

## Little Person's Chair

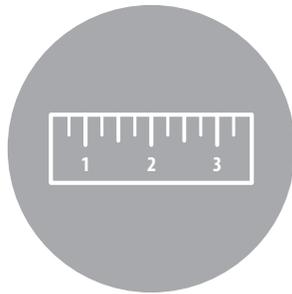


Careful attention must be paid to anthropometrics when manufacturing seating for diastrophics. It is not a matter of simply downsizing a normal office chair as if manufactured for a child. Little people do not have the proportionality of limbs demonstrated throughout the population at large.

When fitting a little person for a chair, the most important measurement is the popliteal-to-buttock length (back of knee to back of buttocks). In this case study, this person's popliteal-to-buttock was 8½". Obviously a standard 18" deep seat pan would prevent her from ever contacting the backrest and getting any lumbar support. Sitmatic manufactured a PS seat at 16" deep, but this would have been still too deep. It was impossible to make the seat pan any shorter because the mechanism underneath the chair, with a 10½" length, would protrude out and hit the occupant in the back of the legs. Sitmatic solved the problem by increasing the backrest thickness 8" by adding multiple layers of foam beneath the contoured top layer. Because the work surfaces were at a standard 29" height, Sitmatic originally manufactured a chair with a footring to provide foot support. After trying the chair, we discovered this lady experienced discomfort if her knees were flexed more than 30°. Sitmatic solved the problem by custom bending a footbar to support her feet at the proper angle. A lower seat height cylinder was used to allow easier ingress and egress. An air lumbar was installed to fine tune the lumbar shape. Wide armrest caps, that rotate in, were used to accommodate a narrow elbow to elbow distance.



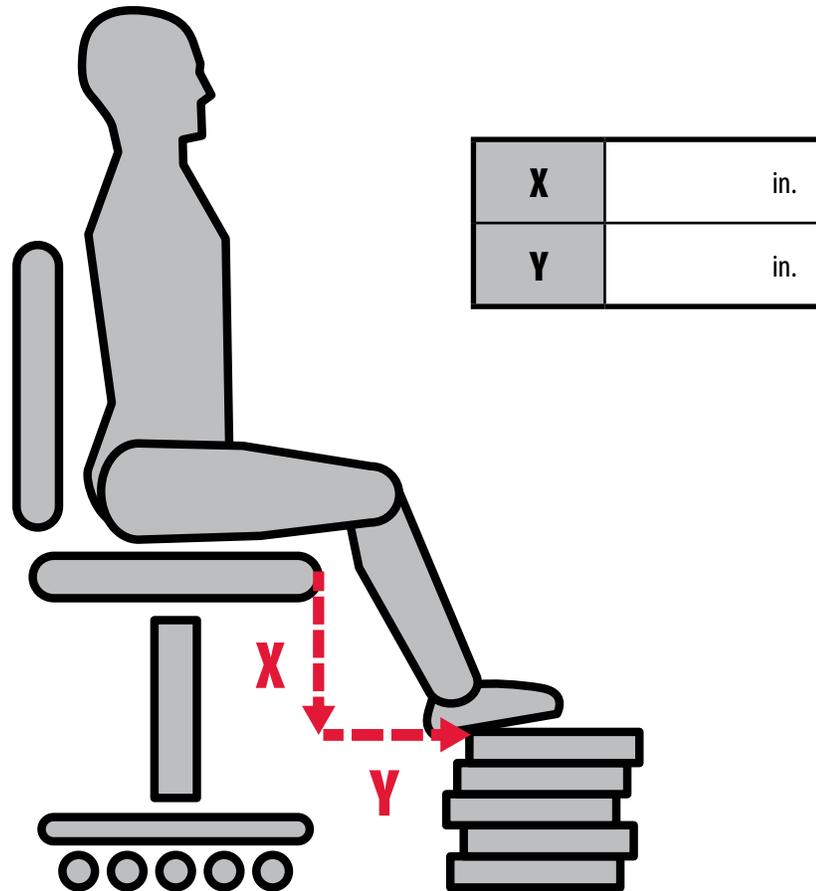
## Custom Fit Measure



<b>Name:</b>		
<b>Telephone:</b>	<b>Email:</b>	
<b>Company:</b>		
<b>Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>

<b>Do you like a chair with armrests?</b>		<b>(Y or N)</b>
<b>Do you use corrective lenses while computing?</b>		<b>(Y or N)</b>
<b>Do you like a chair that:</b>		
<b>Locks in one position after being adjusted?</b>		<b>(Y or N)</b>
<b>Rocking chair?</b>		<b>(Y or N)</b>
<b>Both lockable and rocking?</b>		<b>(Y or N)</b>
<b>Lower Leg Height</b>		<b>in.</b>
<b>Elbow Height from Seat</b>		<b>in.</b>
<b>Eye Height from Seat</b>		<b>in.</b>
<b>Upper Leg Length</b>		<b>in.</b>
<b>Lumbar Height</b>		<b>in.</b>
<b>Thigh Breadth</b>		<b>in.</b>
<b>Elbow to Elbow Distance</b>		<b>in.</b>
<b>Dominant Eye (Left or Right)</b>		<b>(L or R)</b>
<b>Worksurface Height</b>		<b>in.</b>

## Custom Footbar



Have the little person sit in a chair and have them sit with a comfortable space between the front edge of the chair and the back of their legs (usually about 2"). After they are comfortable, using a footstool or pile of books, adjust the chair or the footstool so that the person's legs are comfortably in front of them.

Generally, a little person will not be comfortable with their upper and lower legs at 90° and the angle will be greater than that. We need to know, from the most forward part of the chair, how far down and how far out the person's instep is while they are wearing their normal shoes. This will allow us to custom manufacture a footbar so that their knees are not overly flexed.

If you send us a side view photo of the little person in this posture, it will also help with the manufacturing. If you have any questions, contact us at (800)288-1492.