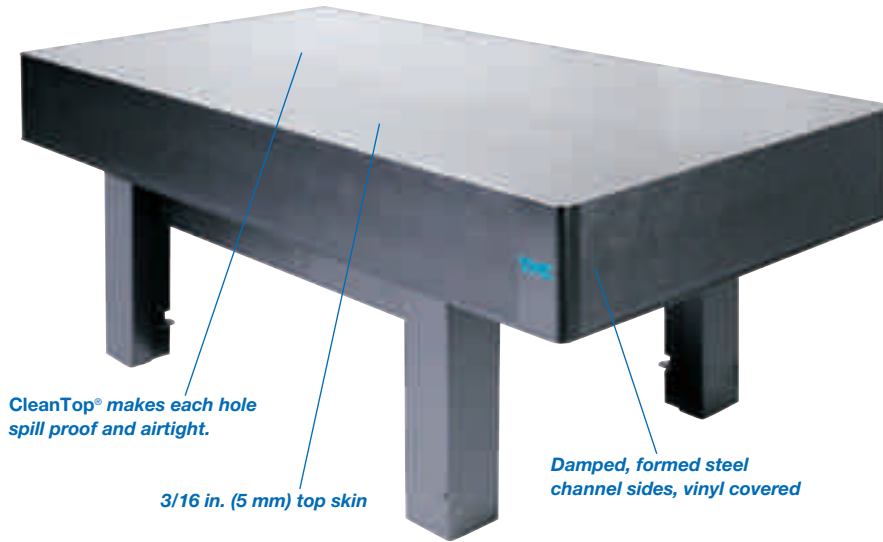


780 SERIES

CleanTop® Optical Top



Our spill-proof CleanTop® Optical Top is the industry standard. It is available in a full range of sizes and three damping levels.

CleanTop meets or exceeds all current industry standards for structural stiffness and damping.

The CleanTop is recommended for the majority of optical table applications.

Features

- Patented CleanTop individual nylon cups under each tapped hole are airtight.
- Three damping levels available.

GENERAL SPECIFICATIONS

- Core:** Steel honeycomb, closed-cell, 0.010 in. thick foil
- Core shear modulus:** 275,000 psi
- Core cell size:** <0.5 in.²
- Core density:** 13.3 lb/ft³ (230 kg/m³)
- Flatness:** ± 0.005 in. (0.13 mm)
- Top skin:** 430 series ferromagnetic stainless steel, 3/16 in. thick (5 mm)
- Compliance, resonant frequency, stiffness:** See charts on page 25
- Sidewalls:** Damped, formed steel channel, vinyl covered
- Tapped holes:** Backed by 1 in. (25 mm) long CleanTop nylon cups

How to Order

1. Choose prefix from chart indicating desired damping level.
2. Choose basic part number for the required size from size chart.
3. Assign suffix indicating hole pattern required.

Model Number Example

Prefix	Basic	Suffix
784	— 455 —	02R
Series	Size	Hole Pattern
CleanTop® maximum damping 3/16" top skin	4' x 8' x 8"	1/4-20 holes on 1" centers No laser port Radius corners

Prefix Chart

Damping Level	Prefix
Maximum dry damping	784
Standard dry damping	783
Nominal dry damping	781

Suffix Chart Hole Patterns/Laser Ports

Suffix	Hole Pattern-Threads	Double Density	Laser Port
00R	No Holes	no	no
01R	1" centers - 1/4-20	no	yes
02R	1" centers - 1/4-20	no	no
11R	25 mm centers - M6	no	yes
12R	25 mm centers - M6	no	no
01DR	1" staggered centers - 1/4-20	yes	yes
02DR	1" staggered centers - 1/4-20	yes	no
11DR	25 mm staggered centers - M6	yes	yes
12DR	25 mm staggered centers - M6	yes	no

Size Chart — Basic Part Number (System 1 Supports Specified Separately)

Surface Dimensions			8 in. Thick Tops (200 mm)	12 in. Thick Tops (300 mm)	18 in. Thick Tops (450 mm)	24 in. Thick Tops (600 mm)
in.	ft	m				
30 x 60		0.75 x 1.5	784 - 432	784 - 632		
30 x 72		0.75 x 1.8	784 - 491	784 - 691		
30 x 96		0.75 x 2.4	784 - 492	784 - 692		
30 x 120		0.75 x 3.0	784 - 493	784 - 693		
36 x 60	3 x 5	0.9 x 1.5	784 - 436	784 - 636		
36 x 72	3 x 6	0.9 x 1.8	784 - 439	784 - 639		
36 x 96	3 x 8	0.9 x 2.4	784 - 440	784 - 640	784 - 740	784 - 840
36 x 120	3 x 10	0.9 x 3.0	784 - 494	784 - 694	784 - 794	784 - 894
40 x 60		1.0 x 1.5	784 - 443	784 - 643		
40 x 80		1.0 x 2.0	784 - 444	784 - 644	784 - 744	784 - 844
40 x 120		1.0 x 3.0	784 - 445	784 - 645	784 - 745	784 - 845
48 x 48	4 x 4	1.2 x 1.2	784 - 447	784 - 647		
48 x 60	4 x 5	1.2 x 1.5	784 - 449	784 - 649		
48 x 72	4 x 6	1.2 x 1.8	784 - 451	784 - 651	784 - 751	784 - 851
48 x 96	4 x 8	1.2 x 2.4	784 - 455	784 - 655	784 - 755	784 - 855
48 x 120	4 x 10	1.2 x 3.0	784 - 459	784 - 659	784 - 759	784 - 859
48 x 144	4 x 12	1.2 x 3.6	784 - 463	784 - 663	784 - 763	784 - 863
48 x 168	4 x 14	1.2 x 4.2	784 - 465	784 - 665	784 - 765	784 - 865
48 x 192	4 x 16	1.2 x 4.8	784 - 467	784 - 667	784 - 767	784 - 867
59 x 60	5 x 5	1.5 x 1.5	784 - 470	784 - 670	784 - 770	784 - 870
59 x 72	5 x 6	1.5 x 1.8	784 - 471	784 - 671	784 - 771	784 - 871
59 x 80		1.5 x 2.0	784 - 472	784 - 672	784 - 772	784 - 872
59 x 96	5 x 8	1.5 x 2.4	784 - 473	784 - 673	784 - 773	784 - 873
59 x 120	5 x 10	1.5 x 3.0	784 - 475	784 - 675	784 - 775	784 - 875
59 x 144	5 x 12	1.5 x 3.6	784 - 476	784 - 676	784 - 776	784 - 876
59 x 168	5 x 14	1.5 x 4.2	784 - 477	784 - 677	784 - 777	784 - 877
59 x 192	5 x 16	1.5 x 4.8	784 - 478	784 - 678	784 - 778	784 - 878
Weight Factor (WF) (approx.); Area x WF = Total Weight			0.225 lb/in. ² (0.016 kg/cm ²)	0.265 lb/in. ² (0.019 kg/cm ²)	0.420 lb/in. ² (0.030 kg/cm ²)	0.475 lb/in. ² (0.033 kg/cm ²)

790 SERIES

ClassOne™ CleanTop® Optical Top



The ClassOne™ CleanTop® Optical Top design is an extension of the original CleanTop, adapted for cleanrooms.

It is Class 100 cleanroom compatible with an all-stainless steel construction (stainless steel cups optional).

Features

- 3/16 in. (5 mm) thick top skin
- Two levels of fixed damping
- Individual cups under each tapped hole are airtight
- Stainless steel top, bottom, sides
- Cleanroom-compatible design and packaging

GENERAL SPECIFICATIONS

Core: Steel honeycomb, closed-cell, 0.010 in. thick foil

Core shear modulus: 275,000 psi

Core cell size: <0.5 in.²

Core density: 13.3 lbs/ft³ (230 kg/m³)

Flatness: ± 0.005 in. (0.13 mm)

Top and bottom skins: 430 series ferromagnetic stainless steel

Compliance, resonant frequency, stiffness: See charts on page 25

Sidewalls: Stainless steel with damped interior surface

Tapped holes: Backed by 1 in. (25 mm) long nylon (optional stainless steel 304 alloy) cups

How to Order

1. Choose prefix from chart indicating desired damping level.
2. Choose basic part number for the required size from size chart.
3. Assign suffix indicating hole pattern required.

Model Number Example

Prefix	Basic	Suffix
794	455	02R
Series	Size	Hole Pattern
ClassOne™ CleanTop® maximum damping 3/16" top skin	4' x 8' x 8"	1/4-20 holes on 1" centers No laser port Radius corners

Prefix Chart

Damping Level	Prefix
Maximum dry damping	794
Standard dry damping	793
Maximum dry damping with stainless steel cups	794ss
Standard dry damping with stainless steel cups	793ss

Suffix Chart Hole Patterns/Laser Ports

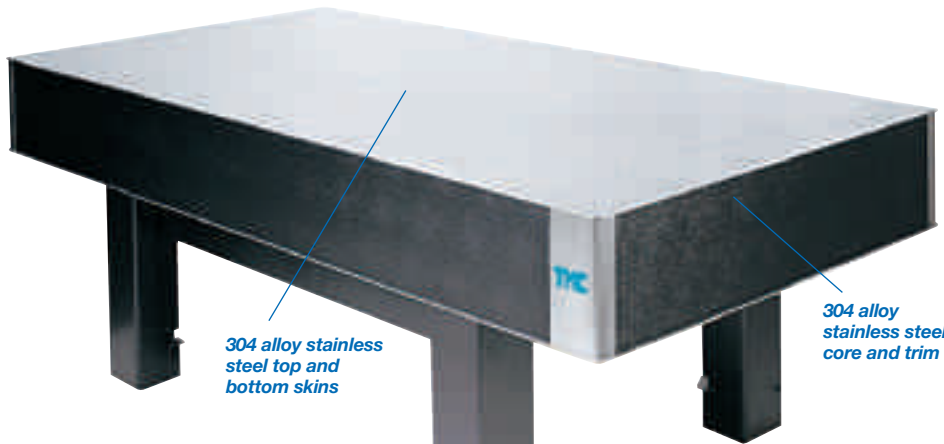
Suffix	Hole Pattern-Threads	Double Density	Laser Port
00R	No Holes	no	no
01R	1" centers - 1/4-20	no	yes
02R	1" centers - 1/4-20	no	no
11R	25 mm centers - M6	no	yes
12R	25 mm centers - M6	no	no
01DR	1" staggered centers - 1/4-20	yes	yes
02DR	1" staggered centers - 1/4-20	yes	no
11DR	25 mm staggered centers - M6	yes	yes
12DR	25 mm staggered centers - M6	yes	no

Size Chart — Basic Part Number (System 1 Supports Specified Separately)

Surface Dimensions			8 in. Thick Tops (200 mm)	12 in. Thick Tops (300 mm)	18 in. Thick Tops (450 mm)	24 in. Thick Tops (600 mm)
in.	ft	m				
30 x 60		0.75 x 1.5	794 - 432	794 - 632		
30 x 72		0.75 x 1.8	794 - 491	794 - 691		
30 x 96		0.75 x 2.4	794 - 492	794 - 692		
30 x 120		0.75 x 3.0	794 - 493	794 - 693		
36 x 60	3 x 5	0.9 x 1.5	794 - 436	794 - 636		
36 x 72	3 x 6	0.9 x 1.8	794 - 439	794 - 639		
36 x 96	3 x 8	0.9 x 2.4	794 - 440	794 - 640	794 - 740	794 - 840
36 x 120	3 x 10	0.9 x 3.0	794 - 494	794 - 694	794 - 794	794 - 894
40 x 60		1.0 x 1.5	794 - 443	794 - 643		
40 x 80		1.0 x 2.0	794 - 444	794 - 644	794 - 744	794 - 844
40 x 120		1.0 x 3.0	794 - 445	794 - 645	794 - 745	794 - 845
48 x 48	4 x 4	1.2 x 1.2	794 - 447	794 - 647		
48 x 60	4 x 5	1.2 x 1.5	794 - 449	794 - 649		
48 x 72	4 x 6	1.2 x 1.8	794 - 451	794 - 651	794 - 751	794 - 851
48 x 96	4 x 8	1.2 x 2.4	794 - 455	794 - 655	794 - 755	794 - 855
48 x 120	4 x 10	1.2 x 3.0	794 - 459	794 - 659	794 - 759	794 - 859
48 x 144	4 x 12	1.2 x 3.6	794 - 463	794 - 663	794 - 763	794 - 863
48 x 168	4 x 14	1.2 x 4.2	794 - 465	794 - 665	794 - 765	794 - 865
48 x 192	4 x 16	1.2 x 4.8	794 - 467	794 - 667	794 - 767	794 - 867
59 x 60	5 x 5	1.5 x 1.5	794 - 470	794 - 670	794 - 770	794 - 870
59 x 72	5 x 6	1.5 x 1.8	794 - 471	794 - 671	794 - 771	794 - 871
59 x 80		1.5 x 2.0	794 - 472	794 - 672	794 - 772	794 - 872
59 x 96	5 x 8	1.5 x 2.4	794 - 473	794 - 673	794 - 773	794 - 873
59 x 120	5 x 10	1.5 x 3.0	794 - 475	794 - 675	794 - 775	794 - 875
59 x 144	5 x 12	1.5 x 3.6	794 - 476	794 - 676	794 - 776	794 - 876
59 x 168	5 x 14	1.5 x 4.2	794 - 477	794 - 677	794 - 777	794 - 877
59 x 192	5 x 16	1.5 x 4.8	794 - 478	794 - 678	794 - 778	794 - 878
Weight Factor (WF) (approx.); Area x WF = Total Weight			0.225 lb/in. ² (0.016 kg/cm ²)	0.265 lb/in. ² (0.019 kg/cm ²)	0.420 lb/in. ² (0.030 kg/cm ²)	0.475 lb/in. ² (0.033 kg/cm ²)

710 SERIES

Non-Magnetic CleanTop® Optical Top



TMC's CleanTop® Optical Table, available in a “non-magnetic” construction, is recommended for applications requiring the support of a high-strength magnet or the maintenance of a homogenous magnetic field.

Though no alloy of stainless steel can be 100% non-magnetic, the lower carbon content of the 300 series

alloys offers a dramatic reduction in ferromagnetic properties. Alloys are available with even less ferromagnetism than 304 alloy such as 316 L, but 304 is generally considered to be the best price-to-performance trade-off for a non-magnetic table. For a discussion of other alloys, contact TMC.

Features

- 100% constructed from 304 alloy stainless steel (non-magnetic).
- 0.165 in. thick top and bottom skins.
- CleanTop patented spill-proof tapped hole design.

GENERAL SPECIFICATIONS

- Core:** 304 alloy stainless steel honeycomb, closed-cell, 0.010 in. thick foil
- Core shear modulus:** 275,000 psi
- Core cell size:** <0.5 in.²
- Core density:** 13.3 lb/ft³ (230 kg/m³)
- Flatness:** ± 0.005 in. (0.13 mm)
- Skins:** 304 alloy stainless steel
- Compliance, resonant frequency, stiffness:** See charts on page 25
- Sidewalls:** Vinyl covered composite side with damped interior surface
- Tapped holes:** Backed by 1 in. (25 mm) long nylon cups

How to Order

1. Choose prefix from chart indicating desired damping level.
2. Choose basic part number for the required size from size chart.
3. Assign suffix indicating hole pattern required.

Model Number Example

Prefix	Basic	Suffix
714	455	02R
Series	Size	Hole Pattern
Non-Magnetic CleanTop®	4' x 8' x 8"	1/4-20 holes on 1" centers No laser port Radius corners

Prefix Chart

Damping Level	Prefix
Maximum dry damping	714

Suffix Chart Hole Patterns/ Laser Ports

Suffix	Hole Pattern-Threads	Double Density	Laser Port
00R	No Holes	no	no
01R	1" centers - 1/4-20	no	yes
02R	1" centers - 1/4-20	no	no
11R	25 mm centers - M6	no	yes
12R	25 mm centers - M6	no	no
01DR	1" staggered centers - 1/4-20	yes	yes
02DR	1" staggered centers - 1/4-20	yes	no
11DR	25 mm staggered centers - M6	yes	yes
12DR	25 mm staggered centers - M6	yes	no

Size Chart — Basic Part Number (System 1 Supports Specified Separately)

Surface Dimensions			8 in. Thick Tops (200 mm)	12 in. Thick Tops (300 mm)	18 in. Thick Tops (450 mm)	24 in. Thick Tops (600 mm)
in.	ft	m				
30 x 60		0.75 x 1.5	714 - 432	714 - 632		
30 x 72		0.75 x 1.8	714 - 491	714 - 691		
30 x 96		0.75 x 2.4	714 - 492	714 - 692		
30 x 120		0.75 x 3.0	714 - 493	714 - 693		
36 x 60	3 x 5	0.9 x 1.5	714 - 436	714 - 636		
36 x 72	3 x 6	0.9 x 1.8	714 - 439	714 - 639		
36 x 96	3 x 8	0.9 x 2.4	714 - 440	714 - 640	714 - 740	714 - 840
36 x 120	3 x 10	0.9 x 3.0	714 - 494	714 - 694	714 - 794	714 - 894
40 x 60		1.0 x 1.5	714 - 443	714 - 643		
40 x 80		1.0 x 2.0	714 - 444	714 - 644	714 - 744	714 - 844
40 x 120		1.0 x 3.0	714 - 445	714 - 645	714 - 745	714 - 845
48 x 48	4 x 4	1.2 x 1.2	714 - 447	714 - 647		
48 x 60	4 x 5	1.2 x 1.5	714 - 449	714 - 649		
48 x 72	4 x 6	1.2 x 1.8	714 - 451	714 - 651	714 - 751	714 - 851
48 x 96	4 x 8	1.2 x 2.4	714 - 455	714 - 655	714 - 755	714 - 855
48 x 120	4 x 10	1.2 x 3.0	714 - 459	714 - 659	714 - 759	714 - 859
48 x 144	4 x 12	1.2 x 3.6	714 - 463	714 - 663	714 - 763	714 - 863
48 x 168	4 x 14	1.2 x 4.2	714 - 465	714 - 665	714 - 765	714 - 865
48 x 192	4 x 16	1.2 x 4.8	714 - 467	714 - 667	714 - 767	714 - 867
59 x 60	5 x 5	1.5 x 1.5	714 - 470	714 - 670	714 - 770	714 - 870
59 x 72	5 x 6	1.5 x 1.8	714 - 471	714 - 671	714 - 771	714 - 871
59 x 80		1.5 x 2.0	714 - 472	714 - 672	714 - 772	714 - 872
59 x 96	5 x 8	1.5 x 2.4	714 - 473	714 - 673	714 - 773	714 - 873
59 x 120	5 x 10	1.5 x 3.0	714 - 475	714 - 675	714 - 775	714 - 875
59 x 144	5 x 12	1.5 x 3.6	714 - 476	714 - 676	714 - 776	714 - 876
59 x 168	5 x 14	1.5 x 4.2	714 - 477	714 - 677	714 - 777	714 - 877
59 x 192	5 x 16	1.5 x 4.8	714 - 478	714 - 678	714 - 778	714 - 878
Weight Factor (WF) (approx.); Area x WF = Total Weight			0.225 lb/in. ² (0.016 kg/cm ²)	0.265 lb/in. ² (0.019 kg/cm ²)	0.420 lb/in. ² (0.030 kg/cm ²)	0.475 lb/in. ² (0.033 kg/cm ²)