

VAV TECHNOLOGY



DA VINCI OB48 ROBOTIC SPRAYING SYSTEM

- WHAT DOES “DA VINCI OB48” DO?
- ROBOTIC SPRAYING SYSTEM FOR DENIM INDUSTRY
- CONTRIBUTION TO SUSTAINABILITY
- HOW DOES “DA VINCI OB48” WORK?
- “DA VINCI OB48” ROBOTIC SPRAYING SYSTEM
- “DA VINCI OB48” COMPONENTS
- WHY “DA VINCI OB48”?
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WHAT DOES “DA VINCI OB48” DO?

From “Human” to “Robots”



VAV Technology’s Robotic Systems are complementary elements of sustainable denim finishing processes. By the help of Da Vinci OB48 Robotic Spraying System; any kind of water based chemicals application like potassium permanganate (PP), resining and coating are possible and you can eliminate harmful impacts of water based chemicals on human and environment.

In addition, application of ecological enzymes is possible which replaces PP and that makes Da Vinci OB48 “The Very First Local Enzymatic Bleaching System” and it makes a safe and ecological bleaching in a closed system possible.

Besides increasing productivity, Da Vinci OB48 gives you the chance to remove all unhealthy and non-standard manual spraying processes on denim, it complies the requirements of sustainable production while saving human & nature health.

ROBOTIC SPRAYING SYSTEM FOR DENIM INDUSTRY

From “Human” to “Robots”

ROBOTIC SPRAYING SYSTEM for all!



REPLACING HUMAN WITH ROBOTS

Thanks to Da Vinci Robotic Spraying System, there is no more need to manpower for daily mass production operations.

1



STANDARDIZATION IN PRODUCTION

Achieve the same spraying quality on the garment is fast and easy via 4 Robotic Arms with 6 axes working synchronously.

2



HIGH PRODUCTION HIGH EFFICIENCY HIGH ACCURACY

Non-stop operation via 4 robotic arms, 8 mannequins and easy to use cloning and software system bring highest benefits of all times.

3



MORE SUSTAINABILITY? ECOLOGICAL ENZYME

To be more sustainable you can use ecological enzymes instead of PP. Da Vinci OB48 is the one and the only robotic system that ecological enzymes can be applied with.

4

CONTRIBUTION TO SUSTAINABILITY

From “Traditional” to “Sustainable”



Robotic System

DA VINCI OB48

**CHEMICAL SPRAYING
TECHNOLOGY
for Sustainability!**



**ELIMINATING
CHEMICALS
RISK FOR
HUMAN HEALTH**



***>%40 LESS
CHEMICALS
CONSUMPTION**

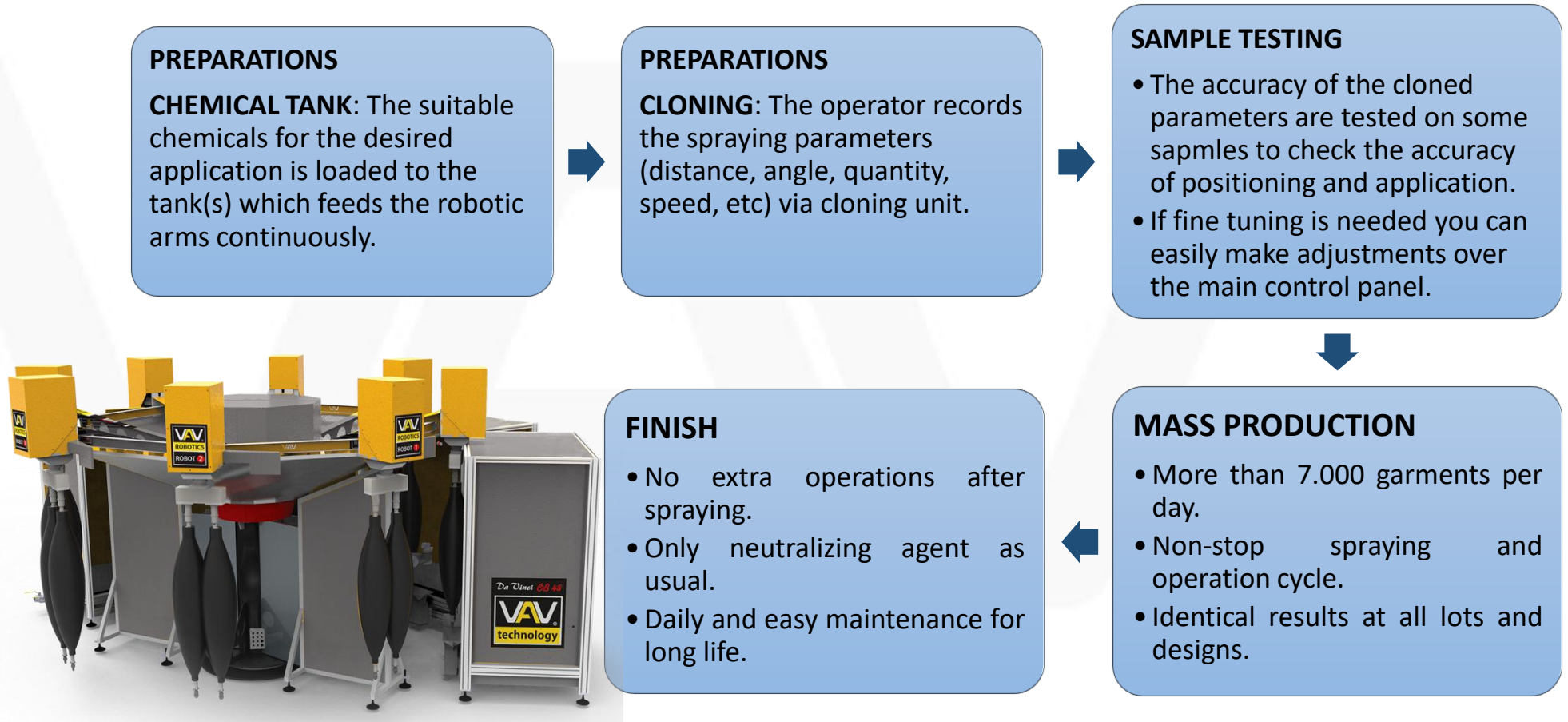


**NO PP - SAFE &
ECOLOGICAL
BLEACHING IN A
CLOSED SYSTEM**

*The saving percentages stated above may differ with local conditions, process, recipe, type of fabric and chemicals.

HOW DOES DA VINCI OB48 WORK?

From “Robots” to “Garment”



DA VINCI OB48 ROBOTIC SPRAYING TECHNOLOGY

PRODUCTIVITY

-Non-stop
operation with
4 ROBOTS
&
8 MANNEQUINS

EFFICIENCY

Less
-CHEMICAL
-LABOUR
-FAILURE

VERSATILITY

-Easy **CLONING**
-User friendly
SOFTWARE
-Different
processes like
RESINING
-Assigning
MULTIPLE TASKS

DURABILITY

-Best
COMPONENT
QUALITY
-ROBUST
DESIGN

SAFETY

-CLOSED
CHAMBER
-High
STANDARDS and
PRECAUTIONS
for **MAXIMUM**
SAFETY

DA VINCI OB48 ROBOTIC SPRAYING TECHNOLOGY

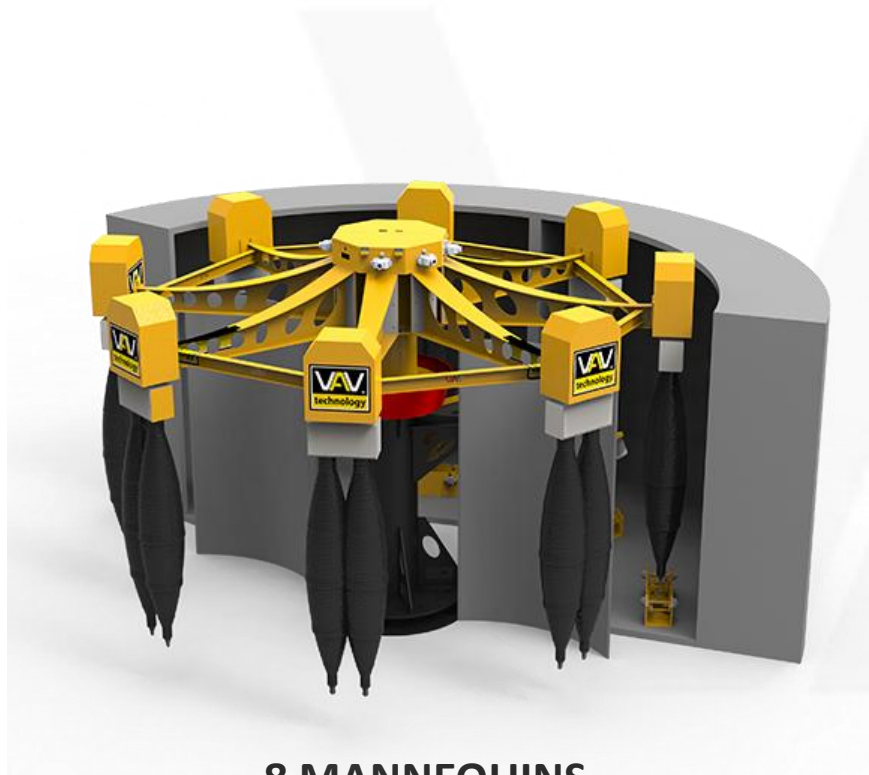


TECHNICAL DATA	DA VINCI OB48
Average Power Consumption	1,2 kW/h
Number / Volume of Main Tanks	1 / 78,5 kg
Number / Volume of Chemical Tanks	4 / 8,4 kg
Spraying Weight Range	0,3 - 8 gr/sec
Estimated Weight	6,500 - 6,750 kg
Supply Voltage	3 Phase 1N 1 PE -380 Volt UPS 1 Phase 1N 1 PE -220 Volt
Number / Amount / Flow of Water Curtains	4 / Upper: 32 kg - Lower: 200 kg / 100 Lt/min
Suction Power (Capacity)	7.500 m ³
Mannequin Length	142 cm

EQUIPMENT	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)
DA VINCI OB48	7384	5707	2695
CLONEMAC 10AX AN	2500	3220	2410
CLONEMAC 10AX AN VERS. SCR. & KEYB. CONSOLE	800	700	1162
CHEMICAL UNIT (FOR CLONEMAC 10AX AN VERS.)	1441	822	1703
DA VINCI OB48 CHEMICAL UNIT	2966	1290	2480

DA VINCI OB48 COMPONENTS

From “Good Components” to “The Best Robotic Spraying System”



8 MANNEQUINS



WATER CURTAINS



**4 ROBOTIC ARMS
WITH 6 AXES**

DA VINCI OB48 COMPONENTS

From “Good Components” to “The Best Robotic Spraying System”



CLONING UNIT



CONTROL PANEL



CHEMICAL UNIT

DA VINCI OB48 COMPONENTS

From “Good Components” to “The Best Robotic Spraying System”



CHEMICAL FILTERS



FLOWMETERS

WHY DA VINCI OB48?

We Are Always One Step Ahead!

1. HIGH PRODUCTION CAPACITY: **Non-stop operation** via 4 robotic arms and 8 mannequins always in use, never lose time.
2. SMART LEARNING TECHNOLOGY: “Clone Mac 10AX AN” clones operators path of motion and transfers it to 4 robotic arms. 4 robotic arms with 6 axes do exactly the same cloned movements which **eliminates faulty workmanship**.
3. STANDARDIZATION IN PRODUCTION: Thanks to 4 Robotic Arms with 6 axes and flowmeters, you always achieve the **same garment quality**.
4. FLOWMETERS: Thanks to **0,3 - 8 gr/sec** precise flowmeters, you can spray the same amount of chemicals to every garment on mannequins via robotic arms. This leads you to **less chemical consumption, product standardization** and **cost calculation**.

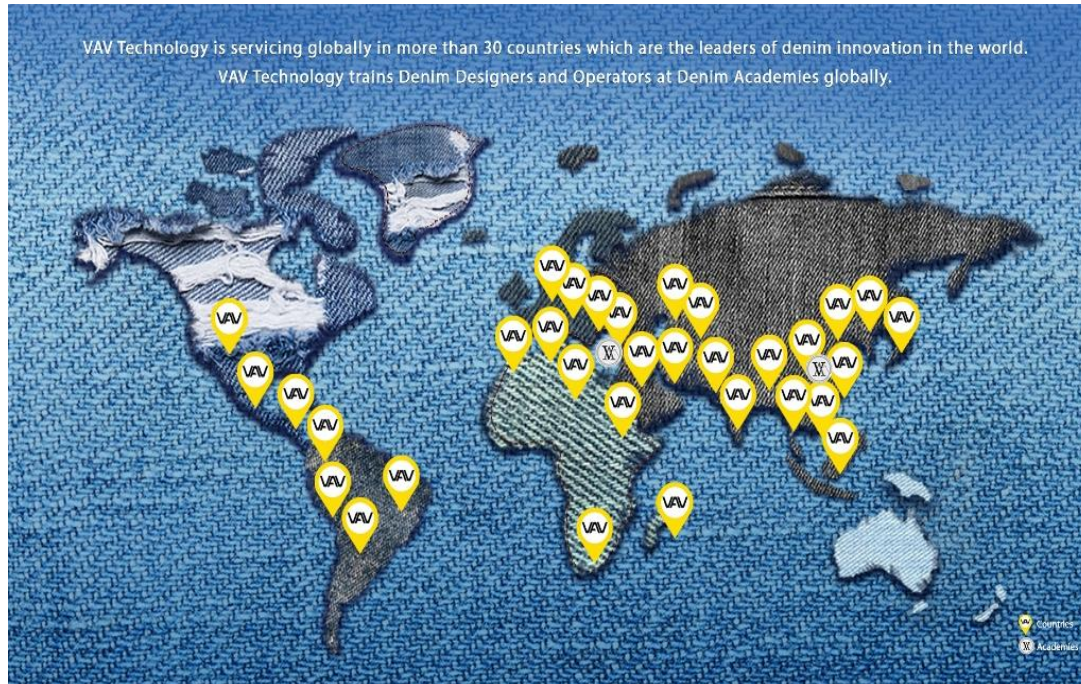
WHY DA VINCI OB48?

We Are Always One Step Ahead!

5. **CHEMICAL FILTERS:** The chemicals are triple filtered before spraying to the garment. For this reason, **high durability** and **long life** for robotic arms and chemical unit can be achieved.
6. **SAFETY:** Thanks to automatic isolation doors, ventilation system and water curtains, maximum **human** and **environment safety** is achieved.
7. **VERSATILITY:** You can **modify** cloned operator behaviour to different sizes and lengths via **3D editor**. Spraying robot can be used with all **water based chemicals** and **resining** is also possible with suitable components.
8. **CONTROL PANEL & SOFTWARE:** User friendly control panel, easy cloning technology, mannequin adjustment mechanism and advanced operating system ensure **fast**, **identical** and **low cost** production.

CONCLUSION

We Are Always One Step Ahead!



We as VAV Technology are proud to be developing and manufacturing new technologies for sustainable denim industry. Thanks to our R&D team and leading suppliers, we are one step ahead of the other manufacturers in the denim market.

- ❖ More than 40 years of experience,
- ❖ Customers at more than 30 Countries,
- ❖ Over 1.000 Machineries globally,
- ❖ Expert Sales and Aftersales Teams,
- ❖ Global Service Network: Fast Recovery&Spare Parts Support
- ❖ Denim Academies for New Trends&Technologies,
- ❖ Member of SAC to achieve & contribute to Goals of Sustainability,

With Da Vinci OB48 Robotic Spraying Technology, we assure **high production capacity & standardized products, less chemical consumption and long life.**

We use the **best components** like mannequins, robotic arms, cloning unit and chemical unit which are made of durable materials.

Together with that we are glad to be in the market with our software, know-how and service coverage.

For further details please email to sales@vavtechnology.com



www.vavtechnology.com

Thank You!