ARM SUPPORT

MATERIALS

- A PVC tube (250mm)
- B Fomix (4mm thick)
- C Bolts and nuts
- D Rivets
- E Steel tube (18mm)
- F Steel Platen (4mm thick)
- G Bike Stem
- H Lariat and velcro (1")
- I Barrette
- J Levelers
- K Contact cement

HOW TO FABRICATE

1. Measure the child's arm and cut the PVC tube accordingly (the range should be from 15cm to 25cm depending on the child).
2. Cut the PVC tube in half and polish the edges.
3. Drill 6 holes on each PVC piece, as can be seen on the image (2 on the center and 4 on the edges).
4. Cut the Fomix (28cmx14-17cm) and glue it to the PVC pieces with contact cement.
5. Cut 4 pieces of lariat (22cm), 4 pieces of soft velcro and 4 pieces of hard velcro (7.5cm), and sew the velcro to one end of the lariat. Sew the soft velcro first and then the hard velcro.
6. Rivet the pieces of lariat and velcro to each PVC piece.
7. Cut 4 pieces of lariat (10cm) and put them together with the barrettes. Rivet the lariat and barrettes to the PVC pieces.
8. Cut a small piece of platen (7.5cmx2.54cm) and drill two holes in the center (same position as PVC center holes).
9. Cut a small piece of steel tube (22cm) and weld it to the center of the platen.
10. Put together the PVC, platen and tube with bolts and nuts.
11. Drill a hole on the side of the bike stem and weld a nut (the nut should fit the leveler).
12. Make the bike stem center hole bigger, to fit the steel tube.
13. Insert the steel tube into the bike stem and screw in the leveler.
14. Fit the arm support to the gait trainer.