DRP Series Damping Vibration Isolation Optical Tables, 600–4500 mm Length

Model DRP Series · waveqvanta.com/products/drp-series-damping-vibration-isolation-optical-tables

Dual-frequency damped optical table on an integral welded frame, for laser and precision mechanical experiments.



The DRP Series is a dual-frequency damped vibration isolation optical table built on an integral welded frame, offered in 34 tabletop sizes from 600 × 600 mm to 4500 × 1500 mm. Tops are 100, 200 or 300 mm thick, with a stainless steel working surface carrying M6 holes on a 25 mm grid and a total height of 800 mm. Most sizes can also be supplied with a bonded trussed honeycomb top with individual cleaning cups (-K version).

Key features

- Dual-frequency damped vibration isolation; datasheet resonant frequency below 6–15 Hz
- SUS430 (1Cr17) high magnetic conductivity stainless steel working surface as standard; SUS304 (-304, weak magnetic) or SUS316 (-316, very weak magnetic) optional
- Matte black, low-reflection working surface with M6 holes on a 25 mm × 25 mm grid
- Integral welded frame for rigidity and stability, with height adjustment of −10 to +15 mm
- Welded tabletop as default; bonded trussed honeycomb top with individual cleaning cups (-K) available on most sizes
- Grey aluminum-plastic side panels with stainless steel corner covers
- Silent casters with brakes; accessories: wrench and bullseye level

Specifications

Isolation Type	Dual-frequency damped vibration isolation
Resonant Frequency	Below 6–15 Hz
Tabletop Sizes	600 × 600 mm to 4500 × 1500 mm
Tabletop Thickness	100 / 200 / 300 mm
Tabletop Structure	Welded (default); bonded trussed honeycomb with individual cleaning cups (-K)
Working Surface	4–6 mm thick stainless steel, SUS430 (1Cr17) standard
Optional Surface Materials	SUS304 (-304), SUS316 (-316)
Working Surface, Width Over 1500 mm	1Cr13 (410) stainless steel
Bottom Skin	4–6 mm thick carbon steel
Surface Flatness	0.02–0.05 mm / 600 mm × 600 mm
Surface Finish	Matte black, low reflection
Mounting Holes	M6
Hole Grid	25 mm × 25 mm
Hole to Border	37.5 mm
Total Height (Tabletop and Supports)	800 mm
Height Adjustment	−10 to +15 mm
Tabletop Weight per Area	120 kg/m^2 (100 mm), 140 kg/m^2 (200 mm), 167 kg/m^2 (300 mm)

Load Capacity	600 kg (100 mm top), 1300 kg (200 mm top), 1950 kg (300 mm top)
Table Foot Area	120 × 120 mm (100 mm top), 200 × 200 mm (200 and 300 mm top)
Supports	4 legs up to 2400 mm length, 6 legs from 3000 mm length
Frame	Integral welded frame with height adjustment structure
Side Panels	Grey aluminum-plastic plate, stainless steel corner covers
Casters	Silent casters with brake
Accessories	Wrench, bullseye level

Model overview

Model	Size L × W × H (mm)	Top Thickness (mm)	Top Weight (kg)	Foot Area (mm)	Load (kg)	Legs	-K Version	Working Surface
DRP06-06	600 × 600 × 800	100	43	120 × 120	600	4	Available	SUS430
DRP09-06	900 × 600 × 800	100	65	120 × 120	600	4	Available	SUS430
DRP10-08	1000 × 800 × 800	100	96	120 × 120	600	4	Available	SUS430
DRP12-06	1200 × 600 × 800	100	86	120 × 120	600	4	Available	SUS430
DRP12-08	1200 × 800 × 800	100	115	120 × 120	600	4	Available	SUS430
DRP12-09	1200 × 900 × 800	100	130	120 × 120	600	4	Available	SUS430
DRP12-12	1200 × 1200 × 800	100	173	120 × 120	600	4	Available	SUS430
DRP15-09	1500 × 900 × 800	200	189	200 × 200	1300	4	Available	SUS430
DRP15-10	1500 × 1000 × 800	200	210	200 × 200	1300	4	Available	SUS430
DRP15-12	1500 × 1200 × 800	200	252	200 × 200	1300	4	Available	SUS430
DRP15-15	1500 × 1500 × 800	200	315	200 × 200	1300	4	Available	SUS430
DRP18-09	1800 × 900 × 800	200	227	200 × 200	1300	4	Available	SUS430
DRP18-10	1800 × 1000 × 800	200	252	200 × 200	1300	4	Available	SUS430
DRP18-12	1800 × 1200 × 800	200	302	200 × 200	1300	4	Available	SUS430
DRP18-15	1800 × 1500 × 800	200	378	200 × 200	1300	4	Available	SUS430
DRP20-10	2000 × 1000 × 800	200	280	200 × 200	1300	4	Available	SUS430
DRP20-12	2000 × 1200 × 800	200	336	200 × 200	1300	4	Available	SUS430
DRP20-15	2000 × 1500 × 800	200	420	200 × 200	1300	4	Available	SUS430
DRP24-12	2400 × 1200 × 800	200	403	200 × 200	1300	4	Available	SUS430
DRP24-15	2400 × 1500 × 800	200	504	200 × 200	1300	4	Available	SUS430
DRP24-18	2400 × 1800 × 800	200	605	200 × 200	1300	4	No	1Cr13 (410)
DRP30-12	3000 × 1200 × 800	300	601	200 × 200	1950	6	Available	SUS430
DRP30-15	3000 × 1500 × 800	300	752	200 × 200	1950	6	Available	SUS430
DRP30-18	3000 × 1800 × 800	300	902	200 × 200	1950	6	No	1Cr13 (410)
DRP30-20	3000 × 2000 × 800	300	1002	200 × 200	1950	6	No	1Cr13 (410)
DRP35-12	3500 × 1200 × 800	300	701	200 × 200	1950	6	No	SUS430
DRP35-15	3500 × 1500 × 800	300	877	200 × 200	1950	6	No	SUS430
DRP35-18	3500 × 1800 × 800	300	1052	200 × 200	1950	6	No	1Cr13 (410)
DRP35-20	3500 × 2000 × 800	300	1169	200 × 200	1950	6	No	1Cr13 (410)
DRP40-12	4000 × 1200 × 800	300	802	200 × 200	1950	6	No	SUS430
DRP40-15	4000 × 1500 × 800	300	1002	200 × 200	1950	6	No	SUS430
DRP40-18	4000 × 1800 × 800	300	1202	200 × 200	1950	6	No	1Cr13 (410)
DRP40-20	4000 × 2000 × 800	300	1336	200 × 200	1950	6	No	1Cr13 (410)
DRP45-15	4500 × 1500 × 800	300	1127	200 × 200	1950	6	No	SUS430

Typical applications

- Precision mechanical motion experiments
- Laser experiments
- Millimeter-wave radar testing
- Optical instrument setups