





INTRODUCTION AND TECHNICAL DESCRIPTION



OUR COMPANY

Pentasi has been producing wakeboard cableways since 1993. In Hungary, our company has produced 9 cableways out of the current 12 achieving the leading position among wakeboard cableway manufacturers in the Hungarian market. Also, Pentasi Ltd. produced and installed the first full size cableway in the Czech Republic in 2012 and is looking forward to steadily growing demand from this region. Our short term goal is to become the number one cableway producing company in our region and to promote the sale of our quality products worldwide.

More than two decades of experience in both the production and operation of wakeboard cableways has helped us to perfect our system to be fully reliable, while continuously adapting to the ever-rising technical demands of the riders and the owners at the same time.



In 2012 Pentasi joined the Estonian WakeStation in the common goal of providing quality products with state of the art features for an affordable price. While Pentasi produces quality full size cableways and belonging piers, floating pathways and starting ramps, WakeStation provides the most innovative two tower systems available in the market and uniquely designed, durable full HDPE obstacles. We, together cover the full spectrum of cable wakeboarding from A to Z.



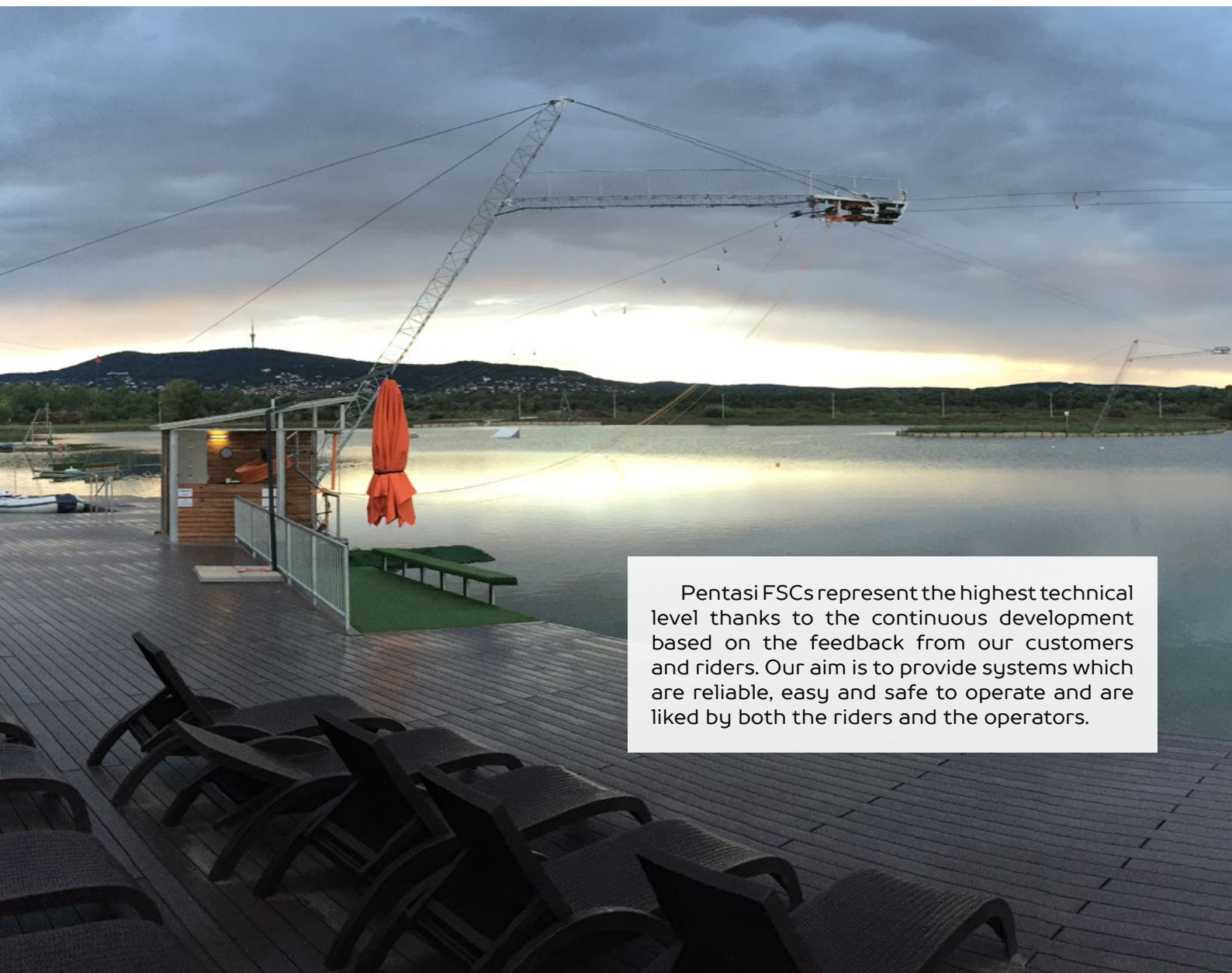


FULL SIZE CABLEWAY

What is full size cableway?

Full size cableways (FSCs) are cheap and environmentally friendly alternatives to the traditional boat wakeboarding. By able to tow up to 10-12 riders at the same time, FSCs turned wakeboarding from an individual and exclusive

sport to a real social experience. FSCs are liked places of family pastimes, friend gatherings and company events. Because they attract many people, full size cableways represent good investment especially when they come with restaurants, bars, shops or amusement features like floating funparks. Depending on the local circumstances the return on investment of a wakeboard park is 2-3 years with relatively low annual expenses.



Pentasi FSCs represent the highest technical level thanks to the continuous development based on the feedback from our customers and riders. Our aim is to provide systems which are reliable, easy and safe to operate and are liked by both the riders and the operators.

FULL SIZE CABLEWAY

Control

The speed of the cableway can be set quickly by selecting one of the memorized values on the touchscreen. The stored speed values can be easily modified by typing numbers between 0-50 km/h to each of the 4 changeable presets. The speed can be adjusted manually as well through the joystick. The speed of the elevator is controlled by the potentiometer. Optimal speed of elevator depends on many circumstances like the strenght and direction of wind, crowdedness of cableway etc. Therefore, once the operator finds the optimal speed he can easily memorize it by pushing and holding down the potentiometer for 3 seconds. After, he can just push the potentiometer shortly anytime he wants to return to the preset speed. The pneumatic cylinders which work the fork and the magazine are operated through the use of highly durable, industrial use joysticks.





FULL SIZE CABLEWAY

Drive

Pentasi cableways are all about functionality and design. When we choose the optimal type of electric motor our main focus is on effectiveness and economy. It means that our cableways are able to pull everyone out of the water when restarting after an unexpected stop, while we take care about consumption as well. Therefore, we use 30-45 kW electric motors depending on the length of track. The motor is guided by sophisticated frequency converter which assures the smooth running and optimal performance of the cableway in any circumstance. For the effective transmission of power we use custom made and durable cardan shafts and differentials.



Pulleys

Pulleys are casted of special aluminium alloy to be light and yet lasting at the same time. Running cable contacts the special HDPE lining inside the pulley which protects the wire cable and ensures smooth running. We use the highest quality SKF bearings so that our pulleys could keep spinning for a long time.





FULL SIZE CABLEWAY

Brake

Safety is the most important for us. Therefore, we use strong pneumatic negative brake to stop the system immediately if it is necessary.

Fork

Fork is equipped with photocell sensor and closes automatically once the ball cable goes through it.

Columns

Columns are made of steel and are hot-dip galvanized to look nice for a long time.





FULL SIZE CABLEWAY

Installation

Despite of the careful planning unexpected obstacles can occur in life all the time. Therefore, all the Pentasi cableways are installed by our own highly experienced installation team. Our colleagues have been challenged by heavy mud, deep water and extreme weather conditions throughout the years. Trustfulness and flexibility are our colleagues' traits.



PIERS

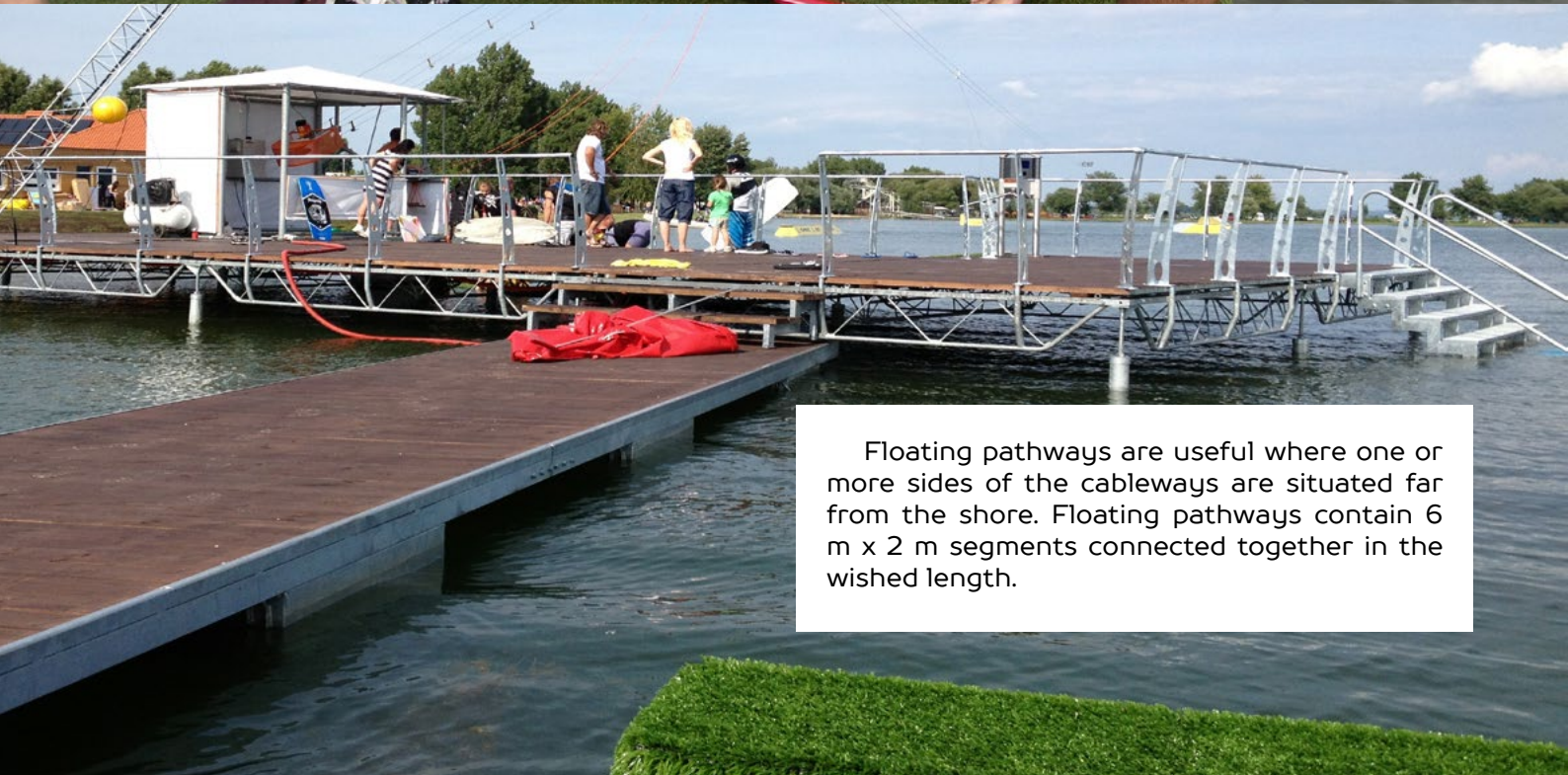
Pentasi full size cableways come with spacious 100 m² piers. The piers consist of 4x4 m pre-manufactured segments which are built to fit nicely to the design of the cableway. Like the columns of the cableway the frame of the pier is made of hot-dip galvanized steel tubes. The pier is covered with painted and anti-slip pine wood laths.



PIER

Floating piers, pathways and starting ramps

For deep water we produce floating piers as well. Our floating piers have galvanized metal frame and buoyancy is ensured by polystyrene.



Floating pathways are useful where one or more sides of the cableways are situated far from the shore. Floating pathways contain 6 m x 2 m segments connected together in the wished length.



REFERENCES

Central Wakeboard és Szabadidőpark, Pécs, HUNGARY

web: <http://www.centralwake.hu/hu/szolgalatas/wakeboard>

facebook: <https://www.facebook.com/centralwake?fref=ts>

Wake Merkur, Pasohlavky, CZECH REPUBLIC

web: <http://wakemerkur.cz/>

facebook: <https://www.facebook.com/wakemerkur?fref=ts>

Vice Beach, Hejőkeresztúr, HUNGARY

web: <http://hejo-to.hu/rolunk>

facebook: <https://www.facebook.com/pages/Hej%C5%91-T%C3%B3-Vice-Beach/362609767104489?fref=ts>

RideCable, Kecskemét, HUNGARY

web: <http://www.ridecable.hu/>

facebook: <https://www.facebook.com/ridecable?fref=ts>

Levelek Vízisí Centrum, Levelek, HUNGARY

web: http://vizisicentrum.hu/?page_id=9

facebook: <https://www.facebook.com/pages/V%C3%ADzis%C3%AD-%C3%A9s-Wakeboard-K%C3%A1belp%C3%A1lya/108976112526377?fref=ts>

Wakeboard, Vonyarcvashegy, HUNGARY

web: <http://vonyarcvashegy.hu/strand/vizisi>

facebook: <https://www.facebook.com/vizisiwakeboard.vonyarcvashegy?fref=ts>

Omszk Wakeboard Centrum, Budapest, HUNGARY

web: <http://www.omszkwakecentrum.hu/>

facebook: <https://www.facebook.com/omszkwakecentrum?fref=ts>

Hajógyári-sziget wakeboard cableway, Budapest, HUNGARY

Beach Party Cafe, Siófok, HUNGARY (pier only)

Wakeboard cableway, Győr-Ikrény, HUNGARY

Bamboo Island, Siófok, HUNGARY





WWW.PENTASI.EU