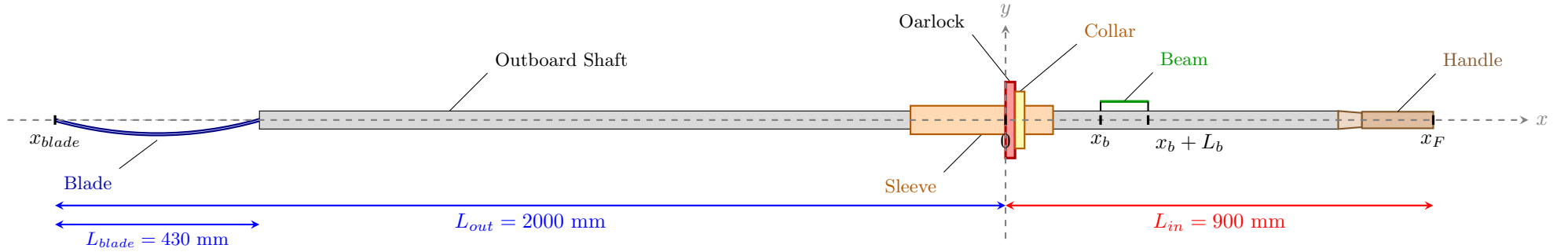


Sculling Oar Geometry with Beam - Top View



Nomenclature

Symbol	Description	Typical Values of Concept2 sculling blade (skinny shaft)
L_{out}	Total outboard length (blade tip to oarlock)	2000 mm
L_{blade}	Blade length	430 mm
$L_{shaft,out}$	Outboard shaft length	1570 mm
L_{in}	Inboard length (oarlock to handle end)	900 mm
$L_{shaft,in}$	Inboard shaft length	700 mm
L_{handle}	Handle total length	200 mm
x_F	Handle end position from oarlock	900 mm
D_o	Shaft outer diameter	38 mm
D_i	Shaft inner diameter	32 mm
t_s	Shaft wall thickness	3 mm
Beam Parameters		
L_b	Beam length between attachment points	100 mm
h_b	Beam height (bending direction, y-direction)	2 mm
x_b	Beam root position from oarlock	200 mm
y_b	Beam neutral axis eccentricity from shaft centerline	39 mm

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