



Velocity^{ALPHA} high speed surgical drill system



Wireless
Foot Control



Velocity^{ALPHA}

HIGH SPEED SURGICAL DRILL SYSTEM

10% more power*

20% smaller*

Reduced thermal warming

*compared to previous Velocity® generation

Launching the Velocity Alpha® attachment series in 2015 was a major milestone for adeor.

A true universal cutter system, one-click easy coupling and built-in telescoping were created to meet the needs of today's OR personnel. We continued to listen to our customers and utilised their feedback and requirements to design a new generation of our electric high speed drill system. Surgeons and nurses emphasized the importance of less thermal warming, ease of use for their equipment and a desire to reduce cables around the operating table. The result is our new Velocity Alpha® system. Reliable, easy to use and packed with unique features.

Der Marktstart der Velocity Alpha® Handstücke in 2015 war ein Meilenstein für adeor. Features wie der Universalfräser, die 1-Klick Kupplung und die eingebaute Teleskopfunktion für Fräser wurden realisiert um den Bedürfnissen der Anwender optimal gerecht zu werden. Das neue Velocity Alpha® System tritt nun an um unseren Anwendern weitere entscheidende Vorteile an die Hand zu geben. Dazu gehört neben einem kabellosen Fußpedal insbesondere eine deutlich reduzierte Erwärmung des Motors unter hoher Belastung.

Wireless Foot Control

80.000 rpm

Touch Screen

27 Languages

Low noise level*

* < 53 dBA motor noise level acc.to ISO 11498

Velocity Alpha

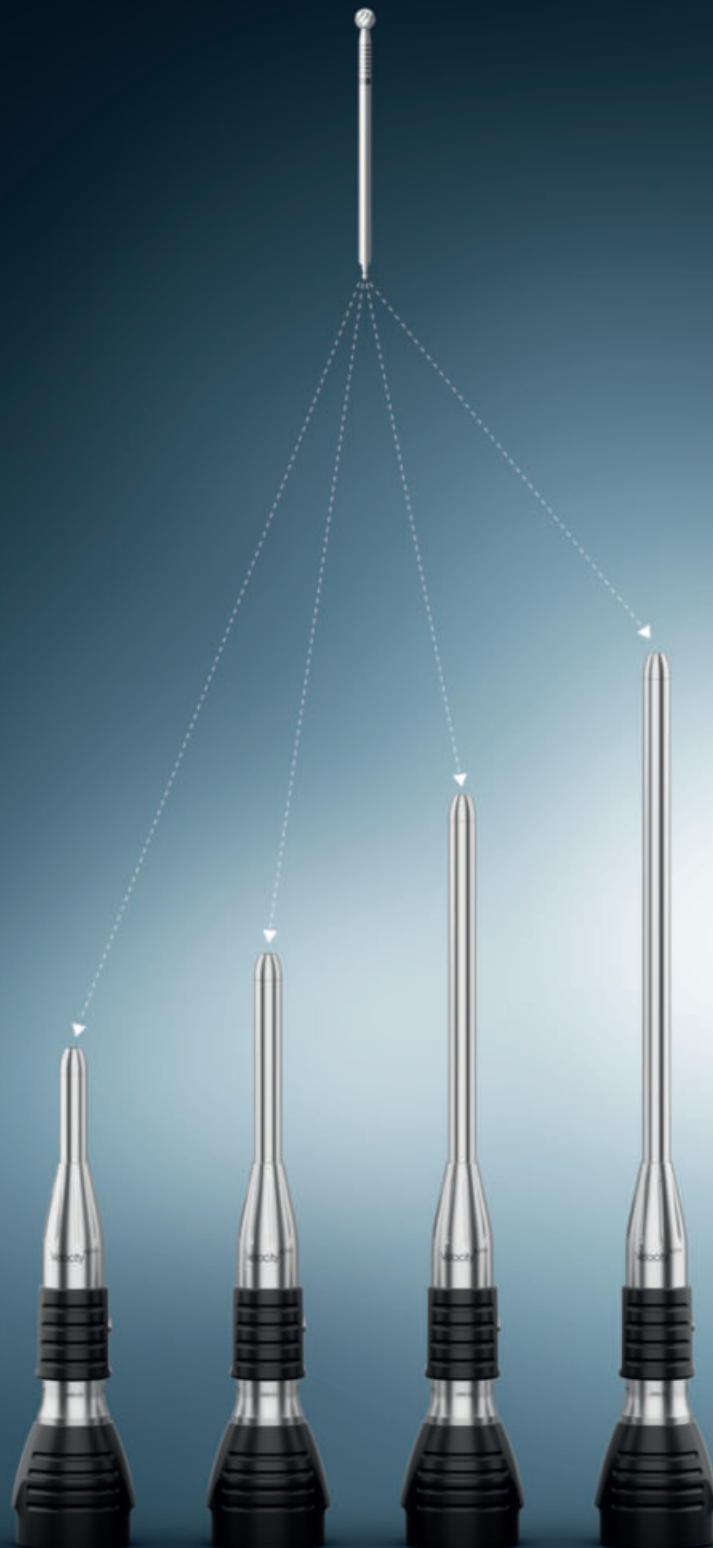
The universal cutter system

80% less inventory cost / different cutter models

No more cutter identification hassles

Adjustable cutter exposure

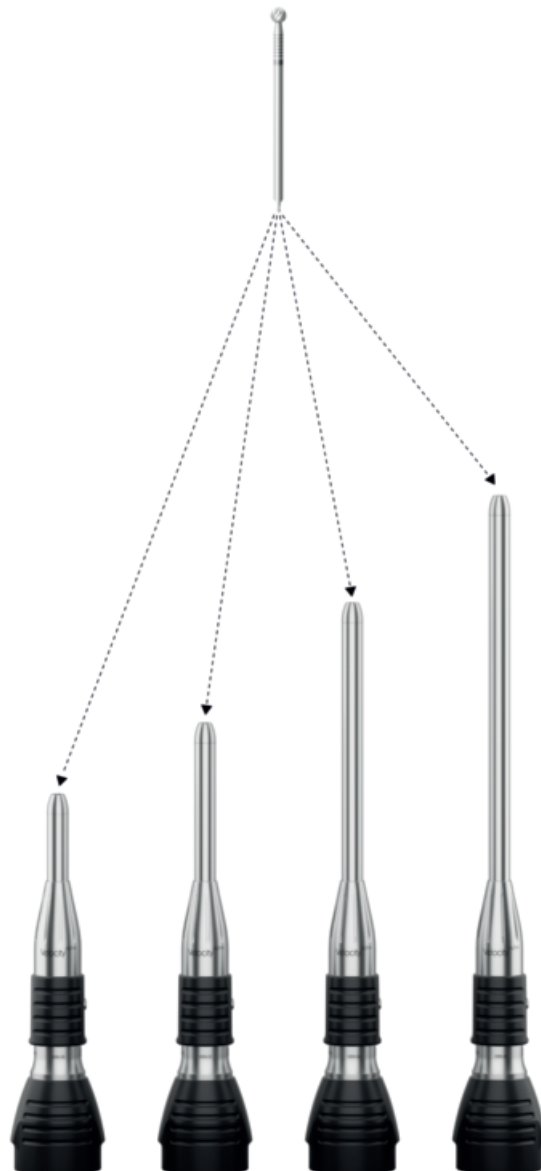
Easiest handling



Velocity Alpha® Universal Cutter System

One universal cutter for all straight and angled attachments.

Ein Universalfräser für alle geraden und gewinkelten Schaftführungen.



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 fewer stock requirements and free cash-flow for the hospital.

Mit dem Velocity Alpha® System konnten wir 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

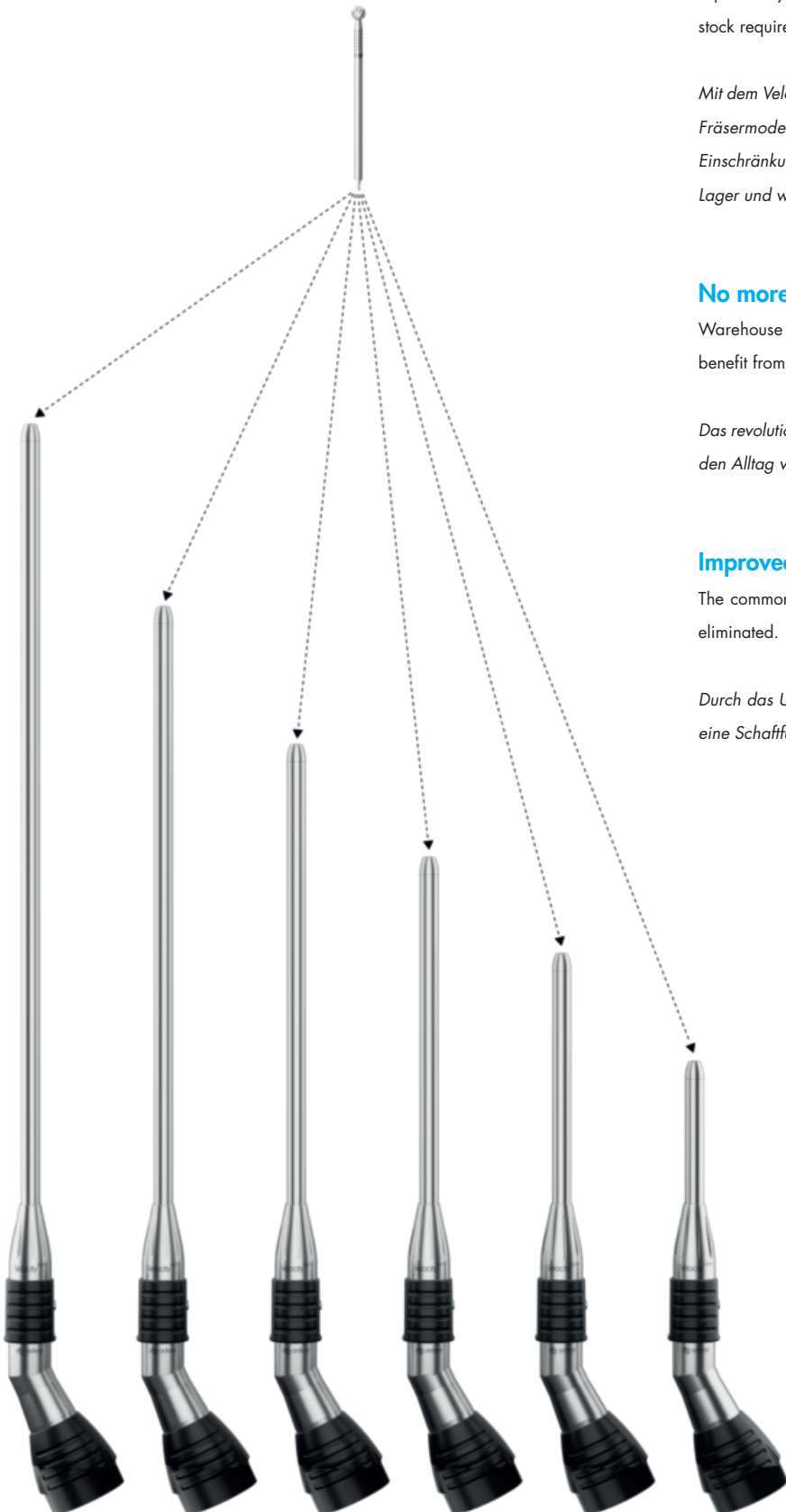
Warehouse managers, nurses, surgeons and purchasing officers will all benefit from the simplicity of the universal cutter design.

Das revolutionäre adeor Velocity Alpha® Universalfräser-System vereinfacht den Alltag von Chirurgen, OP-Schwestern und Einkäufern.

Improved safety

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

Durch das Universalfräser-System wird das Risiko, den falschen Fräser für eine Schaffführung zu wählen, ausgeschlossen.



Variable Cutter Exposure

Depending on the procedure, surgical area and other factors, surgeons want cutters to protrude more or less from the attachment. Now, they can select from 8 different positions for each tool (in 1 mm steps).

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).

Adjustable cutter exposure
Einstellbare Fräserlänge

8 exposure positions in 1 mm steps
8 Ausfahrlängen in 1 mm Schritten



One-Click Coupling

Inserting, removing or changing cutters has never been easier. To insert the tool, simply push the cutter into the attachment until you hear and feel a "click". That's it.

Less training, less risk of errors.

The automatic one-click coupling system saves time, during set-up as well as intra-operatively.

Das Einsetzen von Fräsern und 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 or attachment
1-Klick-Verbindung für Fräser und Nosepieces



Straight Attachments

Super slim - packed with unique features.
Velocity Alpha® straight attachments are built to last and offer reliable performance without excessive heat, vibration or noise.

*Minimale Größe gepaart mit maximalen Features.
Velocity Alpha® Schaftführungen zeichnen sich durch minimale Erwärmung, hohe Lebensdauer sowie ein geringes Geräuschniveau aus.*



Straight Attachments

Universal Cutter System / 8-Step Telescoping / One-Click Coupling

VMN-XS

extra short attachment, straight (without telescoping)
shaft diameter 5.4 mm
working / total length 22 / 92 mm

VMN-S1

short attachment, straight
shaft diameter 5.4 mm
working / total length 40 / 110 mm

VMN-S2

medium attachment, straight
shaft diameter 5.4 mm
working / total length 70 / 140 mm

VMN-S3

long attachment, straight
shaft diameter 5.4 mm
working / total length 100 / 170 mm

Angled Attachments

Super slim - packed with unique features.
Velocity Alpha® angled attachments are built to last and offer reliable performance without excessive heat, vibration or noise.

*Minimale Größe gepaart mit maximalen Features.
Gewinkelte Velocity Alpha® Schaftführungen zeichnen sich durch minimale Erwärmung, hohe Lebensdauer sowie ein geringes Geräuschniveau aus.*



Angled Attachments

Universal Cutter System / 8-Step Telescoping / One-Click Coupling

VMN-A1

short attachment, angled
25° angulation, shaft diameter 5.4 mm
working / total length 40 / 120 mm

VMN-A2

medium attachment, angled
25° angulation, shaft diameter 5.4 mm
working / total length 70 / 150 mm

VMN-A3

long attachment, angled
25° angulation, shaft diameter 5.4 mm
working / total length 100 / 180 mm

VMN-A4

xl attachment, angled
25° angulation, shaft diameter 5.4 mm
working / total length 130 / 210 mm

VMN-A5

xxl attachment, angled
25° angulation, shaft diameter 5.4 mm
working / total length 170 / 250 mm

VMN-A6

xxxl attachment, angled
25° angulation, shaft diameter 5.4 mm
working / total length 220 / 300 mm

Craniotomy Attachments

Velocity Alpha® duraguards are available in three lengths, either fixed or rotatable. The duraguard design facilitates smooth and fast cutting during craniotomies.

Velocity Alpha® Duraguards sind in 3 verschiedenen Längen erhältlich. Fix oder steuerbar. Das Design der Duraguards erleichtert eine schnelle und reibungslose Kraniotomie.



Craniotomy Attachments

One-Click Coupling / Low Profile Design

VMN-C1

craniotome base
holds all duraguards and craniotome head

VMCH-D

craniotome head
used with craniotome cutters

VMCH-1

short duraguard, fixed
cutting width 12 mm

VMCH-2

medium duraguard, fixed
cutting width 15 mm

VMCH-3

long duraguard, fixed
cutting width 22 mm

VMCH-1R

short duraguard, rotatable
cutting width 12 mm

VMCH-2R

medium duraguard, rotatable
cutting width 15 mm

VMCH-3R

long duraguard, rotatable
cutting width 22 mm

Speed Reducer

The ergonomic Velocity Alpha® speed reducer with universal hudson coupling is designed for fast and efficient cranial perforation.

Der ergonomisch geformte Velocity Alpha® speed reducer mit Hudson Kupplung wurde für die schnelle und effiziente Trepanation entwickelt.



VMT-102E
speed reducer
hudson coupling
ratio 1:64

High Speed Motor

High speed and torque - minimal thermal warming. The Velocity Alpha® high speed motor offers reduced dimensions for improved ergonomics, an increase in power and torque but also reduced thermal warming. The motor is designed to easily withstand the daily routine in operating rooms and sterile processing departments.

High Speed und hohes Drehmoment bei minimaler Erwärmung. Der Velocity Alpha® High Speed Motor ist deutlich kleiner und stärker ausgelegt als sein Vorgänger. Gleichzeitig konnten Haltbarkeit und Erwärmungsverhalten weiter verbessert werden.



VAM
high speed motor
80.000 rpm
integrated 3.5 m cable

Velocity Alpha® Control Unit

The Velocity Alpha® control unit combines a simple “plug and play” approach with a vast range of customisation options, including start and stop speed of the motor, foot control settings and more. With 27 built languages to choose from, the Velocity Alpha® unit caters to many nationalities and markets. One of the recurring demands from surgeons and nurses is the wish to reduce cable clutter around the operating table. We answer this demand with the introduction of the wireless foot pedal. Using state-of-the-art wireless technology, surgeons can move around the operating table freely without the risk of tripping.

Die neue Velocity Alpha® Steuereinheit kombiniert die Vorteile individueller Einstellbarkeit und intuitiver Bedienung. Der Anwender kann zwischen einer Plug&Play Option mit voreingestellten Standardwerten und der Möglichkeit eines individuell angepassten Anwenderprofils wählen. Das Motor- und Fußpedalverhalten ist einstellbar. Die neue Generation der Velocity Alpha® Steuereinheit bietet 27 vorinstallierte Menüsprachen. Dem häufig geäußerten Wunsch nach weniger Kabeln im Operationssaal entsprechen wir mit der Einführung des kabellosen Fußpedals, welches frei im Operationssaal positionierbar ist.





Wireless Foot Control



VAC220 / VAC110

Control unit with integrated irrigation pump and wireless foot control

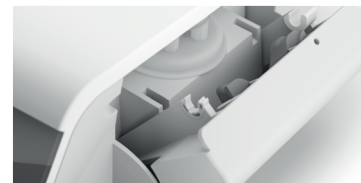
Steuereinheit mit integrierter Spülpumpe und kabellosem Fußpedal



Motor cable safety socket
Sicherheitsstecker Motorkabel



Illuminated touchscreen
Beleuchteter Touchscreen



Integrated irrigation pump
Integrierte Spülpumpe

Wireless Foot Control

- > Easy to use
- > Wide-angle accessibility
- > 3 color-coded program buttons
- > Accelerator or On/Off Mode
- > Safety guard

- > *Sicherer Halt auf dem OP-Boden*
- > *Leicht mit dem Fuß zu ertasten*
- > *3 farbcodierte Funktionstasten*
- > *Gaspedal- oder An/Aus Modus*
- > *Sicherheitsbügel*



VAFCBT

Wireless water-proof foot switch.
Kabelloser Fußschalter - wasserdicht



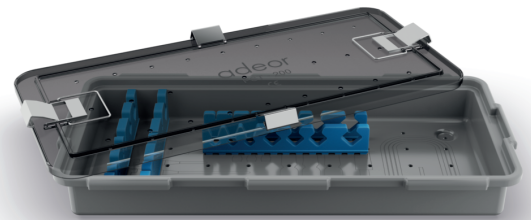
VAF

Wired water-proof foot switch. Integrated 3 m cable.
Kabelgebundener Fußschalter (3 m) - wasserdicht

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



Cleaning Adapter & Oil-Spray

- > for thorough internal rinsing of attachments
- > simultaneous cleaning of up to 4 attachments
- > oil spray 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

PST-201

sterilization tray, stainless steel
custom made inlays

CA100

internal cleaning adapter
for up to 4 attachments

OA-100

oil spray adapter
screw-on profile

OS-100

oil spray, 500 ml
box of 12

Z182600 (US market)

Pana Spray Plus, oil spray, 10.5 oz
oil spray for US market

Irrigation Tubing Set and Adapters

- > customized irrigation adapters available for all standard attachments
- > can be connected to single-use sterile tubing set
- > targeted irrigation of drilling area
- > adjustable flow rate

- > spezielle Spüladapter sind für alle Standard-Schaftführungen erhältlich
- > zur Verwendung mit sterilen Spülschlauch-Sets
- > einstellbare Durchflussrate
- > punktgenaue Spülung



Irrigation Tubing Set and Adapters

Compatible with straight and angled Velocity Alpha® attachments

VMM-ITS-6

irrigation tubing set, 6 pcs.
sterile packed

VMN-IR-XS

extra short irrigation adapter
for Velocity Alpha® VMN-XS

VMN-IR-1

short irrigation adapter
for Velocity Alpha® VMN-S1 or VMN-A1

VMN-IR-2

medium irrigation adapter
for Velocity Alpha® VMN-S2 or VMN-A2

VMN-IR-3

long irrigation adapter
for Velocity Alpha® VMN-S3 or VMN-A3

VMN-IR-4

xl irrigation adapter
for Velocity Alpha® VMN-A4

VMN-IR-5

xxl irrigation adapter
for Velocity Alpha® VMN-A5

VMN-IR-6

xxxl irrigation adapter
for Velocity Alpha® VMN-A6

Velocity Alpha® System Overview

> Straight Attachments



> Duraguards and Craniotome Base



> Angled Attachments



> Speed Reducer



> Irrigation Tubing Set & Adapters



> High Speed Motor



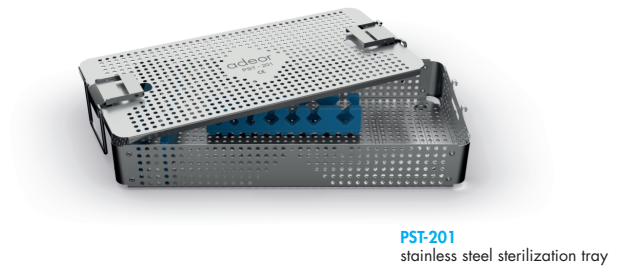
> Cleaning Adapter and Oil-Spray



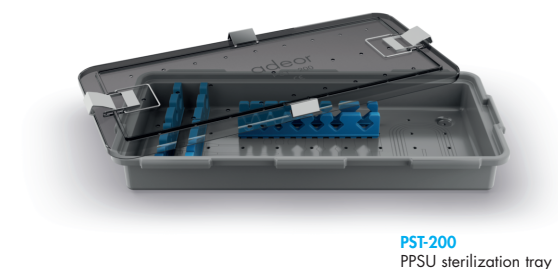
> Control Unit



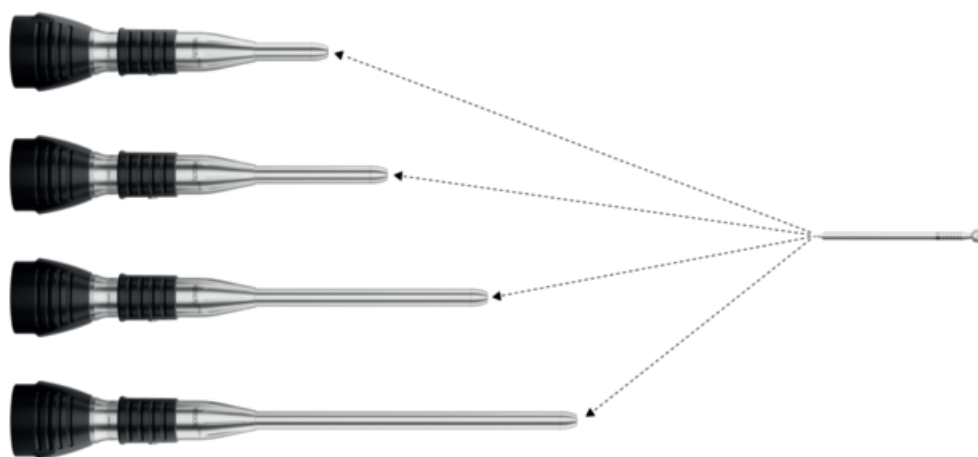
> Sterilization Trays



> Foot Controls



Velocity Alpha® Universal Cutter Range



One universal cutter for all Velocity Alpha® attachments.

Ein Universalfräser 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
*not compatible with VMN-XS
*no telescoping

***BA65** Ø 6.5 mm

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

Velocity Alpha®
single-use sterile
*no telescoping / not for VMN-XS
**no telescoping / only for VMN-XS

***AC64** Ø 6.4 mm

****AC64XS** 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****universal cutter**

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****universal cutter**

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 Perforators



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
- › Consistent 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^{alpha} 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^{Classic} 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^{alpha} 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^{Classic} 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^{alpha} 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^{Classic} 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^{alpha} 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 Attachments

- > 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-C2

base unit with telescoping function
accepts all minimally invasive attachments

VMN-TS1

short attachment, straight
working / total length 70 / 90 mm

VMN-TS2

medium attachment, straight
working / total length 100 / 120 mm

VMN-TS3

long attachment, straight
working / total length 130 / 150 mm

VMN-TS4

extra long attachment, straight
working / total length 160 / 180 mm

VMN-TA1

short attachment, curved
working / total length 70 / 90 mm

VMN-TA2

medium attachment, curved
working / total length 100 / 120 mm

VMN-TA3

long attachment, curved
working / total length 130 / 150 mm

Cutter Selection for Minimally Invasive Telescoping Attachments



Neuro Matchstick

Velocity Alpha®
single-use sterile

9-N15 Ø 1.5 mm for VMN-TS1 and VMN-TA1
9-N20 Ø 2.0 mm for VMN-TS1 and VMN-TA1
9-N25 Ø 2.5 mm for VMN-TS1 and VMN-TA1

12-N15 Ø 1.5 mm for VMN-TS2 and VMN-TA2
12-N20 Ø 2.0 mm for VMN-TS2 and VMN-TA2
12-N25 Ø 2.5 mm for VMN-TS2 and VMN-TA2

15-N25 Ø 2.5 mm for VMN-TS3 and VMN-TA3

18-N25 Ø 2.5 mm for VMN-TS4



Neuro Matchstick Diamond

Velocity Alpha®
single-use sterile

9-ND25 Ø 2.5 mm for VMN-TS1 and VMN-TA1
9-ND30 Ø 3.0 mm for VMN-TS1 and VMN-TA1
9-ND35 Ø 3.5 mm for VMN-TS1 and VMN-TA1
9-ND45 Ø 4.5 mm for VMN-TS1 and VMN-TA1

12-ND20 Ø 2.0 mm for VMN-TS2 and VMN-TA2
12-ND25 Ø 2.5 mm for VMN-TS2 and VMN-TA2
12-ND30 Ø 3.0 mm for VMN-TS2 and VMN-TA2
12-ND35 Ø 3.5 mm for VMN-TS2 and VMN-TA2
12-ND45 Ø 4.5 mm for VMN-TS2 and VMN-TA2

15-ND30 Ø 3.0 mm for VMN-TS3 and VMN-TA3

18-ND30 Ø 3.0 mm for VMN-TS4



Balltip / Kugel

Velocity Alpha®
single-use sterile

12-B20 Ø 2.0 mm for VMN-TS2 and VMN-TA2

15-B20 Ø 2.0 mm for VMN-TS3 and VMN-TA3
15-B30 Ø 3.0 mm for VMN-TS3 and VMN-TA3
15-B40 Ø 4.0 mm for VMN-TS3 and VMN-TA3



Diamond Ball

Velocity Alpha®
single-use sterile

12-B20D Ø 2.0 mm for VMN-TS2 and VMN-TA2
12-B30D Ø 3.0 mm for VMN-TS2 and VMN-TA2

15-B30D Ø 3.0 mm for VMN-TS3 and VMN-TA3
15-B40D Ø 4.0 mm for VMN-TS3 and VMN-TA3



Velocity Alpha® Micro Saws

Velocity Alpha® micro saws offer reliable performance for a wide variety of microsurgical, spinal, CMF and orthopedic procedures. Key features of the Velocity Alpha® micro saws are:

- > Minimal vibration
- > High cutting efficiency
- > Clean low pressure cutting
- > Integrated and adjustable irrigation
- > Long lifetime
- > Lightweight
- > Slim design
- > Fully compatible with Velocity® Alpha high speed motor and control unit

Velocity Alpha® Mikrosägen bieten zuverlässige Performance für Anwendungen in den Bereichen Mikrochirurgie, Wirbelsäulenchirurgie, MKG und Orthopädie.

- > Minimale Vibration
- > Hohe Schneidleistung
- > Saubere Schnitte bei minimalem Druck
- > Integrierte und verstellbare Spülung
- > Lange Lebensdauer
- > Geringes Gewicht
- > Schmale Bauform
- > Kompatibel mit Velocity Alpha® High Speed Motor und Steuereinheit

VMN-OS1

oscillating saw attachment
operating speed 40.000 rpm

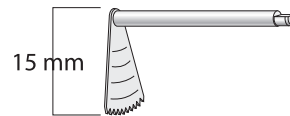
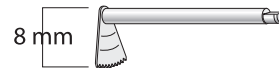
VMN-SS1

sagital saw attachment
operating speed 40.000 rpm

VMN-RS1

reciprocating saw attachment
operating speed 40.000 rpm

Velocity Alpha® Micro Saw Blades

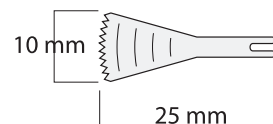
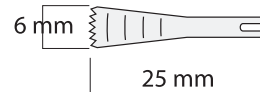


Oscillating Saw Blades

for VMN-OS1 saw attachment
1:1

1 pc. per package
single-use
sterile

VMN-O-8-S 8.0 mm saw blade
VMN-O-15-S 15.0 mm saw blade

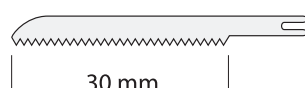
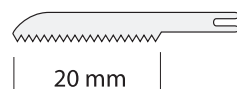


Sagittal Saw Blades

for VMN-SS1 saw attachment
1:1

1 pc. per package
single-use
sterile

VMN-S-6-S 6.0 mm saw blade
VMN-S-10-S 10.0 mm saw blade



Reciprocating Saw Blades

for VMN-RS1 saw attachment
1:1

1 pc. per package
single-use
sterile

VMN-R-15-S 15.0 mm saw blade
VMN-R-20-S 20.0 mm saw blade
VMN-R-30-S 30.0 mm saw blade

System Components / Systemkomponenten

Velocity Alpha® system components

Electric control unit high speed / Trepan 220V version	VAC220
Electric control unit high speed / Trepan 110V version	VAC110
Electric high speed motor, 80.000 rpm, integrated cable 3.5 m	VAM
Straight attachment extra short working length 22 mm	VMN-XS
Straight attachment short working length 40 mm	VMN-S1
Straight attachment medium working length 70 mm	VMN-S2
Straight attachment long working length 100 mm	VMN-S3
Angled attachment short working length 40 mm	VMN-A1
Angled attachment medium working length 70 mm	VMN-A2
Angled attachment long working length 100 mm	VMN-A3
Angled attachment XL working length 130 mm	VMN-A4
Angled attachment XXL working length 170 mm	VMN-A5
Angled attachment XXXL working length 220 mm	VMN-A6
Irrigation attachment working length 22 mm	VMN-IR-XS
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
Oscillating saw attachment	VMN-OS-1
Sagittal saw attachment	VMN-SS-1
Reciprocating saw attachment	VMN-RS-1

System Components / Systemkomponenten

Velocity Alpha® system components	
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
Craniotome head	VMCH-D
Speed reducer with hudson coupling, 1:64 ratio	VMT-102E
Foot control with integrated cable, 3 m	VAFC
Wireless foot control incl. dongle	VAFCBT
Irrigation tube set, 6 pcs. sterile	VMM-ITS-6
High speed oil spray, 12 x 500 ml	OS-100
Pana Spray Plus, oil spray, 1 x 10.5 oz (US market only)	Z182600
Custom made oil spray nozzle adapter, screw-on profile, reusable	OA-100
Transport & Storage Case suitable for air transport	TSC-VA
Sterilization Tray plastic, customized	PST-200
Sterilization Tray stainless steel, customized	PST-201
Cleaning adapter for 4 attachments	CA100
Base unit for minimally invasive attachments	VMN-C2
Minimally invasive attachment, short, straight, working length 70 mm	VMN-TS1
Minimally invasive attachment, medium, straight, working length 100 mm	VMN-TS2
Minimally invasive attachment, long, straight, working length 130 mm	VMN-TS3

System Components / Systemkomponenten

Velocity Alpha® system components

Minimally invasive attachment, extra long, straight, working length 160 mm	VMN-TS4
Minimally invasive attachment, short, curved, working length 70 mm	VMN-TA1
Minimally invasive attachment, medium, curved, working length 100 mm	VMN-TA2
Minimally invasive attachment, long, curved, working length 130 mm	VMN-TA3

SPARE PARTS

Bar for footswitch	VMME-FS-H
Irrigation stand	VMM-EC-S
Irrigation tube clip set 5 pcs.	VMM-CLIPS
Ceramic filter discs for CA100 cleaning adapter, 6 pcs.	64375

Technical Data / Technische Daten

	Velocity Alpha® EU Version 220 V	Velocity Alpha® US Version 110 V
Supply voltage	220 V	110 V
Permitted voltage fluctuation	± 10 %	± 10 %
Nominal current	0.3 - 0.8 A	0.3 - 1.6 A
Frequency	50 - 60 Hz	50 - 60 Hz
Mains fuse	2 x 250 V - T 1.6 AH	2 x 250 V - T 1.6 AH
Max. power consumption	170 VA	170 VA
Max. mechanical output power	80 W	80 W
Torque level	2.2 ... 88 Ncm	2.2 ... 88 Ncm
Motor speed range	1.000 - 80.000 rpm	1.000 - 80.000 rpm
Irrigation flow rate	25/50/75/100 ml/min	25/50/75/100 ml/min
Dimensions	262 x 291 x 99 mm	262 x 291 x 99 mm
Wireless standard	Bluetooth™ LE	Bluetooth™ LE
Protection class	II	II
Applied part	Type B	Type B
Integrated irrigation pump	yes	yes
Foot control / danger zone M / ANSI/AAMI	AP / IEC 60601-1	AP / IEC 60601-1
Water resistance of foot control / 1 m depth for 1 h	IPX8 / IEC 60529	IPX8 / IEC 60529
Pollution level	2	2
Overvoltage category	II	II
Max. altitude / above sea level	3.000 m	3.000 m
Batteries used with VAFCBT wireless foot control	Standard AA Mignon	Standard AA Mignon
Compatible with thermo washing machines and autoclavable < 135°C / 383°F (motor parts)	yes	yes
Noise level (motor only) acc. to ISO 11498	< 53 dBA	< 53 dBA

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