



VVG Befestigungstechnik

Ein Unternehmen der HONSEL-Gruppe

# Battery riveters

**RivdomONE** 16V

Now with **plus** charging technology

up to 5.0 mm

**RivdomTWO** 20V

Perfect also for high-strength blind rivets.

up to 6.4 mm



up to 7.8 mm

**RivdomTWO 2.8** 20V

Maximum Power.

**DMSD 2G**  
Process monitoring

NEW!

up to 5.0 mm

**RivdomZERO**

up to 5.0 mm

**RivSmart**  
Small, light, smart.



Winner of the "ROUTE TO FASTENER INNOVATION" prize at the Fastener Fair 2017 in Stuttgart.

**NEXT GENERATION BATTERY RIVETERS**



## Mobile. Versatile. Trendsetting.

**NEXT LEVEL RIVETING**

Rivdom® and RivSmart®-battery riveters.

Two names, one family for **innovative, modern solutions in mobile blind riveting.**

All the tools are characterised by outstanding performance data, ergonomic design with consistent weight reduction, large scope of supply and interesting additional options with the best price/performance ratio.

Benefit from our **decades of experience** in the development and production of hand-held riveters, pneumatic tools and automation solutions – **designed by HONSEL.**

[www.Vvg.info](http://www.Vvg.info)



# RivdomZERO<sup>12V</sup>

**COMPACT. LIGHTWEIGHT. SIMPLE. POWERFUL.**

*“Really light and handy. I don’t need any tools for maintenance – and a brushless motor. THAT is my new battery riveter.”*



**The latest motor technology**  
Brushless and wear-free.

The newly developed brushless DC (BLDC) motor guarantees a very long and practically wear-free life-cycle. Low current consumption and reduced heat development increase the battery life and efficiency.

**hi BÜRSTENLOS BRUSHLESS**



Clamping jaws and nosepieces can be replaced quickly and easily on the spot.

**TOOL-FREE MAINTENANCE**

## The new mini

RivdomZERO<sup>12V</sup> has the ultra-compact housing already known from the RivSmart®, a brushless motor and the RivdomPLUS charging technology.

Wear parts can be changed without the use of tools and the **weight of only 1.3 kg** guarantees maximum working comfort!

**Get to know it now!**



	2.4	3.0	3.2	4.0	4.8	5.0	6.0	6.4	8.0	
Aluminium	[Bar]									
Steel	[Bar]									
Stainless steel	[Bar]									
Copper alloys	[Bar]									



max. 3.4 mm



< 30 min.



8,500 N



1.3 kg (incl. battery)



20 mm



RivdomZERO battery riveter incl. 12 V/2.0 Ah battery (number depending on variant) with optical charge state indicator, 4x standard nosepiece in box, Rivdom-PLUS quick charger, mandrel container, belt clip, hanger and cover cap in L-Boxx with coloured sales sleeve.



**WARRANTY EXTENSION to 24 months.**

At free online registration.

## PRACTICAL DETAILS



Belt clip (alternatively rivet application plate)



Hanger bracket for balancer



LED-illuminated riveting point

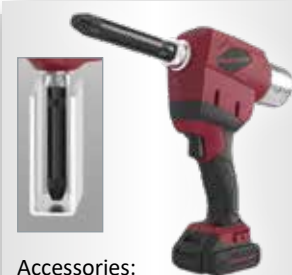


Robust, transparent mandrel container (various sizes available as options!)

## Individual return mode setting

When using **manual return mode**, the trigger has to remain pressed until the rivet is sheared. When the trigger is released, the tool moves back to the front starting position. In addition, RivdomZERO<sup>12V</sup> offers an **automatic return mode**.

Here the trigger merely has to be pressed slightly to start the automatic setting process. Immediately after the drop in the measured force with the shearing of the rivet mandrel, the tool moves back automatically to the starting position to keep **the riveting cycle as short as possible**.



Accessories:  
**Extended front sleeves**  
for recessed riveting points.

### Compact dimensions.

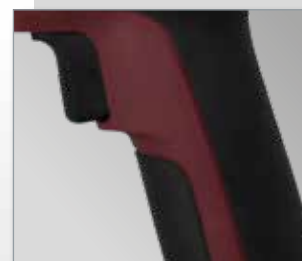
Thanks to the removable transparent mandrel container, the tool can be further shortened for **unrivalled ease of handling** for even the most confined installation points.



**Clear display** with volume monitoring for the mandrel container and stored service interval.



## ERGONOMICS



**Outstanding ergonomics**,  
rubberised universal handle  
for all hand sizes.



**Maximum comfort** thanks  
to rotation trigger with  
very low trigger force/  
short trigger travel.

### Sturdy and flexible

The innovative system packaging solution with added value.  
Our L-Boxx is also compatible with all L-Boxxes from other manufacturers.



**Safety**  
Integrated mandrel safety switch in accordance with the Machinery Directive.

## Rivdom plus

Charging technology



### Latest Li-Ion battery technology - perfected battery management

The powerful 12 V/2,0 Ah Li ion batteries are fully charged after **less than 30 minutes** – the **90 % charge is reached after only approx. 20 minutes**, so that the charging cycle is always shorter than the battery-consuming working time!

The state-of-charge can be monitored with the **display on every battery**.

**12V/4.0 Ah batteries are available as optional accessories!**

High-quality electronic fast charger with **automatic identification of the battery used**. 12 V, 16 V and 20 V batteries from the Rivdom family can be charged using the same charger.



**Retension nosepieces** available as options ensure that the rivet cannot fall out of the tool even in vertical working position and that the mandrel is discharged after the setting process.



# Rivdom ONE<sup>16V</sup>



**up to 5.0 mm**

*“Our standard riveter for years. Reliable in every situation, and the latest generation with the new charging technology is recharged even faster.”*

**L-BOXX®**

**Sturdy and flexible**  
The innovative system packaging solution with added value. Our L-Boxx is also compatible with all L-Boxxes from other manufacturers.

## Rivdom ONE<sup>16V</sup> will impress you

Blind rivets up to 5 mm diameter (all materials) are reliably set by the powerful motor and optimised clamping mechanism. As with all other tools from the current Rivdom® generation, the Rivdom® ONE<sup>16V</sup> has the high-quality Li ion batteries with RivdomPLUS charging technology and is supplied in the proven L-Boxx system.

The new housing is characterised by its outstanding ergonomics and reduced weight.

The new trigger has an extremely short travel/low trigger force and thus permits quick and comfortable working.

	2.4	3.0	3.2	4.0	4.8	5.0	6.0	6.4	8.0	
Aluminium	[Bar]									
Steel	[Bar]									
Stainless steel	[Bar]									
Copper alloys	[Bar]									

- max. 3.4 mm
- < 30 min.
- 10,000 N
- 1.8 kg (incl. battery)
- 21 mm
- Rivdom ONE 16V battery riveter incl. 16V/2.0 Ah battery (number depending on variant) with optical charge state indicator, 4x standard nosepiece in box, RivdomPLUS quick charger, mandrel container, belt clip, hanger and cover cap in L-Boxx with coloured sales sleeve.

## PRACTICAL DETAILS



Belt clip (alternatively rivet application plate)



Hanger bracket for balancer



LED-illuminated riveting point



Robust, transparent mandrel container (various sizes available as options!)



Plastic box for nosepieces



2.4 mm to



5.0 mm

**ALL IN ONE. THE VARIO NOSEPIECE.**

Do you often have to use different rivet sizes?

Use just **one** nosepiece and change **quickly and easily** between the diameters 2.4 mm, 3.0/3.2 mm, 4.0 mm and 4.8/5.0 mm – completely **without the use of tools!**



Only 20 mm diameter!

Extended front sleeves



**Safety**

Integrated mandrel safety switch in accordance with the Machinery Directive.

**Compact dimensions**

With cover cap for working without mandrel container.

**ERGONOMICS**



**Outstanding ergonomics,** low weight and rubberised handle.



**Maximum comfort** thanks to rotation trigger with very low trigger force/short trigger travel.

**Rivdom plus**  
Charging technology



**Latest Li-Ion battery technology - perfected battery management**

The powerful 16 V/2,0 Ah Li Ion batteries are fully charged after **less than 30 minutes** – the **90 % charged is reached after only approx. 20 minutes**, so that the charging cycle is always shorter than the battery-consuming working time!

The state-of-charge can be monitored with the **display on every battery.** **16V/4.0 Ah batteries are available as optional accessories!**

High-quality electronic fast charger with **automatic identification of the battery used.** 12 V, 16 V and 20 V batteries from the Rivdom family can be charged using the same charger.



**Retension nosepieces** available as options ensure that the rivet cannot fall out of the tool even in vertical working position and that the mandrel is discharged after the setting process.



# Rivdom TWO<sup>20V</sup>



up to 6.4 mm

*“You simply notice that a great deal of experience in riveting technology has gone into the development of this tool...”*

*All in all – just perfect for me!”*



## L-BOX<sup>®</sup>



### Sturdy and flexible

The innovative system packaging solution with added value.

Our L-Boxx is also compatible with all L-Boxxes from other manufacturers.

## RivdomTWO<sup>20V</sup> – the powerful battery riveter

Designed and developed for blind rivets up to 6.4 mm diameter (all materials) – also for high-strength variants!

With a **setting force of 20,000 N** and a very large **stroke of 30 mm**, not only standard blind rivets and high-strength versions such as FERRO<sup>®</sup>-Bulb and FERRO<sup>®</sup>-Bolt or comparable products can be set, but also breakstem blind rivets can be quickly and reliably processed in one step.

The Rivdom<sup>®</sup>TWO<sup>20V</sup> also has a **new housing** with greatly improved ergonomics, the new **trigger with a travel of only 2 mm**, and the familiar **wide range of accessories** of the Rivdom family.



2.4	3.0	3.2	4.0	4.8	5.0	6.0	6.4	8.0	
			Aluminium						
			Steel						
			Stainless steel						
			Copper alloys						



max. 4.8 mm



< 30 min.



20,000 N



2.0 kg (incl. battery)



30 mm



RivdomTWO 20 V battery riveter incl. 20 V/2.0 Ah battery (number depending on variant) with optical charge state indicator, 4x standard nosepiece in box, Rivdom-PLUS quick charger, mandrel container, belt clip, hanger and cover cap in L-Boxx with coloured sales sleeve.

## PRACTICAL DETAILS



Hanger bracket for balancer



LED-illuminated riveting point



Robust, transparent mandrel container (various sizes available as options!)



Plastic box for nosepieces

## Individual return mode setting



When using **manual return mode**, the trigger has to remain pressed until the rivet is sheared. When the trigger is released, the tool moves back to the front starting position. In addition, RivdomTWO<sup>20V</sup> offers an **automatic return mode**.

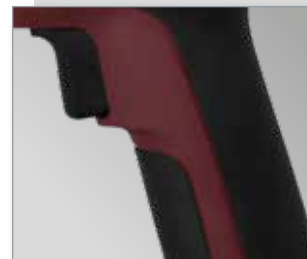
Here the trigger merely has to be pressed slightly to start the automatic setting process. Immediately after the drop in the measured force with the shearing of the rivet mandrel, the tool moves back automatically to the starting position to keep the riveting cycle as short as possible.

## ACCESSORIES



Extended front sleeves

## ERGONOMICS



Outstanding ergonomics, low weight and rubberised handle.



Maximum comfort thanks to rotation trigger with very low trigger force/short trigger travel.



### The latest motor technology Brushless and wear-free.

The newly developed brushless DC (BLDC) motor guarantees a very long and practically wear-free life-cycle. Low current consumption and reduced heat development increase the battery life and efficiency.



**Safety**  
Integrated mandrel safety switch in accordance with the Machinery Directive.

**Compact dimensions**  
With cover cap for working without mandrel container.

# Rivdom plus

Charging technology



### Latest Li-Ion battery technology - perfected battery management

The powerful 20 V/2,0 Ah Li ion batteries are fully charged after **less than 30 minutes** – the **90 % charged is reached after only approx. 20 minutes**, so that the charging cycle is always shorter than the battery-consuming working time!

The state-of-charge can be monitored with the **display on every battery**.  
**20V/4.0 Ah batteries are available as optional accessories!**

High-quality electronic fast charger with **automatic identification of the battery used**. 12 V, 16 V and 20 V batteries from the Rivdom family can be charged using the same charger.



**Retension nosepieces** available as options ensure that the rivet cannot fall out of the tool even in vertical working position and that the mandrel is discharged after the setting process.



# Rivdom TWO2.8<sup>20V</sup>

incl. retension nosepieces!

up to  
8.0 mm!



*"It doesn't get any better.  
 Even rivets of 8 millimetre  
 diameter are set in one stroke.  
 I'm very impressed!"*

# 2.8

## Perfected

for high-strength blind rivets  
 with 6.4 and 7.8 mm diameter  
 with grooved rivet mandrel!

2.4	3.0	3.2	4.0	4.8	5.0	6.0	6.4	8.0
							Aluminium	
							Steel	
							Stainless steel	
							Copper alloy	

- max. 6.1 mm
- < 30 min.
- 24,000 N
- 2.1 kg (incl. battery)
- 30 mm
- RivdomTWO2.8 20V battery riveter incl. 20 V/2.0 Ah battery (number depending on variant) with optical charge state indicator, 2x retension nosepiece in box, Rivdom-PLUS quick charger, mandrel container, rivet application plate, belt clip, hanger and cover cap in L-Boxx.

High-strength blind rivets with large diameters play an increasingly important role, for instance in the automotive industry.

Clamping jaws with trapezoidal grooves specially designed to match the grooves in the rivet mandrel and a modified clamping mechanism guarantee reliable and **positive setting** of FERRO®-BULB high-strength blind rivets (or comparable types) with a **mandrel diameter from 3.8 to 6.15/6.5 mm!**

Wear of the clamping jaws is minimised!



Rivdomplus



L-BOXX®





SEALING PLUGS

LOCKBOLT PINS

# *Rivdom can do more.*

Together with our customers, we elaborate individual processing solutions on the basis of the Rivdom technology that go beyond the standard.

Our product developers benefit from the close proximity to the design engineers and can call together with Technical Sales on a modular system containing a large number of components and parts that can be quickly and easily modified.



STRUCTURAL FASTENERS

# CFC

## CONTACT FORCE CONTROL

The **contact force control** contributes to process reliability.

- **Health & safety**  
The setting process starts only from a predefined contact force so that triggering without a workpiece is not possible.
- **Quality assurance**  
The contact force on the workpieces ensures that the fastener and the components are positioned as defined.



The small, lightweight battery riveter  
with process monitoring



Small. Light. Smart.

For blind rivets up to 5.0mm diameter!

*“Innovative and fit for the future. RivSmart can be easily integrated into our production processes, and with its documentation capabilities helps us to continuously optimise the production.”*

Rivdom is now smart. RivSmart.

Very small, very light and in touch with the world.

With RivSmart you can take the first step towards blind rivet processing 4.0 of tomorrow – on the basis of decades of experience in the development of high-quality riveting tools and individual riveting automation technology.



	2.4	3.0	3.2	4.0	4.8	5.0	6.0	6.4	8.0	
Aluminium	[Bar]									
Steel	[Bar]									
Stainless steel	[Bar]									
Copper alloys	[Bar]									



max. 3.4 mm



< 30 min.



8,500 N



1.3 kg (incl. battery)



20 mm



RivSmart battery riveter incl. 12 V/2.0 Ah battery (number depending on variant) with optical charge state indicator, 4x standard nosepiece in box, Rivdom-PLUS quick charger, mandrel container, belt clip, rivet application plate, hanger and cover cap in L-Boxx with coloured sales sleeve.

## ERGONOMICS



The stringent optimisation of all the parts enables the RivSmart to impress with its **very low weight**.



**Outstanding ergonomics**, with rubberised universal handle for all hand sizes.



**Maximum comfort** thanks to rotation trigger with very low trigger force/short trigger travel.

## Compact dimensions.

Thanks to the removable transparent mandrel container, the tool can be further shortened for **unrivalled ease of handling** for even the most confined installation points.



## Safety

Integrated mandrel safety switch in accordance with the Machinery Directive.

**TOOL-FREE MAINTENANCE**


Clamping jaws and nosepieces can be replaced quickly and easily on the spot.

**BÜRSTENLOS BRUSHLESS**


**The latest motor technology**  
Brushless and wear-free.

The newly developed brushless DC (BLDC) motor guarantees a very long and practically wear-free life-cycle. Low current consumption and reduced heat development increase the battery life and efficiency.



# Rivdom plus

Charging technology

**Latest Li-Ion battery technology - perfected battery management**

The powerful 12 V/2.0 Ah Li ion batteries are fully charged after **less than 30 minutes** – the **90 % charge is reached after only approx. 20 minutes**, so that the charging cycle is always shorter than the battery-consuming working time!

The state-of-charge can be monitored with the **display on every battery**, and **via the app and the display**. **12V/4.0 Ah batteries are available as optional accessories!**

High-quality electronic fast charger with **automatic identification of the battery used**. 12 V, 16 V and 20 V batteries from the Rivdom family can be charged using the same charger.



**Retention nosepieces** available as options ensure that the rivet cannot fall out of the tool even in vertical working position and that the mandrel is discharged after the setting process.



## Intelligent controller

App-controlled  
WiFi-connected



- OLED display (1.5") with 5 buttons
- Mobile control via Android or IOS app
- Management of several devices
- Wifi connectivity with radio frequencies 2.4 GHz / 5.0 GHz
- Individual interface programming possible
- Many basic functions:  
Countdown, various counters, statistics, signal tones
- Service functions:  
Information on clamping jaw change, service intervals, emptying of mandrel container, job counter, live statistics,



Included in the scope of supply:  
SD card as **internal memory** for reading out the documented data of the process stamp, even without permanent WiFi connection.

### RivSmart can do more.

In addition to its outstanding riveting properties, RivSmart is prepared for integration into a networked production environment.



### L-BOX®

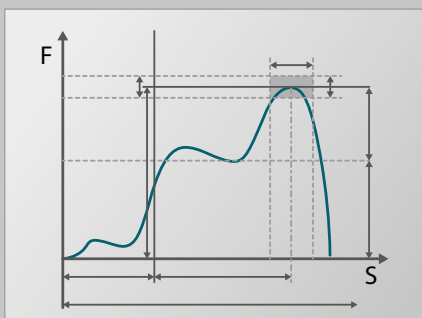


#### Sturdy and flexible

The innovative system packaging solution with added value.

Our L-Boxx is also compatible with all L-BOXEs from other manufacturers.

## Demand oriented documented process monitoring



#### LITE

RivSmart is equipped with the **DMSD-lite process monitoring system** even in the standard version. This allows the correct setting of the rivet to be immediately checked and documented with a process stamp after every riveting.

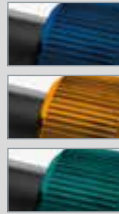
#### HR / DMSD 2G

The optional **DMSD 2G** and **HR version** with PLC interface or patented sensor systems offers complete documentation of each individual riveting with device number, time stamp, number, error codes, as well as various stroke and force measurements in separate process windows in text format.



Information on the DMSD 2G process monitoring system on the following pages.

**PRODUCTION OPTIMISATION -optional-**



Colour coding of the union nut possible for **identification** of application, workplace or employees available as an accessory.

Also available: Plate for **marking** of the field of application installed in the same way as the belt clip.



**EXTENDED SLEEVES -optional-**



Extended front sleeves for recessed riveting points. Even here, as with the standard sleeve – only 21 mm diameter. Can be combined with extensions.

**Individual return mode setting**



When using **manual return mode**, the trigger has to remain pressed until the rivet is sheared.

When the trigger is released, the tool moves back to the front starting position.

In addition, RivSmart<sup>12V</sup> offers an **automatic return mode**.

Here the trigger merely has to be pressed slightly to start the automatic setting process. Immediately after the drop in the measured force with the shearing of the rivet mandrel, the tool moves back automatically to the starting position to keep the **riveting cycle as short as possible**.

**PRACTICAL DETAILS**



Belt clip – RivSmart is always to hand



LED-illuminated riveting point



Robust, transparent mandrel container (various sizes available as options!)



Plastic box for nosepieces

**VVG tools from professionals for professionals**

We have been developing and producing processing tools for blind rivet products within the HONSEL Group for decades. This experience and the passion to provide the user with innovative solutions to the demands of day-to-day work goes far beyond the product alone.

The **VIP service** for registered RivSmart users.

Download the RivSmart app and register within 30 days of the purchase! **Your benefits:**



**Extension of the manufacturer's guarantee to three years!**



Our experienced experts are at your disposal with **exclusive professional support** free of charge on the **RivSmart** hotline.



Free-of-charge pick-up and return service for maintenance and repair.



Free exchange tools and shorter lead times.



Regular software updates free of charge.



- Wireless for maximum flexibility
- In-process monitoring of blind rivet setting processes
- Early detection of quality deviations
- Minimisation of QA effort
- Quick feedback through transparency in the production process
- Traceable process results
- Reduction in additional test routines



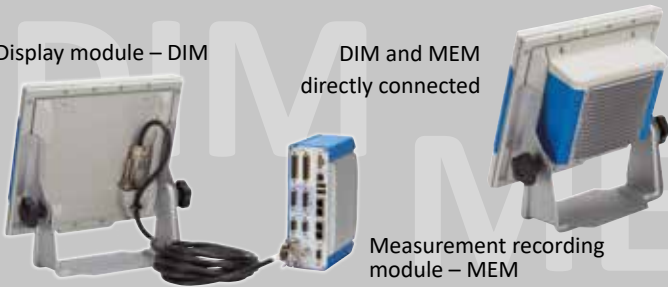
More than  
**25 years**  
of process  
monitoring in  
fastening  
technology

## DMSD2G Wireless process monitoring

Display module – DIM

DIM and MEM  
directly connected

Measurement recording  
module – MEM



The measurement recording module can be connected to the display module via a connecting cable with a maximum cable length of 5 m or can be plugged in directly.

Almost any distance between the modules can be realised by incorporating DIMs and MEMs in a company-provided Ethernet. Alternatively, the measurement recording module (MEM) is directly connected to the display module (DIM).

## 2G benefits at a glance

- Connection possibility for measurement transducers with different output signals from DMS to incremental and piezo measurement transducers without additional amplifiers.
- The resolution of the distance measurement has been improved from 0.1 mm to 0.01 mm. This therefore complies with the VDA demand for 10 times resolution when recording with regard to the evaluation.
- The facility for monitoring maximum force and two additional control windows has been supplemented by two freely parametrisable control windows, even to the extent of envelope curve monitoring.  
It is possible to evaluate up to 10 evaluation elements in one measuring program.
- Up to 108 measuring programs can be stored in the monitoring.
- Up to 20 master programs are available for the monitoring.
- Parametrisation and programming take place via the firmware installed in the controller – no additional program is required.
- Operation and remote maintenance is possible using a VPN tunnel via a VNC viewer.  
The persons involved can access the functions of the software via the Internet and monitor the actions. The VNC viewer can also be connected to a large monitor.
- The measurement evaluation module (MEM) can be used with the display module (DIM) or also as a black box module without a display module.

# RivSmart DMSD 2G

Up to eight measurement recording modules can be connected to a display module for extended applications.

When using a VNC viewer, applications can also alternatively be implemented that do not have a display module.

Up to 8 MEMs can be connected to a DIM and displayed simultaneously.

As well as the last process values, a history of the previous setting processes can be called up via the MEM.

The process monitoring measuring programs and settings can be stored on a USB storage medium, from where they can also be restored.

The process values can be archived on a USB storage medium or on a server via Ethernet (USB storage medium, server or QDAS).



The process values can be stored in Q-DAS, XML, CSV, PDF, QDA-9 or IPM 5.0 format. Process values stored in CSV format can be subjected to further processing using Excel.

A scanner for recording the components can be directly attached to the MEM. If a scanner is incorporated, the code that is read in is also stored, making tracking possible.

Connection to a customer controller is possible via digital inputs and outputs and via a field bus (PROFINET, PROFIBUS DP and EtherCAT).

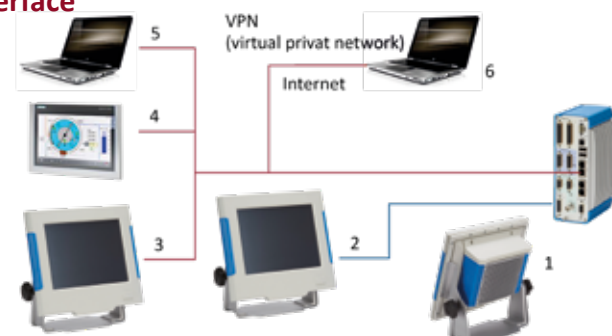
## Connection possibility for hand-held tools

1. Hand scanner
2. USB storage medium
3. Server
4. Digital inputs (5x) and outputs (8x)
  - PROFINET
  - EtherCAT
  - PROFIBUS DP
5. RivSmart tools via WiFi
6. BZ and VNG components



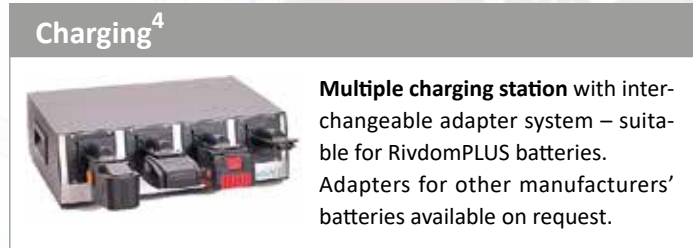
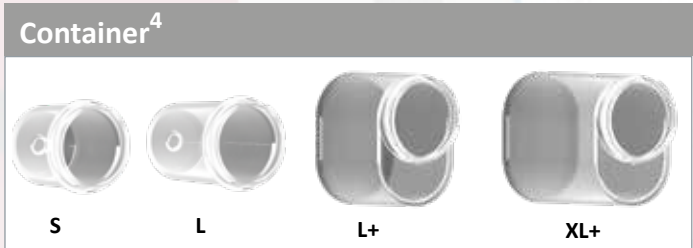
## Connection between MEM and programming user interface

1. MEM fitted directly on DIM.
2. Distance between DIM and MEM up to 5 m via cable.
3. Operation via DIM connected via Ethernet.
4. Operation with VNC viewer on machine control unit via Ethernet.
5. Operation with VNC viewer on PC via Ethernet.
6. Remote maintenance via Internet and VPN.



## Rivdom/RivSmart blind rivet tools (battery-powered)

	Blind rivets										
	2,4	3,0	3,2	4,0	4,8	4,8 high strength	5,0	6,0	6,4	6,4 high strength	8,0
RivdomZERO <sup>12V</sup>	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■				
RivdomONE <sup>16V</sup>	■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■				
RivdomTWO <sup>20V</sup>				■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■
RivdomTWO.8 <sup>20V</sup>										■ ■ ■ ■ ■	■ ■ ■ ■ ■ high-strength with grooved mandrel
RivSmart <sup>12V</sup>	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■				



Your VVG specialist trade partner on site

