

## MASTERspace Workstation (Project 03-05) (5/04)



The MASTERspace is a self-contained workstation designed for use in the dental laboratory. It is available in several models that build upon each other. The Basic model has a waste drawer, retractable air hose, and storage cabinet. The Classic model also includes a semi-automatic dust-extraction system (H55 or G55) with a suction hood. The Select model has all the features of the Basic, plus an ABSORmatic multi-user dust-extraction, self-storing suction hood, and built-in retractable arm rests. All three models have air and gas utilities to allow dental technicians to perform a multitude of tasks at the workstation. An option of the MASTERspace is the function package, which consists of a single-place color-corrected light, work-tray hanger, and work-tray shelf. The

MASTERspace is available in several tabletop materials (Techdent, Corian, and Beachwood). MASTERspace is also available in a variety of colors and several different storage cabinet setups. The evaluated Classic unit had one cabinet with three removable drawers (1, 5, and 8 inches deep) along the right side of the workstation. The Classic unit included a H55 front dust-extraction unit with a five-speed control switch, an automatic- or continuous-mode switch, and a main on/off switch. A G55 rear dust-extraction unit is also available. When using the automatic mode the dust-extraction unit turns on when the electric handpiece starts and shuts-off automatically a few seconds after the handpiece stops. The dust-extraction unit is equipped with a filter bag and an optional carbon filter. Additionally, the unit will automatically shut-off when the filter bag needs replacing. The front suction has [two suction hood options](#), one suspends in front of the tabletop and one lies on the tabletop. A gas on/off knob is located on the back panel of the tabletop. A retractable air hose is located on the front right side and has a flexible on/off nozzle with a built-in pressure adjustment valve. Attached to the workstation is a 22" x 8" color-corrected light and work tray shelf. The workstation is 34.5" high (63.5" with light), 47.5" wide, and 24.6" deep. The MASTERspace Classic is available in 110-120V, 50-60Hz or 230V, 50-60Hz.



### Manufacturer:

KaVo America Corporation  
340 East Main Street  
Lake Zurich, IL 60047  
(800) 323-8029  
(847) 555-6825 FAX  
[www.kavousa.com](http://www.kavousa.com)

### Suggested Retail Price:

MASTERspace Basic w/function package – \$5,590.00  
MASTERspace Classic w/function package – \$6,935.00  
MASTERspace Select w/function package – \$11,445.00

### Government Price:

MASTERspace Basic w/function package – \$3,577.60  
MASTERspace Classic w/function package – \$4,438.40  
MASTERspace Select w/function package – \$7,324.80

### ADVANTAGES:

- + Dust-collector turns on/off automatically in conjunction with electric handpiece
- + Full-extension drawer slides allow easy access
- + Stain and scratch resistant Techdent tabletop
- + Easy to remove drawers for cleaning

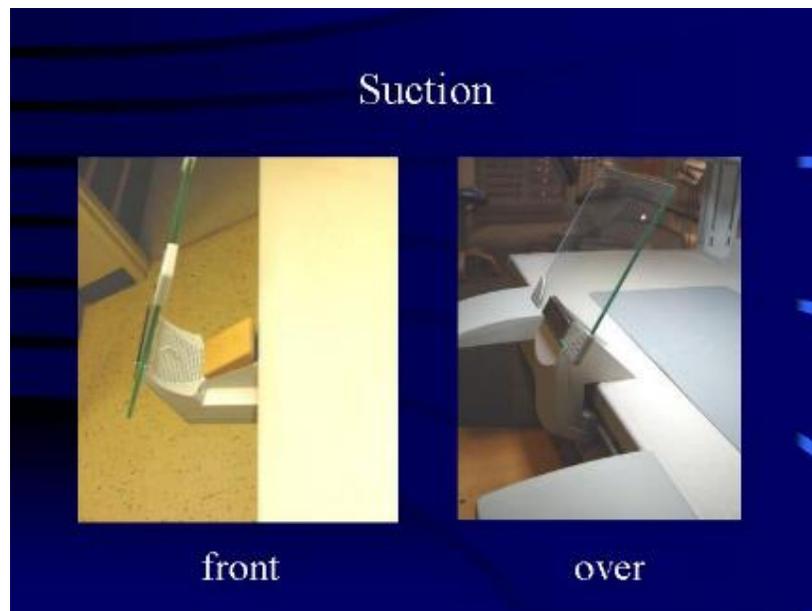
- + Gas, air, and electrical outlet utilities can be placed in several locations when ordering
- + Air nozzle has a built-in pressure-adjustment valve
- + Gas and air preplumbed for easy installation
- + Front or rear dust-extraction available
- + Task light meets IESNA recommendations
- + Five-speed dust-collector
- + Armrests available for all models
- + Workstation controls ergonomically placed
- + Retractable air hose
- + Available in a variety of colors

**DISADVANTAGES:**

- Casepan shelf holds only six casepans
- Weekly polishing of Techdent tabletop required to preserve stain-resistant properties

**SUMMARY AND CONCLUSIONS:**

MASTERspace is a versatile workstation designed for use in the dental laboratory. It provides a variety of options for location of gas, air, and electrical outlet utilities. Additionally, MASTERspace has a wide range of cabinet and drawer configurations. The clinical evaluator found the MASTERspace Classic to have quality components and workmanship. The stain and scratch resistant Techdent tabletop was found to be advantageous, however weekly cleaning with Techdent surface polish is recommended to maintain the integrity of the surface. An overhead task light meets Illuminating Engineering Society of North America (IESNA) recommended levels of luminance for visual tasks of low contrast or very small particle size. The H55 dust collector unit provided adequate suction. The MASTERspace is an ergonomic workstation with all controls and utilities in easy reach of the technician. The **MASTERspace workstation** is rated **Acceptable** for use by the federal dental services



## Laboratory Evaluation

- Illumination - Illuminating Engineering Society of North America (IESNA) Lighting Handbook (1987 Application Guide) The handbook states dental laboratory lighting should be 100-200 footcandles for visual tasks of low contrast or very small size.

All readings  
are in  
footcandles

31	40	54	63	66	60	60	60
120	115	132	166	167	156	130	120
110	130	177	218	222	187	197	132
128	125	181	230	243	200	166	135

Front of Workstation