## British rowing technique

# The perfect stroke

This is the third in a series of three articles, which look at good rowing, sculling and ergometer technique. The high performance coaches - including . Jürgen Grobler, Marty Ai<mark>tke</mark>n, Paul Thompson and Pete Sheppard - have got together to define British rowing technique, which has been endorsed and adopted by the coaching development officers and incorporated into the coaching award scheme and national junior rowing programme. The 'perfect stroke' is shown in the series of photographs published here.

#### Good technique is about producing maximum power for minimum effort

This will enable you to move the boat as far as possible each stroke in the most efficient way or, on the ergometer, producing the fastest split or highest wattage possible in the most efficient

Coaches need to understand that in order to move a boat or ergometer well, several concepts about technique must be understood. Differences in size, strength and ability mean that different athletes achieve maximum efficiency in slightly different ways. Coaches need to be able to spot where changes in technique can be made to maximise efficiency.

#### Link together kinetic chain

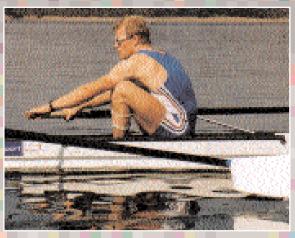
Most of the concepts that contribute to efficient technique can be summed up in one or more of the pictures. However, the concept of 'link together kinetic chain' applies to the whole stroke. The rowing stroke requires constant movement and application of power or controlled recovery to be effective. The whole of the body is engaged in the activity and therefore each part of the body chain needs to transfer the power. Hence posture and trunk stability are key to rowing efficiently.

## Rowing technique

The hands should be no more than two handswidths apart on the handle. Outside hand on the end of the blade controls the blade height, the inside hand controls the square and feathering. Rotation is around the rigger with the outside shoulder, enabling the body to follow the arc of the blade handle

Photographs: John West

#### Outside hand raises the handle and Catch locks the blade in the water



- Shins vertical. No gap between thighs and body
- ☐ Lower back set at catch

Drive phase

☐ Body in pre-stretched position



- ☐ Hands rise where they reach to
- ☐ Lock up the face of the blade in

is low down in the body, not in the shoulders

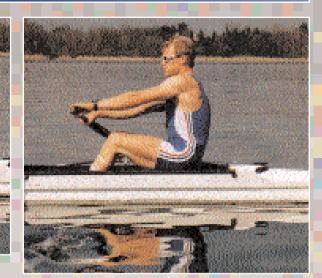
☐ Hang/suspend body weight on the handle. The connection

- ☐ Blade in at furthest point forward

#### ☐ Blade locked into the water ☐ Engage and push

☐ Legs and then body

**Drive phase** 

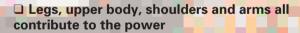


□ Legs accelerate through the stroke

☐ Back opening when the handle is in front of the knees

## **Extraction**









☐ Weight still hanging on the blade



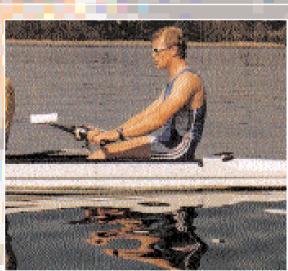
- ☐ Outside hand controls the blade movement at the extraction ☐ Brush the T-shirt with the outside hand
- ☐ Release the pressure on the handle just before the small circle around the finish
- ☐ Blades square as long as possible

Hands down and away

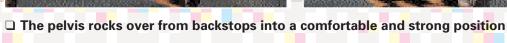
- Recovery phase Good organisation of body Weight transferred early of
- ☐ Hands body and



☐ Hands lead the recovery









- ☐ Prepare early by squaring as the blades pass the knees
- Body pre-stretched and ready for the catch on the last part of the slide
- Outisde shoulder around the rigger

## **British rowing technique**

## The perfect stroke

### The roll of the hands

The outside wrist remains flat throughout the stroke cycle

#### Catch

☐ Outside hand raises the handle and locks the blade in the water



Approach to the catch

☐ The blade is rolled onto the square by the inside hand



- ☐ Outside hand hooks the blade into
- ☐ Body back and legs remain in the same position
- ☐ Blade engaged at further point forward



- □ Blade face covered
- Body weight hanging on the handle

#### **Extraction** • Outside wrist remains flat



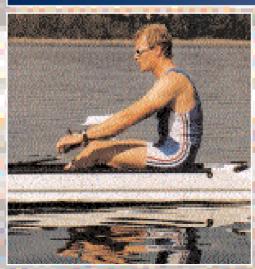
☐ Blade square as long as possible



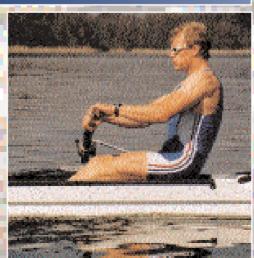
- Outside hand pushes the blade handle down
- The blade handle is carried at an even height out of the recovery with enough room to square the blade
- ☐ Then the inside hand rotates the blade smoothly onto the feather

## The rotation of the body

All the pictures on this page show the outside shoulder following the arc of the blade handle



Once the handle passes 900 the shoulder starts to rotate



☐ The outside shoulder remains parallel to the blade

Athlete:
Rick Dunn was a member of the world championships coxed four in 2000, the world championships coxless four in 2001 and the silver medalwinning coxless four in 2002.
John West – who took these photographs – has coached him in all three boats