risk of repeat business. It's simply 'job done' with a Mutoh ValueJet!

Find out for yourself – book a demonstration at your nearest authorised Mutoh Reseller.

> 01 Sign & Display

Cost-Efficient Flexibility without Compromise

Targeted at sign and display applications, ValueJet wide-format Eco Ultra printers match Mutoh's passion for engineering and quality with your desire for ultimate performance and trouble-free production. They appeal to both established businesses and startups.

Incorporating proven piezo drop-on-demand inkjet technology, the compact and robustly built ValueJet Eco printers are ideal for indoor and long term outdoor prints on a wide range of coated and uncoated substrates: posters, banners, backlit signage, decals, wall coverings, point-of-sale displays, fine art reproduction, pop-ups, vehicle graphics, stickers and much more.

Mutoh's ValueJets will bring you superior print quality and will take the headache out of any job, for every application. Whatever the job, it's job done with the ValueJet Eco range.

ValueJet 1204 - 1304: No need to break the bank to get into Eco Ultra Printing

Already profitable for volumes from 300 m² per year, the ValueJet 1204 & ValueJet 1304 printers are ideal for start-up sign shops or established businesses wishing to extend their product offering. Easy to install, use and virtually maintenance free, these compact roll to roll printers can be easily located in any office environment.



> VJ-1204



> VJ-1304

ValueJet 1324 - 1614: Reliable workhorses with true production capabilities

The cost-effective professional ValueJet 1324 and 1614 models are perfectly suited for small to mid-range sign makers and print providers.

Flexible, reliable and able to deliver excellent print quality for volume production runs as well as short print runs, these printers will prove to be reliable workhorses for all high-quality indoor and outdoor banners, vehicle graphics, backlit displays and much more. A perfect match for businesses with medium and higher print volumes.



> VJ-1324



> VJ-1614

> 01 Sign & Display

ValueJet 1624 - 1638: High quality and high speed without compromise

The ValueJet 1624 and 1638 models incorporate the very latest piezo drop-on-demand 1440 nozzle head technology and new generation electronics. They address the needs of businesses focusing on both high speed production and top quality print work.

These ValueJets are ideal for established sign makers who need extra versatility and for larger operations that want to extend their capacity and flexibility. A ValueJet 1624 or 1638 will deliver best-in-class speed and superior print quality, without compromise.



> VJ-1624



> VJ-1638

ValueJet Hybrid 1608HS : Rigid and roll-to-roll printing

The ValueJet 1608 hybrid printer delivers high quality prints on a wide variety of roll and rigid media, such as uncoated polyester, PP, PE, ABS, PET, non-pvc self-adhesive media, uncoated Tyvek, cardboard, recyclable fibre-based paper, PVC foam board, aluminium sandwich board, ...

An ideal fit for print providers who supply customers demanding "green output" (recyclable media), this model is the perfect solution for start-up companies as well as established print businesses wanting short run production of roll prints and panel creation for close viewing distances.



> VJ-1608HS
for roll printing



> VJ-1608HS
for rigids

	Max. Media Width mm / inch	Max. Print Width mm / inch	Production Speed Range m ² /h	Billboard Mode m ² /h
ValueJet 1204	1300 / 51.18	1200 / 47.24	2.7 - 11.3	13.6
ValueJet 1304	1371 / 53.97	1355 / 53.35	2.8 - 11.9	14.3
ValueJet 1614	1625 / 63.97	1615 / 63.58	3.9 - 14	18
ValueJet 1324	1371 / 53.97	1361 / 53.58	3.9 - 16.4	27.9
ValueJet 1624	1625 / 63.97	1615 / 63.58	5 - 20.5	29.1
ValueJet 1638	1625 / 63.97	1615 / 63.58	10 - 36	48
ValueJet 1608HS	1625 / 63.97	1615 / 63.58	1.5 - 9	10.5

> 02 Indoor & Digital Transfer

Soft Signage : Don't Miss the Opportunity !

Expand your business beyond vinyl and banner printing by adding soft signage production to your portfolio with Mutoh's ValueJet water-based printer series and dye sublimation inks. Explore new revenue opportunities such as high quality in-store textile decoration and displays, textile banners, pop-ups, sportswear, personalised home decoration, gadgets, shirts and many more.

In dye sublimation printing, images are printed in reverse onto transfer paper. After printing, a heat press or calender fixes the images onto polyester-based textiles. The heat process bonds the images permanently into the fabric. Colours are bright and vibrant. Outputs are durable & washable. Importantly, unlike other inkjet technologies, the sublimation process does not affect the handling and feel of the material.

Produce with the environment in mind

Using Mutoh's water-based dye sublimation inks and easily available uncoated recyclable polyester-based materials means there is no need for forced ventilation, as the inks are free from VOCs and hazardous components. The prints are also odourless. Soft signage is much easier to pack & ship which reduces transport costs, as it folds easily to reduce space and is of course extremely lightweight. An important plus is that soft signage can be washed (if necessary) and re-used with no fade.

Increase your profit margins

Water-based dye sub inks, available in bulk bottles, will enable you to lower your cost per copy. Paper prints are produced faster, which increases your productivity. You work with uncoated low-cost readily available polyester fabrics. Plus you offer a higher end luxurious product with premium appearance, touch and feel, which can be sold at a higher price compared to regular vinyl, paper and banner prints.

Mutoh provides turnkey solutions including printer, inks, software and after treatment equipment – all you need to make a flying start into dye sublimation.

ValueJet 1304W & 1604W - A smart choice for entry level dye sublimation

The compact ValueJet 1304W and 1604W printers are ideal for every day sublimation printing. They are fit for both startup and established businesses wanting to extend their product portfolio.

You don't need to be an expert to run these printers, as they are very easy to operate and maintain. Competitively priced, they deliver consistent quality for volume production runs as well as short print runs.

The VJ-1304W and VJ-1604W models feature a variable drop print head with 8 rows of 180 nozzles, allowing output resolutions between 360 x 720 dpi and 1440 x 1440 dpi.



> VJ-1304W



> VJ-1604W

> 02 Indoor & Digital Transfer

ValueJet 1638W - Unrivalled performance for professional volume users

The ValueJet 1638W high speed, high volume sublimation inkjet printer effortlessly delivers sellable production speeds from 42 to 65 m²/h. Ideally suited for users requiring speed who also put high quality at the top of their wish list!

The fastest printer in its price range, the VJ-1638W will print onto the thinnest sublimation papers and incorporates a staggered dual head setup with latest generation 1440 nozzle piezo heads, offering output resolutions ranging from 360 x 360 dpi up to 1440 x 1440 dpi.

Long unattended print runs are made possible thanks to Mutoh's optional bulk ink system and a variety of automatic motorised winder systems that will neatly roll up prints, ready for after-treatment.



> VJ-1638W

	Max. Media Width mm / inch	Max. Print Width mm / inch	Production Speed Range m ² /h
ValueJet 1304W	1371 / 53.97	1355 / 53.35	2.8 – 21
ValueJet 1604W	1625 / 63.97	1615 / 63.58	2.9 – 22.5
ValueJet 1638W	1625 / 63.97	1615 / 63.58	20 - 65

UniFixer 65 - Permanent results with flying colours

To finish your prints, Mutoh offers the UniFixer 65 (1700 mm – 67") calender. UniFixer will heat transfer dye sublimation prints from paper to fabric or heat fix direct printed polyester fabrics. The calender offers rapid response heating via an oil-free rotating drum with quartz heating.

For businesses focusing on piece production of e.g. pre-cut customised stretch sportswear, an optional table is available for the Mutoh UniFixer.



> UniFixer 65 with optional table



> UniFixer 65

> 03 Direct Textile

The Green Option for Short Run, Personalised High Value Products

Backed by Mutoh expertise and engineering, Mutoh direct-to-textile printers are suited for the production of high quality company flags, country flags, beach flags, personalised advertising, textile gadgets, clothing as well as home decoration fabrics.

Digitally printed fabrics can be easily personalised and sold as high value products with a “green” label. Textile prints are more easily re-usable as well as lightweight and readily foldable to make transport far more energy and emission efficient.

Mutoh direct disperse inks for use on polyester fabrics are free from VOCs and hazardous components. On open structure fabrics, they provide excellent print-through for double sided flags. The inks offer high outdoor durability (up to 1 year) and prints are moreover washable.

ValueJet TD Printers – Highest print quality & extremely versatile

The ValueJet TD series incorporate 8 ink slots and two high end piezo drop on demand 1440 nozzle heads mounted in-line. This will enable users to run 2 times CMYK (high density setup), 8 colours (high gamut setup) or even to run 2 types of ink simultaneously (dye sublimation inks and direct disperse inks). Ultra fine quality prints can be produced, at resolutions up to 1440 dpi.

Setup for direct-to-fabric printing, the ValueJet TD can print on recyclable non-stretch polyester fabrics with open or closed structure. This is made possible by the incorporated ink gutter positioned under the printing path, which collects all the ink that is not absorbed by the fabric. By covering the ink gutter with the easy ‘clickable’ ink gutter covers, the ValueJet TD can also be used for sublimation printing onto transfer paper. Head height is adjustable up to 4 mm, offering maximum substrate compatibility.

Dedicated textile printing features have been integrated to enable smooth and worry-free media handling, e.g. a tensioning mechanism at the back of the machine which compensates for media expansion during printing. ValueJet TD can run with open ink cassettes or with Mutoh’s optional bulk ink system. Different motorised take-up systems are available to perfectly match your production volume.



> VJ-1628TD



> VJ-2628TD



> Adjustable
print platform



> Tensioning
mechanism

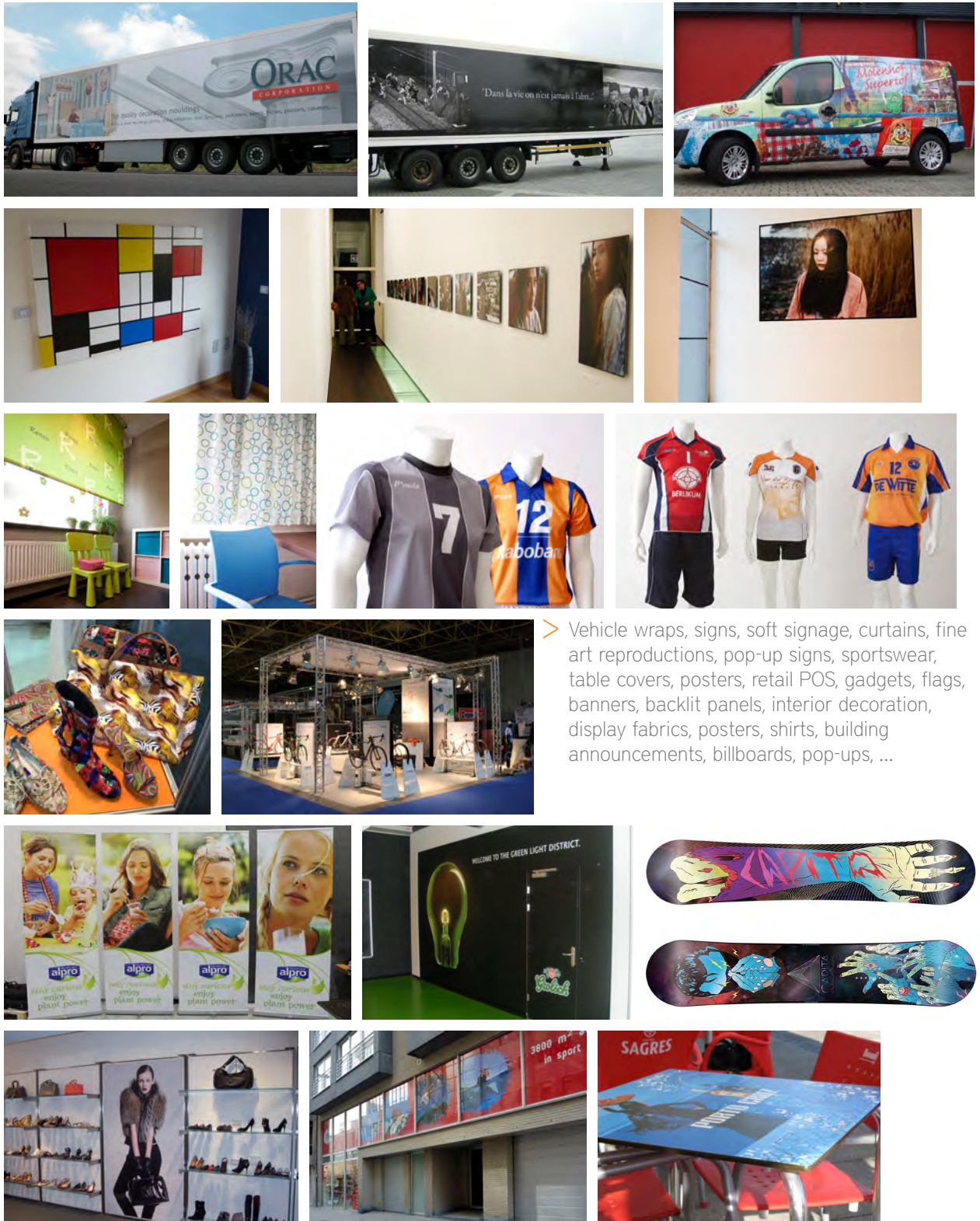
	Max. Media Width mm / inch	Max. Print Width mm / inch	Production Speed Range m ² /h
ValueJet 1628TD	1625 / 63.97	1605 / 63.18	8 – 24
ValueJet 2628TD	2642 / 104.01	2622 / 103.22	8 – 24

> 04 Applications

If you can think it, you can print it

Mutoh ValueJets will enable you to turn all your ideas into reality. They will offer you superior print quality and an unprecedented level of user comfort, for a wide variety of applications. Whatever the job, it's simply 'job done' with a Mutoh ValueJet printer.

You can really be different, as your high quality ValueJet prints will impress customers and create lasting value, the best guarantee for return business. Since you can rely on the ValueJet for your day to day production needs, you have more time to be creative and look for new business opportunities.



> 05 Accessories, Software & Inks

Peace of Mind with Mutoh Original Inks

Ink is a crucial part of the printing process. Using inks that work together faultlessly with the print head and media in production to give you optimum performance and output quality is an area Mutoh invest heavily in. We are constantly testing the inks and print head technologies in our own chemical labs, to ensure that you are provided with inks that perfectly match your Mutoh system and supplies.

By conducting stringent quality control, we are able to guarantee batch-to-batch consistency, a perfect match between ink and print head and unequivocal warranties for durability and quality.

Depending on your application, we supply the right ink for our ValueJet printers:

Mutoh Eco Ultra Inks inks are Mutoh's most popular inks for outdoor sign applications on a wide range of uncoated and coated substrates. The inks are based on non-aggressive solvents and do not spread any harmful VOCs in the working environment. As a result, there is no need for forced ventilation. Available in easy-to-use cassettes, Eco Ultra inks are Mutoh's third generation of eco inks featuring improved ink fixation, better drying, higher print speeds and improved scratch resistance. Prints made with Eco Ultra inks are UV and water resistant for up to three years outdoors*.

* : For heavy-duty applications where mechanical stress is involved (floor & vehicle graphics), lamination is required. Stabilisation is required prior to lamination.

Mutoh Disperse Dye Sublimation & Direct Disperse Inks are 100 % VOC free and do not contain any hazardous components. These water-based inks have excellent nozzle stability for high speed and high volume printing. They offer a large colour gamut for rich and vibrant colours and deliver top scores in light fastness, wash fastness, rubbing and perspiration.

Mutoh dye sublimation inks deliver perfect transfer to different materials (textiles and rigids). The direct disperse inks are suited for direct to textile printing onto polyester fabrics.

Mutoh Dye & Pigmented CMYK water-based VOC free inks offer a wide colour gamut, superior line output and sharp edges, ideal for high quality poster printing. Whereas the Mutoh dye based inks are suited for interior prints, Mutoh pigmented inks are ideal for long-term indoor graphics as well as for short term outdoor applications.

Mutoh Bio Inks for the ValueJet Hybrid model will deliver high quality prints on a wide range of uncoated environmentally friendly low cost substrates. A unique feature of these inks is that they enable printing onto both roll and rigid materials. The inks are made from renewable resource solvents. They are fixed and dried at regular heating temperatures.

Ink Type / Colours	Eco Ultra CMYK		Bio CMYK	Dye & Pigmented CMYK	Disperse Dye CMYK		Direct Disperse CMYK
Ink Volume	220 ml C	440 ml C	880 ml P	220 ml C	1000 ml B ¹	5000 ml B ¹	1000 ml B ¹
VJ-1204/1304/1324	X						
VJ-1614/1624	X	X					
VJ-1638	X	X					
VJ-1608HS			X				
VJ-1304W/1604W				X	X	X	
VJ-1638W				X	X	X	
VJ-1628TD/2628TD					X	X	X

C = cassette - P = pack/bag - B = bottle

¹ = Requires open cassettes or optional bulk ink system

> 05 Accessories, Software & Inks

Reliable Accessories to Complete a Seamless Solution

Mutoh's core philosophy is to deliver you a robust printer ready for day to day production with reliable inks that are perfectly matched to your application. To complete your ValueJet solution and configure it to your target print volume, we supply a range of optional accessories to make your production process easier, faster and hassle-free.

Our accessories include bulk ink systems for long unattended printing, different types of motorised unwinding/winding systems (30, 80 and 100 kg) to match your print volumes and infra red dryers.



> 80 kg motorised take-up system with tensioning bar



> 30 kg motorised take-up system with tensioning bar



> torque-controlled motorised take-up system



> Bulk Ink System



> IR Dryer

Software that Meet your Needs

Mutoh works with all the leading RIP vendors so that you have a choice dependent on budget and application for whichever ValueJet you choose.

Special Mutoh Edition RIP software is available from EasySign, Onyx Graphics and SAi, covering our entire printer and cutter portfolio and we offer our own Caldera-engineered GRIP / GRIP Plus RIP solutions too.

Whatever your preference of RIP, your investment is safe, since all Mutoh Edition RIP solutions can be easily upgraded as your business grows with either new or extra equipment.



ONYX®



Media

As with our RIP strategy, we work with all the major media suppliers during the development process to ensure our printers deliver Mutoh quality output across a broad range of substrates.

Mutoh printer users can benefit from our extensive ICC/media profile library available on the member site at www.mutoh.be

> 06 Specifications - Performance

Technical Key Specifications

Head Technology	Drop-on-demand Micro Piezo Inkjet Technology
Print Technology	Mutoh proprietary i2 Intelligent Interweaving inside
Print Head(s)	1 head (VJ-1204 / VJ-1304 / VJ-1614 / VJ-1324 / VJ-1624 / VJ-1304W / VJ-1604W / VJ-1608HS)
	2 heads - staggered (VJ-1638 / VJ-1638W)
	2 heads - in-line (VJ-1628TD / VJ-2628TD)
Nozzle Configuration	180 nozzles x 8 lines per head
Power Supply	AC 100-120 V / AC 200-240 - 60/50 Hz

Media Measurements & Print Speeds

> 01 Sign & Display

	Print Speeds m ² /h	Max Media Width		Max Print Width		Max Media Thickness	Media Core / Diameter / Weight		
		mm	inch	mm	inch	mm	inch	mm	kg**
ValueJet 1204	Billboard (360x720): 13.6 Production (540x720): 7.0 Quality (720x720): 5.1	1300	52	1200	47.24	0.3	2 or 3	150	19
ValueJet 1304	Billboard (360x720): 14.3 Production (540x720): 7.3 Quality (720x720): 5.3	1371	54	1355	53.35	0.3	2 or 3	150	30
ValueJet 1614	Billboard (360x720): 18.0 Production (540x720): 9.4 Quality (720x720): 6.0	1625	64	1615	63.58	0.3	2 or 3	150	30
ValueJet 1324	Billboard (360x720): 27.9 Production (720x720): 11.8 Quality (720x720): 5.9	1371	54	1361	53.58	0.3 / 1.3*	2 or 3	150	19
ValueJet 1624	Billboard (360x720): 29.1 Production (720x720): 14.5 Quality (720x720): 7.5	1625	64	1615	63.58	0.3 / 1.3*	2 or 3	150	30
ValueJet 1638	Billboard (360x720): 48.0 Production (720x720): 29.0 Quality (720x1440): 15.0	1625	64	1615	63.58	0.3 / 1.3 / 2.8*	2 or 3	150	30
ValueJet 1608HS	Billboard (720x720): 10.5 Production (720x720): 6.0 Quality (1440x1440): 1.5	1625	64	1615	63.58	10*	2 or 3	150	30

(*): Machine allows different head heights and corresponding media thickness.

(**): Standard non-motorised roll-off system

> 02 Digital Transfer

	Print Speeds m ² /h	Max Media Width		Max Print Width		Max Media Thickness	Media Core / Diameter / Weight		
		mm	inch	mm	inch	mm	inch	mm	kg**
ValueJet 1304W	Billboard (360x720): 21 Production (540x720): 7.3 High Quality (720x720): 5.3	1371	54	1355	53.35	0.3	2 or 3	150	19
ValueJet 1604W	Billboard (360x720): 22.5 Production (540x720): 9.4 High Quality (720x720): 6	1625	64	1615	63.58	0.3	2 or 3	150	30
ValueJet 1638W	Billboard (360x720): 65 Production (540x720): 42 High Quality (720x720): 25	1625	64	1615	63.58	0.3 / 1.3 / 2.8*	2 or 3	150	30

(*): Machine allows different head heights

(**): Standard non-motorised roll-off system

> 06 Specifications - Performance

> 03 Direct Textile

	Print Speeds	Max Media Width		Max Print Width		Max Media Thickness	Media Core / Diameter / Weight		
	m ² /h	mm	inch	mm	inch	mm	inch	mm	kg
ValueJet 1628TD	Production (540x720): 24 High Quality (720x720): 8	1625	64	1605	63.18	0.3 / 1.3 / 2.8*	3	200	30**
ValueJet 2628TD	Production (540x720): 24 High Quality (720x720): 8	2642	105	2622	103.22	0.3 / 1.3 / 2.8*	3	200	100***

(*): Machine allows different head heights

(**): Standard non-motorised roll-off system

(***): Standard motorised 100 kg unwinding/winding system

Power Consumption & Measurements

> 01 Sign & Display

	In Stand-by Mode	Average During Printing	Width x Depth x Height	Weight
ValueJet 1204	40 W	500 W	1772 x 685 x 1220 mm	71.8 kg
ValueJet 1304	40 W	500 W	1875 x 685 x 1218 mm	83.1 kg
ValueJet 1614	40 W	600 W	2698 x 845 x 1320 mm	182 kg
ValueJet 1324	45 W	500 W	1916 x 685 x 1218 mm	82.3 kg
ValueJet 1624	45 W	600 W	2698 x 885 x 1261 mm	160 kg
ValueJet 1638	45 W	650 W	2698 x 885 x 1261 mm	221 kg
ValueJet 1608HS (roll)	100 W	600 W	2698 x 984 x 1256 mm	236 kg
ValueJet 1608HS (rigid)	100 W	2250 W	2698 x 1256 x 2750 mm	338 kg

> 02 Indoor & Digital Transfer

	In Stand-by Mode	Average During Printing	Width x Depth x Height	Weight
ValueJet 1304W	30 W	135 W	1905 x 685 x 1218 mm	80.3 kg
ValueJet 1604W	71 W	150 W	2698 x 845 x 1320 mm	173 kg
ValueJet 1638W	38 W	200 W	2698 x 885 x 1261 mm	219 kg

> 03 Direct Textile

	In Stand-by Mode	Average During Printing	Width x Depth x Height	Weight
ValueJet 1628TD	45 W	200 W	2698 x 950 x 1262 mm	201 kg
ValueJet 2628TD	45 W	300 W	3708 x 950 x 1262 mm	256 kg

Recommended Working Environment

Temperature	22°C - 30°C with Δt: max. 2°C/h
Humidity	40 % - 60 % (no condensation) with ΔRH: max. 5% RH/h

> 07 Why buy Mutoh?

That's easy. Because experience matters ! Mutoh is one of the world's leading manufacturers of high quality wide format piezo drop on demand inkjet printers and sign cutting plotters, setting the standard for innovation, quality, excellent customer service and local presence. We have been in business since 1953, starting with high end drafting machines, moving to pen/pencil plotter technology and cutting plotters. We have been active in the wide-format printer industry for more than 20 years. In Europe alone, more than 20000 wide format Mutoh printers and more than 25000 Mutoh cutting plotters have been installed.

Innovation

Innovation and craftsmanship are at the heart of all our products. Mutoh was the pioneer in eco solvent printing technology back in 2002, revolutionising the outdoor sign & display market. We also developed innovative printing techniques such as our Intelligent Interweaving technology (i2) which prevents banding and facilitates a smooth workflow with best possible print results. We know piezo inkjet technology inside out.

Quality and Reliability

Quality is the thread that runs through every Mutoh product. We know that our customers' business depends on the reliability of our equipment. Quality is integrated into every step of our production process in accordance with our ISO 9001 certified comprehensive quality management system and ISO 14001 environmental management policy.

All Mutoh products are compliant with the most stringent EU directives with regards to environment, occupational health and safety for equipment owners and operators.

Local Presence

Mutoh products are distributed and supported by a network of certified Mutoh authorised distributors and Channel Partners trained by Mutoh for sales, installation and after-sales support. Your local authorised reseller will assist you further in defining the right solution for your application, product pricing and return on investment.

Be part of the Mutoh family

Customer retention is important to us. Mutoh equipment users can create a free member account at www.mutoh.be to benefit from features and essential information on their Mutoh printer or cutting equipment : access to Mutoh's on-line ICC profile library offering more than 2000 ICC profiles for a variety of RIP software; drivers for Mutoh equipment, user's guides, application notes, etc...

In short, we want you to be sure of your Mutoh product – our reputation depends on it.



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Specifications are subject to change. The machines depicted on this brochure do not necessarily show a standard configuration. For some products, customised configurations are available. For further information, contact your nearest Mutoh Authorised Reseller or visit www.mutoh.eu.

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