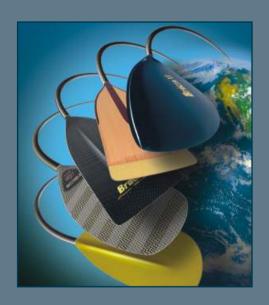
PADDLES AND ACCESSORIES



www.braca-sport.com production line \cdot issue **13** 2013









MISSION AND PHILOSOPHY







BRAČA-SPORT® mission and philosophy is to design, develop and produce the best performing paddle for every paddler. We believe that each paddler has different needs and therefore each paddle should be uniquely designed. Different designs work better for different paddlers and environments. Our goal is to continue research, development and creation of a diverse range of products that satisfy the vast variety of paddlers. We are the only manufacturer to engineer paddles in every paddling category: Canoe Polo, Dragon Boat, Flatwater, Freestyle, Marathon, Ocean Racing, Outrigger, Slalom, Touring, Waveski and Wildwater. With a total of 130 different canoe and kayak paddles with over 400,000 configurations we have the right paddle for everyone.

Our paddles have been designed using the latest technology available, inspired by the comments and in collaboration with some of the world's most successful paddlers and coaches. We invented the revolutionary 'tear-drop' blade concept that redefined paddle performance and is now being copied by other manufacturers. This has become the 'de facto' blade in the paddling community and the world's only mechanical energy paddle concept.

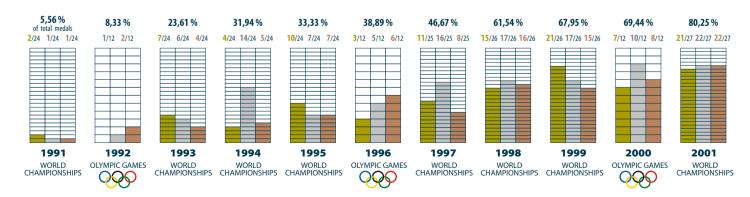
We are the only manufacturer to engineer and produce carbon fabrics and paddles. This provides the ability to produce a very specific and fine grain unidirectional high modulus carbon (HMC) fabric layers in contrast to what is available in the market. The diverse range of specific and fine grain materials is the key improvement enabler of the paddle's performance characteristics.







OLYMPIC GAMES AND WORLD CHAMPIONSHIPS MEDALS WON BY ATHLETES USING BRAČA-SPORT PADDLES







Together with proprietary multi-layer and multi-characteristic lay-up methods of a proprietary blend of composite fibers and a reinforced proprietary UV epoxy resin provides the ultimate mechanical and kinetic capabilities. This enables desired catch, slip, pull-through, flutter and acceleration of the paddle and guarantees these characteristics for every paddle produced, yielding the world acclaimed mechanical energy BRAČA-SPORT® paddle.

BRAČA-SPORT® was first to develop and produce paddles specifically designed for children and young adults. Our proprietary material characteristics and mechanics of the paddle are specifically designed to fit children's physiology. It enables the absorption of impact from each paddle stroke, therefore reducing shock on the shoulders, elbows and wrists and ultimately decreasing common kayak injuries. The above technological methods are also used to design and develop paddles for recreational and senior paddlers.

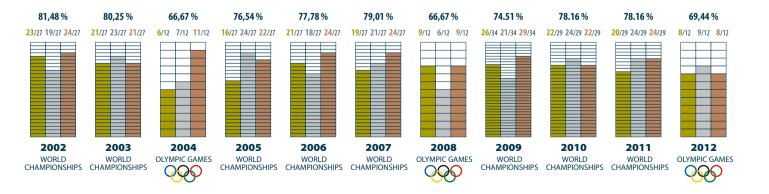
KEY FACTS

- Original inventor of the 'tear-drop' concept.
- The only manufacturer to engineer and produce carbon fabrics and paddles.
- World's first and only mechanical energy paddle.
- More than 300 years of combined engineering experience, including aerospace, advanced composite materials science, biomechanics and kinetics, mechanical, electrical, chemical and software engineering.
- Built to suit different styles, techniques and physical characteristics of each paddler.
- First to develop and produce paddles specifically designed for children and youth.
- Designer, developer and producer of the largest paddle selection in the world.

RESULTS

- Used at every level, from world class athletes to children and recreational paddlers.
- Superb durability and outstanding performance.
- Over 750 Olympic Games and World Championships medals.
- The lowest breakage rate in the industry.
- The majority of today's world class paddlers make BRAČA-SPORT® their #1 choice.

All blades and shafts are made from materials of **unidry** and **unipret**. More information on the website <u>www.unicarbon.com</u>.



TEAR-DROP MODELS



BRAČA IV
Brača IV max
Brača IV max Extra Light
Brača IV max Marathon
Brača IV max 60
Brača IV min
Brača IV min Extra Light
Brača IV min Marathon
Brača IV min 60
Brača IV s-min
Brača IV s-min Extra Light
Brača IV s-min Extra Light
Brača IV s-min Extra Light
Brača IV s-min Marathon
Brača IV s-min Marathon
Brača IV s-min Marathon
Brača IV xs-min Marathon



Brača I, IV and **FW** are the original world's first 'teardrop' design and our most widely used paddles. The paddles are designed to facilitate application of power in the beginning (catch) and in the middle of the stroke, enabling capabilities to obtain the "ultimate" forward stroke.

Brača I and **Brača IV** are available with Marathon blade construction. This is the result of advanced technology and a proprietary blend of composite materials, and was designed with the marathon and adventure paddler in mind. The edge of the blade is reinforced with a kevlar layer that makes it highly impact resistant in extreme downriver conditions.

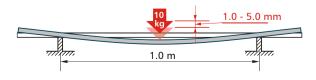
Brača I and **Brača IV** are available in the extra light and stiff construction for the athlete who prefers light and stiff characteristics.



Brača IV 60 is designed for the paddler who prefers a softer blade and shaft.

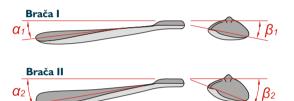
Brača Children is an exact copy of the **Brača I** and **Brača IV** with proportionally smaller blade size and with proprietary material characteristics. The mechanics of the paddle are specifically designed to fit children's physiology. It enables the absorption of impact from each paddle stroke, therefore reducing shock on the shoulders, elbows and wrists and ultimately decreasing common kayak injuries.

SHAFT STIFFNESS MEASUREMENT PROCESS



TEAR-DROP MODELS





 $\alpha_1 < \alpha_2$ and $\beta_1 < \beta_2$



Brača II is based on **Brača I** design, it has an increased blade pitch (see *diagram below*), which provides a firmer 'catch' and more effortless exit than **Brača I**.

Brača II is available in the extra light and stiff construction for the athlete who prefers light and stiff characteristics.

Brača VIII is a line of Brača paddles based on the latest innovative blade concept.

It was designed and engineered to facilitate a softer catch and generation of smooth, precise and consistent strokes.

Brača VIII is available in three blade sizes (*min*, *max* and *x-max*) to match the performance requirements of the vast variety of athletes.

TECHNICAL PARAMETERS OF TEAR-DROP MODELS

	Area (ni.ps/mɔ.ps) Width (with Kevlar	Full Adjuste 4 pc sp	Blade Shaft	(g/oz)
Brača I max Brača I max Extra Light NEW Brača I s-max NEW Brača I s-max Extra Light Brača I min Brača I min Extra Light Brača I min Marathon Brača I s-min Brača I s-min	840/130.2 52.0 17.5 840/130.2 52.0 17.5 820/127.1 51.8 17.2 820/127.1 51.8 17.2 805/124.8 51.6 17.0 805/124.8 51.6 17.0 805/124.8 51.6 17.0 790/122.2 51.4 16.9 790/122.2 51.4 16.9	2.2 - 2.5 - 2.5 - 2.5 - 2.5 - 2.7 -	2.3 ° ° ° 2.3 ° ° ° 2.6 ° ° ° ° 2.6 ° ° ° ° 2.6 ° ° ° 2.6 ° ° ° 2.8 ° ° ° 2.8 ° ° ° ° 2.8 ° ° ° ° ° 2.8 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	780/27.5 680/24.0 770/27.2 660/23.3 760/26.8 650/22.9 760/26.8 740/26.1 620/21.9
Brača IV max Brača IV max Extra Light Brača IV max Marathon Brača IV max 60 Brača IV min Brača IV min Extra Light Brača IV min Marathon Brača IV min Marathon Brača IV s-min Brača IV s-min Extra Light NEW Brača IV s-min Marathon	765/118.6 50.0 16.8 765/118.6 50.0 16.8 765/118.6 50.0 16.8 765/118.6 50.0 16.8 735/113.9 49.5 16.3 735/113.9 49.5 16.3 735/113.9 49.5 16.3 705/109.2 49.0 15.8 705/109.2 49.0 15.8 705/109.2 49.0 15.8 705/109.2 49.0 15.8 705/109.2 49.0 15.8 635/98.4 45.3 15.1	• 2.7 - 2.7 - 3.2 - 2.9 - 2.9 - 3.2 - 3.1 - 3.1 - 3.2 - 3.2 - 3.2 - 3.2 - 3.2 -	2.8 ° ° ° 2.8 ° ° 2.8 ° ° ° 3.4 ° ° ° 3.2 ° ° ° 3.2 ° ° ° 3.4 ° ° ° 3.4 ° ° ° 3.4 ° ° ° 3.4 ° ° ° 3.4 ° ° ° ° 3.4 ° ° ° ° 3.4 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	100 100 100 100 100 100 50 60 100 100 100 100 50 60 100 100 50 60 100 100 50 60 100 100 100 100 50 60	650/22.9 600/21.2 650/22.9 780/27.5 640/22.6 580/20.5 640/22.6 770/27.2 630/22.2 560/19.8 630/22.2 760/26.8 600/21.2
Brača FW max Brača Children max Brača FW min Brača Children min	635/98.4 45.3 15.1 635/98.4 45.3 15.1 610/94.5 45.0 14.4 610/94.5 45.0 14.4	4.7 - 3.1 -	3.2 · · · 4.9 · · · · 4.9 · · · · 4.9 · · ·	100 100 50 60 100 100 50 60	600/21.2 750/26.5 580/20.5 740/26.1
Brača II max Brača II max Extra Light NEW Brača II s-max NEW Brača II s-max Extra Light Brača II min Brača II min Extra Light Brača II s-min Brača II s-min Extra Light	835/129.4 52.0 17.5 835/129.4 52.0 17.5 820/127.1 51.8 17.2 820/127.1 51.8 17.2 815/126.3 51.6 17.0 815/126.3 51.6 17.0 790/122.2 51.4 16.9 790/122.2 51.4 16.9	2.2 - 2.5 - 2.5 - 2.5 - 2.5 - 2.7 -	2.3 · · · 2.3 · · · · 2.6 · · · · 2.6 · · · · 2.6 · · · · 2.6 · · · · 2.8 · · · · 2.8 · · · · 2.8 · · · · · · · · · · · · · · · · · · ·	100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	780/27.5 680/24.0 770/27.2 660/23.3 760/26.8 650/22.9 740/26.1 620/21.9
Brača VIII x-max Brača VIII max Brača VIII min	837/129.7 57.5 15.5 799/123.8 57.4 15.0 767/118.9 57.3 14.6	2.7 - 2.7 -	2.8 ° °		750/26.5 730/25.8 710/25.0

PARALLEL-EDGE MODELS



Brača III is the 'parallel-edge' model and is the preferred paddle of lighter male athletes.

Brača III 60 is designed for the paddler who prefers a softer blade and shaft.



Brača V is the latest update of the traditional 'parallel edge' concept, recommended for paddlers who prefer this shape to the more aggressive 'tear-drop' shape.

BRAČA KID
Brača Kid max
Brača Kid min
Brača Kid s-min

Brača Kid is a 'parallel-edge' blade with proportionally smaller blade size and with proprietary material characteristics. The mechanics of the paddle are specifically designed to fit children's physiology. It enables the absorption of impact from each paddle stroke, therefore reducing shock on the shoulders, elbows and wrists and ultimately decreasing common kayak injuries.

TECHNICAL PARAMETERS OF PARALLEL-EDGE MODELS

	Surface Area (sq.cm/sq.in)	Length (cm) ^a	Width (cm)	Adjustable A posplit	Blade (%) Shaft	Weight (g/oz)
Brača III	755/117.0	53.0	15.5	2.5 - 2.6	100 100	750/26.5
Brača III 60	755/117.0	53.0	15.5		50 60	820/28.9
Brača V	810/125.5	52.0	17.1	2.5 - 2.6 • •	100 100	750/26.5
Brača Kid max	655/101.5	46.5	15.0	4.7 - 4.9	50 60	750/26.5
Brača Kid min	615/95.3	46.0	14.0		50 60	730/25.7
Brača Kid s-min	580/89.9	45.2	13.3		50 60	700/24.7

EXTREME TEAR-DROP MODELS



Brača VI and **Brača VII** are designed with a more extreme 'tear-drop' shape, which facilitates a very powerful catch.

This design facilitates application of all power in the beginning of the stroke (catch) only. In these models the blade is fitted into the shaft.





Brača Junior is an exact copy of the **Brača VI** and **Brača VII** with proportionally smaller blade size and with proprietary material characteristics. The mechanics of the paddle are specifically designed to fit children's physiology.

It enables the absorption of impact from each paddle stroke, therefore reducing shock on the shoulders, elbows and wrists and ultimately decreasing common kayak injuries.

Brača Junior 100 is also available in standard (100% carbon) construction.



Brača Junior max Brača Junior max 100 Brača Junior min Brača Junior min 100



TECHNICAL PARAMETERS OF EXTREME TEAR-DROP MODELS

	Surface Area (sq.cm/sq.in)	Length (cm)	Width (cm)	S h a Stiffness (mm)	Full Adjustable 4 pc split	Blade (%) Shaft	Weight (g/oz)
Brača VI max	780/120.9	52.0	17.5	2.7 - 2.8	0 0	100 100	750/26.5
Brača VI min	765/118.6	51.7	17.1	2.9 - 3.0	0 0	100 100	730/25.8
Brača VI s-min	750/116.2	51.5	17.0	3.1 - 3.2	0 0	100 100	710/25.0
Brača VII max	745/115.4	49.3	16.7	3.1 - 3.2	0 0	100 100	700/24.7
Brača VII min	725/112.3	48.9	16.4	3.1 - 3.2	0 0	100 100	680/24.0
Brača VII s-min	710/110.0	48.7	16.2	3.1 - 3.2	0 0	100 100	660/23.3
Brača Junior max	685/106.2	48.7	15.5	3.2 - 3.4	0 0	50 60	800/28.2
Brača Junior max 100	685/106.2	48.7	15.5	2.7 - 2.9	0 0	100 100	600/21.2
Brača Junior min	665/103.1	48.4	15.2	3.2 - 3.4	0 0	50 60	780/27.5
Brača Junior min 100	665/103.1	48.4	15.2	2.7 - 2.9	0 0	100 100	580/20.5

HYBRID (FUSION) MODELS



Brača IX and **Brača X** is the line of Brača paddles engineered using advanced kinetic, biomechanical and material science concepts to combine the best characteristics from multiple paddle designs into one hybrid model.

The revolutionary idea enables the paddle to provide different characteristics during each phase of the stroke (catch, drive and exit).



It has a very firm catch, and then transitions to the smooth, medium power drive and then to an effortless and forgiving exit.

TECHNICAL PARAMETERS OF HYBRID (FUSION) MODELS

			•		
	Bla Surface Area (sq.cm/sq.in)	Length (cm) &	Stitll Stitll Adjustable A pc split	Blade (%) Shaft Loads	Weight (g/oz)
Brača IX max Brača IX min	765/118.6 740/114.7	52.0 16.2 51.5 15.9	2.7 - 2.8	100 100 100 100	650/22.9 640/22.6
Brača X max Brača X min		50.0 15.3 49.5 15.0	3.1 - 3.2 · · · · 3.1 - 3.2 · · ·	100 100 100 100	620/21.9 600/21.2

OLYMPIC GAMES







Danuta Kozák (Hungary)



Edward Daniel McKeever (Great Britain)



Rudolf Dombi, Roland Kökény (Hungary)



Gabriella Szabó, Danuta Kozák, Katalin Kovács, Krisztina Fazekas (Hungary)

OLYMPIC GAMES







Tate Smith, Dave Smith, Stewart Murray, Jacob Clear (Australia)



Alexander Dyachenko, Yury Postrigay (Russia)



Inna Osypenko-Radomska (Ukraine)





Saul Craviotto (Spain)



Vadzim Makhneu, Raman Piatrushenka (Belarus)





Katalin Kovács, Natasa Douchev-Janics (Hungary)



Zoltán Kammerer, Dávid Tóth, Tamás Kulifai, Dániel Pauman (Hungary)



Natasa Douchev-Janics (Hungary)



Josefa Idem (Italy)

Olympic Games	Age	Sport event	Team	NOC	Rank	Medal
1984 - Los Angeles	19	Women's Kayak Doubles, 500 metres	West Germany	FRG	3	Bronze
1984 - Los Angeles	19	Women's Kayak Fours, 500 metres	West Germany	FRG	5	
1988 - Seoul	23	Women's Kayak Singles, 500 metres	West Germany	FRG	9	
1988 - Seoul	23	Women's Kayak Fours, 500 metres	West Germany	FRG	5	
1992 - Barcelona	27	Women's Kayak Singles, 500 metres	Italy	ITA	4	
1996 - Atlanta	31	Women's Kayak Singles, 500 metres	Italy	ITA	3	Bronze
2000 - Sidney	35	Women's Kayak Singles, 500 metres	Italy	ITA	1	Gold
2004 - Athens	39	Women's Kayak Singles, 500 metres	Italy	ITA	2	Silver
2008 - Beijing	43	Women's Kayak Singles, 500 metres	Italy	ITA	2	Silver
2012 - London	47	Women's Kayak Singles, 500 metres	Italy	ITA	5	
, ,		,	,		_	Silver



Tim Brabants (Great Britain)

	Olympic Games	Age	Sport event	Team	NOC	Rank	Medal
ſ	2000 - Sidney	23	Men's Kayak Singles, 1000 metres	Great Britain	GBR	3	Bronze
l	2004 - Athens	27	Men's Kayak Singles, 1000 metres	Great Britain	GBR	5	
١	2008 - Beijing	31	Men's Kayak Singles, 500 metres	Great Britain	GBR	3	Bronze
l	2008 - Beijing	31	Men's Kayak Singles, 1000 metres	Great Britain	GBR	1	Gold
I	2012 - London	35	Men's Kavak Singles, 1000 metres	Great Britain	GBR	8	

OLYMPIC GAMES

LONDON 2012





Karolina Naja, Beata Mikołajczyk (Poland)



Bridgitte Hartley (South Africa)







Iryna Pamialova, Nadzeya Papok, Volha Khudzenka, Maryna Pautaran (Belarus)



Miklós Dudás (Hungary)



Mark de Jonge (Canada)



Marta Wałczykiewicz (Poland)



Dave Smith, Ken Wallace (Australia)



Yanan Wu, Yu Zhou (People's Republic of China)



Yvonne Schuring, Viktoria Schwartz (Austria)



Arnaud Hybois, Sebastien Jouve (France)



Maxime Beaumont (France)

CONDON 2012

OLYMPIC GAMES





Teresa Portela Rivas (Spain)

CANOE GERE MODELS



Brača Canoe Gere Standard is designed using production techniques derived from many decades of experience delivering functionality to satisfy the requirements of the majority of athletes.

Brača Canoe Gere Hard is designed for the strong (90 kg / 198 lb plus) athlete, with added stiffness, which makes it slightly heavier.



Brača Canoe Gere Neptun is a unique design with the highest possible performance.

Lacquered and highly polished blade surface, pronounced shaping and the use of top quality materials give this blade its superb finish and its outstanding properties.

TECHNICAL PARAMETERS OF CANOE GERE MODELS

	Blade					Shaft			
	Surface Area (sq.cm/sq.in)	Length (cm)	Width (cm)	Wooden	Glass Fiber ح Carbon م Oval ج Round	Stiffness (mm)	Carbon content (%) Full Adjustable	Wooden Handle	Weight (g/oz)
Brača Canoe Gere Standard Brača Canoe Gere Hard	908-1116/140.7-173.0 908-1116/140.7-173.0	54 - 56 54 - 57	20 - 22 22 - 23	•	• •	1.8 - 1.9 1.8 - 1.9	100 ° ° 100 ° °		800/28.2 820/28.9
Brača Canoe Gere Neptun	908-1116/140.7-173.0	54 - 56	20.5 - 22	•	• •	1.8 - 1.9	100 • •	•	780/27.5

CANOE MODELS



Brača Canoe 20 and Brača Canoe 21.5 are an exact copy of the wooden blade paddle (see previous model Brača Canoe Gere).

This paddle has the same grip as the wooden paddle, but it has higher outer mechanical strength and impact resistance.



Brača Canoe Medium is designed with a stabilizing central spine in the middle of the blade. It has a specific, non-uniformly distributed catch.

This shape allows the paddler to perform the most effective straight strokes (it doesn't 'run aside') and steering against the wind becomes much easier.

Brača Canoe Uni 2000 uses the same shape as **Brača Canoe Medium**, but has a wider range of sizes.

Size must be specified when ordering.

TECHNICAL PARAMETERS OF CANOE MODELS

	ВІ	Shaft	Handle	Carbon content			
	Surface Area (sq.cm/sq.in)	Width (cm)	Length (cm)	Stitluess Full Full Adjustable	Wooden Han	Blade %	Weight (g/oz)
Brača Canoe 20 Brača Canoe 21.5	960/148.8 1038/160.9	20 21.5	59 59	2.1 - 2.3 · · · 1.8 - 1.9 · ·	:	100 100 100 100	700/24.7 750/26.5
Brača Canoe Medium	1038.9/160.9	21.5	59	1.8 - 1.9 • •	•	100 100	750/26.5
Brača Canoe Uni 2000	908-1116/140.7-173.0	{ 19 - 20 21 - 22 22.5 - 23	57 - 59 57 - 59 57 - 59	2.0 - 2.2	•	100 100 100 100 100 100	750/26.5 770/27.2 790/27.9



Yuri Cheban (Ukraine)



Jevgenij Shuklin (Lithuania)



Andrei Bahdanovich, Aliaksandr Bahdanovich (Belarus)







Alfonso Benavidez Lopes de Ayala (Spain)



David Cal Figueroa (Spain)



Mark Oldershaw (Canada)



Ivan Shtyl' (Russia)



Maria Kazakova (Russia)



Laurence Vincent-Lapointe, Mallorie Nicholson (Canada)



Alexey Korovashkov, Ilya Pervukhin (Russia)



Sergiy Bezugliy, Maksim Prokopenko (Azerbaijan)



Attila Vajda (Hungary)

OLYMPIC GAMES





Vadim Menkov (Uzbekistan)



Mathieu Goubel (France)

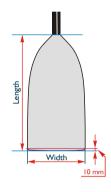
CANOE MODELS



Brača Canoe Children is an exact copy of the **Brača Canoe Uni 2000** with proportionally smaller blade size and with proprietary material characteristics. The mechanics of the paddle are specifically designed to fit children's physiology.

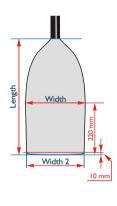
It enables the absorption of impact from each paddle stroke, therefore reducing shock on the shoulders, elbows and wrists and ultimately decreasing common canoe injuries.





Brača Canoe Uni Extra Wide is the line of Brača canoe sprint paddles designed and engineered to enable a very quick and powerful catch. This design facilitates the application of all power in the beginning of the stroke (catch) and an effortless exit.





Brača Canoe Uni Super Fat is the new line of Brača canoe sprint paddles designed and engineered to enable a quick, powerful and very smooth catch. This design facilitates the application of all power in the beginning of the stroke and an effortless exit, while preventing stress to the hand and wrist by absorbing the entrance shock, therefore making the catch extremely smooth and efficient.

TECHNICAL PARAMETERS OF CANOE MODELS

	Surface Area (sq.cm/sq.in)	B I a B l a e	Width 2 (cm)	Length (cm)	Shaft Stiffness (mm) Adjustable	Wooden Handle	Blade (%) Shaft	Weight (g/oz)
Brača Canoe Children Brača Canoe Children 100	665-775/103.1-120.1 665-775/103.1-120.1	16 - 18. 16 - 18.		47 - 50 47 - 50	4.5 - 4.8 o o 3.2 - 3.5 o o	•	60 60 100 100	480-520/16.9-18.3 450-480/15.9-16.9
Brača Canoe Uni Extra Wide	916-1097/142.0-170.0	22 22.5 23;23.5 24;24.5; 25.5;26	25	48 - 50 50 50 50 - 55 50 - 51	2.0 - 2.2	•	100 100 100 100 100 100 100 100 100 100	680/24.0 680/24.0 720/25.4 760/26.8 780/27.6
Brača Canoe Uni Super Fat	916-1070/142.0-165.9	21 21.5 22 22.5 23 23.5 24 24.5 25	20 20.5 21 21.5 22 22.5 23 23.5 24	48 - 49 48 - 49 48 - 49 50 50 50 50 50	2.0 - 2.2	•	100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	680/24.0 680/24.0 680/24.0 720/25.4 720/25.4 760/26.8 760/26.8 760/26.8

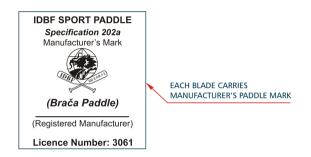
DRAGON, OUTRIGGER AND STAND UP (SUP) MODELS





Brača Dragon paddle complies with the IDBF Paddle Specification 202a and is licensed or approved for competition use under the IDBF Governing Bodies Standard Racing Paddle Approval Scheme.

Brača Dragon paddles are authorized for use in Championship events, and all formal Sport Racing competitions, that is, those races held under the Competition Regulations and Racing Rules of the IDBF and its Members, and for any kind of informal competition, training or general dragon boating.



Brača Canoe Outrigger is a lightweight and durable carbon paddle, modeled after a classic Hawaiian design.



Brača Stand Up (SUP) paddle was specially designed for stand up surf paddling. The advanced kinetic characteristics with natural shock absorption are the signature of our mechanical energy paddle $^{\text{TM}}$.

TECHNICAL PARAMETERS OF DRAGON, OUTRIGGER AND STAND UP (SUP) MODELS

a. C. L.

	Surface Area (sq.cm/sq.in)	Length (cm)	Width (cm)	S h a f Stiffness (mm)	Full 7 Adjustable	Wooden Handle	Blade content (%	Weight (g/oz)	
Brača Dragon	specified	by ID	BF	2.7 - 2.9	0 0	•	100 100	400/14.1	
Brača Canoe Outrigger max Brača Canoe Outrigger min	730/113.2 650/100.8	49 48	22.3 21.3	2.7 - 2.9 2.7 - 2.9		•	100 100 100 100	500/17.6 460/16.2	
Brača Stand Up (SUP) max Brača Stand Up (SUP) min Brača Stand Up (SUP) s-min	730/113.2 650/100.8 590/91.4	49 48 47.2	22.3 21.3 20.8	2.7 - 2.9 2.7 - 2.9 2.7 - 2.9	0 0	•	100 100 100 100 100 100		

TRADITIONAL MODELS



Brača Typhoon has been designed to provide well-balanced characteristics of lightness, ease of use and extreme durability.

The **Typhoon** has a very clean center spine, incorporated into the blade for optimal tracking stability.

Its exceptional strength fully withstands intense conditions and performs flawlessly in the open ocean, rivers and lakes.

The **Typhoon 20** and **Typhoon 60** are reinforced with carbon fiber. The **Typhoon 100** is reinforced with kevlar.



BračaTornado is our no-spine paddle model.

It is designed to provide very clean and efficient paddle strokes, delivers increased power for acceleration and is optimized for work in the surf zone.

Its exceptional strength fully withstands intense environments and performs flawlessly in the extreme conditions of the open ocean.

The **Tornado 20** and **Tornado 60** are reinforced with carbon fiber. The **Tornado 100** is reinforced with kevlar.

TRADITIONAL MODELS

BRAČA HURRICANE

Brača Hurricane 20 min
Brača Hurricane 60 max
Brača Hurricane 60 min
Brača Hurricane I 00 max
Brača Hurricane I 00 min
Brača Hurricane I 00 min

Brača Hurricane is the latest paddle in the Brača touring line.

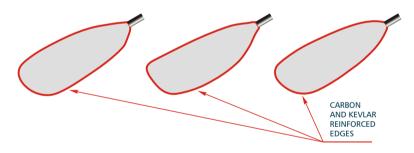
Its design is based on the **Typhoon**, with the following modifications: slightly reduced blade surface area and offset spine height to provide more efficient catch, tracking and exit.

Its exceptional strength fully withstands intense conditions and performs flawlessly in the open ocean, rivers and lakes.

This is a perfect paddle for touring and long races for the paddler who prefers a traditional shape over a wing blade.

All **Hurricane** paddles are reinforced with carbon

All traditional sea kayak models have carbon fiber and kevlar reinforced tips.



TECHNICAL PARAMETERS OF TRADITIONAL MODELS

	Surface Area (sq.cm/sq.in)	Length (cm) p	Width (cm) Kevlar Tips	S h a Stiffness (mm)	Full II	2 pc split	Carbon content (%) Shaft	Weight (g/oz)
Brača Typhoon 20 Brača Typhoon 60 Brača Typhoon 100	690/106.9 690/106.9 690/106.9	47.2 47.2 47.2	18.7 • 18.7 • 18.7 •	4.3 - 4.6 3.2 - 3.4 2.7 - 2.9	0 0 0 0 0 0	0 0	50 20 75 60 100 100	850/30.0 790/27.9 700/24.7
Brača Tornado 20 Brača Tornado 60 Brača Tornado 100	675/104.6 675/104.6 675/104.6	46.0 46.0 46.0	17.9 • 17.9 • 17.9 •	4.7 - 4.9 3.3 - 3.5 2.8 - 2.9	0 0 0 0	0	50 20 75 60 100 100	850/30.0 790/27.9 700/24.7
Brača Hurricane 20 max Brača Hurricane 20 min Brača Hurricane 60 max Brača Hurricane 60 min Brača Hurricane 100 max Brača Hurricane 100 min	720/111.6 660/102.3 720/111.6 660/102.3 720/111.6 660/102.3	48.0 46.0 48.0 46.0 48.0 46.0	18.7 • 17.5 • 18.7 • 17.5 • 18.7 • 17.5 •	4.7 - 4.9 4.7 - 4.9 3.3 - 3.5 3.3 - 3.5 2.8 - 2.9 2.8 - 2.9	0 0 0 0 0 0 0 0	0 0 0 0	50 20 50 20 75 60 75 60 100 100 100 100	850/30.0 840/29.6 790/27.9 780/27.5 700/24.7 690/24.4



Manuel Antonio Campos (Spain)

ICF WORLD MARATHON CHAMPIONSHIPS

ROME 2012



Óscar Graña, Ramón Ferro (Spain)



Renáta Csay (Hungary)



José Ramalho (Portugal)



Manuel Antonio Campos, José Manuel Sánchez (Spain)



Márton Kövér, Attila Györe (Hungary)



Péter Nagy (Hungary)



Walter Bouzán, Álvaro Fernández (Spain)



Iván Alonso, Emilio Merchán (Spain)



Iván Alonso (Spain)



Stefania Cicali (Italy)



Berenike Faldum (Bulgaria)



Renáta Csay, Ramóna Farkasdi (Hungary)

ICF WORLD MARATHON CHAMPIONSHIPS

ROME 2012



Réka Hagymási, Vanda Kiszli (Hungary)



Stefania Cicali, Anna Alberti (Italy)
PHOTOS COURTESY OF BALINT VEKASSY

SLALOM AND FREESTYLE MODELS



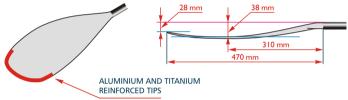


SLALOM AND FREESTYLE MODELS



Brača Slalom Sjoa is the new line of Brača kayak slalom and freestyle paddles designed and engineered to enable a very fast and effective management of the strokes and maneuverability. This design facilitates the ultimate control of the stroke in every phase.

The blade has a flat surface in two horizontal and vertical lines; CNC machined, tough, durable core; sandwiched titanium stiffener and 12 mm wide solid edge reinforced with High Modulus Unidirectional Carbon. Our revolutionary molding technology process guarantees the shape and dimensions of all paddles to be identical and precise.



BRAČA SLALOM ERGO SHAFT



TECHNICAL PARAMETERS OF SLALOM AND FREESTYLE MODELS

	Blade Surface (CW) Area (sq.cm/sq.in)	Width (cm) Aluminium tips	S h a f t Stiffness (mm)	Full Ergo shaft Adjustable	Blade (%) Shaff Carbon	Weight (g/oz)
Brača Slalom Kinetic	695/107.7 45.5	19.9 • {	Hard 2.7 - 2.9 Medium 3.5 - 3.7 Soft 4.2 - 4.5	0 0 0	100 100	720/25.4
Brača Slalom Soča max Brača Slalom Soča min	735/113.9 48.5 695/107.7 47.9	21 • { 20 • {	Hard 2.7 - 2.9 Medium 3.5 - 3.7 Soft 4.2 - 4.5	0 0 0	100 100 100 100	730/25.8 700/24.7
Brača Slalom Sjoa max Brača Slalom Sjoa min	724/112.2 47.0 695/107.7 46.5	20.5 • {	Hard 2.7 - 2.9 Medium 3.5 - 3.7 Soft 4.2 - 4.5	0 0 0	100 100 100 100	720/25.4 690/24.3



Rosalyn Lawrence (Australia)



Rosalyn Lawrence (Australia)



Mariano Bifano (Italy)



Roberto Colazingari (Italy)



Michal Šrámek, Lukáš Tomek (Czech Republic)



Omar Raiba (Italy)



Ben Carberry (Australia)



Mikhail Kuznetsov, Dmitry Larionov (Russia)



Stefano Cipressi (Italy)



Maxim Richard (Belgium)



Thomas Rosset (France)



Ondřej Rolenc, Jan Šťastný (Czech Republic)



Hugo Biso, Pierre Pico (France)



Ondřej Rolenc (Czech Republic)



Michal Smolen (USA)



Tim Sucobs (Adstralia)

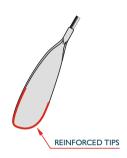
PHOTOS COURTESY OF BALINT VEKASSY

DOWN RIVER MODELS



Brača Down River is the new line of Brača paddles designed, constructed and optimized specifically for downriver competition. It was engineered to facilitate a very sharp catch, enabling quick and maximum velocity control of the boat.

Brača Down River is available with stiff and soft shaft construction options. The edge of the blade is reinforced with an aluminum and titanium layer that makes it highly impact resistant in extreme downriver conditions.





Brača IV is available with Marathon and Down River blade construction. This is a result of advanced technology, a proprietary blend of composite materials, and was designed with the marathon and adventure paddler in mind.

The edge of **Brača IV Marathon** blade is reinforced with a kevlar layer that makes it highly impact resistant in extreme downriver conditions.

Brača IV Down River is available with stiff and soft shaft construction options. The edge of the blade is reinforced with an aluminium and titanium layer that makes it highly impact resistant in extreme downriver conditions.

TECHNICAL PARAMETERS OF DOWN RIVER MODELS

	Blade Surface (cm) Width (cm) Width (cm) Width (cm) Seven Tips Aluminium Tips	Shaft Stiffness Hull Stiffness Code Code	Carbon content (%) (g/oz)
Brača Down River	705/109.3 49.0 15.2 •	Hard 2.7 - 2.9	100 100 560/19.8 100 60 600/21.2
NEW Brača IV max Down River NEW Brača IV min Down River NEW Brača IV s-min Down River NEW Brača IV xs-min Down River	765/118.6 50.0 16.8 735/113.9 49.5 15.8 705/109.3 49.0 15.3 635/98.4 45.3 15.1	Hard 2.7 - 2.9 • • 11 Soft 3.2 - 3.4 • • 10	100 100 650/22.9 640/22.6 100 60 620/21.9 600/21.2
Brača IV max Marathon Brača IV min Marathon NEW Brača IV s-min Marathon NEW Brača IV xs-min Marathon	765/118.6 50.0 16.8 • 735/113.9 49.5 15.8 • 705/109.3 49.0 15.3 • 635/98.4 45.3 15.1 •	2.7 - 2.8	100 100 650/22.9 100 100 640/22.6 100 100 620/21.9 100 60 600/21.2

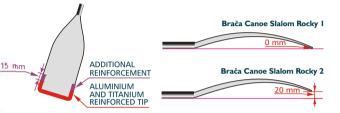
CANOE SLALOM ROCKY AND DOWN RIVER ON ROLL MODELS

BRAČA CANOE SLALOM ROCKY

Brača Canoe Slalom Rocky I max
Brača Canoe Slalom Rocky I min
Brača Canoe Slalom Rocky 2 max
Brača Canoe Slalom Rocky 2 min

Brača Canoe Slalom Rocky was engineered using advanced kinetic, biomechanical and material science concepts to produce the strongest and lightest paddle possible, matching the performance and durability requirements of a vast variety of athletes.

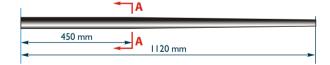
The blade has an aluminum-titanium alloy reinforced tip and a 12 mm wide solid edge stiffened with High Modulus Unidirectional Carbon for added impact resistance. Our revolutionary molding technology process guarantees the shape and dimensions of all paddles to be identical and precise.





Brača Down River Canoe ON Roll is the new line of Brača downriver paddles designed and engineered to enable a very fast and effective management of the strokes and maneuverability.

It was constructed to be extremely light and durable. The blade has a CNC machined, tough, durable core; sandwiched aluminium-titanium alloy stiffener and a 12 mm wide solid edge reinforced with High Modulus Unidirectional Carbon. Our revolutionary molding technology process guarantees the shape and dimensions of all paddles to be identical and precise.



Brača Canoe Slalom Rocky and **Brača Down River Canoe ON Roll** shafts have a special geometry to make them very light and stiff.

TECHNICAL PARAMETERS OF CANOE SLALOM ROCKY AND DOWN RIVER ON ROLL MODELS

	Surface Area (sq.cm/sq.in)	Lengin (cm) a Width (cm)	Aluminium Tips	S h a f t Stiffness (mm) Diame	<u>4</u>	Handle Diameter (mm)	Blade (%) Shaft	Weight (g/oz)
Brača Canoe Slalom Rocky 1 max	835/129.4 5	50 20.6	5 •	. Hard Plus 2.4 - 2.6 30 Hard 2.4 - 2.6 29		32;35;37 32;35;37	100 100	560/19.8
Brača Canoe Slalom Rocky 1 min	805/124.8 4	9 20.2	<u> •</u>	Medium Thick Plus 2.6 - 2.8 32 Medium Thick 2.6 - 2.8 31	0 •	37 37	100 100	550/19.4
Brača Canoe Slalom Rocky 2 max	835/129.4 5	0 20.6	5 •	Medium Plus 2.6 - 2.8 30 Medium 2.6 - 2.8 29	0 •	32;35;37 32;35;37	100 100	560/19.8
Brača Canoe Slalom Rocky 2 min	805/124.8 4	19 20.2	<u> </u>	Soft 2.9 - 3.1 29	0	32;35;37	100 100	550/19.4
Brača Down River ON Roll min NEW Brača Down River ON Roll max		19 20.5 50 20.5		Medium 2.6 - 2.8 29 Soft 2.9 - 3.1 29		32;35;37 32;35;37	100 100 100 100	520/18.3 530/18.7

CANOE POLO MODELS



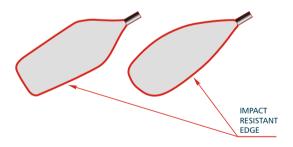
Brača Polo Spoon is recommended for defensive play and for goaltenders. It has superb ball handling

Because of the nature of their use, these paddles are made from highly impact resistant materials. The blade has an impact resistant edge all around and is filled with reinforced Polystyrene foam.

BRAČA POLO KINETIC

Brača Polo Kinetic max Brača Polo Kinetic min Brača Polo Kinetic 60 max Brača Polo Kinetic 60 min Brača Polo Spoon Brača Polo Kinetic has unique non-slip bands on the blades to enable extra control when handling the ball. It is ideally suited for offensive play with excellent sprint characteristics and ball control.

Because of the nature of their use, these paddles are made from highly impact resistant materials. The blade has an impact resistant edge all around and is filled with reinforced Polystyrene foam.



TECHNICAL PARAMETERS OF CANOE POLO MODELS

	B I Surface Area (sq.cm/sq.in)	Length (cm) ^e		Kevlar Tips	S h a f t Stiffness (mm)	Full Adjustable 2 pc split	Blade (%) Shaff	Weight (g/oz)
Brača Polo Spoon	690/106.9	43.5	19.8	•	Hard 2.2 - 2.3	0	100 80	840/29.8
Brača Polo Kinetic max Brača Polo Kinetic min	735/113.9 660/102.3	46 45.5	20.7 19.6	:{	Hard 2.2 - 2.3 Medium 2.4 - 2.6 Soft 4.2 - 4.5	0 0	100 80 100 80	840/29.8 810/28.6
Brača Polo Kinetic 60 max Brača Polo Kinetic 60 min	735/113.9 660/102.3	46 45.5	20.7 19.6	: {	Soft 4.2 - 4.5	0	70 80 70 80	910/32.1 890/31.4



Markus Swoboda (Austria)



Antonio Diego De Álvarez (Spain)



Fernando Fernandes De Pádua (Brasil)



Antonio Diego De Álvarez (Spain), Fernando Fernandes De Pádua (Brasil), Alexey Malyshev (Russia)



PHOTOS COURTESY OF BALINT VEKASSY

ADJUSTABLE SHAFT SYSTEM II

System II for kayak paddles



ADJUSTABLE SHAFT SYSTEM III

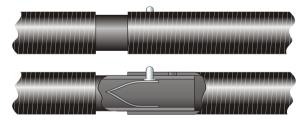
System III for children canoe paddles



All kayak, canoe and Stand UP (SUP) paddles are available with the adjustable shaft option **System II. System III** option is used for Children Canoe, Dragon and Outrigger paddles.

The adjustable system allows elegant adjustment of overall paddle length (within 5 cm range) and blade angle from 0° to 80° right or left in 5° increments. The system also allows you to disassemble the paddle into two parts for easy transportation.

SPLIT SHAFT SYSTEM



Sea kayak and touring paddles are available with a two piece split shaft option.

The system adds approximately 20 g / 0.7 oz to the paddle weight.

System II for canoe and Stand UP paddles

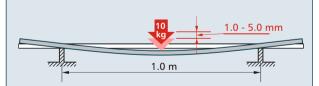


System III for Dragon and Outrigger paddles



Both adjustable shaft systems approximately add $40\,g/I.4I$ oz to the paddle weight.

SHAFT STIFFNESS MEASUREMENT PROCESS



The shaft stiffness is our recommendation according to the blade size, but any combination is possible. If you are higher and/or stronger than the average, you might need a stiffer shaft. We recommend stiffer shafts for short distance racing and softer shafts for long distances.

IMPORTANT NOTICE:

- If used in salt water conditions, the paddle should be thoroughly rinsed in fresh water immediately after use. If used in fresh water conditions, the paddle should be thoroughly rinsed and cleaned every two weeks.
- Store your adjustable paddle disassembled if not used for more than two weeks!

ACCESSORIES



v			
BRACA	COVERS	WILDWATE	R



	Material	Length (cm)
Universal Kayak Cover	Nylon	200 - 227
Universal Canoe Cover	Nylon	155 - 190
Universal Dragon Cover	Nylon	120 - 135

To protect paddles from damage, we offer covers made of special, highly durable fabrics, constructed with tear-resistant micro ripstop nylon and closed-cell foam padding.

The covers are stitched with heavy duty thread, reinforced ends and heavy duty zippers.

The Brača-Sport Universal paddle cover adapts to fit different blade sizes, shaft types (full, split and adjustable) and adjusts to accommodate different shaft lengths.

	Material	Length (cm)
Universal Kayak Cover	Nylon	180 - 210
Universal Canoe Cover	Nylon	130 - 155

ACCESSORIES

BRAČA HIGH-TECH SHIRT



The **Brača-Sport High-Tech Shirt** is the ultimate technical shirt for kayaking, canoeing and other activities. It features comfortable protection combined with lightweight, moisture-wicking, highly breathable fabric for the ultimate racing, training and recreational experience.

The fabric wicks moisture away from the body and allows you to dry quickly when you sweat or when you get wet.

Brača High-Tech T-shirt	Material	XXS	XS	S	Siz M	z e s L	XL	XXL	XXXL
Men's Women's Boy's Girl's	DryClim DryClim DryClim DryClim	+ +	+ + +	+ + + +	+	++	+	+	+

BRAČA PERFORMANCE THERMAL SHIRT



The **Brača-Sport Performance Thermal Shirt** is engineered for high performance workouts and competition. It offers a unique balance between zoned thermal compression and ventilation, while providing superior moisture management capabilities.

- Highly breathable and provides enhanced airflow.
- Transports moisture away from the body and keeps the skin dry.
- Reduces skin temperature during intense workout and competition.

Sizes: XS, S, M, L, XL (Unisex).

BRAČA POGIES



Brača-Sport Pogies provide water and wind protection for your hands while still allowing direct hand contact with your paddle.

ACCESSORIES



This high-performance technical pack designed for carrying all your daily essentials belongings with ease.

- Panel-loading main compartment offers plenty of room for gear and clothing
- Dual side mesh water bottle pockets to keep bottles from bouncing around
- Adjustable padded shoulder straps and padded backpanel offer load-carrying comfort

BRAČA SPRYSKIRT



Brača-Sport Spryskirt designed to fit all ICF and most fitness touring kayaks and have been tested by Brača's R&D team in all weather conditions.

- \blacksquare Features a wide comfortable neoprene and $\text{Velcro}^{\ensuremath{\widehat{R}}}$ adjustable waistband.
- Durable mid-weight nylon is coated for total water resistance.
- Strong bungee rim gripping system secures skirt firmly to the cockpit.
- Double-stitched construction with sealed seams ensures long-lasting wear and water resistance.

BRAČA CAP



Brača-Sport Cap is great fitting and perfect for everyday and after sport use.

- 100% cotton construction is durable and comfortable for long-lasting wear.
- Velcro[®] closure quickly adjusts to the right size for your head.
- Anti-glare lower brim eliminates light reflection and distraction.
- Low-profile, relaxed fit is perfect for both men and

BRAČA CANOE KNEE PAD



Brača Canoe Knee Pad made from lightweight and durable closed mini-cell foam that can be shaped for a custom fit and superior comfort.

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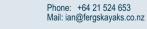
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