NEW! For flat bottomed steering wheels: the digital accelerator ring DARIOS 211 has a flat bottom and its sleeve still slides freely to facilitate the acceleration when coming out of a sharp turn.

With Darios - the digital accelerator ring and main hand brake driving without the use of both legs is quite intuitive: Just press the ring to accelerate. Brake with the left or right hand brake integrated in the dashboard.

Only very little effort is needed to accelerate.
The leather covered ring turns freely enabling precise acceleration even while exiting a turn.

DARIOS* adapts its sensitivity to the speed of your vehicle:

• At low speed the acceleration is smooth and progressive making precise driving maneuvers like parking and driving on ice and snow easy to perform.

• At high speed the acceleration is quick and dynamic making reactive and safe driving easy, like highway driving, passing at high speed or collision avoidance maneuvers.

With DARIOS the full engine power of the vehicle always remains available.

*DARIOS = Digital Accelerator Ring Optimized for Speed.
Our history

In 1954 Jean-Pierre KEMPF, who had lost the use of both legs after contracting polio, invented the accelerator ring to be able to drive his car keeping both hands on the steering wheel. He started his company and by the end of his life in 2002 he had adapted over 100,000 vehicles.

In 1999 the digital accelerator ring replaced the mechanical one. In 2006 it was upgraded with the "Dual Select" version enabling the driver to select between "Comfort" and "Sport" mode.

Since 2010 the digital accelerator ring DARIOS adapts itself to the speed of the vehicle, giving the driver unsurpassed precision in throttle control.

Since 2012 the DARIOS-DUO offers the driver in position II an even more dynamic acceleration for more sportive sensations.
DARIOS respects and maintains all safety features of the original vehicle.

DARIOS uses two sensors inside the steering wheel to comply with all car manufacturers' safety requirements.

All original electronic throttle pedals have two sensors to be immune to electromagnetic noise. These two sensors are required to avoid unintended accelerations.

Be aware that any electronic accelerator using just one sensor can't guarantee the absence of involuntary accelerations.

DARIOS was tested in the laboratories of Daimler AG in Germany for its electromagnetic compatibility. It is compliant with the European requirements E1 2009/19 CE.

These tests confirm that with DARIOS you will never experience any unintended acceleration. It is guaranteed. DARIOS is immune to electromagnetic noise.

The airbag deploys normally.

Tests performed in laboratories prove that the ring doesn't affect the airbag's deployment.

The original pedals remain functional so the vehicle can easily be driven by someone not using the hand controls.
Darios-Duo has 2 driving positions:

I = comfort mode for soft and progressive speed indexed accelerations

II = sport mode for more dynamic speed indexed accelerations

The digital accelerator ring DARIOS may be deactivated with a switch on the dashboard.
The main hand brake

The main left or right hand brake consists of a lever coming out of the dashboard that pivots around one horizontal and invisible axis. The brake lever’s handle moves downward. No need to bend forward to brake, so you keep your eyes level at all time. The force required to brake by hand is approximately one half of the one required by foot.

The mechanical connection with the brake pedal is hidden behind the bottom cover of the dashboard. Therefore, the knee space remains free of any metal parts. The knee airbag remains functional as well.

The main hand brake for each new car model requires research and development to maintain the original safety level designed by the car manufacturers.

In case of a failure in the original braking system the full braking range is obtainable with the main hand brake lever.

Handcrafted brake knobs
For electric vehicles:

- Tesla Model X
- Toyota Camry
- Lexus NX 200h
DARIOS and the main hand brake can be installed on most vehicles with automatic transmissions including electric and hybrid vehicles.
You may choose . . .
You may choose the color of the leather for your accelerator ring DARIOS and for the main hand brake knob. Matching the leather to the car’s interior makes the system appear to be a part of the original equipment of the vehicle.

Many colors are available and new ones are added very often.

Don’t hesitate to choose your favorite color.
Constant innovation . . .

Each new vehicle model needs to be studied to integrate the accelerator ring Darios and the main hand brake.

Each steering wheel model is measured in 3D before designing, producing and then installing the mechanism, the two sensors and the electronic circuit.

Each dashboard is also measured in 3D to design the main hand brake.

How does DARIOS work:

DARIOS uses a wired connection between the steering wheel and the dashboard to transmit the position of the accelerator ring to the vehicle engine controller.

DARIOS constantly senses the speed of your vehicle and adapts its response to be progressive at low speed and dynamic at high speed. DARIOS requires the matching of two independent signals before deactivating the original throttle pedal and controlling the acceleration of your vehicle with signals identical to the original pedal.

The position of the ring is sent twice every millisecond to the DARIOS electronic unit under the dashboard which controls the acceleration.
Constant innovation...
PICADO - The steering knob with secondary functions enables a driver using only one hand on the wheel to control up to 16 functions without taking his hand off the knob.

PICADO gives you access to 16 functions with one hand.

The 2nd function of a button is activated by pushing and holding it for more than 0.5 seconds:

1 - Wiper - /Washer rear
2 - Wiper + /Washer front
3 - Turn signal left/Power window left (optional)
4 - Turn signal right/Hazard
5 - Lights - Low beam/high beam
6 - Flash (high beam)
7 - Horn

Helpful in round-abouts:

8 - Turn signal left momentary (approx. 5 cycles)
9 - Turn signal right momentary (approx. 5 cycles)

The turnsignal buttons are white and slightly illuminated while the other buttons are black. Similar to the keys of a piano, their functions are very easily memorized, so there is no need to add stickers with the function symbols.
One hand on the wheel . . .
PICADO is the first steering knob which doesn't turn freely around its axis. A weak but stabilizing force maintains the knob in one orientation. The driver's hand can rest on the stabilized knob while driving.

At the onset of a turn or during parking manoeuvres the stabilizing force is hardly noticeable.

PICADO is firmly attached to the steering wheel rim and its knob is removable.
The system is compatible with the airbag and can be installed in most vehicles. The original secondary functions remain functional.

PICADO uses an existing wired connection to send its signals from the steering wheel to the dashboard and therefore doesn’t require any battery; its reliability is guaranteed.
A driver without the use of the right leg can use a switchable electronic left foot accelerator pedal. It’s an optimal and elegant solution.

A second accelerator pedal identical to the original one is installed left from the brake pedal.

A lighted push button placed on the dashboard enables the selection between both accelerator pedals only shortly after the start of the engine.

When no selection is made, the original accelerator pedal on the right is always functional. This prevents any confusion when the car is driven by a driver using both feet.

Both accelerator pedals are never active at the same time.
Driving after a stroke

A person having lost the use of his or her right arm and right leg will be able to drive with a PICADO steering knob with secondary functions and an electronic left foot accelerator pedal.
Customers' comments:

The installation is not just professionally done, but it is done so well that the system appears a part of the original equipment of the vehicle.

John W. S., Ph.D., KY

I took delivery of my Porsche Saturday morning. All I can say, you guys did beautiful work. The controls are seamless. You can't even tell if the hand-controls are OEM or not. It looks factory done.

I've had people sit in my car and ask me, "How do you drive this?" There aren't any hand-control things here? The throttle ring seems as if it belongs on the steering whee.

I'm also surprised my wheelchair doesn't catch on the ring as I'm pulling in my wheelchair.

Since I come from a quality assurance background in engineering, I check for discrepancies in workmanship. And looking at your installation, it was very hard for me to find any which explains the cost. It's well worth it.

I've always driven with the 'old school' push and pull type controls for the past 24 years and I actually like this (DARIOs system) much better. It was easy to adapt to. The learning curve is very short.

Pres P., CA

I have a DARIOs ring in my Honda van for the past three years and I couldn't be happier. The ring installation was so well done, it looks like it is original equipment. Its design is perfect for intuitive, ease of use, and the customer support is world-class.

Thank you to all the Kempf team.

Bob P., NJ

First of all, the DARIOs hand controls are AMAZING!!! I'm well spoken but I can barely put it in words how awesome they are.

It's not even fair to call them 'hand controls'. It makes driving such an effortless experience. I took a 7 hour drive this weekend (each way) and it was a dream.

Eric R., VT

This is my Corvette.
Kempf did a great job!
Looks great and drives even better.
Thank You.
Bob C., VA

Dont hesitate to contact us, give us some feedback or visit our website to see more customers' comments: www.kempf-usa.com
All KEMPF products have a lifetime warranty. KEMPF offers nationwide at-home service, should the need for service arise.

Free transport

KEMPF features nationwide free at-home pick-up and delivery of your vehicle. The installations are performed at KEMPF facilities. This offer is valid until 12/31/2022 for a Darios and handbrake or Picado installation.

VA accepted

All KEMPF products are accepted by the VA (Department of Veterans Affairs). Several VA Medical Centers have teaching vehicles equipped with the KEMPF digital accelerator ring. If you are a veteran, please contact your prosthetics representative to request the KEMPF digital hand controls. As a veteran you may benefit from an autogrant and so your Darios and main hand brake will be paid for by the Department of Veterans Affairs. Don’t hesitate to contact us so we may provide you with a list of facilities at which you may be trained.

The training usually takes a few hours, because driving with the ring allows you to keep both hands on the wheel and the accelerator and brake functions are kept separate. It is quite intuitive for anyone to learn. In addition driving with both hands may reduce and or delay the occurrence of shoulder instability.

The products and adaptations from KEMPF are designed and manufactured with high standards of quality and reliability. They comply and often exceed States’ safety requirements.