Compressed air for exacting demands

Optimally suited for continuous operation of milling and grinding machines

Milling and grinding machines have particularly high demands towards compressors to supply them with reliable and constant compressed air. Milling machines don't stop during operation therefore a constant supply of oil-free and dry compressed air is essential. The duty cycle of compressor units running a milling machine goes far beyond their duty cycle for normal dental operations. Dürr Dental's fully developed technology meets all such demands and is designed for continuous operation. High-quality system parts ensure high precision and quiet running. As a result, the compressor not only runs quieter, but also lasts longer. The innovative membrane-drying unit from Dürr Dental means that there is no need for regeneration times. A constant supply of dry, compressed air in continuous operation is guaranteed.

Why is a high-quality compressed air supply important for milling and grinding machines?

Manufacturers of CAD/CAM systems usually make clear specifications regarding the quality of the connected compressed air supply in accordance with ISO 8573-1 with regard to particle, oil and water content. There are good reasons for this: The spindle, the heart of the milling machine, can corrode due to humid compressed air, introduced dirt can clog the spindle nozzle and lead to mechanical abrasion in the spindle bearing. There is also the possibility of a negative influence on subsequent processing steps such as colouring, coating or glazing due to oil-stained or moist blanks.

How can the performance of my compressed air system and the compressed air quality be maintained?

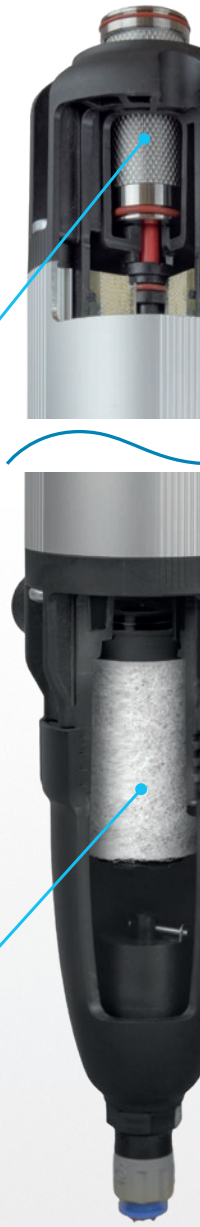
The filters installed in the Dürr Dental compressors ensure that consistent performance is maintained and will help preserve the value of your compressed air system. Even the best filters accumulate germs, dirt and dust over time. The annual filter change therefore guarantees maximum output, reduced wear and a longer service life for the entire compressed air system.

Bacteria filter

The Dürr Dental bacteria filter is a high-performance particulate air filter in filter class ULPA U16 according to standard EN 1822-1:2019-10 / ISO 65U according to standard ISO 29463-3:2018.

Coalescence filter with water collecting container

Working as an inflow filter, the coalescence filter protects the subsequent components of the membrane drying unit. The water is drained through a valve via the collecting container.



DÜRR DENTAL

THE BEST, BY DESIGN

The perfect compressors

Duo Tandem, 1 aggregate

- tank capacity: 50 litres
- air output: at 5 bar 125/145 l/min**
- noise level: at 5 bar 66 dB(A)
- 400 V (3~), 50/60 Hz, order no. 4152-54*

Compressor pressure range (bar) to be adjusted	
KaVo ARCTICA engine	6,5 to 8,0
KaVo Everest engine	6,5 to 8,0
AmannGirrbach ceramill® motion 2 & 3	6,5 to 8,0
AmannGirrbach ceramill® mikro	6,5 to 8,0
vhf camfacture N4	5,5 to 7,0
vhf camfacture K5	6,5 to 8,0
Planmeca PlanMill 40, 40 S	5,5 to 7,0
Zubler DC1, DC5	7,0 to 8,5
Roland DWX-4, DWX-50, DWX-51D	5,5 to 7,0
imes-icore CORiTEC 140i, 240i, 250i, 340i, 350i, 440i, 450i	7,0 to 8,5

Quattro Tandem, 1 aggregate

- tank capacity: 90 litres
- air output: at 5 bar 258/293 l/min**
- noise level: at 5 bar 70 dB(A)
- 400 V (3~), 50/60 Hz, order no. 4642-54*

Compressor pressure range (bar) to be adjusted	
Sirona inLab MC X5	7,0 to 8,5
Wieland ZENOTEC select	7,0 to 8,5
Wieland ZENOTEC mini	7,0 to 8,5
AmannGirrbach ceramill® argotherm	6,5 to 8,0
Planmeca PlanMill 50	6,5 to 8,0
vhf camfacture S1	6,5 to 8,0
vhf camfacture S2	6,5 to 8,0
vhf camfacture K4	6,5 to 8,0
Datron D1	5,5 to 7,0
Zirkonzahn (M1, M3, M4, M5, M6)	6,5 to 8,0
Roland DWX-4W	7,0 to 8,5

Duo Tandem, 2 aggregates

- tank capacity: 50 litres
- air output: at 5 bar 253/292 l/min**
- noise level: at 5 bar 69 dB(A)
- 400 V (3~), 50/60 Hz, order no. 4252-54*

Quattro Tandem, 2 aggregates

- tank capacity: 90 litres
- air output: at 5 bar 516/586 l/min**
- noise level: at 5 bar 72 dB(A)
- 400 V (3~), 50/60 Hz, order no. 4682-54*

Compressor pressure range (bar) to be adjusted	
Ivoclar Vivadent PrograMill (PM3, PM5, PM7)	6,5 to 8,0
Datron D5	7,0 to 8,5
imes-icore CORiTEC 550i, 750i	7,0 to 8,5

* Special feature: electronic control with easily adjustable pressure range, monitoring of air moisture and the option of networking via the software with a PC.

** Output measured without Membrane Drying Unit.

All compressors up to the Duo Tandem are available with optional sound insulation. To avoid pressure fluctuations caused by other air consumers the operation of the CAM system via a separate compressed air network with dedicated compressor is recommended.

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