

## DC Milling System - Installation Prerequisites Checklist

The installation of the system can only be released, after this checklist is completed and signed. All information must be reviewed precisely, as incorrect details can add considerable costs to the buyer. Also, this checklist is used for Dental Concept Systems' production management and sales advice notices.

<b>Milling System to be Installed:</b>	<input type="checkbox"/> <b>DC1</b>	<input type="checkbox"/> <b>DC5</b>	<input type="checkbox"/> <b>DC7</b>
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### Client Detail:

Company:			
Address:			
Postal code/ City:			
Country:			
Contact person:			
Phone:		Mobile:	
Email:		Internet:	

### Information regarding modules ordered and further connected devices:

DC Milling System Modules	<input type="checkbox"/> for milling Cr-Co-alloys <input type="checkbox"/> for wet metal <input type="checkbox"/> for grinding ceramics <input type="checkbox"/> for work piece automation <input type="checkbox"/> Tool magazine, Qty: _____
Scanner Type	<input type="checkbox"/> DC VARIOscan 28 <input type="checkbox"/> Medit Identica Hybrid Scanner <input type="checkbox"/> Other existing scanner: _____
Suction unit	<input type="checkbox"/> Zubler Z1 CAM / Z1 CAM PRO <input type="checkbox"/> Zubler FZ-5 VARIO <input type="checkbox"/> Zubler FZ-10 VARIO <input type="checkbox"/> Zubler FZ-20 VARIO <input type="checkbox"/> Other existing suction unit: _____
Sinter oven	<input type="checkbox"/> VARIO S400 Sintering Oven <input type="checkbox"/> MIHM-VOGT HT-2/HTS-2 (M/ZIRKON-120) <input type="checkbox"/> Other existing sinter oven: _____

**Information regarding computers and software modules ordered:**

Language of Computer Systems	<input type="checkbox"/> German <input type="checkbox"/> English
Computer Systems	<input type="checkbox"/> Computer for CAM System <input type="checkbox"/> Computer for CAD System (construction software/scanner) <input type="checkbox"/> Other existing computers: _____
CAD Software EXOCAD Module	<input type="checkbox"/> Module Implant <input type="checkbox"/> Module Bar <input type="checkbox"/> Module Bite Splint <input type="checkbox"/> Module TruSmile <input type="checkbox"/> Virtual articulator <input type="checkbox"/> Module DICOM <input type="checkbox"/> Further modules: _____
CAM Software Preferences <input type="checkbox"/> HYPERDENT CAM <input type="checkbox"/> WORK NC	<input type="checkbox"/> Module for subprograms <input type="checkbox"/> Module grinding ceramics <input type="checkbox"/> additional machine licence(s), Number: _____ <input type="checkbox"/> Other modules or upgrades: _____

**Terms:**

If the system described in this document will be leased or purchased with a lease agreement; the lessee is obligated to carry an insurance policy with sufficient coverage for losses against fire or theft. A copy of the insurance document must be attached to the purchase order or contract.

*Remarks and completions regarding the order:*

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## Delivery

If you questions regarding delivery, please contact us. (See page 9 for contact details.

	YES	NO
Are there any logistical obstacles that could affect delivery? (Pedestrian area, ferry connection, time limit or similar)	<input type="checkbox"/>	<input type="checkbox"/>
Was the path of initial delivery by the shipping company to the space allocated for the device documented by photos and sent to the following email address: <a href="mailto:sales@zublerusa.com">sales@zublerusa.com</a> ?	<input type="checkbox"/>	<input type="checkbox"/>
Were directions to the location sent to the following email address: <a href="mailto:sales@zublerusa.com">sales@zublerusa.com</a> ?	<input type="checkbox"/>	<input type="checkbox"/>
Is it possible to reach the unloading destination with a 7.5-ton (Semi) truck?	<input type="checkbox"/>	<input type="checkbox"/>
Is there a freely accessible possibility of unloading available?	<input type="checkbox"/>	<input type="checkbox"/>
Is there ample parking space available for the truck?	<input type="checkbox"/>	<input type="checkbox"/>
Do you know of any obstacles on the way from the delivery area to the allocated installation space for the device?	<input type="checkbox"/>	<input type="checkbox"/>
What is the distance from delivery area (loading dock) to the front entrance?	Feet (ft):	
On which floor the device is to be set up?	Floor:	
Is a forklift available?	<input type="checkbox"/>	<input type="checkbox"/>
Is a crane needed?	<input type="checkbox"/>	<input type="checkbox"/>
Is a lift carriage (dolly / hand truck) available?	<input type="checkbox"/>	<input type="checkbox"/>

### Space Requirements:

Free space required around the machine:  
210 cm x 130 cm.

### DC1 Specifications:

Width x height x depth	551 mm x 927 mm x 787 mm
Weight	170kg without suction system
Voltage	230V/50Hz
Compressed air	7 - 8 bar dry air, 30-60 l/min
Power	1250VA
Transportation system	Supporting rails, forklift, lifting carriage, crane Manual - 2 Bar Support with 4 People Lifting

### Space Requirements:

Free space required around the machine:  
210 cm x 130 cm.

### DC5 Specifications:

Width x height x depth 735 mm x 1950 mm x 815 mm  
 Weight 530kg without suction system  
 Voltage 230V/50Hz  
 Compressed air 7 - 8 bar dry air, 30-60 l/min  
 Power 1250VA  
 Transportation system Supporting rails, forklift,  
 lifting carriage, crane

### Space Requirements:

Free space required around the machine:  
210 cm x 130 cm.

### DC7 Specifications:

Width x height x depth 735 mm x 1950 mm x 815 mm  
 Weight 645kg without suction system  
 Voltage 230V/50Hz  
 Compressed air 7 - 8 bar dry air, 30-60 l/min  
 Power 1250VA  
 Transportation system Supporting rails, forklift,  
 lifting carriage, crane

### On-site conditions

	YES	NO
What is the smallest width on the path to the entrance?	Ft:	
What is the average width on the path to the place of installation?	Ft:	
Have you planned for shunting gaps while moving the device during delivery?	<input type="checkbox"/>	<input type="checkbox"/>
Are there paved ways, without steps or gaps suitable for the use of a lifting carriage (dolly / hand truck)?	<input type="checkbox"/>	<input type="checkbox"/>
Is a suitable lift (elevator) available?	<input type="checkbox"/>	<input type="checkbox"/>
Maximum lift (elevator) weight?	Kgs:	
What are the measurements of the lift (elevator)? W x H x D (mm)		
Are there special floor coverings or delicate floors? (danger of damage)	<input type="checkbox"/>	<input type="checkbox"/>
Is the weight capacity of the floor sufficient? (danger of damage)	<input type="checkbox"/>	<input type="checkbox"/>
Is the room air conditioned?	<input type="checkbox"/>	<input type="checkbox"/>
Are the environmental conditions within the following acceptable operating specifications?		
Room temperature: Min 15°C (59°F) - Max 30°C (86°F)	<input type="checkbox"/>	<input type="checkbox"/>
Relative air humidity: < 50%	<input type="checkbox"/>	<input type="checkbox"/>

## Electrical, Networking and other considerations

The milling system's IT components and heavy electrical loads require dedicated circuits. Each piece of equipment that requires substantial current should have a dedicated electrical outlet installed by a certified electrician. These dedicated circuits should not have other outlets on the same circuit. Some of the large current items that require dedicated circuits include but are not limited to:

- DC5 Milling Machine
- Sintering, Porcelain & Burnout Ovens
- Air Compressors

If an electrical circuit becomes overloaded; voltage fluctuations, phase displacements and power outages may occur. Furthermore influences from other electronics in the laboratory connected to the same circuit may influence the controls of the CAD-CAM system. This could cause unexpected process errors, as working processes are stopped unexpectedly. Some complex electronic modules will require a reset and computers or milling programs must be re-started. In most cases your work will become unusable.

Only with a clean and stable voltage supply, a failure-free function of electronically controlled technique is possible!

	YES	NO
Are there 4 x 115V connections for scanner, CAD-PC, CAM-PC and monitor?	<input type="checkbox"/>	<input type="checkbox"/>
Does connection for a switch currently exist?	<input type="checkbox"/>	<input type="checkbox"/>
Is there a 230V connection for the sintering oven (DC 150) max. 2.5 kW? (Note: Do not use of an extension cable)	<input type="checkbox"/>	<input type="checkbox"/>
Is there a 230V / 500W connection for the DC milling machine, with fuse protection by means of a separate ELCB (Earth leakage circuit breaker)?	<input type="checkbox"/>	<input type="checkbox"/>
Has there been the necessary planning for separate fuse protection of all system components without the need for extension cables?	<input type="checkbox"/>	<input type="checkbox"/>

## Sintering oven

	YES	NO
Do you know the measurements and floor space required for the sintering oven?	<input type="checkbox"/>	<input type="checkbox"/>
Is the surface or table strong enough to carry the weight of a sinter oven and its accessories, 80kgs (176lbs)?	<input type="checkbox"/>	<input type="checkbox"/>
Are you aware, that the following environmental conditions have to be complied with, to guarantee the precise operation of a sintering oven: <ul style="list-style-type: none"> <li>• Room temperature of min. 10°C to max. 30°C</li> <li>• Relative air humidity of max. 80%, no condensation</li> <li>• Purity of air: dust-free</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>

## Compressed air

You're milling machine was manufactured with highly tuned, precision mechanical and pneumatic components. The air-cooled spindles and pneumatic tool fittings must work with the precision of a micrometer to be able to produce objects with extreme precision and precise fit.

Polluted or humid compressed air leads to premature deterioration, loss of quality and faulty milling. If this does occur it will accompanied bit a hot mechanism and internal blockage which will render the mechanism useless and not repairable.

Condensate separators and ordinary filter elements do not offer sufficient protection!

Water in the sight glass is only an indication of humidity in the compressed air and only prevents direct leakage of small drops of water at nozzles and valves. Deposits and corrosion will develop without further precautions.

Please consider:

Compression absorbs energy. Do not waste energy, by producing unclean compressed air of bad quality. With a high quality compressor unit you can produce a clean energy input and dry compressed air. Any damage to the machine due to poor compressed air quality (verifiable) can lead to costs, which would match that of the investment in a compressed air dryer/conditioner. Also other devices in the lab that require compressed air will benefit from reduced maintenance costs and a significantly prolonged life.

For the correct operation the following minimum requirements have to be complied with:

	YES	NO
Are the following connection values for the dried compressed air permanently exerted? Min 7,0 bar to 9,0 bar dry compressed air	<input type="checkbox"/>	<input type="checkbox"/>
Are the following connection values for the dried compressed air permanently exerted? Permanent air conduction min. 100 litre per minute	<input type="checkbox"/>	<input type="checkbox"/>
Are you aware of the fact, that in case the connection of a refrigerant type dryer in front of the connection of the compressed air of the DC milling machine is faulty or missing, this can lead to a complete destruction of the milling spindle?	<input type="checkbox"/>	<input type="checkbox"/>
Is there available a coupling socket, size K28 (3/8") for plug-in element ¼ for the connection of compressed air?	<input type="checkbox"/>	<input type="checkbox"/>
Are you definitely sure, that the compressed air supplied by you, is dry, cleaned and free of oil?	<input type="checkbox"/>	<input type="checkbox"/>
Is the following air purity guaranteed?		
Water content: class 4	<input type="checkbox"/>	<input type="checkbox"/>
Solid impurities: class 3	<input type="checkbox"/>	<input type="checkbox"/>
Total content of oil: class 3	<input type="checkbox"/>	<input type="checkbox"/>

## IT & Networking

To ensure smooth installation of the DC milling machine and its components, the person responsible for the IT-system in your company should be present during the installation process. Please keep in mind; you are responsible for the installation and proper function of a router.

	YES	NO
Was or will there be an independent network installed between the computer for the CAM system, the computer for the CAD system and the DC milling machine?	<input type="checkbox"/>	<input type="checkbox"/>
Are the distances between the devices more than 4 meters (13ft)?	<input type="checkbox"/>	<input type="checkbox"/>
If these distances are greater: Will there be a network cable and well sockets available prior to system delivery?	<input type="checkbox"/>	<input type="checkbox"/>
<p>The following standard IP-addresses have to be installed on the router (provided by you and adapted by your onsite specialist):</p> <ul style="list-style-type: none"> <li>• Computer for CAD System</li> <li>• Computer for CAM System</li> <li>• DC milling machine</li> </ul> <p>If necessary, the existing firewall must be adapted and you must have a switch prepared for the components listed above.</p> <p>Do you understand and can you fulfil these requirements?</p>	<input type="checkbox"/>	<input type="checkbox"/>
What is the bit rate of the network in your laboratory?	<input type="checkbox"/> 10 MBit <input type="checkbox"/> 100 MBit <input type="checkbox"/> 1 GBit	
<p>Does your internet data transfer rate provide minimum required specifications?</p> <p>Download ≥ 2 MBit/s            Upload ≥ 384 Kbit/s</p>	<input type="checkbox"/>	<input type="checkbox"/>
Are you aware, that the installation of the DC system into an already existing network can be realized only if the person who is responsible for the IT-system in your company is on-site?	<input type="checkbox"/>	<input type="checkbox"/>
Do you understand that Dental Concept Systems GmbH or any company entrusted by us may not conduct integration into an already existing secured network for legal reasons?	<input type="checkbox"/>	<input type="checkbox"/>
Can you ensure that a communication software such as Outlook or similar will be available to you for data exchange purposes until the installation of the DC communications software can be completed?	<input type="checkbox"/>	<input type="checkbox"/>

### Necessary technical knowledge and training courses

	YES	NO
In which language should the training courses be held?	<input type="checkbox"/> German	<input type="checkbox"/> English
Do you understand the usual technical knowledge of a dental technician is not sufficient for many milling processes such as; the manufacture of abutments, bars, milled inlays, supra structures bite splints etc.?	<input type="checkbox"/>	<input type="checkbox"/>
Are you aware, that without previous knowledge you need a minimum training period of 14 days, before you can manufacture usable objects?	<input type="checkbox"/>	<input type="checkbox"/>



With this signature I confirm that I am fully aware and comprehend all of the information in this document. Furthermore I understand that any missing or false information will delay the completion and installation of the DC milling system. Furthermore I am aware that I am responsible any additional costs or expense resulting from any missing or false information.

Client Print Name: \_\_\_\_\_

Client Signature: \_\_\_\_\_

Date: \_\_/\_\_/\_\_

We and the team at Dental Concept Systems are very pleased to be a part of your operation and appreciate your understanding our attention to detail should we ask for more information. We will be available to you should you have any questions, both prior to the installation and continuing forward.

**Confirmation of completion and receipt by Dental Concept Systems GmbH:**

Signature of Production Manager: \_\_\_\_\_ Date: \_\_/\_\_/\_\_

Signature of Sales Manager: \_\_\_\_\_ Date: \_\_/\_\_/\_\_

**Further Information:**

Contact:

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STE 130  
Lawrenceville, GA 30046

You will find further information regarding delivery procedures, installation plans and pictures of model cases on our website:

[www.dental-concept-systems.com](http://www.dental-concept-systems.com)

**Remarks:**

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