

PRODUCT SPECIFICATIONS

Intellect Wave® Classroom Furniture

April 2021

TECHNICAL SPECIFICATIONS

Shell

One-piece contoured shell are made of static-free high-impact polypropylene. Colorfastness ensured through complete color impregnation throughout the molded part. Strength and durability are assured through an engineered internal structural cavity which eliminates the need for unsightly ribs on the back of the shell. Rolled edges for comfort and strength. Textured front and back. Wide, ergonomic handle molded into chair back for ease of mobility. Shell fastens to frame with six $\frac{1}{4}$ -20 x $\frac{3}{8}$ " Torx head screws. Upholstered chairs have partially exposed polypropylene surfaces. Fabric is upholstered over $\frac{9}{16}$ " foam on the back and seat and fastened to an inner shell with screws. Back upholstery covers handle.

Frames

Cantilever Chair, 4-Leg Chair, 4-Leg Chair On Casters, Music Chair, Café Stools (24" & 30"), Double-Entry Desk and Tablet Arm Chair

Frames consist of $\frac{3}{4}$ " x $1\frac{1}{2}$ " O.D. 14-gauge elliptical steel tubing welded to a 14-gauge steel plate. Frame may be nickel-chrome plated or finished in powder-coat paint after all welding processes are complete. Music chair has a forward-tilted (5°) seat back and an elevated seat height to promote a more upright posture.

G2 Tablet Arm Chair

G2 tablet arm support consists of a $5\frac{1}{64}$ " x $1\frac{37}{64}$ " 14-gauge elliptical tube welded to the seat plate and welded to a 16-gauge steel support bracket. The pivot mechanism consists of two pivot cams, two steel hinge barrels, a pivot shaft, and a hinged steel support plate which fastens to the tablet board. The support is finished in powder-coat paint. Right- and left-hand models are available.

Fixed-Height – 4-Leg Desk, Trapezoid Desk and Tripod Desk

Frame is of $\frac{3}{4}$ " x $1\frac{1}{2}$ " O.D. 14-gauge elliptical steel tubing welded to a heavy 11-gauge steel plate. Frame is nickel-chrome plated or finished in powder-coat paint after all welding processes are complete. Legs fasten to top with K50 2.24 x 13 mm Torx head screws for hard plastic tops. Legs fasten to top with #12 x $\frac{3}{4}$ " Phillips pan head screws for laminate tops.

Fixed-Height – Cantilever Desk

Frame consists of $\frac{3}{4}$ " x $1\frac{1}{2}$ " O.D. 14-gauge elliptical steel tubing welded to a heavy 11-gauge mounting bracket. Frame will be nickel-chrome plated or finished in powder-coat paint after all welding processes are complete. Frames fasten to top with K50 2.24 x 13 mm Torx head screws for hard plastic tops. Frames fasten to top with #12 x $\frac{3}{4}$ " Phillips pan head screws for laminate tops.

Adjustable-Height – 4-Leg Desk, Trapezoid Desk, Tripod Desk and ADA 4-Leg Desk

Top frame consists of $1\frac{11}{16}$ " x 1" O.D. 11-gauge elliptical steel tube welded to a heavy 11-gauge steel plate. Top section is nickel-chrome plated or finished in powder-coat paint after all welding processes are complete. Telescoping lower section of $\frac{3}{4}$ " x $1\frac{1}{2}$ " O.D. 14-gauge elliptical steel tube in bright chrome finish; locks with $\frac{1}{4}$ " screw in 1" increments in a 22"-34" height range. Legs fasten to top with K50 2.24 x 13 mm Torx head screws for hard plastic tops. Legs fasten to top with #12 x $\frac{3}{4}$ " Phillips pan head screws for laminate tops. Tripod desks have $\frac{7}{16}$ " diameter steel wire crossbrace welded to the three legs.

Adjustable-Height – Cantilever Desk, Sit/Stand Cantilever Desk and ADA Cantilever Desk

Top section of frame is constructed from $\frac{3}{4}$ " x $1\frac{1}{2}$ " O.D. 14-gauge elliptical steel tube welded to a heavy 11-gauge steel mounting bracket. Top section is nickel-chrome plated or finished in powder-coat paint after all welding processes are complete. Telescoping lower section and section with footrest for sit/stand desk, is in bright chrome finish; locks with $\frac{1}{4}$ " screw in 1" increments. Adjustable-height range is 24"-30", sit/stand height range is 29"-41" and ADA height range is 28"-34". Legs fasten to top with K50 2.24 x 13 mm Torx head screws for hard plastic tops. Legs fasten to top with #12 x $\frac{3}{4}$ " Phillips pan head screws for laminate tops. Unique to the sit/stand cantilever desk, the desktop is slanted 3.5 degrees towards the user side.



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Task Chair and Task Stool

The frame is constructed of a 12-gauge base plate, powder-coated black.

Task Chair with Tilt Mechanism

The tilt mechanism is attached to the underside of the chair with a 10-gauge steel mounting plate.

Pneumatic Height Adjustment

Task Chair and Task Stool

Lever-activated pneumatic cylinder enables seat height adjustment from 16¹/₂" to 21¹/₂" (large chair), 14" to 16¹/₂" (medium chair) and 20¹/₂" to 30³/₄" (stool).

Tilt Mechanism

Armless Task Chair Only

Tilt control is a stamped, welded mechanism with a coil spring to supply the force with a tension adjustment knob. The control also utilizes a single lever for both height adjustment and tilt lock. The at-rest seat angle is 3.5° with a total rearward travel of 19.5°.

Base

Task Chair

Base is 24" injection-molded glass-reinforced nylon 5-blade design, in black only.

Task Stool

Base is 26" injection-molded glass-reinforced nylon 5-blade design, in black only.

Top

Cantilever Desk, 4-Leg Desk, Linear Tripod Desk and Double-Entry Desk

Solid hard plastic tops are ⁵/₈" thick, of molded thermoset plastic and come with a pencil groove. Offered also is a top of ³/₄" thick high-density particleboard core covered with .030" high-pressure laminate top and .020" phenolic backing sheet and 73P polypropylene edge, without a pencil groove.

Hard Plastic tops, excluding ADA option, offered a curved front style and a user-side comfort curve, have 2³/₈" radius corners and measures 19" x 26". ADA option is available in straight front style only without pencil groove, and measure 36¹⁵/₃₂" x 20".

Rectangular tops measure 19" x 26", trapezoid tops measures 20¹/₂" x 32", and linear tripod tops measure 27¹³/₃₂" x 27¹³/₃₂" x 36⁴⁵/₆₄".

Contour Tripod Desk

High-density particleboard core covered with .030" high-pressure laminate top and .020" phenolic backing sheet and 73P polypropylene edge. Contour tops measure 30¹/₂" x 31¹⁹/₆₄" x 37¹³/₆₄".

Tablet Arm

Standard and Laptop tablet boards are ⁵/₈" thick, 11-ply plywood core with high-pressure laminate top, clear-coated edge and a plain backer sheet underside. G2 tablet boards are 15 mm thick, 11-ply plywood core with .050" high-pressure laminate top, clear-coated edge and a plain backer sheet underside. The usable area of the Standard tablet board is 14" wide by 11" deep, and overall size is 15" x 20¹/₂". The usable area of the Laptop tablet board is 18" wide by 14" deep, and overall size is 19³/₄" x 23¹/₂". The usable area of the G2 tablet board is 12³/₄" wide by 10" deep, and overall size is 13³/₄" x 18¹/₈".

Armrest

Task Chair And Task Stool

A tubular steel frame supports self-skinning urethane armrests. The support is bolted to the seat underside. Armrest paint color and top pad are always black. (Field installable). Arms are not available on chairs with tilt mechanisms.

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Accessories

Book Bag Hook

Optional book bag hook is formed from $\frac{1}{4}$ " solid wire rod. Chrome finish provides long lasting wear resistance. Fastens to underside of top with two K5O 2.24 x 13 mm Torx head screws for hard plastic tops. Fastens to underside of top with two #12 x $\frac{3}{4}$ " Phillips pan head screws for laminate tops.

Book Basket (Under Desk)

Optional book basket is made of chrome plated 7 mm diameter solid steel wire. Measures 21 $\frac{1}{2}$ " wide by 12" deep by 4 $\frac{1}{2}$ " high. Fastens to underside of top with eight K5O 2.24 x 13 mm Torx head screws for hard plastic tops. Fastens to underside of top with eight #12 x $\frac{3}{4}$ " Phillips pan head screws for laminate tops.

Book Box (Under Desk)

Optional solid molded thermoplastic polypropylene book box. Translucent finish helps provide safe environment while allowing for some degree of personal privacy. Molded-in pencil tray keeps items conveniently inside book box within easy reach, not on the floor or in the back of the book box. Book box for Cantilever desks measures 19 $\frac{1}{2}$ " wide by 15 $\frac{7}{8}$ " deep by 3 $\frac{1}{4}$ " high and is available in four basic colors plus translucent. Book box for 4-Leg desk measures 15" wide by 14" deep by 4" high and is available only in translucent. Fastens to underside of top with nine K5O 2.24 x 13 mm Torx head screws for hard plastic tops. Fastens to underside of top with nine #12 x $\frac{3}{4}$ " Phillips pan head screws for laminate tops.

Book Rack (Under Chair)

Optional book rack has an external framework of $\frac{5}{16}$ " diameter solid wire rod attached to the chair frame with four $\frac{1}{4}$ "-14 x 1" Tek screws. Cross braces of $\frac{5}{16}$ " diameter solid wire rod are welded between external framework. Measures 13" wide by 12" deep by 9" high.

Glides

Swivel-type polished zinc-plated steel, nylon, or felt glides. KI recommends consulting with the floor manufacturer for specific glide recommendations. **Note:** Felt glides increase product height by $\frac{1}{4}$ ".

Casters

Carpet Casters – Task Chair, Task Stool and 4-Leg Chair On Casters

Double wheels (50 mm) of high-impact thermoplastic. High-impact plastic frame. Black finish only.

Hard Floor Casters – Task Chair, Task Stool and 4-Leg Chair On Casters

Double wheels (55 mm) of soft plastic. High-impact plastic frame. Black finish only.

Transport Dolly

Frame is welded tubular steel construction with steel straps that are bent to conform to the nesting angle of the product being transported. Four steel casters (wheel housings) - two fixed and two swivel - are welded directly to the four corners of the dolly frame. Swivel casters have ball bearings for smooth operation. Wheels are 5" diameter by 1 $\frac{3}{8}$ " wide hard rubber with Delrin bearings. Wheels are attached to the casters with $\frac{3}{8}$ " diameter bolts (axle). Black powder-coat finish. Only the 18" cantilever, 18" 4-leg and 19" music stack chairs stack onto the dolly.

Maximum Stacking Height

Intellect Wave® 18" Cantilever Chairs - 7 chairs

Intellect Wave® 18" 4-Leg Chairs - 10 chairs

Intellect Wave® 19" 4-Leg Music Chairs - 5 chairs