

OPERATOR SEAT

3300 SERIES | 3500 SERIES



mason grogan
INDUSTRIAL

SPECIALIST MATERIALS FOR DESIGN ENGINEERS



BAULTAR
SEATING SOLUTIONS

HEAVY-DUTY OPERATOR SEATS
DESIGNED FOR THE FREIGHT INDUSTRY
IDEAL FOR LOCOMOTIVE CABS

OPERATOR SEAT

TECHNICAL SPECIFICATIONS

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STANDARD FEATURES

CUSHION UPHOLSTERY	Black 100% polyester fiber, water and stain-repellent treated		
CUSHION FOAM	Polyurethane multi-density		
ARMREST CUSHION TOP PADDING	Black 100% PVC fiber with 100% polyester backing		
ARMREST CONTOUR UPHOLSTERY	Black 100% nylon fiber		
PROTECTIVE SHELLS ON BACKREST CORNERS AND ARMRESTS	ABS nominal thickness; 0.125" [3 mm]		
STRUCTURE	0.1" [2.5 mm] wall thickness; tubular steel construction ASTM-A500 Grade B		
STRUCTURAL BOLTS	Grade 8 (SAE J429)		
PAINT	Polyester black powder-baked for structural components; zinc-plated or Ecoat™ for others		
RAISING AND BACKREST MECHANISM	Gas spring cylinder		
WEIGHT (Weights are approximate. Actual weight may vary based on specific options selected)	Pedestal-mounted	No footrest 110 lb [50 kg]	With footrest 150 lb [68 kg]
	Wall-mounted	160 lb [72 kg]	180 lb [82 kg]

ERGONOMICS AND MODULARITY

Available configurations		Pedestal-mounted or wall-mounted	
General dimensions and adjustments - Inches [mm]			
All dimensions for reference purposes only			
		3300	3500
Backrest cushion	Thickness	~ 3 [76]	~ 3 1/2 [89]
	Height	20 1/2 [521]	21 1/2 [545]
	Width	15 1/2 [394]	17 [430]
	Tilt ³	85° to 115°	
Bottom cushion	Thickness		~ 4 [127]
	Length	16 [406]	17 or 19 [430 or 480]
	Width		18 3/4 [476]
	Angle		4°
Pan depth adjustment ^{1,5}		3 3/4 [95]	
		by increments of 3/16 [4.75]	
Armrest cushion	Thickness	1 1/2 [38]	
	Width	3 [76]	
	Height	8 [205]	
	Length	Min. 9 [230] (Backrest tilt: 90°)	
		Max. 12 [305] (Backrest tilt: 115°)	
	Lateral spacing	19 [485]	
	Fold-up ²	0° to 90°	
Rotation ^{1,3} (friction lock)		0° to 360°	
		with or w/o friction lock	
Seat height adjustment ³		4 3/4 [121]	
Seat minimum height			
	Pedestal-mounted	18 3/4 [476]	
	Wall-mounted	19 1/2 [495]	
Tripod fore-aft travel ¹		37 1/2, 20 1/2, or 15 1/2	
(Wall-mounted configuration)		[952, 521, or 394]	
Seat fore-aft travel ^{1,3}		7 1/4 [184]	
Side-to-side travel ^{1,3}		6 1/8 [156]	
Footrest	Tilt ^{1,3}	0° to 48°	
	Rotation ¹	0° to 180°, 30° increments	
Headrest	Height ^{1,5}	12 3/16 [310]	
	Width ^{1,5}	11 1/8 [283]	

DURABILITY

CUSHION APTA SS-C&S-011-99 section 9.1 on bottom cushion only	200,000 jounce cycles No loss of height No wear or signs of failure	
ARMREST (contour only) ASTM D4157/ACT	250,000 cycles Heavy-duty rated (30,000 double rub)	
SERVICE LIFE CYCLE APTA SS-C&S-011-99 section 9.2	Cycles	Load
Reclining mechanism	15,000	none
Armrest folding	20,000	none
Vertical adjustment	20,000	150 lb [667N]
Fore-aft	20,000	150 lb [667N]
Rotation	20,000	none
PROTECTION AGAINST CORROSION ASTM D1654 class 6 min.	1,500 hours for all polyester black powder-baked painted parts 2,000 hours for Ecoat™ parts	

SAFETY

FIRE (upholstery) Optional, material to meet 49 CFR 238, App. B	FMVSS 302
FIRE (foam)	FMVSS 302 California TB 117
SMOKE (upholstery) ⁴ (Seat and backrest only) ASTM E662 and 49 CFR Part 238 App. B for criteria	Ds (4.0) ≤ 200

LOADS^{4,6}

AAR RP-5104 - Section 3.1, 3.2, and 3.3

All static loads for testing purposes only, not for service use

Armrests	Permanent deformation ≤ 1/8" [3mm]	Load 400 lb [1,780N]
Seat cushion	None	400 lb [1,780N]
Rotation	None	150 lb [667N]
Backrest	None	250 lb [1,112N] @1.5G
	≤ 2" [51mm]	250 lb [1,112N] @3G
AAR S-580	Compliant	
Load for service use	350 lb (maximum recommended)	
Seat replacement	Recommended after 12 years	
Maintenance	Seat must be maintained according to Baultar instruction sheet IT22-8010	

CLEANING

STRUCTURE	Mild soap and water
UPHOLSTERY (Cleaning code WS)	For water-based stains, use mild detergent foam or upholstery shampoo
	For oil-based stains, spot clean with a dry cleaning solvent, being sure to test area first

BAULTAR CERTIFICATIONS

Welding	CSA 47.1
Quality management	ISO 9001-2008

¹ Optional

² Armrest folds up independently of backrest tilt

³ Infinitely adjustable

⁴ Test by certified laboratories

⁵ 3500 only

⁶ Tested on 3500 seat

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2016-08-17 / Rev.2 # IR50-0073