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1980

For Dental Faculties,
Dental Hospitals, Oral and
Dental Health Centers,
Dental Laboratories, and
Dental Clinics:

CENTRAL DENTAL DUST ASPIRATOR SYSTEMS

dms
Dental Medikal Sanayi

Dental technical devices and technical infrastructure applications have been trusted under DMS assurance in Turkey since 1980...

Since 1980, our company has been the leading organization in Turkey that ensures the technical requirements and service applications of dental education and service units of all sizes, in compliance with regulations and technical standards, while prioritizing safety.

Since our establishment, we have provided technical products and service support to thousands of dental offices, emphasizing the importance of office technical infrastructure. We have been at the forefront of the industry agenda, focusing on the development of hygiene technologies and work safety awareness.

RISKS THAT WORKERS IN DENTAL LABORATORIES ARE EXPOSED TO

What is silicosis disease?

Silicosis is a lung disease caused by exposure to silica dust inhaled through the respiratory system. Silica is a mineral found in industrial dusts that occur during activities in dental clinics and dental laboratories, where dusty environments are common. These dust particles accumulate in the respiratory tract, damaging lung tissue and leading to chronic inflammation and fibrosis. Therefore, dust control methods are of great importance in preventing respiratory diseases that have no effective treatment.

In the dental sector, dentists, dental students, and dental laboratory workers, whether working in private practice or in the public sector, are at high risk for occupational health and safety issues. According to occupational health and safety regulations, dental laboratory areas are classified as high-risk work zones. Legally, inspections and particulate measurements in these work environments highlight the importance of this issue.

In educational laboratories, particulate matter formed during manipulation in casting labs, polishing and sandblasting machines, and CAD-CAM devices must be removed and filtered from the work environment. By installing central dust aspirator systems outside the laboratory environment, the risks faced by workers can be eliminated.

Central Dental Dust Aspirator System

%100
Healthy and Hygienic Air

%85
energy savings

Silent
working environment

DTA 20 Central Dental Dust Aspirator System

High Performance Suction Power: With a suction capacity of 25,000 liters per minute, it provides maximum efficiency.
Low Energy Consumption: Energy savings with the inverter radial fan motor. Provides up to 85% energy savings compared to traditional systems.

Silent Working Environment: Minimum noise at 71 dB(A), enhancing working comfort.

High-Efficiency Filtration: 99.9% dust retention with M-class dust filtration. Continuous performance with automatic filter cleaning.
Safe and User-Friendly Design: Easy management via a touchscreen. Service and maintenance information. Fault signals and monitoring of environmental air conditions. Long-term usage with a minimum 40-liter dust bin.
Smart Automation System: Ability to set working days and hours. Monitoring of fault signals in central dental compressors and aspirator systems.
Hygiene and Health Measures: Effectively filters particles, toxic substances, and aerosols. Provides a safe working environment free from noise and dust.

CENTRAL DENTAL DUST ASPIRATION SYSTEMS	DTA 20
VOLTAGE (V)	380-400 V (3~)
FREQUENCY (Hz)	50
POWER VALUES (Kw)	4
CAPACITY (LT/MIN.)	25000
PRESSURE (-MBAR)	-89
MOTOR SPEED (RPM)	6600
DUST FILTER CLASS	M class toz tutma >%99,9
SOUND LEVEL (dB(A))	71
NUMBER OF MANIPULATION TABLES (C.P.) 100%	12
NUMBER OF MANIPULATION TABLES (C.P.) 70%	20

The sound level may vary by ±3 dB(A) depending on the acoustic condition of the working environment.

Central Dental Dust Aspirator System

Dental Dust Aspirator Valves for Central Systems

Compatible Design with All Systems:
Easily connects to central dust aspirator systems and manipulation tables.

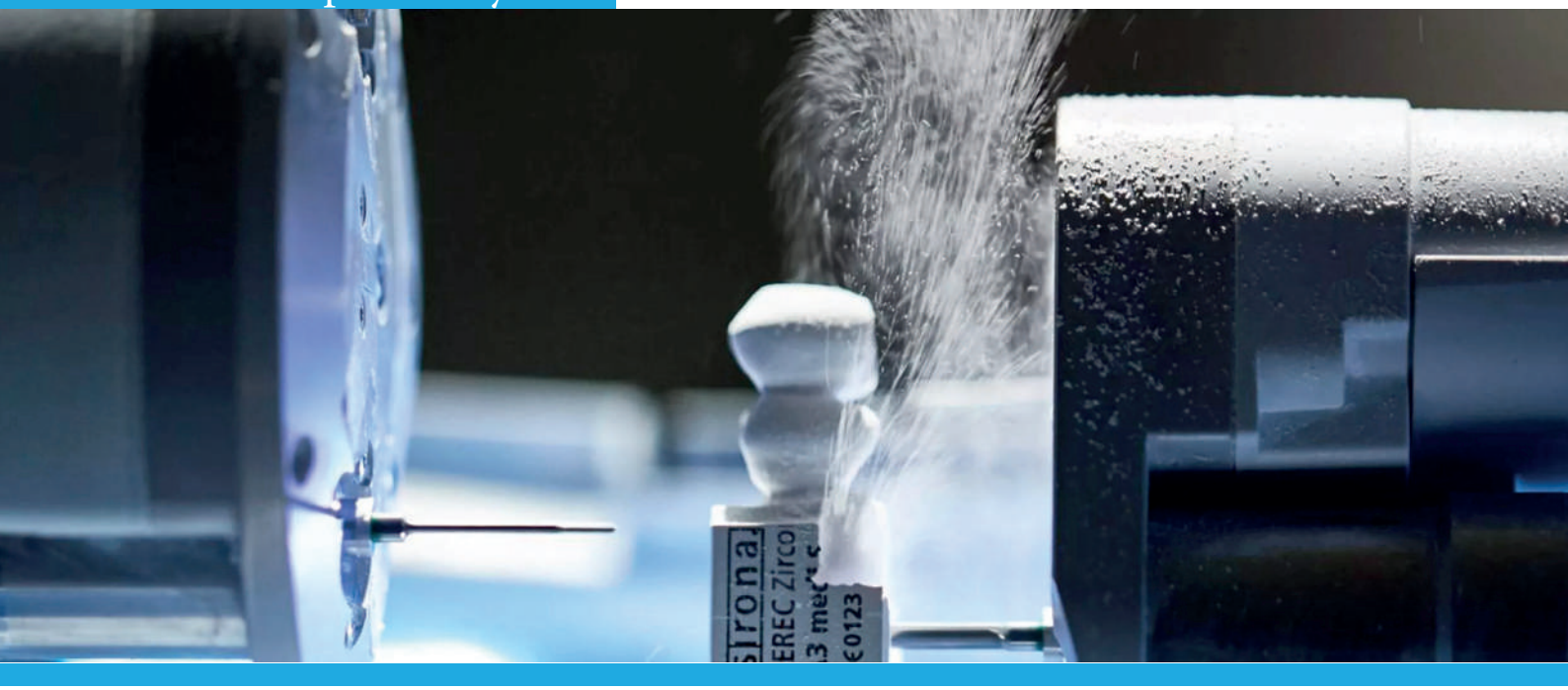
Durable Material:
Made from durable plastic and rubber membrane technology for long-lasting and safe use.

Smart Operating Mechanism:
Provides maximum precision with integration of a trigger line that activates or deactivates when the micromotor operates.

Timing and Efficiency:
Prevents aspiration losses with a delayed valve closing feature via the electronic timing system. Operates with low air pressure to ensure complete transmission of dust to the central system.

Easy Installation:
Effortless installation with fittings compatible with all types of pipe connections.

Central Dust Aspirator System



Central Dust Aspiration Solutions for CAD-CAM Devices

Your Solution Partner for Modern Dental Technologies

CAD-CAM devices stand out in the dental sector for their precise manufacturing and rapid prototyping processes. However, these devices can produce fine particles and toxic aerosols during operation, which can negatively affect both the health of workers and the performance of the devices.

Dust and Particle Management
CAD-CAM devices produce a high amount of microscopic dust during precise processing and material cutting processes.
This situation:

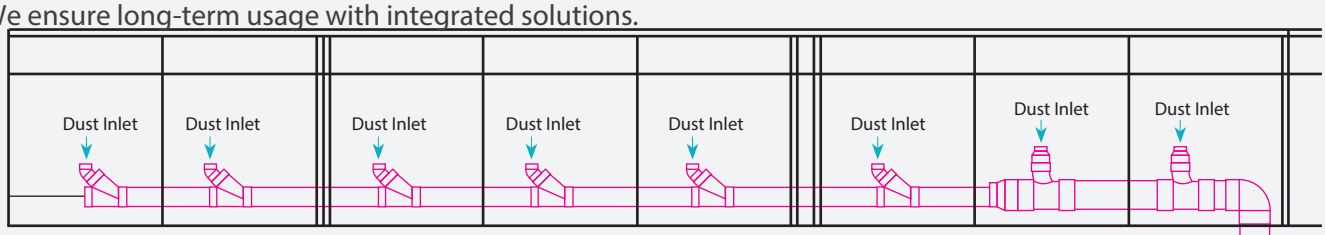
*Shortens the lifespan of the devices,
*Poses a threat to the health of workers,
*Reduces the hygiene of the environment.

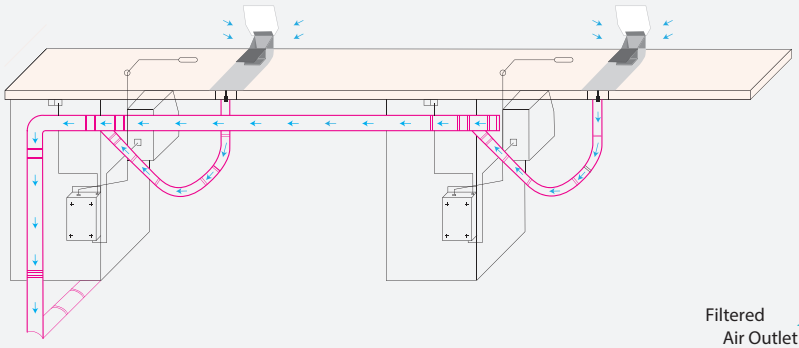
Solution: DMS Central Dust Aspiration Systems
DMS Dental offers specially developed aspiration solutions for CAD-CAM devices.

High Filtration Efficiency:
99.9% dust retention with M-class filters.
Silent Operation:
Minimum noise with a sound level of 71 dB(A).
Smart Automation:
An aspiration system that automatically activates when the device is in use.

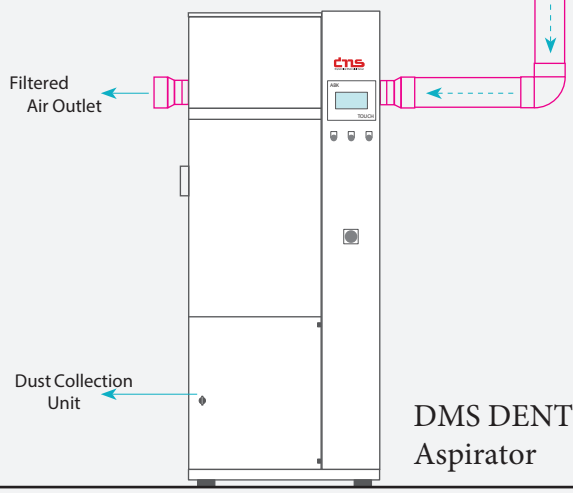
Solution-Oriented Project Design with DMS Dental

Our Project Design Processes for Educational Laboratories, Dental Clinics, and Private Polyclinics:
Needs Analysis:
We assess the current infrastructure of your business.
Design and Simulation:
We propose the most suitable system using 3D modeling.
Installation and Testing Process:
We ensure long-term usage with integrated solutions.





Dust Collection Detail



Preclinical Table Group
Dust Aspiration Principle Line

DMS DENTAL Dust Aspirator

Central Dental Compressed Air and Aspirator Systems TECHNICAL INFRASTRUCTURE APPLICATIONS - REFERENCE LIST

İstanbul Üniversitesi
İstanbul Üniversitesi Diş Hekimliği Fakültesi
Hacettepe Üniversitesi
Abant İzzet Baysal Üniversitesi
Sağlık Bilimleri Üniversitesi
İstanbul Aydın Üniversitesi
Üsküdar University
İzmir Tınaztepe Üniversitesi
Medipol İstanbul Medipol University
Medipol Unv-Ankara
Ankara Medipol Üniversitesi
Giresun Üniversitesi
BAU Bahçeşehir University
Biruni Üniversitesi "Bilimin Geleceği"
İstanbul Kent Üniversitesi
Kocaeli Sağlık ve Teknoloji Üniversitesi KOSTÜ
İstanbul Gelişim Üniversitesi
Antalya Bilim Üniversitesi
Bilim Dent Antalya Bilim Üniversitesi
KÜN Kapadokya Üniversitesi
İSÜ İstinye Üniversitesi İstanbul
İstanbul Galata Üniversitesi
İzmir Kâtip Çelebi University
Bilecik Şeyh Edebali Üniversitesi Diş Hekimliği Fakültesi
Kafkas Üniversitesi
Fırat Üniversitesi 1975
Kütahya Sağlık Bilimleri Üniversitesi
Kastamonu Üniversitesi
Ege Üniversitesi
Yeditepe Üniversitesi
Marmara Üniversitesi
Başkent Üniversitesi
Mustafa Kemal Üniversitesi Hatay
Afyon Kocatepe Üniversitesi
Van Yüzüncü Yıl Üniversitesi
Altınbaş Üniversitesi

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