

Mirra® Chairs

Performance Information	3
Methodology and Dimension Description	4
Seating Measurements	6
Work Chair	15
Upholstered Back Kit	19
Lumbar Kit	20
Arm Kit	21
Casters and Glides	22

Specifications are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice in finishes, materials, specifications, and models and to discontinue models and finishes.

For specific information about features and options available on each model, prices, and ordering information, please refer to the current Herman Miller price book.

© 2008 Herman Miller, Inc., Zeeland, Michigan

®  Herman Miller, , FlexFront, Mirra, and PostureFit are among the registered trademarks of Herman Miller, Inc.

™ Aireweave, Harmonic, Latitude, and TriFlex are among the trademarks of Herman Miller, Inc.

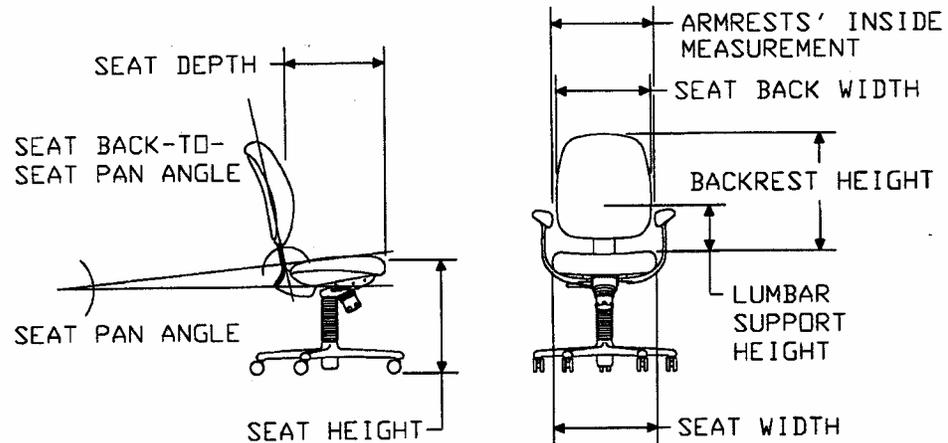
® Riteflex is a registered trademark of Ticona.

Mirra work chairs meet or exceed all American National Standards Institute/Business and Institutional Furniture Manufacturer's Association (ANSI/ BIFMA) performance requirements per ANSI X5.1-2002, which includes the following tests:

- Back strength test (static), type I, Section 5
- Back strength test (static), types II and III, Section 6
- Base test (static), Section 7
- Drop test (dynamic), Section 8
- Swivel test, Section 9
- Tilt mechanism test, Section 10
- Seating durability tests (cyclic), Section 11
- Stability test, Section 12
- Arm strength test (vertical), Section 13
- Arm strength test (horizontal), Section 14
- Arm durability test (cyclic), Section 20
- Back durability test cyclic, type I, Section 15
- Caster/chair base durability test, Section 17
- Out stop test for chairs with manually adjustable seat depth, Section 21

In addition, products have been designed and tested to Herman Miller requirements, which are derived from these ANSI minimum requirements but are much more comprehensive and generally exceed the ANSI requirements. Herman Miller's Quality Assurance Group randomly and periodically tests standard products (seating) to ensure ongoing compliance to ANSI/BIFMA and Herman Miller corporate standards.

The following measurements are displayed in the subsequent seating measurement charts. The measurements reflect dimensional information necessary for space planning and standards/codes compliance data. The measurements relevant to standards/codes were taken with a Chair Measuring Device (CMD) in accordance with the BIFMA G-1 2002 ergonomic guideline. Other measurements were taken using a variety of techniques; the following definitions give approximate descriptions of the measurements.



Seat height

Distance between the floor and the compressed seat cushion where the user's thigh meets the seat.

Seat depth

Distance from the seat reference point (approximate rear of the seat cushion) to the front edge of the seat.

Seat width

Width of the chair seat at the spindle center (or at the geometric center if there is no spindle).

Seat pan angle

Seat angle in relation to the floor.

Seat-to-back angle

Angle between the seat back and the seat pan at centerline.

Backrest height

Distance from the seat cushion at centerline to the highest point of the chair back.

Lumbar support height

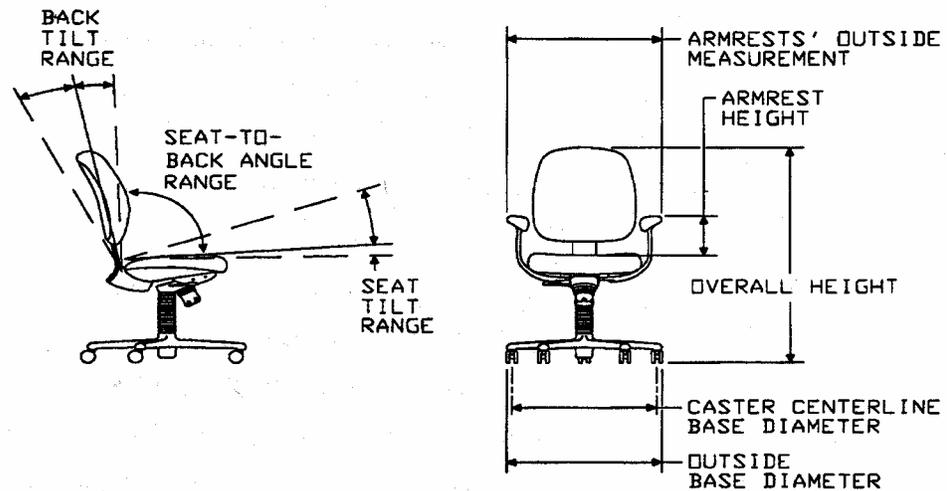
Height of the lumbar support region as measured from the seat reference point (approximate rear of the seat cushion) to the center of the lumbar support.

Seat back width

Width of the seat back at the lumbar support region.

Armpads, inside measurement

Clearance between the armpads.



Armrests, outside measurement

Overall distance from the outer edge of one arm pad to the outer edge of the other arm pad.

Overall height

Distance from the floor to the highest point of a chair back (unloaded). Seat height and back height are both in their highest positions.

Overall depth

The overall depth of the chair with the seat depth in its fully extended position, and the base/casters turned to its deepest position.

Seat-to-back-angle range

Angle between the back and the seat from neutral to fully reclined.

Back tilt range

Angular movement of the back from forward or neutral to fully reclined in relation to the floor.

Seat tilt range

Angular movement of the seat from forward or neutral to fully reclined in relation to the floor.

Armrest height

Distance from the seat cushion at its geometric center to the top of an armrest.

Outside base diameter

Overall diameter of the base.

Centerline base diameter

Diameter of the base at the centerline of the casters or the glides.

Low-Height-Range Work Chairs with Tilt Limiter and Seat Angle (Seat height and overall height shown with 2 1/2" casters)

Work Chairs: Low-Height Range, Tilt Limiter and Seat Angle, Fixed Seat Depth									
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵	
Adjustable Arms									
MR113AF	15–19 1/2"	16.9"	19"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"	
Fixed Arms									
MR113PF	15–19 1/2"	16.9"	19"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"	
No Arms									
MR113NF	15–19 1/2"	16.9"	19"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"	
Armpads Inside width ⁶	Armpads Outside width ⁶	Overall Height	Seat-to-Back Angle Range	Tilt Range ⁷ Back	Armpad Height ⁸ Seat	Base Diameter Outside	Weight (Pounds)		
14.4/19.5"	22.4/27.5"	41 1/2"	97.5 – 106"	95/99/122°	-2.5/1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	41 1/2"	97.5 – 106"	95/99/122°	-2.5/1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	41 1/2"	97.5 – 106"	95/99/122°	-2.5/1.5/12.5°	N/A	27"	26"	48

Work Chairs: Low-Height Range, Tilt Limiter and Seat Angle, Adjustable Seat Depth									
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵	
Adjustable Arms									
MR113AA	15–19 1/2"	16.9 – 18.9"	19.75"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"	
Fixed Arms									
MR113PA	15–19 1/2"	16.9 – 18.9"	19.75"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"	
No Arms									
MR113NA	15–19 1/2"	16.9 – 18.9"	19.75"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"	
Armpads Inside width ⁶	Armpads Outside width ⁶	Overall Height	Seat-to-Back Angle Range	Tilt Range ⁷ Back	Armpad Height ⁸ Seat	Base Diameter Outside	Weight (Pounds)		
14.4/19.5"	22.4/27.5"	41 1/2"	97.5 – 106°	95/99/122°	-2.5/1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	41 1/2"	97.5 – 106°	95/99/122°	-2.5/1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	41 1/2"	97.5 – 106°	95/99/122°	-2.5/1.5/12.5°	N/A	27"	26"	48

¹ Widest seat width.

² Forward angle/neutral angle.

³ Stationary chair in neutral position.

⁴ Height range with lumbar pad in lowest position and highest position.

⁵ Minimum/maximum back width.

⁶ Minimum/maximum position for adjustable arms. (Adjustable arms can also pivot 11° inward and 11° outward.)

⁷ Forward angle/neutral angle/reclined angle.

⁸ From seat height

Low-Height-Range Work Chairs with Tilt Limiter (Seat height and overall height shown with 2 1/2" casters)

Work Chairs: Low-Height Range, Tilt Limiter, Fixed Seat Depth									
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵	
Adjustable Arms									
MR112AF	15–19 1/2"	16.9"	19"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
Fixed Arms									
MR112PF	15–19 1/2"	16.9"	19"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
No Arms									
MR112NF	15–19 1/2"	16.9"	19"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
Armpads Inside width ⁶	Armpads Outside width ⁶	Overall Height	Seat-to-Back Angle Range	Back	Tilt Range ⁷ Seat	Armpad Height ⁸	Base Diameter Outside	Base Diameter Centerline	Weight (Pounds)
14.4/19.5"	22.4/27.5"	41 1/2"	97.5 – 106"	99/122°	1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	41 1/2"	97.5 – 106"	99/122°	1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	41 1/2"	97.5 – 106"	99/122°	1.5/12.5°	N/A	27"	26"	48

Work Chairs: Low-Height Range, Tilt Limiter, Flex Front™ Adjustable Seat Depth									
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵	
Adjustable Arms									
MR112AA	15–19 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
Fixed Arms									
MR112PA	15–19 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
No Arms									
MR112NA	15–19 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
Armpads Inside width ⁶	Armpads Outside width ⁶	Overall Height	Seat-to-Back Angle Range	Back	Tilt Range ⁷ Seat	Armpad Height ⁸	Base Diameter Outside	Base Diameter Centerline	Weight (Pounds)
14.4/19.5"	22.4/27.5"	41 1/2"	97.5 – 106°	99/122°	1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	41 1/2"	97.5 – 106°	99/122°	1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	41 1/2"	97.5 – 106°	99/122°	1.5/12.5°	N/A	27"	26"	48

¹ Widest seat width.

² Neutral angle.

³ Stationary chair in neutral position.

⁴ Height range with lumbar pad in lowest position and highest position.

⁵ Minimum/maximum back width.

⁶ Minimum/maximum position for adjustable arms. (Adjustable arms can also pivot 11° inward and 11° outward.)

⁷ Neutral angle/reclined angle.

⁸ From seat height

Low-Height-Range Work Chairs with Standard Tilt (Seat height and overall height shown with 2 1/2" casters)

Work Chairs: Low-Height Range, Standard Tilt, Fixed Seat Depth									
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵	
Adjustable Arms									
MR111AF	15–19 1/2"	16.9"	19"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
Fixed Arms									
MR111PF	15–19 1/2"	16.9"	19"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
No Arms									
MR111NF	15–19 1/2"	16.9"	19"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
Armpads Inside ⁶	Armpads Outside ⁶	Overall Height	Seat-to-Back Angle Range	Back	Tilt Range ⁷ Seat	Armpad Height ⁸	Base Diameter Outside Centerline		Weight (Pounds)
14.4/19"	22.4/27"	41 1/2"	97.5 – 106"	99/122°	1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	41 1/2"	97.5 – 106"	99/122°	1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	41 1/2"	97.5 – 106"	99/122°	1.5/12.5°	N/A	27"	26"	48
Work Chairs: Low-Height Range, Standard Tilt, Flex Front™ Adjustable Seat Depth									
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵	
Adjustable Arms									
MR111AA	15–19 1/2"	16.9 – 18.9"	19.375"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
Fixed Arms									
MR111PA	15–19 1/2"	16.9 – 18.9"	19.375"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
No Arms									
MR111NA	15–19 1/2"	16.9 – 18.9"	19.375"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
Armpads Inside ⁶	Armpads Outside ⁶	Overall Height	Seat-to-Back Angle Range	Back	Tilt Range ⁷ Seat	Armpad Height ⁸	Base Diameter Outside Centerline		Weight (Pounds)
14.4/19"	22.4/27.5"	41 1/2"	97.5 – 106°	99/122°	1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	41 1/2"	97.5 – 106°	99/122°	1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	41 1/2"	97.5 – 106°	99/122°	1.5/12.5°	N/A	27"	26"	48

¹ Widest seat width.

² Neutral angle.

³ Stationary chair in neutral position.

⁴ Height range with lumbar pad in lowest position and highest position.

⁵ Minimum/maximum back width.

⁶ Minimum/maximum position for adjustable arms. (Adjustable arms can also pivot 11° inward and 11° outward.)

⁷ Neutral angle/reclined angle.

⁸ From seat height

Standard-Height-Range Work Chairs with Tilt Limiter and Seat Angle (Seat height and overall height shown with 2 1/2" casters)

Work Chairs: Standard-Height Range, Tilt Limiter and Seat Angle, Fixed Seat Depth

Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵
Adjustable Arms								
MR123AF	16–20 1/2"	16.9"	19"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"
Fixed Arms								
MR123PF	16–20 1/2"	16.9"	19"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"
No Arms								
MR123NF	16–20 1/2"	16.9"	19"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"

Armpads Inside width ⁶	Armpads Outside width ⁶	Overall Height	Seat-to-Back Angle Range	Tilt Range ⁷ Back	Tilt Range ⁷ Seat	Armpad Height ⁸	Base Diameter Outside	Base Diameter Centerline	Weight (Pounds)
14.4/19.5"	22.4/27.5"	43"	97.5 – 106"	95/99/122°	-2.5/1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	43"	97.5 – 106"	95/99/122°	-2.5/1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	43"	97.5 – 106"	95/99/122°	-2.5/1.5/12.5°	N/A	27"	26"	48

Work Chairs: Standard-Height Range, Tilt Limiter and Seat Angle, Adjustable Seat Depth

Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵
Adjustable Arms								
MR123AA	16–20 1/2"	16.9 – 18.9"	19.75"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"
Fixed Arms								
MR123PA	16–20 1/2"	16.9 – 18.9"	19.75"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"
No Arms								
MR123NA	16–20 1/2"	16.9 – 18.9"	19.75"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"

Armpads Inside width ⁶	Armpads Outside width ⁶	Overall Height	Seat-to-Back Angle Range	Tilt Range ⁷ Back	Tilt Range ⁷ Seat	Armpad Height ⁸	Base Diameter Outside	Base Diameter Centerline	Weight (Pounds)
14.4/19.5"	22.4/27.5"	43"	97.5 – 106°	95/99/122°	-2.5/1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	43"	97.5 – 106°	95/99/122°	-2.5/1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	43"	97.5 – 106°	95/99/122°	-2.5/1.5/12.5°	N/A	27"	26"	48

¹ Widest seat width.

² Forward angle/neutral angle.

³ Stationary chair in neutral position.

⁴ Height range with lumbar pad in lowest position and highest position.

⁵ Minimum/maximum back width.

⁶ Minimum/maximum position for adjustable arms. (Adjustable arms can also pivot 11° inward and 11° outward.)

⁷ Forward angle/neutral angle/reclined angle.

⁸ From seat height

Standard-Height-Range Work Chairs with Tilt Limiter (Seat height and overall height shown with 2 1/2" casters)

Work Chairs: Standard-Height Range, Tilt Limiter, Fixed Seat Depth										
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵		
Adjustable Arms										
MR122AF	16–20 1/2"	16.9"	19"	1.5°	95°	23.4"	4 1/2"	15.6/19"		
Fixed Arms										
MR122PF	16–20 1/2"	16.9"	19"	1.5°	95°	23.4"	4 1/2"	15.6/19"		
No Arms										
MR122NF	16–20 1/2"	16.9"	19"	1.5°	95°	23.4"	4 1/2"	15.6/19"		
Armpads Inside width ⁶	Armpads Outside width ⁶	Overall Height	Seat-to-Back Angle Range	Back	Tilt Range ⁷ Seat	Armpad Height ⁸	Base Diameter Outside	Base Diameter Centerline	Weight (Pounds)	
14.4/19.5"	22.4/27.5"	43"	97.5 – 106"	99/122°	1.5/12.5°	7.5 – 11.5"	27"	26"	50	
18"	26"	43"	97.5 – 106"	99/122°	1.5/12.5°	9.5"	27"	26"	50	
N/A	N/A	43"	97.5 – 106"	99/122°	1.5/12.5°	N/A	27"	26"	48	

Work Chairs: Standard-Height Range, Tilt Limiter, Flex Front™ Adjustable Seat Depth										
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵		
Adjustable Arms										
MR122AA	16–20 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4"	4 1/2"	15.6/19"		
Fixed Arms										
MR122PA	16–20 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4"	4 1/2"	15.6/19"		
No Arms										
MR122NA	16–20 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4"	4 1/2"	15.6/19"		
Armpads Inside width ⁶	Armpads Outside width ⁶	Overall Height	Seat-to-Back Angle Range	Back	Tilt Range ⁷ Seat	Armpad Height ⁸	Base Diameter Outside	Base Diameter Centerline	Weight (Pounds)	
14.4/19.5"	22.4/27.5"	43"	97.5 – 106°	99/122°	1.5/12.5°	7.5 – 11.5"	27"	26"	50	
18"	26"	43"	97.5 – 106°	99/122°	1.5/12.5°	9.5"	27"	26"	50	
N/A	N/A	43"	97.5 – 106°	99/122°	1.5/12.5°	N/A	27"	26"	48	

¹ Widest seat width.

² Neutral angle.

³ Stationary chair in neutral position.

⁴ Height range with lumbar pad in lowest position and highest position.

⁵ Minimum/maximum back width.

⁶ Minimum/maximum position for adjustable arms. (Adjustable arms can also pivot 11° inward and 11° outward.)

⁷ Neutral angle/reclined angle.

⁸ From seat height

Standard-Height-Range Work Chairs with Standard Tilt (Seat height and overall height shown with 2 1/2" casters)

Work Chairs: Standard-Height Range, Standard Tilt, Fixed Seat Depth

Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵
Adjustable Arms								
MR121AF	16–20 1/2"	16.9"	19"	1.5°	95°	23.4°	4 1/2"	15.6/19"
Fixed Arms								
MR121PF	16–20 1/2"	16.9"	19"	1.5°	95°	23.4°	4 1/2"	15.6/19"
No Arms								
MR121NF	16–20 1/2"	16.9"	19"	1.5°	95°	23.4°	4 1/2"	15.6/19"

Armpads Inside ⁵	Armpads Outside ⁶	Overall Height	Seat-to-Back Angle Range	Tilt Range ⁷ Back	Seat	Armpad Height ⁸	Base Diameter Outside	Centerline	Weight (Pounds)
14.4/19"	22.4/27"	43"	97.5 – 106°	99/122°	1.5/12.5°	7.5 – 11.5"	27"	26"	50
18" ⁹	26"	43"	97.5 – 106°	99/122°	1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	43"	97.5 – 106°	99/122°	1.5/12.5°	N/A	27"	26"	48

Work Chairs: Standard-Height Range, Standard Tilt, Flex Front™ Adjustable Seat Depth

Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵
Adjustable Arms								
MR121AA	16–20 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4°	4 1/2"	15.6/19"
Fixed Arms								
MR121PA	16–20 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4°	4 1/2"	15.6/19"
No Arms								
MR121.NA	16–20 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4°	4 1/2"	15.6/19"

Armpads Inside ⁵	Armpads Outside ⁶	Overall Height	Seat-to-Back Angle Range	Tilt Range ⁷ Back	Seat	Armpad Height ⁸	Base Diameter Outside	Centerline	Weight (Pounds)
14.4/19"	22.4/27.5"	43"	97.5 – 106°	99/122°	1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	43"	97.5 – 106°	99/122°	1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	43"	97.5 – 106°	99/122°	1.5/12.5°	N/A	27"	26"	48

¹ Widest seat width.

² Neutral angle.

³ Stationary chair in neutral position.

⁴ Height range with lumbar pad in lowest position and highest position.

⁵ Minimum/maximum back width.

⁶ Minimum/maximum position for adjustable arms. (Adjustable arms can also pivot 11° inward and 11° outward.)

⁷ Neutral angle/reclined angle.

⁸ From seat height.

Extended-Height-Range Work Chairs with Tilt Limiter and Seat Angle (Seat height and overall height shown with 2 1/2" casters)

Work Chairs: Extended-Height Range, Tilt Limiter and Seat Angle, Fixed Seat Depth									
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵	
Adjustable Arms									
MR133AF	16–21 1/2"	16.9"	19"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"	
Fixed Arms									
MR133PF	16–21 1/2"	16.9"	19"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"	
No Arms									
MR133NF	16–21 1/2"	16.9"	19"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"	
Armpads Inside width ⁶	Armpads Outside width ⁶	Overall Height	Seat-to-Back Angle Range	Tilt Range ⁷ Back	Armpad Height ⁸ Seat	Base Diameter Outside	Weight (Pounds) Centerline		
14.4/19.5"	22.4/27.5"	43 3/4"	97.5 – 106"	95/99/122°	-2.5/1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	43 3/4"	97.5 – 106"	95/99/122°	-2.5/1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	43 3/4"	97.5 – 106"	95/99/122°	-2.5/1.5/12.5°	N/A	27"	26"	48

Work Chairs: Extended-Height Range, Tilt Limiter and Seat Angle, Adjustable Seat Depth									
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵	
Adjustable Arms									
MR133AA	16–21 1/2"	16.9 – 18.9"	19.75"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"	
Fixed Arms									
MR133PA	16–21 1/2"	16.9 – 18.9"	19.75"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"	
No Arms									
MR133NA	16–21 1/2"	16.9 – 18.9"	19.75"	-2.5/1.5°	95°	23.4"	4 1/2"	15.6/19"	
Armpads Inside width ⁶	Armpads Outside width ⁶	Overall Height	Seat-to-Back Angle Range	Tilt Range ⁷ Back	Armpad Height ⁸ Seat	Base Diameter Outside	Weight (Pounds) Centerline		
14.4/19.5"	22.4/27.5"	43 3/4"	97.5 – 106°	95/99/122°	-2.5/1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	43 3/4"	97.5 – 106°	95/99/122°	-2.5/1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	43 3/4"	97.5 – 106°	95/99/122°	-2.5/1.5/12.5°	N/A	27"	26"	48

¹ Widest seat width.

² Forward angle/neutral angle.

³ Stationary chair in neutral position.

⁴ Height range with lumbar pad in lowest position and highest position.

⁵ Minimum/maximum back width.

⁶ Minimum/maximum position for adjustable arms. (Adjustable arms can also pivot 11° inward and 11° outward.)

⁷ Forward angle/neutral angle/reclined angle.

⁸ From seat height

Extended-Height-Range Work Chairs with Tilt Limiter (Seat height and overall height shown with 2 1/2" casters)

Work Chairs: Extended-Height Range, Tilt Limiter, Fixed Seat Depth									
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵	
Adjustable Arms									
MR132AF	16–21 1/2"	16.9"	19"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
Fixed Arms									
MR132PF	16–21 1/2"	16.9"	19"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
No Arms									
MR132NF	16–21 1/2"	16.9"	19"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
Armpads Inside width ⁶	Armpads Outside width ⁶	Overall Height	Seat-to-Back Angle Range	Back	Tilt Range ⁷ Seat	Armpad Height ⁸	Base Diameter Outside	Base Diameter Centerline	Weight (Pounds)
14.4/19.5"	22.4/27.5"	43 3/4"	97.5 – 106"	99/122°	1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	43 3/4"	97.5 – 106"	99/122°	1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	43 3/4"	97.5 – 106"	99/122°	1.5/12.5°	N/A	27"	26"	48

Work Chairs: Extended-Height Range, Tilt Limiter, Flex Front™ Adjustable Seat Depth									
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵	
Adjustable Arms									
MR132AA	16–21 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
Fixed Arms									
MR132PA	16–21 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
No Arms									
MR132NA	16–21 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4"	4 1/2"	15.6/19"	
Armpads Inside width ⁶	Armpads Outside width ⁶	Overall Height	Seat-to-Back Angle Range	Back	Tilt Range ⁷ Seat	Armpad Height ⁸	Base Diameter Outside	Base Diameter Centerline	Weight (Pounds)
14.4/19.5"	22.4/27.5"	43 3/4"	97.5 – 106°	99/122°	1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	43 3/4"	97.5 – 106°	99/122°	1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	43 3/4"	97.5 – 106°	99/122°	1.5/12.5°	N/A	27"	26"	48

¹ Widest seat width.

² Neutral angle.

³ Stationary chair in neutral position.

⁴ Height range with lumbar pad in lowest position and highest position.

⁵ Minimum/maximum back width.

⁶ Minimum/maximum position for adjustable arms. (Adjustable arms can also pivot 11° inward and 11° outward.)

⁷ Neutral angle/reclined angle.

⁸ From seat height

Extended-Height-Range Work Chairs with Standard Tilt (Seat height and overall height shown with 2 1/2" casters)

Work Chairs: Extended-Height Range, Standard Tilt, Fixed Seat Depth									
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵	
Adjustable Arms									
MR131AF	16–21 1/2"	16.9"	19"	1.5°	95°	23.4°	4 1/2"	15.6/19"	
Fixed Arms									
MR131PF	16–21 1/2"	16.9"	19"	1.5°	95°	23.4°	4 1/2"	15.6/19"	
No Arms									
MR131NF	16–21 1/2"	16.9"	19"	1.5°	95°	23.4°	4 1/2"	15.6/19"	
Armpads Inside ⁵	Armpads Outside ⁶	Overall Height	Seat-to-Back Angle Range	Tilt Range ⁷ Back	Seat	Armpad Height ⁸	Base Diameter Outside	Centerline	Weight (Pounds)
14.4/19"	22.4/27"	43 3/4"	97.5 – 106°	99/122°	1.5/12.5°	7.5 – 11.5"	27"	26"	50
18" ⁹	26"	43 3/4"	97.5 – 106°	99/122°	1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	43 3/4"	97.5 – 106°	99/122°	1.5/12.5°	N/A	27"	26"	48

Work Chairs: Extended-Height Range, Standard Tilt, Flex Front™ Adjustable Seat Depth									
Chair Description	Seat Height	Seat Depth	Seat Width ¹	Seat Pan Angle ²	Seat-to-Back Angle ³	Backrest Height	Lumbar Support ⁴	Back Width ⁵	
Adjustable Arms									
MR131AA	16–21 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4°	4 1/2"	15.6/19"	
Fixed Arms									
MR131PA	16–21 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4°	4 1/2"	15.6/19"	
No Arms									
MR131NA	16–21 1/2"	16.9 – 18.9"	19.75"	1.5°	95°	23.4°	4 1/2"	15.6/19"	
Armpads Inside ⁵	Armpads Outside ⁶	Overall Height	Seat-to-Back Angle Range	Tilt Range ⁷ Back	Seat	Armpad Height ⁸	Base Diameter Outside	Centerline	Weight (Pounds)
14.4/19"	22.4/27.5"	43 3/4"	97.5 – 106°	99/122°	1.5/12.5°	7.5 – 11.5"	27"	26"	50
18"	26"	43 3/4"	97.5 – 106°	99/122°	1.5/12.5°	9.5"	27"	26"	50
N/A	N/A	43 3/4"	97.5 – 106°	99/122°	1.5/12.5°	N/A	27"	26"	48

¹ Widest seat width.

² Neutral angle.

³ Stationary chair in neutral position.

⁴ Height range with lumbar pad in lowest position and highest position.

⁵ Minimum/maximum back width.

⁶ Minimum/maximum position for adjustable arms. (Adjustable arms can also pivot 11° inward and 11° outward.)

⁷ Neutral angle/reclined angle.

⁸ From seat height.

Description	MR111	MR131
	MR112	MR132
	MR113	MR133
	MR121	
	MR122	
	MR123	

This chair has an AireWeave™ seat-suspension material that is lightweight and breathable and evenly distributes the user's weight over the seat of the chair. The TriFlex™ back provides flexible and continuous support while providing airflow. The chair's Harmonic™ tilt provides continuous balance and lets the body recline naturally, pivoting at the ankles, knees, and hips. The chair has a 5-star base and 3 height-adjustment options: the low-height option has a seat-height range of 15" to 19 1/2"; the standard-height option has a seat-height range of 16" to 20 1/2"; and the extended-height option has a seat-height range of 16 to 21 1/2".

Tilt options include a standard tilt, tilt limiter, and tilt limiter and seat angle. The tilt limiter allows the user to set the tilt range to limit the amount of recline. The tilt limiter and seat angle allows the user to select the tilt range and either a horizontal or 4° forward seat angle.

Back options include a standard version and a user-adjustable lumbar support version. The adjustable lumbar support adjusts 4 1/2" in height and 1" in depth. Both back options include passive PostureFit® at the base of the back, below the beltline, that helps achieve healthier posture and improved lower back comfort.

The chair's TriFlex back can be specified with Latitude™ fabric on the front side. The applied fabric still allows flexible support and airflow. Fabric cannot be applied to the chair's AireWeave seat.

Seat options include a 17" fixed seat depth or a FlexFront™ seat depth that allows the user to adjust the seat depth from 17" to 19".

Arm choices include no arms, fixed arms, or 3-dimensional adjustable arms that adjust the arms 4" vertically, 1 3/8" horizontally, and pivot the armpads 11° outward and 11° inward.

A fire-retardant chair meets CAL 133 requirements. The chair's seat, back, and tilt covers are manufactured with a fire-retardant additive. The additive does not meet Herman Miller's Design for the Environment criteria.

Chair is tested and warranted for use by persons 300 pounds and under.

Construction	Seat
	The separate seat shall be a durable, breathable AireWeave material stretched within a carrier ring and fitted into an outer frame. The AireWeave material shall be a woven blend of Riteflex® and a solution-dyed polyester yarn. It shall support and distribute the user's weight evenly over the seat of the chair and shall retain its original shape when the chair is unoccupied.
	The carrier ring shall be a thermoplastic co-polyester based elastomer (TPE) molded around the perimeter of the AireWeave material to frame and support it. The seat support shall be made from injection-molded, glass reinforced thermoplastic Nylon 6.
	For seats with FlexFront adjustable seat depth, the flexible portion of the seat support shall be Nylon 6.

*Construction
continued*

At the seat's waterfall front edge, a cushioning insert of molded urethane foam shall be fitted between the AireWeave™ material and the chair frame.

Right and left hip pivots, made from stamped steel, shall attach the seat to the tilt mechanism.

Back

The separate molded back shall be a durable polypropylene attached to a Y-shaped support spine made from glass-filled Nylon 6. It shall support and distribute the user's weight evenly over the entire back of the chair and shall retain its original shape when the chair is unoccupied. The molded back and support spine shall be secured together with screws. The support spine shall have molded-in detail to accept the optional lumbar support.

The molded back/Y-shaped support spine assembly shall be secured to the tilt mechanism with bolts.

Chairs without optional lumbar support shall have fixed back support, made from Nylon 6, attached to the spine.

Lumbar Pad (Optional)

The lumbar strap shall be a molded polypropylene thermoplastic secured to a bow-shaped attachment. The bow-shaped attachment (a.k.a. lumbar bow) shall be molded-in nylon and shall attach to the Y-shaped spine. The pad shall be approximately .130" thick. The handles of the lumbar support shall be made from ABS.

See "Adjustments" for lumbar adjustments.

Upholstered Back (Optional)

The upholstery shall be a 3-dimensional knit fabric of breathable, 100% virgin polyester. The upholstery shall be stapled to the side edges of the back and the staples shall be covered with a co-extruded edge band of polyethylene and thermoplastic elastomer for a soft, tactile finished edge.

Arms (Optional)

The work chair shall be available with no arms, fixed arms, or adjustable arms. Each arm shall have an armpad support and arm stem of glass-filled nylon. An armpad support shall attach to the arm stem with a screw. See "Adjustments" for adjustable-arm ranges.

Chairs shall have 10"-by-4 3/4" armpads of urethane foam molded in place to a glass-filled nylon armpad insert on the armpad support. Standard nonupholstered armpads shall be molded, textured, flexible urethane.

Tilt

The tilt mechanism shall be 2 fiberglass leaf springs, a gear-driven tension adjustment, and a stamped-steel housing. A 3-piece, polystyrene cover shall snap together to enclose the tilt mechanism.

The tilt limiter lever and the seat angle adjustment lever (2 levers), which extend from the left side of the tilt, shall be glass-filled nylon.

The tilt tension adjustment shaft, which extends from the right side of the tilt, shall be steel with a powder-coat epoxy finish. A soft, textured, molded tilt-tension knob of Sanoprene (molded thermoplastic) shall be pressed onto the shaft.

*Construction
continued*

Base

The standard-height-range chair base shall house a unitized single-stage pneumatic seat height adjustment mechanism contained in 2 steel tubes; an inner tube shall slide and rotate in a bushing within an outer tube. The outer tube shall be coated black and shall have a tapered end that shall be pressed into the base, and an upper end that shall be pressed into the tilt mechanism.

See “Adjustments” for tilt and seat-height ranges.
Pneumatic cylinders can be replaced on site. (See *Service Parts* in Kiosk.)

The 5-star base shall be injection-molded 30 GF Nylon.
The chair shall swivel 360°.

Chairs shall be furnished with interchangeable casters. See the “Casters and Glides” section for more information.

Adjustments

Lumbar Pad (Optional)

To adjust the height of the optional lumbar pad, turn the lumbar knobs upward, and slide the lumbar support up and down within a 4" range. To increase lumbar support, within a 1" range, rotate lumbar knobs downward.

Seat Height

Seat height shall be controlled by a glass-filled Nylon 6 lever mounted to the right side of the tilt.

The approximate seat height range shall be 16 to 20 1/2" for standard-height-range pneumatic chairs and 15 to 19 1/2" for low-height range pneumatic chairs.

Tilt

The Harmonic™ tilt shall let the user's body pivot at the ankles, knees, and hips.

The back-to seat tilt ratio shall be 2° to 1° when the chair is reclined from a neutral angle.

Back Recline

Chairs with a standard tilt (MR111 and MR121) shall have a nominal 22° of body weight-controlled back recline. Chairs with a tilt limiter (MR112 and MR122) shall have a nominal 22° of body weight-controlled back recline and a tilt limiter that lets users limit the amount of back recline in 3 incremental adjustments. Chairs with a tilt limiter and seat angle adjustment (MR113 and MR123) shall have a nominal 26° of body weight-controlled back recline and a tilt limiter that lets users limit the amount of back recline in 4 incremental adjustments.

Seat Angle Adjustment

Chairs with a tilt limiter and seat angle adjustment (MR113) and MR123) shall let the user select a +1.5° horizontal or -2.5° forward seat angle.

Adjustable Arms (Optional)

The adjustable arms shall have an injection-molded glass-filled Nylon 6 tab to let the user loosen the arm height mechanism. The arm height adjustment range shall be approximately 4".

<i>Adjustments continued</i>	<p>The adjustable arms shall have an acrylonitrile butadiene styrene (ABS) button underneath the urethane armpad to let the user loosen the arm width mechanism. The arm width adjustment range shall be approximately 1 1/2".</p> <p>The adjustable arms shall have a plastic plate with indents to allow the arm support to pivot to 3 different positions. The arm shall be adjustable to 11° outward, neutral, and 11° inward angles by applying pressure to the side of the arm. A torsion spring within the arm assembly shall hold the arms in position.</p>
Performance Data	<p>The chair shall be rated to support a maximum of 300 pounds. The chair shall accommodate the 5th percentile female to the 95th percentile male (combination of low and standard height range).</p> <p>See the "Seating Measurements" chart for chair dimensions.</p>

Description	MR910
--------------------	--------------

This upholstered back replaces an existing back on a Mirra® work chair. Its TriFlex™ back is upholstered with Latitude™ fabric on the front side. The applied fabric allows flexible support and airflow.

Dimensions	Backrest Height	Minimum Back Width	Maximum Back Width
	23.4"	15.6"	19"

Construction	The upholstery shall be a 3-dimensional knit fabric of breathable, 100% virgin polyester. The upholstery shall be stapled to the side edges of the back and the staples shall be covered with a co-extruded edge band of polyethylene and thermoplastic elastomer for a soft, tactile finished edge.
---------------------	--

Description	MR905
	This adjustable lumbar support fits into the back of a Mirra® work chair. It adjusts 4 1/2" in height and 1" in depth.

Dimensions	Height Range	Depth Adjustment
	4 1/2"	1"

Construction	The lumbar strap shall be a molded polypropylene thermoplastic secured to a bow-shaped attachment. The bow-shaped attachment (a.k.a. lumbar bow) shall be molded-in nylon and shall attach to the Y-shaped spine. The pad shall be approximately .130" thick. The handles of the lumbar support shall be made from ABS.
---------------------	---

Description	MR900		
	These arms retrofit to a Mirra® work chair. They adjust 4" vertically, 1 3/8" horizontally, and pivot the armpads 11° outward and 11° inward.		
Dimensions	Arm Height	Armpad Width	Armpad Depth
	7.5" – 11.5"	4 3/4"	10"

Construction The adjustable arms shall have an injection-molded glass-filled Nylon 6 tab to let the user loosen the arm height mechanism. The arm height adjustment range shall be approximately 4".

The adjustable arms shall have an acrylonitrile butadiene styrene (ABS) button underneath the urethane armpad to let the user loosen the arm width mechanism. The arm width adjustment range shall be approximately 1 1/2".

The adjustable arms shall have a plastic plate with indents to allow the arm support to pivot to 3 different positions. The arm shall be adjustable to 11° outward, neutral, and 11° inward angles by applying pressure to the side of the arm. A torsion spring within the arm assembly shall hold the arms in position.

Casters	Size (Diameter)	Type	Materials	Use
BB	2 1/2"	hard double wheels	black nylon wheels and yoke	carpet
C7	2 1/2"	double wheels	black nylon wheels and yoke, soft polyurethane tread	hard floors or carpet
C9	2 1/2"	double wheels with internal brake	black nylon wheels and yoke, soft polyurethane tread	hard floors or carpet

Glides	Size	Materials	Use
GF	2 1/2" height	black nylon	hard floors or carpet