

# PRODUCT CATALOGUE



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# ABOUT US

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# ABOUT US

### PERFECT EQUIPMENT® IN EUROPE

PERFECT EQUIPMENT® was introduced in early 2013 to the European market. The brand with a rich tradition and more than 75 years of experience is known in the North-American market as the largest US brand for wheel balancing weights. In Europe, PERFECT EQUIP-MENT® is represented in the market with a clearly structured product portfolio especially adapted to the workshop. The product assortment offers guaranteed quality for best work results and it includes – in addition to universal passenger car wheel balancing weights – also passenger car valves, tools and other wheel accessories.

### WHEEL BALANCING WEIGHTS – MADE IN GERMANY\*



PERFECT EQUIPMENT<sup>®</sup> with headquarters in Veitshöchheim in Lower Franconia is a brand by WEGMANN automotive, the world market leader for wheel balancing weights. With production locations in Germany, Europe-wide distribution centers and worldwide sales subsidiaries, WEGMANN automotive is globally oriented. Furthermore, WEGMANN automotive is a supplier to all popular automotive manufacturers as well as the leading spare parts retail organizations on the American, European and Asian continents.

WEGMANN automotive is part of the Wegmann Group, which also includes Krauss-Maffei Wegmann and Schleifring. The group is headquartered in Munich and counts more than 5,000 employees.





## EVERYTHING FOR THE WHEEL!

The PERFECT EQUIPMENT® brand offers workshop tested universal weights for almost all rims as well as standard valves, tools and other accessories at an attractive price. Therefore, everything for the wheel from a single source. Guaranteed quality, customer oriented, retail optimised.

MultiFIT – PERFECT EQUIPMENT<sup>®</sup> with its selected product program for wheel balancing weights offers a compact solution for all popular rims. Handling is simplified and application errors are prevented by using universal weights. Another benefit of the MultiFIT line is the reduction of warehousing costs.



PERFECT EQUIPMENT<sup>®</sup> universal weights. The perfect solution for the workshop.





ABOUT US

IMBALANCE

WEIGHTS

VALVES

ACCESSORIES

SERVICE

# WHAT DOES **IMBALANCE MEAN?**



### STATIC IMBALANCE

DYNAMIC IMBALANCE

## DRIVING COMFORT? ONLY WITH BALANCED WHEELS!

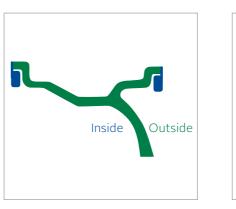
Balancing the wheels:

- Improves driving comfort
- Saves money by reducing wear
- Improves handling and braking of the vehicle
- Is considered an indispensable part of professional wheel and tyre changing by all automobile manufacturers.

### HOW TO CORRECT IMBALANCE?

To fix imbalances, you need to measure where the uneven masses occur. Application of counterweights according to measuring results will correct static as well as dynamic imbalances. The wheel will roll smoothly and reliably even at high speeds.

# THE SIX OPTIONS FOR BALANCING



## BALANCING **OPTION 1**

BALANCING

The outer balancing level is re-

located inside and the adhesive

weight is attached to the center

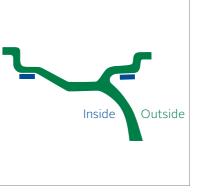
of the rim, in the brake disc area.

A knock-on weight is attached to

the inner wheel rim flange.

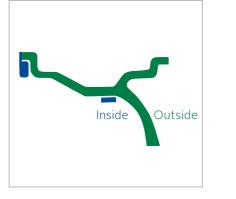
**OPTION 4** 

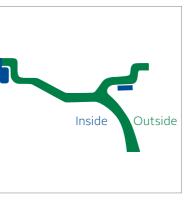
Balancing using knock-on weights for both levels. This type requires least mass for balancing. Most car manufactures use this option.



# BALANCING **OPTION 2**

Balancing by using adhesive weights for both levels. The weights are affixed to the inner or outer side of the wheel in the outer-most positions.





### BALANCING **OPTION 5**

An adhesive weight is used on the outside of the rim. It is attached to the outer-most position of the wheel. A knock-on weight is used on the inner wheel rim flange.

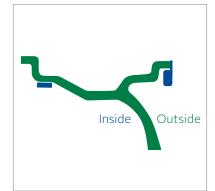
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Inside Outside

# BALANCING **OPTION 3**

Both adhesive weights are affixed to the center of the wheel rim in the inside part of it. The external balance level is in this case transferred back behind the spokes.



# BALANCING **OPTION 6**

At the outer side of the wheel rim, a knock-on weight is used at the rim flange. An adhesive weight is used on the inside of the wheel rim. The weight is affixed to the rim center in the outer-most position.

IMBALANCE



# KEY FACTS ABOUT WEIGHTS

# PRODUCT ADVANTAGES KNOCK-ON WEIGHTS

Based on a special coating process, PERFECT EQUIPMENT<sup>®</sup>, knock-on weights are covered completely with a closed coating powder layer. This protects the weight and the rim reliably against galvanic corrosion. The proven design guarantees a safe function. The flat profile provides especially a good alignment with the rim and permits the smooth installation of hub caps.



### ① Material:

• High quality zinc

### ② Coating\*:

- Quality powder coating protects the entire weight against corrosion
- Salt spray test > 250 h
- Impact resistant coating powder in silver or black
- Metallic effect matching the rim colours

# PRODUCT ADVANTAGES ADHESIVE WEIGHTS

The universal adhesive weights and rolls are ideal if aluminium rims must be balanced discretely. The high quality adhesive tape and the good forming capabilities simplify the use in the workshop and provide the best work results. By offering different profiles, colours and rolls, PERFECT EQUIPMENT® offers the matching solution for each preference.

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5 Fe	ə T C	ə T C	ə T C	97 C	ə T C	97 i

### ① Material:

• High value quality zinc and quality steel

### ② Coating\*:

- Quality powder coating protects the entire weight against corrosion
- Salt spray test > 250 h
- Impact resistant coating powder in silver or black
- Metallic effect matching the rim colours

### 3 Clip:

- High clip clamping force for a good seat
- No displacement of the weight even under extreme
- conditions
- Fitting the rim optimally

### ④ Design:

- MultiFIT Universal fit for almost all popular
- rim types
- Developed for retail
- Made in Germany



### **3** Adhesive tape:

- Quality double-sided tape with protective film and fingerlift-tape
- Best adhesive characteristics with a guaranteed adhesive force of 35N/cm<sup>2</sup>

### ④ Design:

- Application optimised
- Clean processing
- Smooth surface



# **ZINC** WHEEL BALANCING **WEIGHTS**

# **STEEL** WHEEL BALANCING **WEIGHTS**



### **TYPE 84 | TYPE 84B** Knock-on weight for steel rims

Zinc weight with powder coating available in silver (Type 84) or black (Type 84B). The special shape of the weight permits a universal application on almost all steel rims. Including French vehicles and light weight trucks.

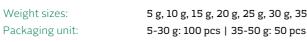
Variants:

• Type 84 (silver) • Type 84B (black)

Part. No.: 3184-0XX2-151 Part. No.: 3184-0XX2-651

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Zn 🚯 🕅



5 g, 10 g, 15 g, 20 g, 25 g, 30 g, 35 g, 40 g, 45 g, 50 g

Part. No.: 3663-0XX2-151



**TYPE 63** Knock-on weight for alloy rims

Zinc weight with powder coating in silver. The special shape of the weight permits a universal application on almost all alloy rims.

Weight sizes: Packaging unit: 5 g, 10 g, 15 g, 20 g, 25 g, 30 g, 35 g, 40 g, 45 g, 50 g 5-30 g: 100 pcs | 35-50 g: 50 pcs

# **TYPE 371 | TYPE 371B**

Adhesive weight for alloy rims Zinc adhesive weight bar with 5 g segments. Equipped with protruding liner

Variants:

for easy handling.

• Type 371 (silver/fingerlift) Part. No.: 3371-0052-251 • Type 371B (black/fingerlift) Part. No.: 3371-0052-751

Dimensions: Segmentation: Packaging unit:

Width: 19 mm, Height: 3.8 mm (incl. adhesive tape) 12 x 5 g (60 g) 100 pcs

Part. No.: 3371-0052-259



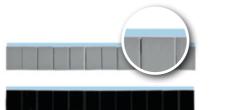
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# **TYPE 371R** Adhesive roll for alloy rims

Zinc endless adhesive weight with 1,000 segments of 5 g each with powder coating in silver on a roll. Easily cut. Equipped with protruding liner for easy handling.

Dimensions: Segmentation: Packaging unit: 1 roll Available accessories:

Width: 19 mm, Height: 3.8 mm (incl. adhesive tape) 1,000 x 5 g (5 kg) Unwind and cutting device MASTER-Cut (optional with stable floor stand) or roll bracket Type 2800.



# **TYPE 397 | TYPE 397B** Adhesive weight for alloy rims

easy handling.

Variants:

Dimensions: Segmentation Packaging unit:



# **TYPE 397R** Adhesive roll for alloy rims

Variants:

Dimensions: Segmentation Packaging unit: Available accessories:

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**TYPE 398 | TYPE 398B** Adhesive weight for alloy rims Steel adhesive weight bar with 5 g | 10 g segments. Equipped with protruding liner for easy handling.

Variants:

Dimensions: Segmentation: Packaging unit:



Steel adhesive weight bar with 5 g segments. Equipped with protruding liner for

- Type 397 (silver/fingerlift)
- Type 397U (zinc plated/fingerlift) Part. No. 3397-0602-551
- Type 397B (black/fingerlift)

Part. No. 3397-0602-251 Part. No. 3397-0602-751

Width: 19 mm, Height: 3.8 mm (incl. adhesive tape) 12 x 5 g (60 g) 100 pcs

Steel endless adhesive weight with 1,000 segments of 5 g each on a roll. Easily cut. Equipped with protruding liner for easy handling.

> • Type 397R (silver/fingerlift) Part.No.: 3397-0052-259 • Type 397RU (zinc plated/fingerlift) Part. No.: 3397-0052-559

Width: 19 mm, Height: 3.8 mm (incl. adhesive tape) 1,000 x 5 g (5 kg) 1 roll Unwind and cutting device MASTER-Cut (optional with stable floor stand) or roll bracket Type 2800.

• Type 398 (silver/fingerlift)	Part. No.: 3398-0602-251					
• Type 398U (zinc plated/fingerlift)	Part. No.: 3398-0602-551					
<ul> <li>Type 398B (black/fingerlift)</li> </ul>	Part. No.: 3398-0602-751					
Width: 19 mm, Height: 3.8 mm (incl. adhesive tape)						

 $4 \times 5 g + 4 \times 10 g$  (60 g) 100 pcs



# **LEAD** WHEEL BALANCING

# **WEIGHTS**

NFORMATION ABOUT THE USE OF LEAD WEIGHTS **These weights are NOT** ithin this EU directive – not be used for vehicles of the classes M1 and N1.



# **TYPE 5**

Part. No.: 4105-0XX0-051

# Knock-on weight for passenger car steel rim

Uncoated lead weight, dismantling hole offset to the front for easy removal of the weight.

Weight sizes: Packaging unit: 5 g, 10 g, 15 g, 20 g, 25 g, 30 g, 35 g, 40 g, 45 g, 50 g 5-30 g: 100 pcs | 35-50 g: 50 pcs

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# Part. No.: 4616-0XX0-051

Knock-on weight for passenger vehicle alloy rims

Uncoated lead weight such as Type 15 only with short clip for rims with a small tight section.

Weight sizes: Packaging unit:

TYPE 3

5 g, 10 g, 15 g, 20 g, 25 g, 30 g, 35 g, 40 g, 45 g, 50 g 5-30 g: 100 pcs | 35-50 g: 50 pcs



Part. No.: 4303-0600-551

Adhesive weight for alloy rims

Uncoated lead adhesive bar especially suited for rims with a small width of the balancing track; can also be used for motorcycle rims.

Dimensions: Segmentation: Packaging unit:

Width: 15 mm, Height: 5 mm (incl. adhesive tape) Division in 4 x 5 g and 4 x 10 g (60 g) 100 pcs



# **TYPE 13**

Part. No.: 4313-0600-551

# Adhesive weight for alloy rims

Uncoated lead adhesive bar, especially suitable if only a small installation space is available between brake system and rim.

Dimensions: Segmentation: Packaging unit:

Width: 18 mm, Height: 3.8 mm (incl. adhesive tape) Division in 4 x 5 g and 4 x 10 g (60 g) 100 pcs

# **ROLLHOLDER** AND ACCESSORIES



# **MASTER-CUT**

Rollholder with integrated cutting device. Suitable for all adhesive rolls of PERFECT EQUIPMENT<sup>®</sup>. Multi functional for the installation on the work bench or at the wall. Integrated scale and cutting device for fast and straightforward work. The floor stand for even more flexible placement as well as the roll are available separately.

Packaging unit:



# **TYPE 2800**

The rollholder is suited for all 5 kg adhesive weight rolls of PERFECT EQUIPMENT®. Multi functional for the installation on the work bench or at the wall. The roll is available separately.

Packaging unit:



REPLACEMENT Content: 2 x replacement blades

Part. No.: 0401-0023-111

# REPLACEMENT **BLADE SET**

Content: 1 x pin for blade 2 x cutting base red 2 x replacement blades





Part. No.: 0401-0023-120

1 pc

Part. No.: 2800-4801-002

1 pc

Part. No.: 0401-0023-112



Part. No.: 0401-0023-110

# **DRIVE UNIT**

Content: 1 x drive and cutting unit incl. latching bracket and lever as well as axle unit





# **INSTALLATION INSTRUCTION KNOCK-ON AND ADHESIVE WEIGHTS**

# PACKAGING



## 1. SELECTION OF A SUITABLE WEIGHT

Before installing, the weight matching the rim shape is selected. The build of the rim is used for differentiation. Before installation to the rim, apply the weight to check its fit.

KNOCK-ON WEIGHTS

ЧO

**INSTALLATION** 



### 2. PLACE THE WEIGHT ON THE RIM

Place the weight at the correct location of the imbalance. Before you knock on the weight with a hammer, make sure that the clip touches the rim flange. The actual body of the weight should not touch the rim.



3. KNOCK ON THE **WEIGHT** 

After correctly aligning the weight, knock on with the corresponding installation hammer. Do not use more than two strong hits for installation. Note: Increasing the impact number can damage the weight coating.



### 4. CHECK COR-RECT FIT OF THE WFIGHT

We recommend a second inspection to confirm the weight is attached firmly after installation.



## EVERYTHING AT A GLANCE NEW DESIGN PROVIDES A BETTER OVERVIEW

The packaging design by PERFECT EQUIPMENT® addresses especially the requirements of the retailers and the workshops. We focus on the fast identification of the most important information - customer oriented and retail optimised. This is why the type designation and the weight size on the label are written with an especially large font. The product image of the weight, the brief description and the part number clearly identify each type and do not leave any open questions. The packaging quantity can also be read immediately. Additional symbols for material, rim type and coating/colour complete the information.





# **1. PRELIMINARY**



### 2. ADJUSTMENT OF THE ADHESIVE WEIGHT TO THE **RIM SHAPE**

Adjust the adhesive weight to the rim radius with the protective film. The radius of the weight body and the rim must be at least parallel to each other. It is even better if the radius of the weight body is less than that of the rim.



3. REMOVAL OF THE PROTECTIVE FILM

Remove the protective film from the adhesive tape after adjusting the weight to the rim radius. Do not touch the adhesive tape before attaching it to the wheel!



4. WEIGHT INSTALLATION

Now press the weight against the rim from the centre towards the outer edge. The pressure should be at least 100 kpa.



Part Number

Туре





# **KEY FACTS ABOUT VALVES**

# PRODUCT ADVANTAGES VALVES

PERFECT EQUIPMENT<sup>®</sup> valves are optimized for the workshop and are made of high-quality material. The material is highly resistant and therefore guarantees protection against environmental influences and mechanical wear. All products are subject to a strict, 100% quality control of the core functions.

- Product line includes all common valves for passenger cars
  - Suitable for ETRTO rims
  - Workshop proven

# ASSEMBLY INSTRUCTION SNAP-IN VALVES

# 1. CHOOSING THE RIGHT VALVE





Choose the right valve as per the dimension of rim hole.

The valve stem should not extend out the rim flange.

### **3. VALVE INSTALLATION**





Lubricate the Snap-in valve with soap water or a mounting paste to decrease the friction between valve and rim hole, avoiding the valves surface damage. the valve hole - do not tilt!

Use a suitable valve mounting tool. Do not stretch the valve to avoid damages. The pull-through of the valve has to take place in a straight line to

# 2. CHECKING THE RIM HOLE



The rim hole has to be without grooves and damages, and has to be in accordance with the regulations of ETRTO.

# **4. VALVE INSPECTION**



Check the valve seat.



Inspect whether there is any damage or crack caused by installation on the valve surface.

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# **SNAP-IN** VALVES

# **CLAMP-IN** VALVE

## RIM VALVES FOR TUBELESS TYRES OF PASSENGER CARS

A				assembled	partly asser	nbled	unassembled
Part No.	TR	Version	ETRTO	A in mm	Ø Rim hole in mm	QTY	Vehicle Type
0401-0023-230	412	assembled	V2.03.6	33	11,3	100	<b>~</b>
0401-0023-063	413	assembled	V2.03.1	42,5	11,3	100	<b>~</b>
0401-0023-211	413	partly assembled	V2.03.1	42,5	11,3	100	<b>~~</b>
0401-0023-215	413	unassembled	V2.03.1	42,5	11,3	100	<b>~~</b>
0401-0023-064	414	assembled	V2.03.2	48,5	11,3	100	<b>~~</b>
0401-0023-201	414	partly assembled	V2.03.2	48,5	11,3	100	<b>~~</b>
0401-0023-205	414	unassembled	V2.03.2	48,5	11,3	100	<b>~~</b>
0401-0023-204	414L	assembled	V2.03.8	56,5	11,3	100	<b>~~</b>
0401-0023-027	415	assembled	V2.03.3	42,5	15,7	100	<b>~~</b>
0401-0023-065	418	assembled	V2.03.4	61,5	11,3	100	<b>~</b>
0401-0023-221	418	partly assembled	V2.03.4	61,5	11,3	100	<b>~~</b>

Maximum working pressure at room temperature: 4,5 bar At speeds above 210 km/h please use Clamp-in valves.

### RIM VALVES FOR TUBELESS TYRES OF LIGHT TRUCKS

Part No.	TR	Version	ETRTO	A in mm	Ø Rim hole in mm	QTY	Vehicle Ty
0401-0023-200	600 HP	assembled	V3.23.1	44	11,3	100	
Maximum work					11,5	100	

# RIM VALVES FOR TUBELESS TYRES OF PASSENGER CARS AND LIGHT TRUCKS

### CHROME PLATED BRASS VALVE

0401-0023-252	42MS11,3	assembled	42	11,3
Part No.	Description	Version	A in mm	Ø Rim hole in mm

Installation torque: 3-5 Nm Maximum working pressure at room temperature: 14 bar

# **VALVE** ACCESSORIES

### VALVE CAPS

Part No.	Description
0401-0023-271	Plastic valve cap with sealing, green
0401-0023-273	Plastic valve cap with sealing, black

### VALVE CORE

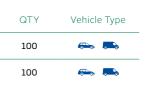
Part No.	Description	
0401-0023-279	Brass valve core TRC1, short	

Α

















VALVES





# **TOOLS** AND ACCESSORIES

Part. No.: 0401-0025-004



# **BAG FOR WHEEL** NUTS

For the storage of wheel nuts 15x20 cm (beige coloured). Packaging unit: 50 pcs



Grease marking chalk - for the marking of tyres. Writes on all solid surfaces, does not smudge and it's break resistant. Ø 17.5 mm. White

Part. No.: 0401-0025-007

Part. No.: 0401-0025-008 Yellow

MARKING CHALK

Packaging unit: 1 Box with

12 pcs each

Part. No.: 0401-0001-000

# WHEEL BALANCING WEIGHT PLIERS

For the attachment, removal and separation of wheel balancing weights. With plastic cap to protect the weight coating. Packaging unit: 1 pc

Part. No.: 0401-0025-002

# SPECIAL BRUSH FOR MOUNTING PASTE

Angled special brush for the application of the tyre installation paste. Brush head Ø 51.5 mm, brush handle 300 mm. Packaging unit: 1 pc

# **TOOLS AND ACCESSORIES**



Perfect

Part. No.: 0401-0023-096

# CAR TYRE **MOUNTING PASTE**

White - for a fast, gentle and easy installation. Simplifies the installation of the tyre on the rim. Temperature range -15 to +50 °C. Packaging unit: 1 pc (5kg)

Part. No.: 0401-0025-005

# TYRE BAG

For the transport and storage of tyres and complete wheels. Packaging unit: 1 Block with

100 pcs each

Part. No.: 0401-0025-009

# SCRAPER

For the easy and gentle removal of adhesive weights. High quality, robust plastics. Blade width 22.5 mm. Packaging unit: 1 pc

Part. No.: 0401-0025-013

# **KNOCK-ON WEIGHT** HAMMER

For the installation of knock-on weights at the rim. With arbor for the removal of knock-on weights and plastic cap for protecting the weight coating. Packaging unit: 1 pc





# **TOOLS** AND ACCESSORIES

Part. No.: 0401-0023-060

# **PERFECT SERVICE** AT PERFECT EQUIPMENT®

# **ORDERING AT PERFECT EQUIPMENT®**

Please note the individual product numbers in our current product catalogue to easily order the products at PERFECT EQUIPMENT<sup>®</sup>.

Select the required grammage for knock-on weights and replace the XX at the sixth and seventh digits.

# SERVICE AT PERFECT EQUIPMENT®

PERFECT EQUIPMENT<sup>®</sup> represents highest customer satisfaction due to our friendly customer service representatives. Please contact us if you have any questions or need help with ordering processes. You can reach us at the following address:

WEGMANN automotive GmbH Phone: +49 931 - 32104-230 E-Mail: cseu@wegmann-automotive.com

# QUALITY AT PERFECT FQUIPMENT®

After we successfully received the DIN EN ISO 9001 certification in 1995, we successfully obtained the extensions in accordance with QS-9000 and VDA 6.1 in 1998. In April of 1998, we were the first wheel balancing weight manufacturer in Europe to be certified in accordance with DIN EN ISO 9001, QS-9000 and VDA 6.1. The certifications in accordance with ISO/TS 16949: 2002 and ISO 14001 followed in 2004. Since May of 2010, we are certified according to ISO/TS 16949:2009 with product development as well as ISO 9001:2008 with product development and UM 14001:2009 with product development. In March 2015 we were additionally certified according to ISO 50001 (energy management system). Since 2018, we are certified to ISO 9001:2015 and IATF 16949 as well as to ISO 14001:2015.



VALVE SCREW VALVE SCREW DRIVER. **DRIVER, SINGLE** DOUBLÉ ENDED For the turning of valve inserts in For the turning of valve inserts in and and out (passenger car) VG5. Plastics, out (passenger car and truck) VG5/ VG8. Plastics, nickel plated metal. nickel plated metal. Packaging unit: 1 pc Packaging unit: 1 pc Part. No.: 0401-0023-059

# **VALVE PULL-IN** LEVER

For the installation of Snap-In valves. Made from high-strength plastics. Packaging unit: 1 pc



**TYRE LEVER** 

Part. No.: 0401-0025-010

Part. No.: 0401-0025-014

For the installation of types on the rim, made from chrome-vanadium steel, length 600 mm. Packaging unit: 1 pc

Part. No.: 0401-0025-012

# **RUBBER DISC**

For the removal of foam material and adhesive residues on the rim. Ø 87 mm. Packaging unit: 1 pc

**RIM FLANGE** PROTECTOR

Part. No.: 0401-0025-011

Protects the rim against damages during the installation of the tyre using a tyre iron. Packaging unit: 1 pc



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Rudolf-Diesel-Straße 6 | D-97209 Veitshöchheim

SERVICE

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WEGMANN automotive GmbH Rudolf-Diesel-Straße 6 | D-97209 Veitshöchheim Phone: +49 931 – 32104-0 | E-Mail: info@wegmann-automotive.com

> www.perfectequipment.com EUROPE PE catalogue English Vo3/19