

MSI Guardian Chair

I. Chair with no arms

II. Breakaway Arms

III. Loop Arms

I. Chair with no arms

65mm black dual wheel hooded carpet **casters** with 7/16"x7/8" stem with retainer ring.

Black 5-leg intensive-use Al **base**, 28" diameter at caster centers, matte textured finish.

Suspa #C19-62141HD gas lift, 50 mm, 17-4, pneumatic lift **cylinder**.

Collier-Keyworth Torsion dual torsion bar **control mechanism**, knee pivot, synchro-tilt action minimizes seat front lift and tilts the back 2 degrees for each degree of seat tilt. Hand wheel tilt tension adjustment. Tilt action can be locked in "at-rest" position.

Seat 21 1/4"d. x 23 1/2"w. (upholstered). Ergonomically contoured 3/4" thick, 9 ply laminated hardwood inner seat with waterfall front and threaded steel fasteners for attaching tilt mechanism and arms.

Seat foam. Sculptured, 3-3/4" thick (min.), fabricated Q31 polyurethane foam bolster pad, 3" thick core and 3/4" topper pad. 27-36 lb. IFD, 2.4 sag factor, and 2.5 lb./ft³ density.

Back upright. Black, 3" x 3/8" high strength steel, "J" type, with 4" travel vertical adjustment mechanism, and 1/4" thick x 7 11/16" x 6 1/2" upper attachment plate. Attaches to the inner back with four 1/4-20 steel screws and to the control mechanism with three 5/16-18 bolt & nut fasteners.

Back 28"h. x 23"w. (upholstered). 1/2" thick, 7 ply laminated hardwood inner back, ergonomically contoured horizontally and vertically with threaded steel fasteners. 3/16" thick, 3 ply laminated hardwood outer back attached with nine 5/16" dia. nylon x-mas tree fasteners. Formed, 1/16" thick black high impact polystyrene back upright cover.

Inner back foam. 2-3/4" thick, multi-density, multi-IFD, fabricated polyurethane foam. Core of 2" thick R17X, 19-23 lb. IFD, 1.9 sag factor, 1.1 lb./ft³ density. Bolster, to create edge shape, of 1" x 1-1/4" M100X, 90-110 lb. IFD, 1.9 sag factor, 2.1 lb./ft³ density. Topper of 3/4" thick R17X, 19-23 lb. IFD, 1.9 sag factor, 1.1 lb./ft³ density.

Chair Measurements. As measured with BIFMA chair measuring device.

Backrest height (from seat to top of back rest): 26 5/8" to 30 5/8"

Seat Height: 18 3/8" to 23"

Seat Depth: 18 3/4"

Backrest to seat angle: 97 to 107 degrees

Seat Pan angle (at rest): +1 degree

II. Breakaway Arms

Arm Pads. 3"x10"x1-3/8", ergonomically contoured, black, self-skinned, textured, 60 durometer polyurethane.

Arms. Seven position, 2-1/4" travel, twist knob height adjustment in high-performance polymer housing. 1/4" x 2-1/4" high strength steel frame with polymer insulated hinge to "swing" the arm pad to the rear for easier entry and exit from the chair. Four position, 1-1/4" travel, lever actuated width adjustment with high-performance polymer levers and steel wrapped housing.

III. Loop Arms

Arm Pads. Closed loop, black, self-skinned, textured, 60 durometer polyurethane.

Arms. Eight-position, 2-3/4" travel, push button height adjustment in high performance polymer housing. 1/4" x 2-1/4" high strength steel frame. Four-position, 1-1/4" travel, lever actuated width adjustment with high-performance polymer levers and steel wrapped housing.