



#WeAreDyeMansion

MEET THE VX1

NOW PART OF THE DYEMANSION WORKFLOW



NOW PART OF
DYEMANSION





**WE ACQUIRED ASM
IN OCTOBER, 25**

ASM
NOW PART OF
DYEMANSION



- TO CONSOLIDATE OUR MARKET LEADERSHIP
- TO OFFER THE MOST COMPREHENSIVE
VAPOR SMOOTHING PORTFOLIO IN THE INDUSTRY
- READ FULL PRESS RELEASE [HERE](#)

MEET THE VX1

YOUR ENTRY INTO PROFESSIONAL VAPOR SMOOTHING

24,6L PROCESS CHAMBER VOLUME
(LARGEST IN CATEGORY!)

EASY PLUG & PLAY VAPOR
SMOOTHING

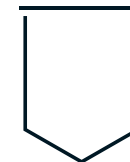
SAFE & SUSTAINABLE SOLVENT
TECHNOLOGY



PROVEN ENTRY LEVEL SOLUTION
(70+ CUSTOMERS WORLDWIDE)

AVAILABLE MATERIALS
PA12, PA11, TPU

INTEGRATED IN THE
PRINT-TO-PRODUCT WORKFLOW



WHEN IS THE VX1 THE RIGHT FIT?



- You have a need for sealed, smooth parts
- You are starting with vapor smoothing
- You operate in low to mid production volumes
- You are limited in available space
- You want to bring surface finishing in-house
- You need industrial surface quality without large-scale automation
- You are looking for predictable ROI and low total cost of ownership

IT'S THAT EASY TO OPERATE



Insert parts



Insert the right
cartridge for
your material



Choose your
smoothing level



Marvel at your
smoothed parts

VX1 EXPLAINED

BY OUR CEO FELIX EWALD



WATCH VIDEO ON YT [HERE](#)



PART OF THE WORKFLOW NOW!

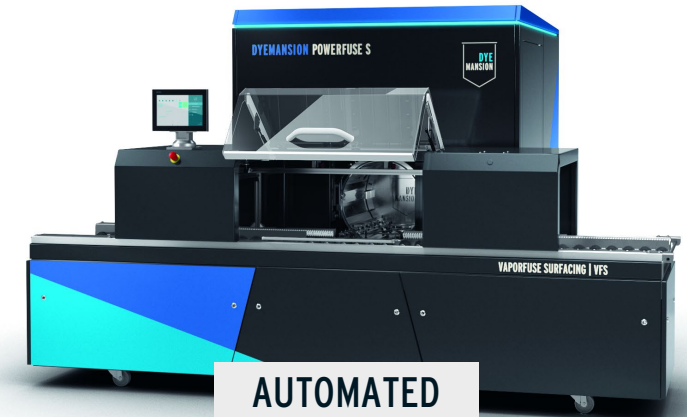
MORE DYEMANSION, MORE VAPOR SMOOTHING



INDUSTRIAL
ENTRY



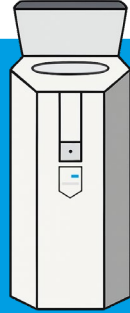
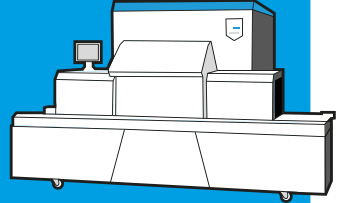
INDUSTRIAL



AUTOMATED
INDUSTRIAL

VX1 & POWERFUSE S

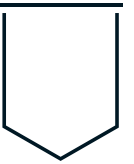


Summary	The VX1 is a real plug-and-play system with easy process control, little training need & good serviceability 	The Powerfuse S excels in series applications with processes fine-tuned to geometry & material 
Materials	PA11, PA12, TPU	PA6, PA11, PA12, TPU, ULTEM (PP also available)
Consumable	1 cartridge per run	Internal solvent recycling
Process/Parameters	3 levels - Fill level, thickness & smoothing level. One cartridge per material	Programs per material and smoothing level Finetune and develop with 100+ parameters
Chamber Volume	25l 6.5gal	85l 22.5gal
Service	Modular. Customer enabled.	Complex. Experienced personnel required.

TECH SPECS

DOWNLOAD FULL DATA SHEET: [CLICK HERE](#)

Parameter	Value
Cycle Time	1.5 – 3h
Process chamber volume Ø x H	280 x 400 mm (24.6l) 11.0 x 15.7 in (1,501 in³)
Dimensions system (L x W x H) closed lid	660 x 450 x 1100 mm 26.0 x 17.7 x 43.3 in
Recommended space requirement in operation (L x W x H)	700 x 490 x 1800 mm 27.6 x 19.3 x 70.9 in
Weight	90 kg 200 lb
Power requirements	Single-phase AC 230 V, 50 Hz, max. 14 A (line-to-neutral) 208 V, 60 Hz, max. 13 A (line-to-line) Maximum power input: 3.2 kW @ 230 V
Energy consumption	Less than 1 kWh per cycle
Connectivity	EG25-G LTE Cat 4 Modem



CHOOSE YOUR SMOOTHING LEVEL



raw



soft



medium

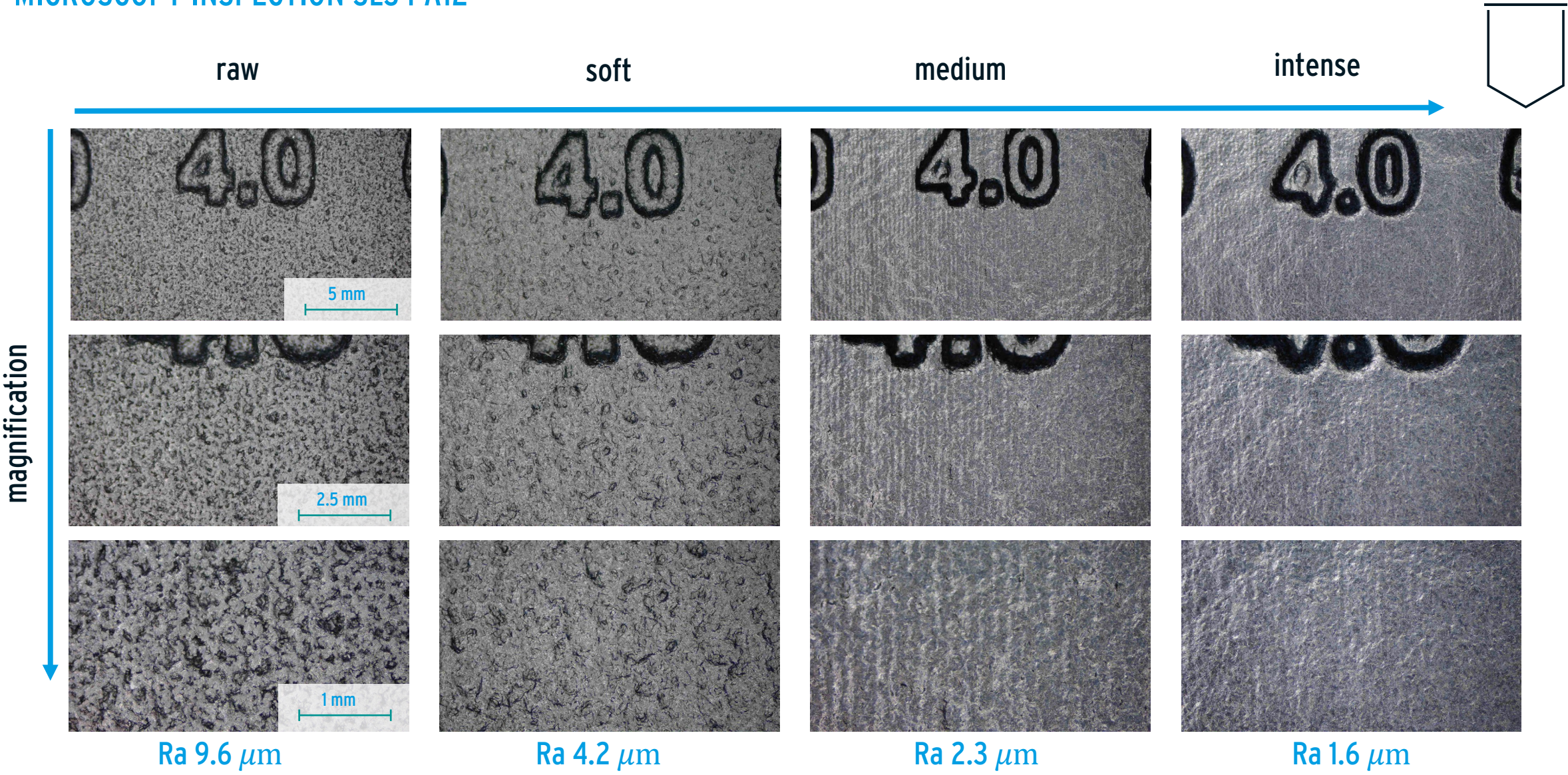


intense



SMOOTHING LEVEL

MICROSCOPY INSPECTION SLS PA12



MATERIAL COMPATIBILITY



PA12		
EOS	PA2200	Polyamide 12 (PA12)
	PA2201	Polyamide 12 (PA12)
	PA3200GF	Polyamide 12 (PA12), glass filled
HP	3D HR PA 12 enabled by Evonik	Polyamide 12 (PA12)
	3D HR PA 12 S enabled by Arkema	Polyamide 12 (PA12)
	3D HR PA 12 GB	Polyamide 12 (PA12), glass filled
Formlabs	Nylon 12	Polyamide 12 (PA12)
Stratasys	SAF PA12	Polyamide 12 (PA12)
PA11		
EOS	PA1100	Polyamide 11 (PA11)
	PA1101	Polyamide 11 (PA11)

DOWNLOAD THE FULL DOCUMENT [HERE](#)

EXPLORE OUR INTUITIVE DESIGN



OUR CARTRIDGE SYSTEM



- Secure & user-friendly handling with no contact with solvents
- Closed-loop system: treatment solution refilled back into cartridge after use
- Reduction of waste and environmental impact through cartridge reuse
- Flexibility with the option to use different cartridge types for specific applications
- Cartridge Return Program: structured return program of used cartridges reducing your process costs

ENTRY INTO VAPOR SMOOTHING



THE VX1 CAN BE USED ACROSS ALL INDUSTRIES THAT LEVERAGE AM TODAY



- MEDICAL / HEALTHCARE
- PRODUCTION & INDUSTRY
- SERVICE PROVIDERS
- PROTOTYPING & TECH LABS
- CONSUMER
- FOOD & BEVERAGE / PHARMA
- UAV & DEFENSE
- ...

MEDICAL / HEALTHCARE



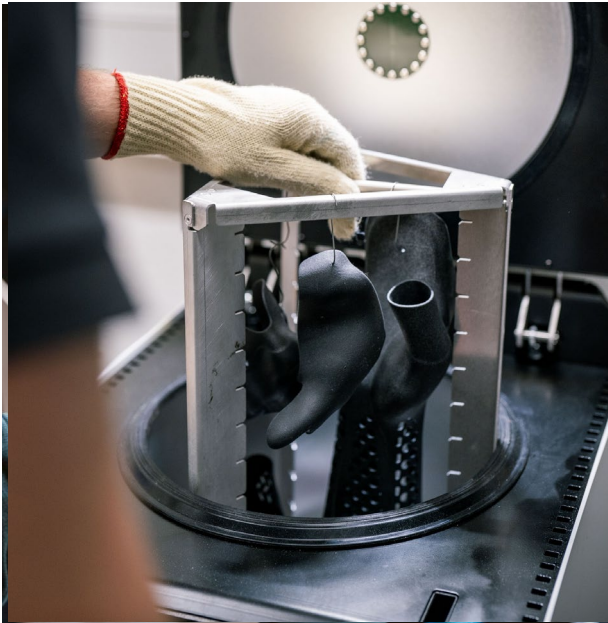
POTENTIAL APPLICATIONS:

- ✓ O&P (Orthopedics & Prosthetics)
- ✓ Protective masks
- ✓ Laboratory & test equipment
- ✓ Centrifuges
- ✓ Medical device housings

USEFUL PROPERTIES:

- ✓ Improved mechanical properties like ductility & longevity
- ✓ Sealed surfaces
- ✓ Washable surfaces
- ✓ Bacterial protection
- ✓ Reduced friction
- ✓ Improved surface haptics

CUSTOMER VOICE



"The VX1 enables compact in-house vapor smoothing, delivering higher surface quality and improved durability of orthopedic parts without relying on external service providers."

Peter Zender,
Orthopedic Engineer,
Ortho Team (MedTech OEM)

PRODUCTION & INDUSTRIAL



POTENTIAL APPLICATIONS:

- ✓ Air & liquid pipes
- ✓ Tool inserts
- ✓ Covers
- ✓ Machine parts
- ✓ Spare parts
- ✓ Brackets

USEFUL PROPERTIES:

- ✓ Smooth & sealed surfaces
- ✓ Improved airtightness
- ✓ Bacterial protection
- ✓ Better cleanability
- ✓ Reduced surface roughness

CUSTOMER VOICE

OPTIMA



“The VX1 allows us to bring vapor smoothing in-house, significantly reducing lead times and logistics effort while improving cleanability, surface quality, and overall process efficiency across both prototyping and production.”

Sebastian Blank,
Manufacturing Planner,
OPTIMA manufacturing GmbH (Industrial OEM)

SERVICE PROVIDER



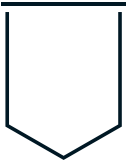
POTENTIAL APPLICATIONS:

- ✓ Prototypes
- ✓ Small to mid-volume production
- ✓ Customer facing end-use parts
- ✓ Functional housings
- ✓ Spare parts
- ✓ ...

USEFUL PROPERTIES:

- ✓ Smooth & sealed surfaces
- ✓ Premium surface quality for resale
- ✓ Improved cleanability
- ✓ Reduced surface porosity
- ✓ Better visual appearance

CUSTOMER VOICE



“The VX1 is an excellent fit for us, both economically & technologically. The non-toxic, food-safe solvent, predictable operating costs, and the well-utilized process chamber provide us with planning reliability. We now operate two VX1 systems and use them to efficiently process parts with varying wall thicknesses. At the same time, we integrate the cartridges into a sustainable cycle thanks to the return program.”

Hannes Kuhn,
Managing Director, Kuhn-stoff GmbH + Co.KG (Service Provider)

CUSTOMER VOICE



"The VX1 enables us, as a service provider, to deliver vapor smoothed surface quality at both small and high volumes with excellent throughput, easy operation, and reliable support, allowing us to compete with much larger service bureaus and win new high-volume customers."

**Michael Seiberl,
Managing Director,
fibreprint GmbH (Service Provider)**

PROTOTYPING & TECH LABS



POTENTIAL APPLICATIONS:

- ✓ Functional prototypes
- ✓ Design validation parts
- ✓ Engineering samples
- ✓ Internal testing components

USEFUL PROPERTIES:

- ✓ Improved surface appearance
- ✓ Sealed surfaces for realistic testing
- ✓ Reduced friction
- ✓ End-use / injection molded like part quality

CONSUMER



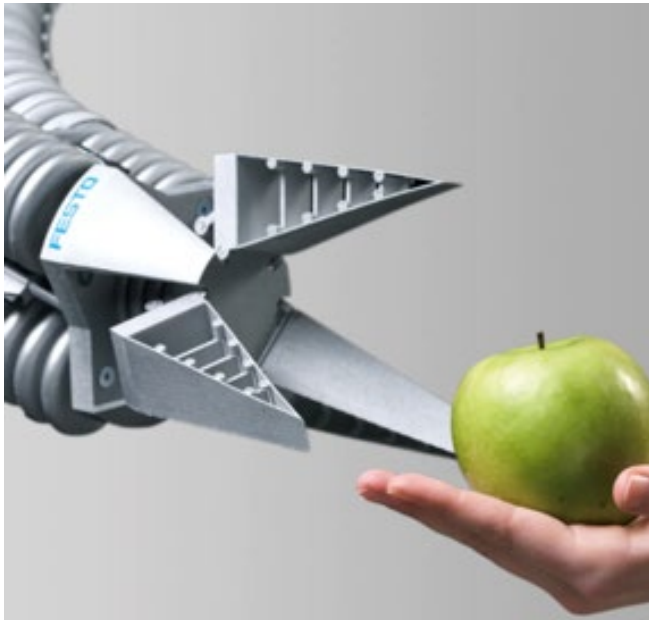
POTENTIAL APPLICATIONS:

- ✓ Eyewear
- ✓ Sport helmets
- ✓ Bicycle seats
- ✓ Toys
- ✓ Footwear

USEFUL PROPERTIES:

- ✓ Smooth & sealed surfaces
- ✓ Reduced friction
- ✓ Washable surfaces
- ✓ Improved stability
- ✓ Premium visual appearance
- ✓ Enhanced durability

FOOD & BEVERAGE / PHARMA



POTENTIAL APPLICATIONS:

- ✓ Pick & place
- ✓ Robotics
- ✓ Covers
- ✓ Pipes
- ✓ Fluid handling parts

USEFUL PROPERTIES:

- ✓ Sealed & washable surfaces
- ✓ Improved cleanability
- ✓ Reduced bacteria adhesion
- ✓ Improved fluid flow

UAV & DEFENSE



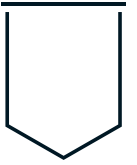
POTENTIAL APPLICATIONS:

- ✓ Aerial drones
- ✓ Surveillance
- ✓ Agriculture
- ✓ Lightweight housings
- ✓ Air ducts
- ✓ Structural brackets
- ✓ UAV components

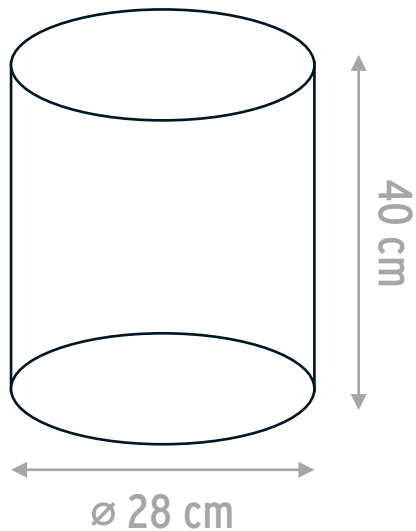
USEFUL PROPERTIES:

- ✓ Sealed surfaces
- ✓ Improved durability
- ✓ Reduced air resistance
- ✓ Prof. finish for mission-critical parts

DESIGN GUIDELINES

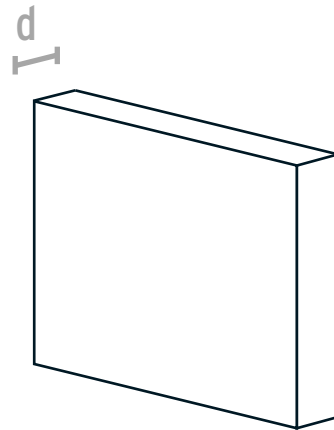


Maximum Part Size



Parts must fit within the process chamber, which has a diameter of 28 cm and a height of 40 cm.

Minimum Wall Thickness



Based on the desired smoothing intensity:

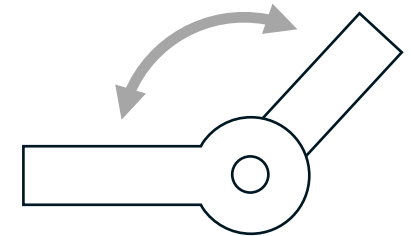
- Soft: 1.0 mm
- Medium: 1.5 mm
- Strong: 2.0 mm

Channels / Openings



Smoothing of channels or openings is feasible for a depth equal to the diameter of the feature.

Moving Parts



Moving parts may adhere during smoothing. It's recommended to design them separately or ensure proper clearance.

HOW TO GET STARTED



- Easy & free benchmarking
- Send your sample parts & choose your desired finishing options
- Receive the parts including a benchmark report with all the details

ORDER FORM TRYMANSION

In order to guarantee a smooth process, we kindly ask you to enclose this completed order form with every delivery for our TryMansion service.

CUSTOMER DATA

COMPANY _____
CONTACT PERSON _____
DIYMANSION REFERENCE NO. _____
PHONE _____
EMAIL _____

RECIPIENT'S ADDRESS

STREET, NO. _____
ZIP CODE _____ CITY _____
COUNTRY _____
SHIPPING COSTS _____

SET 1 SERVICE TYPE: ☐ Benchmark Type A ☐ Benchmark Type B ☐ Feasibility

NO. OF PARTS	MATERIAL	PRE-TREATMENT (if applicable)	COMMENT
TECHNOLOGY	RECOMMENDED (Cleaning included) ☐ PSS+ + DDC+ + PSS ☐ VFS+ + DDC ☐ DDC + PSS (MJF) ☐ DDC + PSS (SLG Black)	ONE TREATMENT ☐ Cleaning only ☐ PSS only ☐ VFS only ☐ DDC only ☐ PSS final touch	

COLOR ☐ Color of choice: _____

SET 2 SERVICE TYPE: ☐ Benchmark Type A ☐ Benchmark Type B ☐ Feasibility

NO. OF PARTS	MATERIAL	PRE-TREATMENT (if applicable)	COMMENT
TECHNOLOGY	RECOMMENDED (Cleaning included) ☐ PSS+ + DDC+ + PSS ☐ VFS+ + DDC ☐ DDC + PSS (MJF) ☐ DDC + PSS (SLG Black)	ONE TREATMENT ☐ Cleaning only ☐ PSS only ☐ VFS only ☐ DDC only ☐ PSS final touch	

COLOR ☐ Color of choice: _____

SET 3 SERVICE TYPE: ☐ Benchmark Type A ☐ Benchmark Type B ☐ Feasibility

NO. OF PARTS	MATERIAL	PRE-TREATMENT (if applicable)	COMMENT
TECHNOLOGY	RECOMMENDED (Cleaning included) ☐ PSS+ + DDC+ + PSS ☐ VFS+ + DDC ☐ DDC + PSS (MJF) ☐ DDC + PSS (SLG Black)	ONE TREATMENT ☐ Cleaning only ☐ PSS only ☐ VFS only ☐ DDC only ☐ PSS final touch	

COLOR ☐ Color of choice: _____

TRYMANSION BENCHMARK REPORT

HOME OF A COLORFUL FUTURE.

GET IN TOUCH WITH US



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