

## Fast Bowling Technique

Recent studies have identified young fast bowlers as the players most prone to injury.

Three of the main reasons for this are;

- Lack of proper stretching exercise during warm-up and cool-down periods.
- Overuse stress, especially during growth spurts.
- Incorrect technique.

This page deals with providing the basic fundamentals of the two bowling techniques, side-on and front-on. Players, parents and coaches should ensure that fast bowlers use either the side-on technique or the front-on technique [if sufficient shoulder flexibility exists], and NOT a combination of these techniques. The following mechanics and diagrams assume a right hand bowler - opposite for left handers.

-- Side On - Front On - Impact Stress --

### The Side-On Technique

#### Run-up

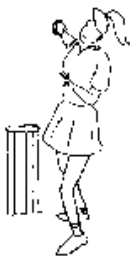


- The approach should be at an optimal speed for the individual, however, this velocity must allow the bowler to adopt a side-on position at delivery.
- The run-up should be a gradual progression in speed culminating in optimal speed about 3 or 4 strides prior to delivery.

#### Back Foot

- Rear foot is placed parallel to the bowling crease

#### Impact



- Chest and hips face the bowler's stumps.
- Shoulder and hip alignment are pointed towards the batsman until just prior to release of the ball.
- Non-bowling arm is thrust high into the air.
- Bowler looks behind the front arm without arching the back.



### Delivery Stride

- Elbow of the non-bowling arm is accelerated into the side of the body.
- Lateral flexion and extension of the spine with little or no arching or twisting of the spine.
- Front leg should land pointing straight down the wicket or slightly to the on-side for a right handed batter and in alignment with the back foot.



### Release

- Knee of the front leg should be slightly bent to help absorb some of the impact forces.

### Follow-Through

- Bowling arm follows through downwards and backwards past the outside of the left leg for a right handed bowler.
- Bowler should continue for at least six steps after delivery of the ball to gradually reduce forward momentum.

## **The Front-On Technique**



### Run-up

- The approach should be at an optimal speed for the individual.

### Back Foot

- Rear foot is placed facing straight down the wicket or slightly towards the on-side ie. the fine leg position for a right handed batter.



### Impact

- Chest and hips face the batsman.
- Non-bowling arm is thrust high into the air.
- The bowler looks straight down the wicket, on the inside of the non-bowling arm.



### Delivery Stride

- Front leg should land pointing straight down the wicket.
- Shoulders should be relatively parallel to the crease.
- The elbow of the non-bowling arm is accelerated downwards.
- The bowler's arm leads the forward movement of the body.

### Release

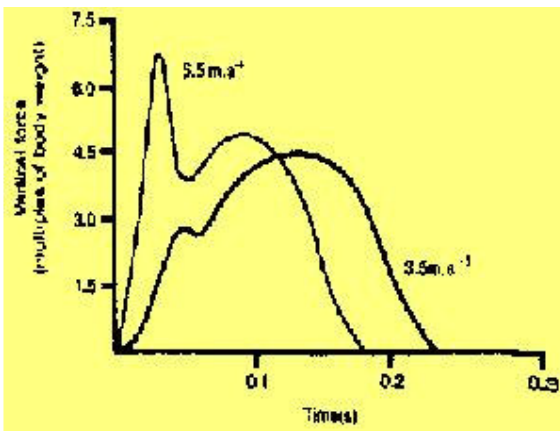
- Knee of the front leg should be slightly bent to help absorb some of the impact forces.



### Follow-Through

- Bowling arm follows down the side of the body.
- Bowler should continue for at least six steps after delivery of the ball to gradually reduce forward momentum.

## **Impact Stress**



The table opposite shows the relationship between velocity and the stress it can place on a bowler, particularly the knees.

A. At 6.5m.s<sup>-1</sup> the front foot has less time in contact with the ground but the body must absorb a force of approximately 7 times the bowler's body weight thus the potential for injury to ankles & knees is high.

B. At 3.5m.s<sup>-1</sup>, while ground contact is increased the force on the body is reduced to 4.5 times the bowler's body weight.

Conversely, these forces also apply to the back foot on push-off.

It is very popular, especially for young fast bowlers, to have long run-ups at maximum velocity. However, in fact, it adds little to the actual pace of the delivery when compared to the potential for serious injury. As a guideline, run-ups should be limited to providing the bowler with rhythm and enough momentum to be able to complete their follow-through in approximately six paces. In the end, pace means nothing if the accuracy of the delivery cannot be effectively controlled.