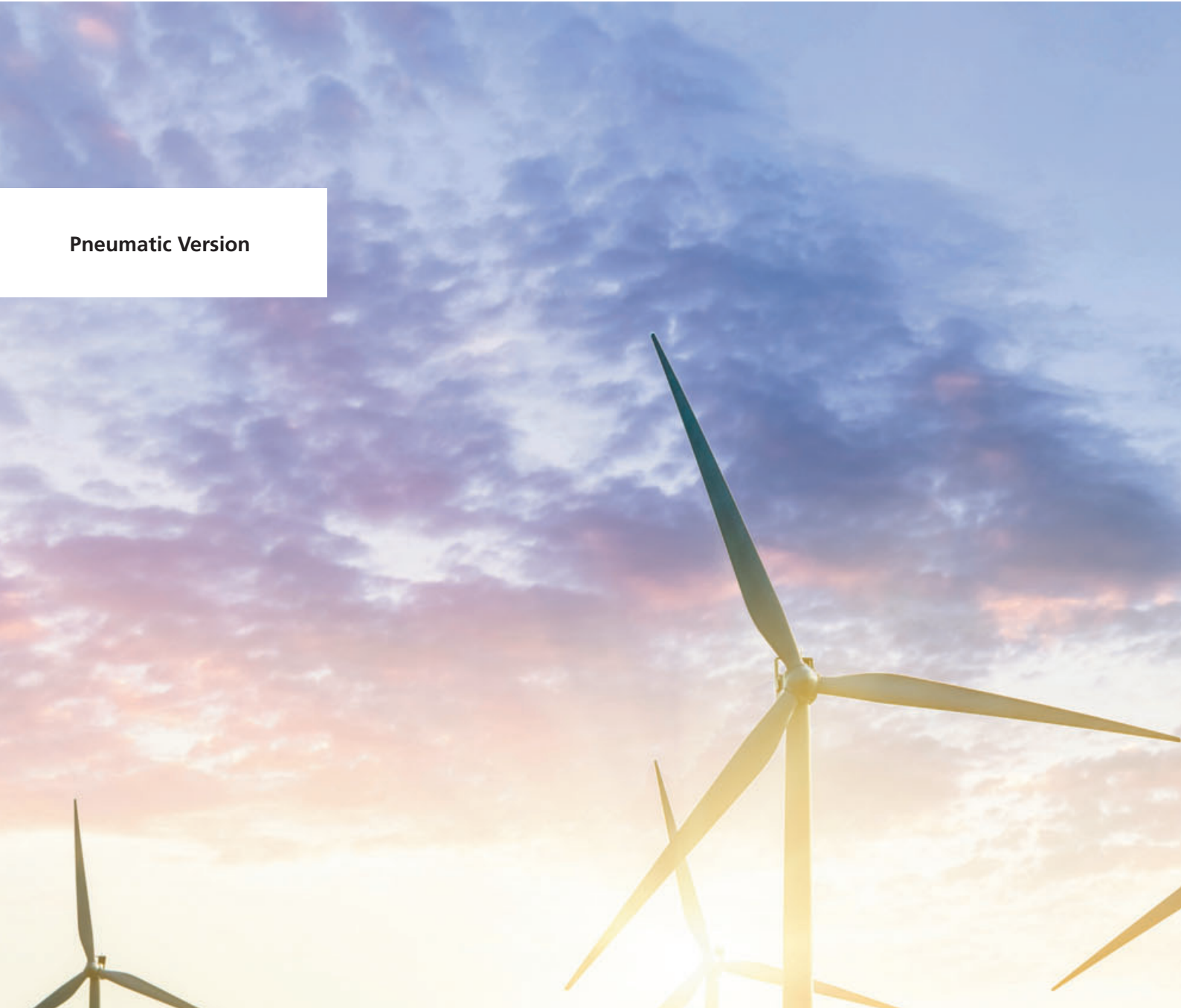
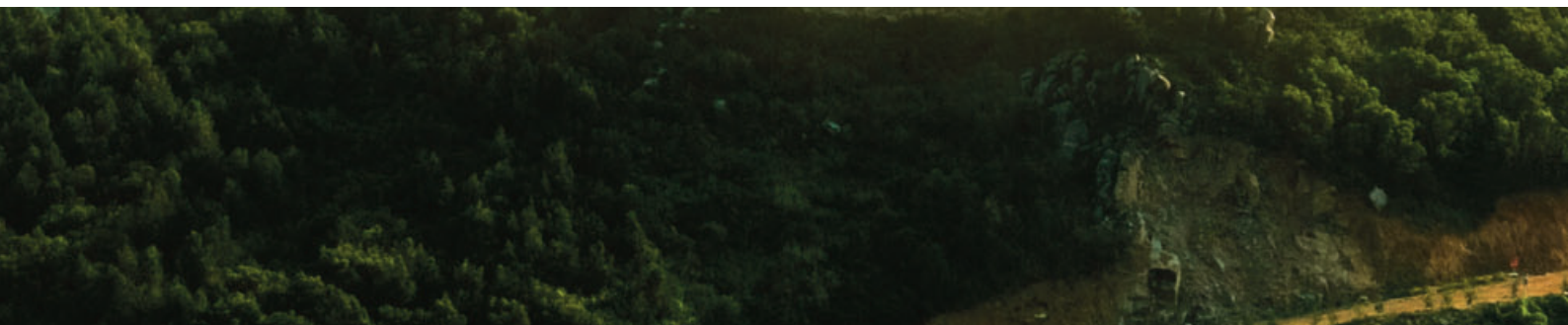


Pneumatic Version



Velocity<sup>ALPHA</sup> pneumatic high speed surgical drill system



Velocity<sup>ALPHA</sup>

HIGH SPEED SURGICAL DRILL SYSTEM

30% less weight\*

50% more power\*

30% smaller\*

Minimal thermal warming

\*compared to previous Velocity generation

Based on more than 30 years of high speed motordrill experience and continuous development, adeor® launches the all new pneumatic Velocity® Alpha high speed surgical drill system.

The Velocity® Alpha system offers distinct advantages to all parties: Reliable performance and unique surgical features for the surgeon, easiest setup and handling for OR staff, significantly reduced cost and cash-flow requirements for purchasing departments.

Nach mehr als 30 Jahren auf dem Markt für High Speed Motordrill Systeme und kontinuierlicher Entwicklungsarbeit startet adeor® das pneumatische Velocity® Alpha High Speed Motordrill System. Das Velocity® Alpha System bietet entscheidende Vorteile für alle Beteiligten: Zuverlässige Performance und einzigartige technische Features für den Operateur, einfachstes Handling für das OP-Personal sowie signifikant reduzierte Betriebs- und Lagerkosten für die Verwaltung.

100.000 rpm<sup>max</sup>

Low noise level

Velocity Alpha

## The universal cutter system

80% less inventory cost / different cutter models

No more cutter identification hassles

Adjustable cutter exposure

Easiest handling

UNIVERSAL  
CUTTER



## Velocity® Alpha universal cutter system

### > 80% less cutter codes and inventory cost

Instead of more than 300 different cutters and product codes, Velocity® Alpha only has 50 codes without compromising variety. This means less stock requirement and free cash-flow for the hospital.

### > 80% weniger Fräsermodelle und Lagerkosten

Mit dem Velocity® Alpha System konnte adeor die Anzahl der verschiedenen Fräsermodelle von bisher 300 auf nur 50 reduzieren. Und das ohne Einschränkungen für den Operateur. Dies bedeutet ein deutlich reduziertes Lager und weniger gebundenes Kapital für das Klinikum.

### > no more cutter identification

Warehouse managers, nurses, surgeons, purchasing officers will all benefit from the simplicity of the universal cutter design. Less codes mean less hassle.

### > Keine Fräserzuordnung mehr nötig

Das revolutionäre adeor Velocity® Alpha Universalfräser-System vereinfacht den Alltag von Chirurgen, Schwestern und Einkäufern. Weniger Fräser bedeuten weniger Stress für alle Beteiligten.

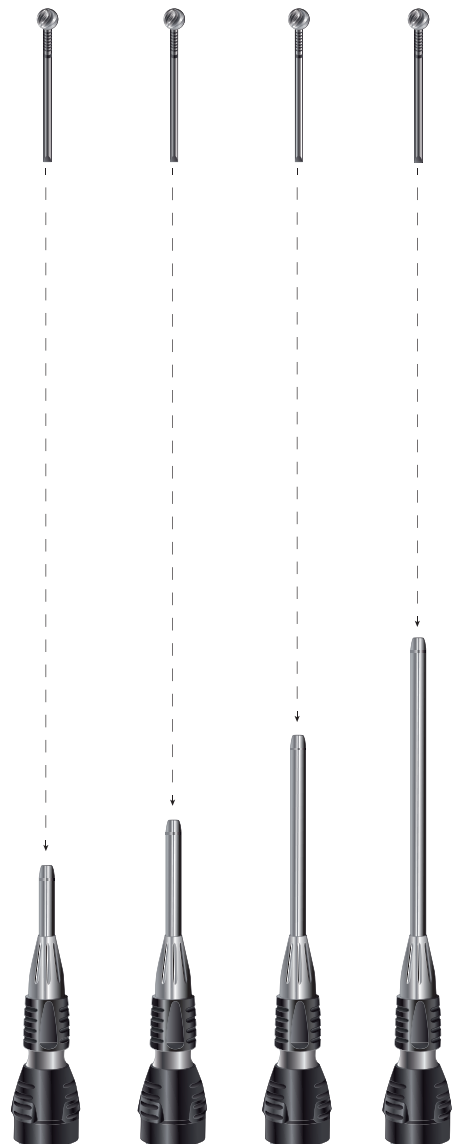
### > Improved safety

The common risk of using the wrong cutter with the wrong nosepiece is eliminated.

### > Verbesserte Sicherheit

Durch das Universalfräser-System wird das Risiko, den falschen Fräser für die entsprechende Schaftführung zu wählen, komplett ausgeschlossen.

UNIVERSAL  
CUTTER



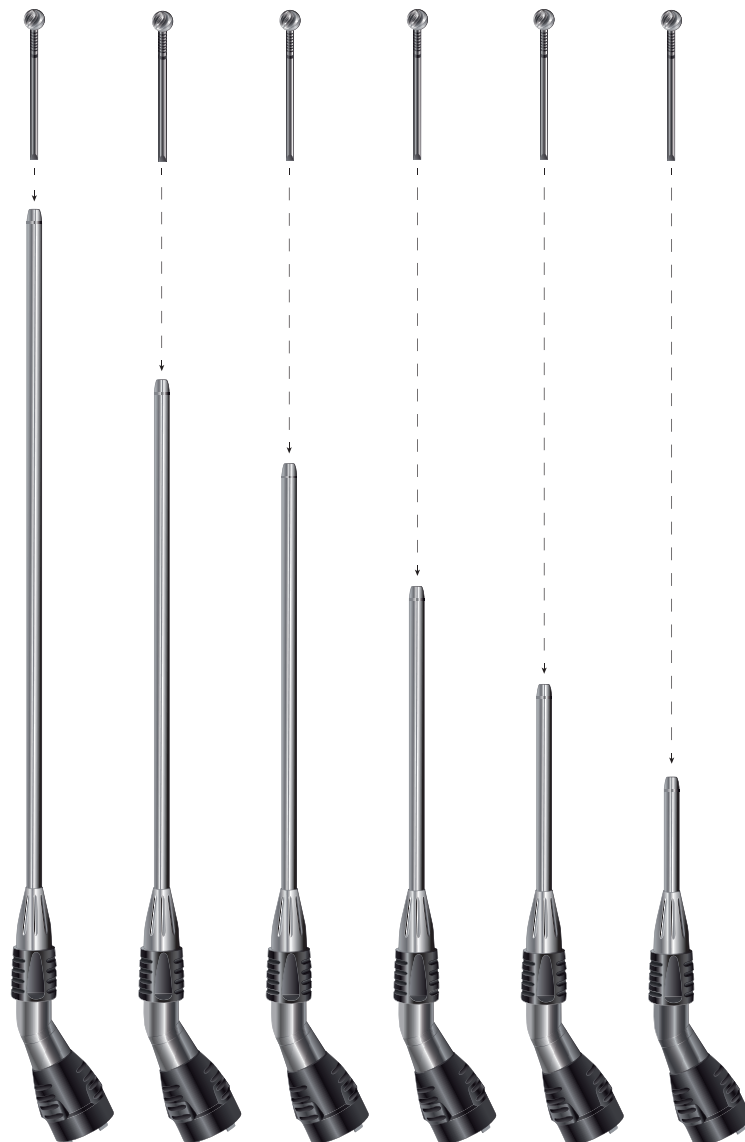


## UNIVERSAL CUTTER



One universal cutter for all straight and angled Velocity® Alpha nosepieces.

Ein universeller Fräser für alle geraden und gewinkelten Velocity® Alpha Schaftführungen.





## VARIABLE EXPOSURE



One cutter - 8 exposure positions.  
Peerless flexibility.

Ein Fräser - 8 Längen.  
Einzigartige Flexibilität.



### > variable cutter exposure

Depending on the procedure, surgical area and other factors, surgeons want cutters to protrude more or less from the nosepiece. Now, they can select from 8 different positions for each tool (exposure range = 8 mm).

### > variable Fräserlänge

Je nach Operation und anatomischer Gegebenheit sind verschiedene Ausfahrlängen der Fräser sinnvoll. Mit dem Velocity® Alpha System haben Sie die Möglichkeit aus 8 Ausfahrlängen der Fräser zu wählen (in 1 mm Schritten).

## ONE-CLICK COUPLING



One click coupling mechanism.  
No twisting, no pulling, no headache.

Ein Klick Kupplung.  
Kein Schrauben, kein Ziehen, keine Probleme.

### > one-click coupling

Inserting, removing or changing cutters has never been easier. To insert the tool, simply push the cutter into the nosepiece until you hear and feel the "click". That's it. Less training, less risk of errors. OR Time is expensive. The automatic one-click coupling system saves significant time, during set-up as well as intra-operative.

Das Einsetzen von Fräsern sowie der gesamte Systemaufbau waren nie einfacher. Mit dem Velocity® Alpha System genügt ein simples Aufstecken - das ist alles. Ein gut hörbares Klicken signalisiert den korrekten Zusammenbau.

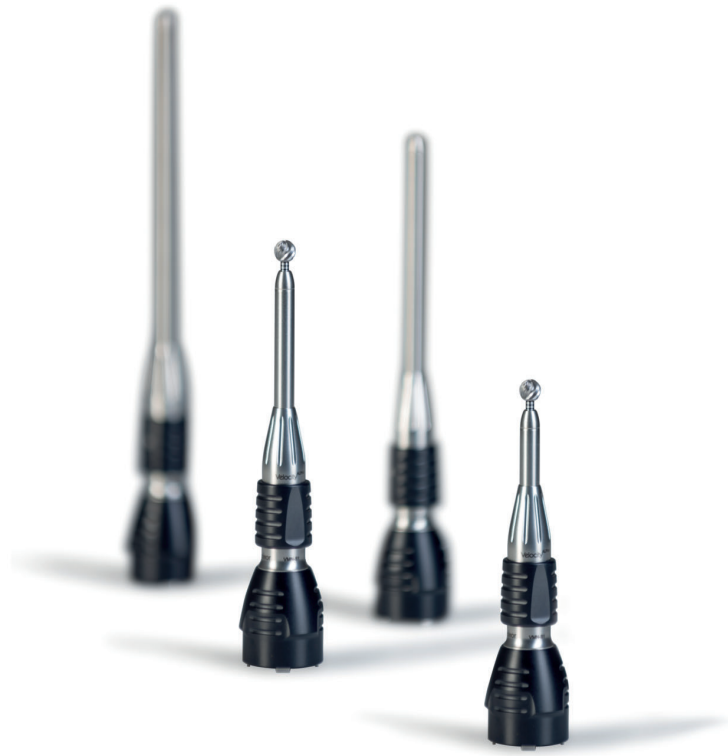


One click to connect any cutter



One click to connect any attachment





## Straight nosepieces

Super slim - packed with unique features.

Velocity® Alpha straight nosepieces are designed with the toughest challenges in microsurgical procedures in mind. They are built to last and offer reliable performance without excessive heat, vibration or noise. All Velocity® Alpha nosepieces offer a unique set of features:

- > Universal cutter system
- > Variable cutter exposure
- > One click coupling
- > Super slim shaft diameter

Minimale Größe gepaart mit maximalen Features.

Velocity® Alpha Schaftführungen sind für die härtesten Anforderungen im OP Alltag ausgelegt. Sie zeichnen sie sich durch minimale Erwärmung, hohe Lebensdauer sowie ein geringes Geräuschniveau aus.

- > Universalfräser System
- > Variable Fräserlänge
- > 1-Klick Kupplung
- > Extra dünner Schaftdurchmesser

### VMN-XS

**extra short** attachment straight (without telescoping)

working length 22 mm

total length 92 mm

### VMN-S1

**short** attachment straight

working length 40 mm

total length 110 mm

### VMN-S2

**medium** attachment straight

working length 70 mm

total length 140 mm

### VMN-S3

**long** attachment straight

working length 100 mm

total length 170 mm



## Angled nosepieces

Super slim - packed with unique features.

Velocity® Alpha angled nosepieces are designed with the toughest challenges in microsurgical procedures in mind. They are built to last and offer reliable performance without excessive heat, vibration or noise. All Velocity® Alpha nosepieces offer a unique set of features:

- > Universal cutter system
- > Variable cutter exposure
- > One click coupling
- > Super slim shaft diameter
- > 25° angulation for enhanced vision

Minimale Größe - gepaart mit einem Maximum an Features.

Velocity® Alpha Schaffführungen sind für die härtesten Anforderungen im OP Alltag ausgelegt. Dabei zeichnen sie sich durch minimale Erwärmung, hohe Lebensdauer sowie ein geringes Geräuschniveau aus. Alle Velocity® Alpha Schaffführungen bieten eine einzigartige Kombination an Features:

- > Universalfräser System
- > Variable Fräserlänge
- > 1-Klick Kupplung
- > Extra dünner Schaftdurchmesser
- > 25° Winkelung für eine verbesserte Sicht

### VMN-A1

**short** attachment angled  
working length 40 mm  
total length 120 mm

### VMN-A2

**medium** attachment angled  
working length 70 mm  
total length 150 mm

### VMN-A3

**long** attachment angled  
working length 100 mm  
total length 180 mm

### VMN-A4

**xl** attachment angled  
working length 130 mm  
total length 210 mm

### VMN-A5

**xxl** attachment angled  
working length 170 mm  
total length 250 mm

### VMN-A6

**xxxl** attachment angled  
working length 220 mm  
total length 300 mm



## Craniotomy attachments

### Modular setup

The Velocity® Alpha craniotomy attachments consist of a combination of a solid heavy duty craniotome base which can be coupled with six different duraguards.

The duraguards are available in three lengths, fixed or rotatable. The duraguard design facilitates smooth and fast cutting:

- > One click coupling
- > Super slim design

### Modularer Aufbau

Die Velocity® Alpha Kraniotomie-Aufsätze bestehen aus einem soliden Kraniotomfuss auf welchen 6 verschiedene Duraguards aufgeschraubt werden.

Die Duraguards sind in 3 verschiedenen Längen erhältlich, fixiert oder steuerbar.

Das Design der Duraguards erleichtert eine schnelle und reibungslose Kraniotomie:

- > 1-Klick Kupplung
- > Extra schlankes Design

#### VMN-C1

##### craniotome base

holds fixed and rotatable duraguards  
Safety lock mechanism

#### VMCH-1

##### short duraguard

12 mm cutting width  
fixed version

#### VMCH-2

##### medium duraguard

15 mm cutting width  
fixed version

#### VMCH-3

##### long duraguard

22 mm cutting width  
fixed version

#### VMCH-1R

##### short duraguard

12 mm cutting width  
rotatable version

#### VMCH-2R

##### medium duraguard

15 mm cutting width  
rotatable version

#### VMCH-3R

##### long duraguard

22 mm cutting width  
rotatable version



#### VMCH-D

##### craniotome head

to be used with short, medium or long craniotome cutters

## Pneumatic trepan motor

> Ergonomic shape. High torque.

The pneumatic trepan motor is designed for fast and efficient cranial perforation. For best performance please use adeor cranial perforators (see pages 18-19).

> Ergonomische Form. Hohes Drehmoment.

Der pneumatische Trepanmotor wurde für die schnelle und effiziente Trepanation entwickelt. Für ein optimales Ergebnis empfehlen wir die Verwendung von adeor Perforatoren (siehe S. 18-19).



## Pneumatic high speed motor

> High speed and torque - no thermal warming.

The Velocity high speed motor is an ideal combination of ergonomic shape, power and inbuilt insulation. Even prolonged surgical procedures are possible without the need for intra-operative cooling periods.

> High Speed und hohes Drehmoment - minimale Erwärmung.

Der Velocity High Speed Motor ist eine ideale Kombination aus Ergonomie, Kraft und bestmöglicher Wärmeisolierung. Auch ausgedehnte Operationen mit langen Bohrphasen sind ohne Kühlpausen möglich.



### ZMT-102

#### Trepan motor (for cranial perforators)

attaches to all cranial perforators with hudson fitting  
high torque / 1.200 rpm

### ZMM-100

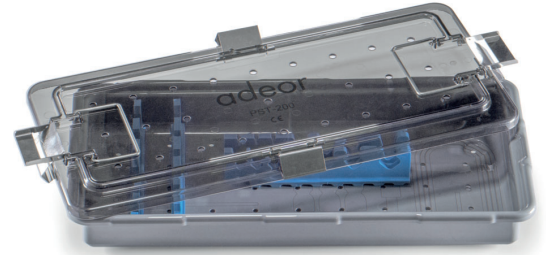
#### 100.000 rpm (max) high speed motor

autoclavable < 134°C

## Accessories

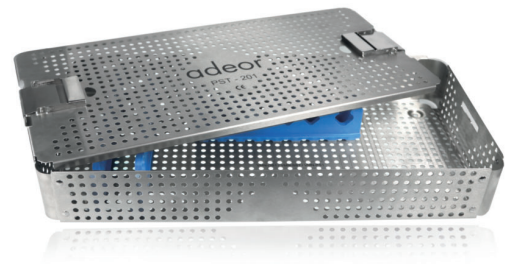
### Custom PPSU sterilization tray

- > secure reprocessing and storage
- > customized inlays for proper fit of all components
- > pictograms for ease of use
- > sichere Aufbereitung und Lagerung
- > sicherer Halt aller Systemkomponenten
- > Piktogramme für einfache Handhabung



### Custom stainless steel sterilization tray

- > secure reprocessing and storage
- > customized inlays for proper fit of all components
- > pictograms for ease of use
- > sichere Aufbereitung und Lagerung
- > sicherer Halt aller Systemkomponenten
- > Piktogramme für einfache Handhabung



### Velocity® Alpha cleaning adapter & oil-spray

- > for internal rinsing of nosepieces
- > simultaneous cleaning of up to 4 nosepieces
- > oil spray OS-100 to be used with adapter OA-100
- > zur optimalen Innenreinigung der Handstücke
- > gleichzeitige Reinigung von bis zu 4 Handstücken
- > Ölspray OS-100 zur Verwendung in Verbindung mit OA-100 Adapter



#### PST-200

##### sterilization tray PPSU plastic

custom made inlays  
autoclavable < 134°C

#### OA-100

##### oil-spray adapter

screw-on profile  
autoclavable < 134°C

#### PST-201

##### sterilization tray stainless steel

custom made inlays  
autoclavable < 134°C

#### OS-100

##### oil-spray

500 ml can  
12 cans per box

#### CA100

##### cleaning adapter

rinsing device for nosepieces

## Irrigation tubing set and adapters

- > customized irrigation adapters available for all nosepieces
- > can be connected to single-use sterile tubing set
- > targeted irrigation of drilling area
- > adjustable flow rate
- > spezielle Spüladapter sind für alle Schaftführungen erhältlich
- > zur Verwendung mit steril erhältlichen Spülschlauch-Sets
- > einstellbare Durchflussrate
- > punktgenaue Spülung



### VMM-ITS-6

#### irrigation tubing set

6 pcs. per box  
sterile packed

### VMN-IR-XS

#### extra short irrigation adapter

compatible with Velocity Alpha nosepieces  
VMN-XS

### VMN-IR-1

#### short irrigation adapter

compatible with Velocity Alpha nosepieces  
VMN-S1 and VMN-A1

### VMN-IR-2

#### medium irrigation adapter

compatible with Velocity Alpha nosepieces  
VMN-S2 and VMN-A2

### VMN-IR-3

#### long irrigation adapter

compatible with Velocity Alpha nosepieces  
VMN-S3 and VMN-A3

### VMN-IR-4

#### xl irrigation adapter

compatible with Velocity Alpha nosepiece  
VMN-A4

### VMN-IR-5

#### xxl irrigation adapter

compatible with Velocity Alpha nosepiece  
VMN-A5

### VMN-IR-6

#### xxxl irrigation adapter

compatible with Velocity Alpha nosepiece  
VMN-A6

## Velocity® Alpha System overview

### > Straight attachments



VMN-XS  
22 mm



VMN-S1  
40 mm



VMN-S2  
70 mm



VMN-S3  
100 mm

### > Duraguards and craniotome base



VMCH-1  
12 mm fixed



VMCH-1R  
12 mm rotatable



VMCH-2  
15 mm fixed



VMCH-2R  
15 mm rotatable



VMCH-3  
22 mm fixed



VMCH-3R  
22 mm rotatable



VMCH-D  
craniotome head



VMN-C1  
craniotome base

### > Angled attachments



VMN-A1  
40 mm



VMN-A3  
100 mm



VMN-A5  
170 mm



VMN-A2  
70 mm



VMN-A4  
130 mm



VMN-A6  
220 mm

> Pneumatic Trepan motor



**ZMT-102**  
for cranial perforators  
1.200 rpm

> Irrigation tubing set & adapters



See page 15  
for details

> Pneumatic High Speed motor



**ZMM-100**  
100.000 rpm

> Oil adapter & Oil spray



**OA-100 & OS-100**  
oil adapter & oil spray

> Foot control



**ZMF-150**  
pneumatic foot control

> Sterilization trays

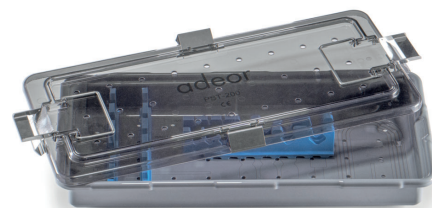


**PST-201**  
stainless steel sterilization tray

> Pneumatic hoses

Please select a suitable hose from page 22.

Bitte wählen Sie den für Sie passenden Schlauch auf S. 22



**PST-200**  
PPSU sterilization tray

## Velocity® Alpha universal cutter range



## UNIVERSAL CUTTER



One universal cutter for all Velocity® Alpha nosepieces.

Ein universeller Fräser für alle Velocity® Alpha Schaftführungen.



### Balltip / Kugel

#### universal cutter

Velocity® Alpha  
single-use sterile

**B10** Ø 1.0 mm  
**B15** Ø 1.5 mm  
**B20** Ø 2.0 mm  
**B32** Ø 3.2 mm  
**B40** Ø 4.0 mm  
**B48** Ø 4.8 mm  
**B64** Ø 6.4 mm  
**B75** Ø 7.5 mm  
**B32S Smooth Cut** Ø 3.2 mm  
**B40S Smooth Cut** Ø 4.0 mm  
**B50S Smooth Cut** Ø 5.0 mm  
**B60S Smooth Cut** Ø 6.0 mm



### Diamond Ball

#### universal cutter

Velocity® Alpha  
single-use sterile

**DB08** Ø 0.8 mm  
**DB10** Ø 1.0 mm  
**DB15** Ø 1.5 mm  
**DB21** Ø 2.1 mm  
**DB33** Ø 3.3 mm  
**DB42** Ø 4.2 mm  
**DB50** Ø 5.0 mm  
**DB60** Ø 6.0 mm  
**DB80** Ø 8.0 mm



### Diamond Ball coarse / grob

#### universal cutter

Velocity® Alpha  
single-use sterile

**DBC08** Ø 0.8 mm  
**DBC10** Ø 1.0 mm  
**DBC15** Ø 1.5 mm  
**DBC21** Ø 2.1 mm  
**DBC33** Ø 3.3 mm  
**DBC42** Ø 4.2 mm  
**DBC50** Ø 5.0 mm  
**DBC60** Ø 6.0 mm



### Oval

#### universal cutter

Velocity® Alpha  
single-use sterile

**OV40** Ø 4.0 mm  
**OV55** Ø 5.5 mm



### Neuro Matchstick

#### universal cutter

Velocity® Alpha  
single-use sterile

**N10** Ø 1.0 mm  
**N18** Ø 1.8 mm  
**N22** Ø 2.2 mm  
**N30** Ø 3.0 mm



### Neuro Matchstick Diamond

#### universal cutter

Velocity® Alpha  
single-use sterile

**ND10** Ø 1.0 mm  
**ND18** Ø 1.8 mm  
**ND22** Ø 2.2 mm  
**ND30** Ø 3.0 mm

**Lindemann****universal cutter**

Velocity® Alpha  
single-use sterile

**L16-S** Ø 1.65 x 10 mm

**L16-M** Ø 1.65 x 20 mm

**Drill****universal cutter**

Velocity® Alpha  
single-use sterile

**DR15** Ø 1.5 mm

**DR20** Ø 2.0 mm

**DR30** Ø 3.0 mm

**Pin****universal cutter**

Velocity® Alpha  
single-use sterile

**P10** Ø 1.0 mm x 18 mm

**P10-30** Ø 1.0 mm x 12 mm

**Barrel / Trommel****universal cutter**

Velocity® Alpha  
single-use sterile

**BA65** Ø 6.5 mm

**Acorn / Tulpe****universal cutter**

Velocity® Alpha  
single-use sterile

**AC64** Ø 6.4 mm

**Cross Cut****universal cutter**

Velocity® Alpha  
single-use sterile

**M30** Ø 3.0 mm

## Velocity® Alpha craniotome cutters

**Diamond Disc****universal cutter**

Velocity® Alpha  
single-use sterile

**DD254** Ø 25.4 mm

**Craniotome****straight blade**

Velocity® Alpha  
single-use sterile

**CR-S** Ø 1.8 x 12.0 mm short

**CR-M** Ø 1.8 x 15.0 mm medium

**CR-L** Ø 1.8 x 22.0 mm long

**Craniotome spiral****spiral blade**

Velocity® Alpha  
single-use sterile

**CRS-S** Ø 1.8 x 12.0 mm short

**CRS-M** Ø 1.8 x 15.0 mm medium

**CRS-L** Ø 1.8 x 22.0 mm long

## Meridian™ cranial perforator range



### Unique Benefits

- › Popular design for maximized familiarity
- › Suitable for skull thicknesses as thin as 1 mm
- › Safe release mechanism
- › Suitable for even and uneven bone
- › Universal Hudson fitting
- › Durable cutting efficiency
- › Different housing colors to easily identify the different models
- › Available in most commonly used sizes

### Produktmerkmale

- › Populäres Design erlaubt gewohnte Arbeitsweise
- › Sicherer Auslösemechanismus
- › Einsetzbar bei ebenen und unebenen Schädelknochen
- › Konstante Schneidleistung
- › Universeller Hudsonschaft
- › Startet auch nach Unterbrechung
- › Verfügbar in marktüblichen Standardgrößen
- › Unterschiedliche Gehäusefarben für einfache Identifikation

**Meridian<sup>alpha</sup> Single-Use Perforator****PER 7-11-S** 7 / 11 mm (inner / outer diameter)

single-use, sterile, for skulls as thin as 3 mm

alternative to AcraCut® 200-243

**Meridian<sup>Classic</sup> Single-Use Perforator****PER C6-9-S** 6 / 9 mm (inner / outer diameter)

single-use, sterile, for skulls as thin as 2 mm

alternative to Integra® / Codman® 26-1223

**Meridian<sup>alpha</sup> Single-Use Perforator****PER 11-14-S** 11 / 14 mm (inner / outer diameter)

single-use, sterile, for skulls as thin as 3 mm

alternative to AcraCut® 200-241 or 200-271

**Meridian<sup>Classic</sup> Single-Use Perforator****PER C8-11-S** 8 / 11 mm (inner / outer diameter)

single-use, sterile, for skulls as thin as 2 mm

alternative to Integra® / Codman® 26-1222

**Meridian<sup>alpha</sup> Single-Use Perforator****PER 7-11-SP** 7 / 11 mm (inner / outer diameter)

single-use, sterile, for skulls as thin as 1 mm

alternative to AcraCut® 200-253

**Meridian<sup>Classic</sup> Single-Use Perforator****PER C11-14-S** 11 / 14 mm (inner / outer diameter)

single-use, sterile, for skulls as thin as 2 mm

alternative to Integra® / Codman® 26-1221

**Meridian<sup>alpha</sup> Single-Use Perforator****PER 11-14-SP** 11 / 14 mm (inner / outer diameter)

single-use, sterile, for skulls as thin as 1 mm

alternative to AcraCut® 200-251



## Minimally invasive telescoping nosepieces

- > Variable cutter exposure
- > One click coupling
- > Super slim shaft diameter (4.3 mm)
- > Variable Fräserlänge
- > 1-Klick Kupplung
- > Extra dünner Schaftdurchmesser (4,3 mm)

### VMN-TS1

**short** attachment straight

working length 70 mm

total length 90 mm

### VMN-TS2

**medium** attachment straight

working length 100 mm

total length 120 mm

### VMN-TS3

**long** attachment straight

working length 130 mm

total length 150 mm

### VMN-TS4

**extra long** attachment straight

working length 160 mm

total length 180 mm

### VMN-TA1

**short** attachment curved

working length 70 mm

total length 90 mm

### VMN-TA2

**medium** attachment curved

working length 100 mm

total length 120 mm

### VMN-TA3

**long** attachment curved

working length 130 mm

total length 150 mm

### VMN-C2

**base unit**

telescoping function

accepts all minimally invasive attachments

## Cutter selection for minimally invasive telescoping nosepieces

**Neuro Matchstick**

Velocity® Alpha  
single-use sterile

**9-N15** Ø 1.5 mm fits VMN-TS1 and VMN-TA1

**9-N20** Ø 2.0 mm fits VMN-TS1 and VMN-TA1

**9-N25** Ø 2.5 mm fits VMN-TS1 and VMN-TA1

**12-N15** Ø 1.5 mm fits VMN-TS2 and VMN-TA2

**12-N20** Ø 2.0 mm fits VMN-TS2 and VMN-TA2

**12-N25** Ø 2.5 mm fits VMN-TS2 and VMN-TA2

**15-N25** Ø 2.5 mm fits VMN-TS3 and VMN-TA3

**18-N25** Ø 2.5 mm fits VMN-TS4

**Neuro Matchstick Diamond**

Velocity® Alpha  
single-use sterile

**9-ND25** Ø 2.5 mm fits VMN-TS1 and VMN-TA1

**9-ND30** Ø 3.0 mm fits VMN-TS1 and VMN-TA1

**9-ND35** Ø 3.5 mm fits VMN-TS1 and VMN-TA1

**9-ND45** Ø 4.5 mm fits VMN-TS1 and VMN-TA1

**12-ND20** Ø 2.0 mm fits VMN-TS2 and VMN-TA2

**12-ND25** Ø 2.5 mm fits VMN-TS2 and VMN-TA2

**12-ND30** Ø 3.0 mm fits VMN-TS2 and VMN-TA2

**12-ND35** Ø 3.5 mm fits VMN-TS2 and VMN-TA2

**12-ND45** Ø 4.5 mm fits VMN-TS2 and VMN-TA2

**15-ND30** Ø 3.0 mm fits VMN-TS3 and VMN-TA3

**18-ND30** Ø 3.0 mm fits VMN-TS4

**Balltip / Kugel**

Velocity® Alpha  
single-use sterile

**12-B20** Ø 2.0 mm fits VMN-TS2 and VMN-TA2

**15-B20** Ø 2.0 mm fits VMN-TS3 and VMN-TA3

**15-B30** Ø 3.0 mm fits VMN-TS3 and VMN-TA3

**15-B40** Ø 4.0 mm fits VMN-TS3 and VMN-TA3

**Diamond Ball**

Velocity® Alpha  
single-use sterile

**12-B20D** Ø 2.0 mm fits VMN-TS2 and VMN-TA2

**12-B30D** Ø 3.0 mm fits VMN-TS2 and VMN-TA2

**15-B30D** Ø 3.0 mm fits VMN-TS3 and VMN-TA3

**15-B40D** Ø 4.0 mm fits VMN-TS3 and VMN-TA3

## System Components / Sytemkomponenten

Velocity Alpha  
system components  
pneumatic

|                                                                        |             |
|------------------------------------------------------------------------|-------------|
| Pneumatic foot control                                                 | ZMF-150     |
| Pneumatic high speed motor, 100.000 rpm max.                           | ZMM-100     |
| Irrigation tubing set, 6 pcs, sterile                                  | VMM-ITS-6   |
| Straight nosepiece short working length 40 mm                          | VMN-S1      |
| Straight nosepiece medium working length 70 mm                         | VMN-S2      |
| Straight nosepiece long working length 100 mm                          | VMN-S3      |
| Angled nosepiece short working length 40 mm                            | VMN-A1      |
| Angled nosepiece medium working length 70 mm                           | VMN-A2      |
| Angled nosepiece long working length 100 mm                            | VMN-A3      |
| Angled nosepiece XL working length 130 mm                              | VMN-A4      |
| Angled nosepiece XXL working length 170 mm                             | VMN-A5      |
| Angled nosepiece XXXL working length 220 mm                            | VMN-A6      |
| Irrigation attachment working length 40 mm                             | VMN-IR-1    |
| Irrigation attachment working length 70 mm                             | VMN-IR-2    |
| Irrigation attachment working length 100 mm                            | VMN-IR-3    |
| Irrigation attachment working length 130 mm                            | VMN-IR-4    |
| Irrigation attachment working length 170 mm                            | VMN-IR-5    |
| Irrigation attachment working length 220 mm                            | VMN-IR-6    |
| Pneumatic hose motor / foot control 3 m                                | ZMW-110     |
| Pneumatic hose motor / foot control 5 m                                | ZMW-110/SA1 |
| Pneumatic hose foot control / wall with Aesculap Draeger connector 5 m | ZMW-120/A   |
| Pneumatic hose foot control / wall with Synthes connector 5 m          | ZMW-120/S   |
| Pneumatic hose foot control / wall with universal open end 5 m         | ZMW-121     |

## System Components / Sytemkomponenten

Velocity Alpha  
system components  
pneumatic

|                                                                  |         |
|------------------------------------------------------------------|---------|
| Craniotome base                                                  | VMN-C1  |
| Duraguard fixed, short 12 mm                                     | VMCH-1  |
| Duraguard fixed, medium 15 mm                                    | VMCH-2  |
| Duraguard fixed, long 22 mm                                      | VMCH-3  |
| Duraguard rotatable, short 12 mm                                 | VMCH-1R |
| Duraguard rotatable, medium 15 mm                                | VMCH-2R |
| Duraguard rotatable, long 22 mm                                  | VMCH-3R |
| Pneumatic Trepan motor for cranial perforators, 1.200 rpm        | ZMT-102 |
| High speed oil spray, 12 x 400 ml                                | OS-100  |
| Custom made oil spray nozzle adapter, screw-on profile, reusable | OA-100  |
| Transport & Storage Case suitable for air transport              | TSC-200 |
| Sterilization Tray plastic, customized                           | PST-200 |
| Sterilization Tray stainless steel, customized                   | PST-201 |
| Cleaning adapter for 4 nosepieces                                | CA100   |

## SPARE PARTS

|                                                                  |         |
|------------------------------------------------------------------|---------|
| Pneumatic hose foot control / wall with universal open end 5 m   | ZMW-121 |
| Pneumatic hose motor / foot control 3 m                          | ZMW-110 |
| Custom made oil spray nozzle adapter, screw-on profile, reusable | OA-100  |

## Technical Data / Technische Daten

Velocity Alpha  
HS Drill System  
pneumatic

|                                                |                   |
|------------------------------------------------|-------------------|
| ZMM-100 motor speed ( 6-8 Bar / 87 - 116 psi ) | max. 100.000 rpm  |
| ZMM-100 motor weight                           | 99 g              |
| ZMM-100 motor length (diameter)                | 84.5 mm (19.5 mm) |
| ZMT-102 motor speed                            | max 1.200 rpm     |
| ZMT-102 motor weight                           | 460 g             |
| ZMT-102 motor length (diameter)                | 143 mm (27 mm)    |
| ZMF-150 foot control weight                    | 2.1 kg            |
| VMN-S1 weight                                  | 55 g              |
| VMN-S2 weight                                  | 60 g              |
| VMN-S3 weight                                  | 65 g              |
| VMN-A1 weight                                  | 70 g              |
| VMN-A2 weight                                  | 76 g              |
| VMN-A3 weight                                  | 82 g              |
| VMN-A4 weight                                  | 88 g              |
| VMN-A5 weight                                  | 94 g              |
| VMN-A6 weight                                  | 100 g             |
| VMN-C1 weight                                  | 62 g              |
| Nosepiece (S1-A6) shaft diameter               | 5.4 mm            |
| Nosepiece (S1-A6) universal cutter system      | yes               |
| Nosepiece (S1-A6) 1-click coupling             | yes               |
| Nosepiece (S1-A6) variable exposure            | yes               |
| Device classification                          | Ila               |
| CE mark                                        | yes               |







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## HEADQUARTERS

adeor medical AG  
Martinshof 5  
D-83626 Valley  
Germany  
Phone +49 (0) 8024 47717 0  
Fax +49 (0) 8024 47717 99  
Email [office@adeor.com](mailto:office@adeor.com)  
Web [www.adeor.com](http://www.adeor.com)

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