

# Leveraged Freedom Chair



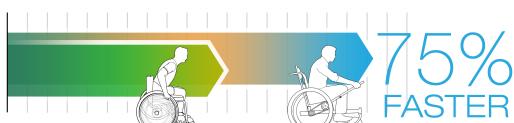
The Leveraged Freedom Chair (LFC) is the **mountain bike of wheelchairs**. It enables people with disabilities in developing countries to move beyond the pavement, providing them with the mobility they need to lead independent lives.

## Great on and off road

Regular wheelchairs are designed for hospitals, not the rough terrain of developing countries. LFC riders push levers instead of the wheels, giving them the torque they need to move beyond the pavement.

Riders "shift gears" by sliding their hands up and down the levers. Grabbing low on the levers is a "high gear", while grabbing high on the levers is a "low gear." The levers can be removed and stored on the chair enabling the LFC to be used like a regular wheelchair indoors and in tight spaces.

Compared to hospital wheelchairs in rural village settings, it is:



## Designed and built to last

Wheelchair riders in developing countries already face a lot of obstacles, repairing their wheelchair should not be one of them. We designed the LFC out of available materials so it can be fixed anywhere.

**“** After I came back from the hospital, I gained confidence... I rested for a day at home and the next day went to my shop.

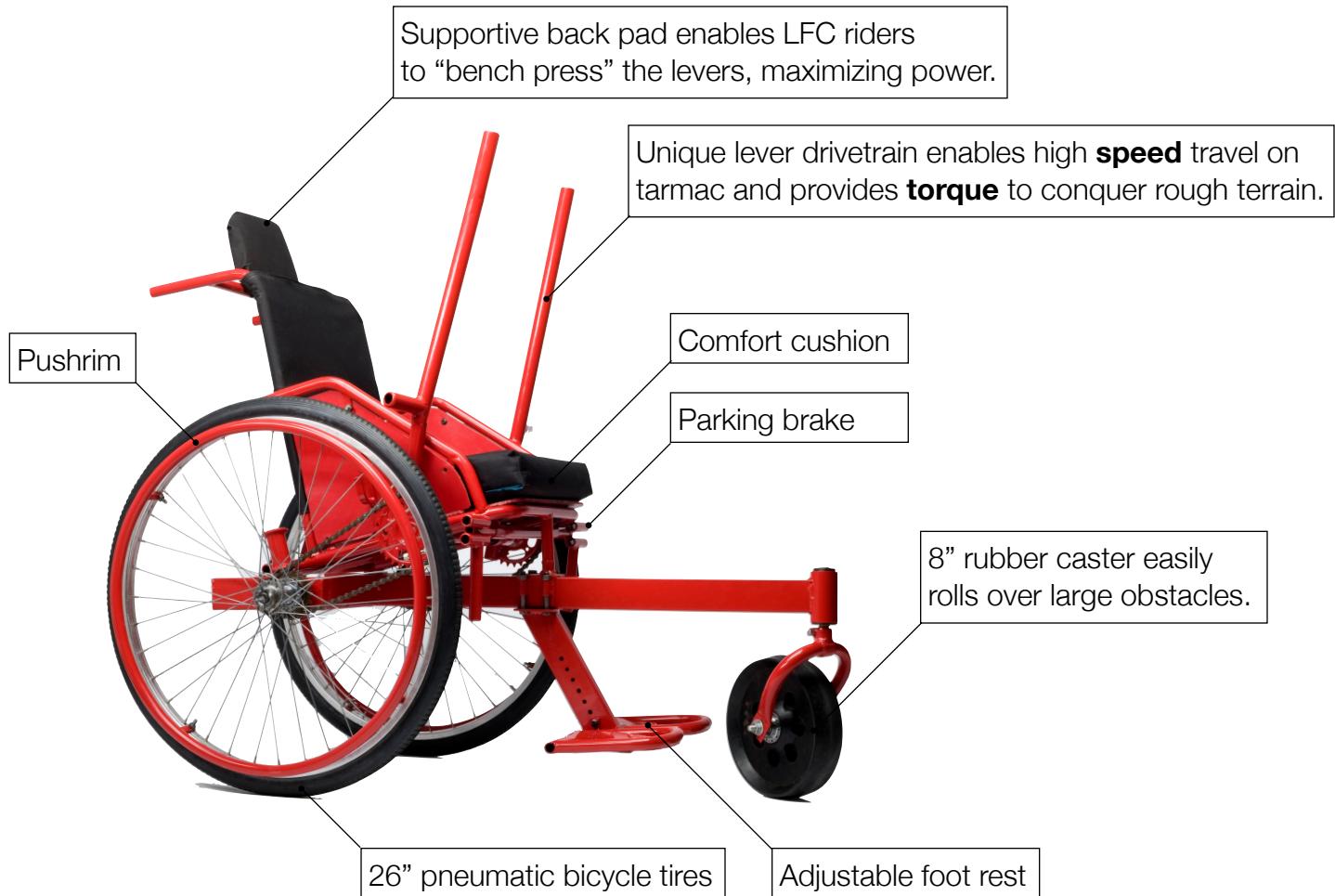
**Now everything is back to normal.”**

Ashok, LFC rider  
Jaipur, India

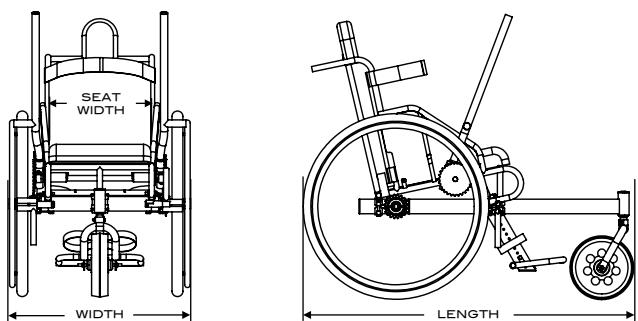


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# Leveraged Freedom Chair



Features	
<b>Intended User</b>	adults without postural support needs
<b>Drivetrain</b>	storable lever drivetrain and pushrims
<b>Gear Ratio</b>	variable mechanical advantage from 1:1 to 3:1
<b>Frame</b>	rigid mild-steel frame with three wheels
<b>Axes</b>	adjustable rear axle position
<b>Rear Wheels</b>	26 in. (66 cm) pneumatic bicycle tires
<b>Front Wheel</b>	8 in. (20.5 cm) solid rubber front castor
<b>Footrest</b>	adjustable footrest with straps
<b>Armrests</b>	fixed armrest with mudguard
<b>Support</b>	comfort cushion, seatbelt, chest and foot straps
<b>Bearings</b>	bicycle ball bearings on all bearing surfaces
<b>Repairability</b>	repairable in a local bicycle shop



Measurements			
Sizes	Small	Standard	Large
<b>Width</b>	24 in. (61 cm)	26 in. (66 cm)	29 in. (74 cm)
<b>Seat Width</b>	13 in. (33 cm)	15 in. (38 cm)	18 in. (46 cm)
<b>Weight</b>	49 lbs. (22 kg)	51 lbs. (23 kg)	53 lbs. (24 kg)