



ADENSYS
PRODUCT CATALOGUE.
2022/2023

► Designed to perform **better**

Home of dental components



The ADENSYS Story

Founded in 2012, ADENSYS is an engineering and manufacturing firm based in the small Alpen town of Triesen, in Liechtenstein. The company was founded by Frits Diepen and Helmut Gruber, both highly qualified development engineers and managers with many years of previous experience with medium-to-large dental firms situated in the surrounding area. ADENSYS has a branch office (ADENSYS GmbH) located in Buxheim, in southern Germany, and it is here that most assembly and production take place. Being situated between Austria, Switzerland, Germany and Italy, ADENSYS is in a unique position to take advantage of the substantial local competences in micro-machining and dental technology.

Our Passion

We have passion for all things dental. We have a huge amount of knowledge and experience related to the dental industry and we feel that our know-how can help you better understand your products and your customer. We want to work with you, our customers and suppliers, to help develop your business. We believe that we can succeed only if you succeed.



Helmut Gruber
ADENSYS founder



Frits Diepen
ADENSYS founder

Section 1

Parts for contra-angle/
attachment handpieces



Section 2

Parts for high-speed
turbine/handpieces



Section 3

Complete product overview

Section 4

Additional information

About this book.

This catalogue is designed to present all of the products that are currently available from ADENSYS.

Our products are aimed at professionals that are involved in the repair of dental handpieces and, given this, we understand that different people need different points of reference when searching for parts. For this reason, we have presented our products in two ways:

i) by handpiece model and

ii) as collections by category.

We hope this will make it convenient to find the needed parts. Below, you will find some information about the different sections of this catalogue.

On the cover page of each section, you will find a table of contents to help you navigate through the pages.

Please note that you can order all products in this catalog at **www.adensys.net**.

All default prices at our website are street (i.e. dentist) prices. If you are a dental handpiece repair professional, please contact us by e-mail at **info@adensys.net** to see if you qualify for a wholesale discount on our listed prices.

About this book.

Model Pages

Sections 1 and 2 of this catalogue show details of the parts available per individual handpiece model. Please see the explanation below to understand how the information on these pages should be interpreted or understood.

If anything is unclear here, we encourage you to contact us at info@adensys.net so that we can evaluate any possible changes or improvements.

Indicates bearings

Active Section

Part navigation

Guarantee
see terms and conditions
at adensys.net

Reference page

OEM / REF number

Article number

Attachment Handpieces

High-Speed Handpieces

KaVo MASTERmatic Lux M25L

Spare Parts			
Head gear/cartridge			1
74	A10091.0	1.011.0129	Head Rotor /Cartridge 12 months guarantee
83	A10821.0	1.010.9766	Front (bur side) bearing, cartridge
83	A10822.0	1.010.9767	Rear (cap side) bearing, cartridge
Back cap			2
94	A11030.0	1.009.3634	crown cap + spring + button
Intermediate shaft			3
76	A10450.0	1.001.3515	Intermediate shaft 12 months guarantee
82	A10464.0	1.001.2834	Rear and front bearing, int. shaft
79	A10620.0		5-pack of front gear (head side), int. shaft 3.1
79	A10676.0		5-pack of rear gear (motor side), int. shaft 3.2
Idler shaft			4
76	A10080.0	1.001.3519	Idler shaft 12 months guarantee
83	A10781.0		Double-row bearing for idler shaft 4.1
Light guide			5
89	A10685.0	1.001.3320	Glass rod

About this book.

Bearing pages

All individual ADENSYS parts are listed in section 3 of this catalogue. As we describe in Section 4, ball bearings are complex products themselves and can have many mechanical properties that need to be specified. Please see the guide below as to how ADENSYS bearings are described.

In an effort be transparent about our suppliers for our available bearing sizes, we have indicated the exact manufacturer for our Made-in-Germany bearings. Given our location in Germany and our positioning as a high-quality manufacturer, we try to use the highest-quality premium bearings in all of our applications. We do realize, however, that economics do play a critical role in many repair decisions, so we also offer a more competitively-priced alternative for some of our bearing models. In the explanation chart below, you will see that we have indicated the bearing manufacturer for the German-sourced products.

Article Number

Ball material		Contact		Cage		Shield		Special	
CE	Ceramic	RC	Radial (DGBB)	TC	Torlon	AS	Assembled shield	ST	Stepped OR
SS	Stainless steel	AC	Angular-contact (ACBB)	PH	Phenolic	IS	Integral shield	FL	Flange
						NS	None (open)	XI	Extended IR


Dimensions in mm

German manufacturer

Country of manufacturing

Bearings

Bearings for contra-angle / attachment handpieces



A10325.0


CE, RC, TC, AS

ID: 4,000

OD: 7,000

W: 2,00

Germany



A10326.0


CE, RC, TC, AS, XI

ID: 3,175

OD: 6,350

W: 1.90/2.70

Germany



A10335.0


CE, RC, TC, AS

ID: 3,175

OD: 7,000

W: 2,00

Germany



A10336.0


CE, RC, TC, AS

ID: 3,175


OD: 6,000

W: 2,00


Germany




myonic



myonic



myonic



myonic

Attachment Handpieces

ces

6

About this book.

Glossary

We use standard nomenclature to describe many of the product types and mechanical properties described in this book, and we know that there are often different expressions used for these things around the world. For this reason, please see the following definitions:

High-speed handpieces	All air-driven or turbine handpieces, which turn a turbine-style rotor to deliver torque to the cutting element/bur
Attachment handpieces	All motor-driven handpieces, which feature an e-type attachment or coupling (see more information on the e-type attachment below). These handpieces are often known as “contraangles” because of the bend in the middle of the handpiece-style rotor to deliver torque to the cutting element/bur
Head gear rotor	Found in the head housing of attachment handpieces, this is the rotor assembly that holds the bur or cutting instrument. This assembly is sometimes also referred to as “cartridge”.
Intermediate shaft	Found in the neck of attachment handpieces, this rotor typically consists of a long shaft and will mesh with the head gear rotor.
Complete Turbine	Found in the head housing of high-speed handpieces, this is the rotor assembly that holds the bur or cutting instrument.
Combo	A sub-assembly, which consists of a spindle and impeller. This product is dynamically balanced prior to delivery. Fitting bearings can be assembled on this product to create a complete turbine.
Premium turbines	Within our selection of complete turbines, these products are assembled with top-of-the-Line bearings, equivalent to those used by the original equipment manufacturer (OEM).
Standard turbines	Within our selection of complete turbines, these products are assembled with superior-quality ceramic bearings, usually from Japanese manufacturers
Ceramic bearing	This term refers to the fact that we use bearings with ceramic balls. The outer ring and inner ring are made from stainless steel. You will find more information on bearings in section 4 of this book.
e-type connection	Describes the standard connection between typical electric or air motors for dental application. The connection properties are described in the norm ISO 3964
REF number	Wherever “REF” is indicated in this book, it denotes the article number from the original manufacturer of the handpiece or medical device. Please note that ADENSYS products will never be a 100% copy of the original product, but it is 100% compatible

Parts for **Attachment Handpieces.**

On the following pages you will find for different manufacturers and their contra-angle handpieces all suitable spare parts for a complete repair.

KaVo MASTERmatic Lux M25L	10
KaVo MASTERmatic Lux M05L	11
KaVo GENTLEpower 25LP/25LPA/25LPR	12
KaVo EXPERTmatic E25L/E25C	13
KaVo INTRAmatic 25LH/25LHA/25LHN/25 LHC	14
KaVo INTRA LUX 68LH/L68/68LD head	15
Sirona T1 Line C200L (Z13 Ø8.7)	16
Midwest E Plus	16
B.A.International BA200LTS	16
Sirona T1 Line C200L (Z13 Ø9.7)	17
Sirona T1 Line C40 (Ø9.7)	18
Bien Air 1.5(L)	19
NSK Ti-Max Z95(L)	20
NSK Ti-Max X95(L)	21
NSK S-Max M95(L)	22
WH Synea WA-99 LT/A head ø10.0 mm / 3-port spray (old)	23
WH Synea WA-99 LT/A head ø 9.6mm / 5-port spray (new)	23
WH Synea Fusion WG-99 A/LT	24
WH Vision WK-99 LT/LT S	24

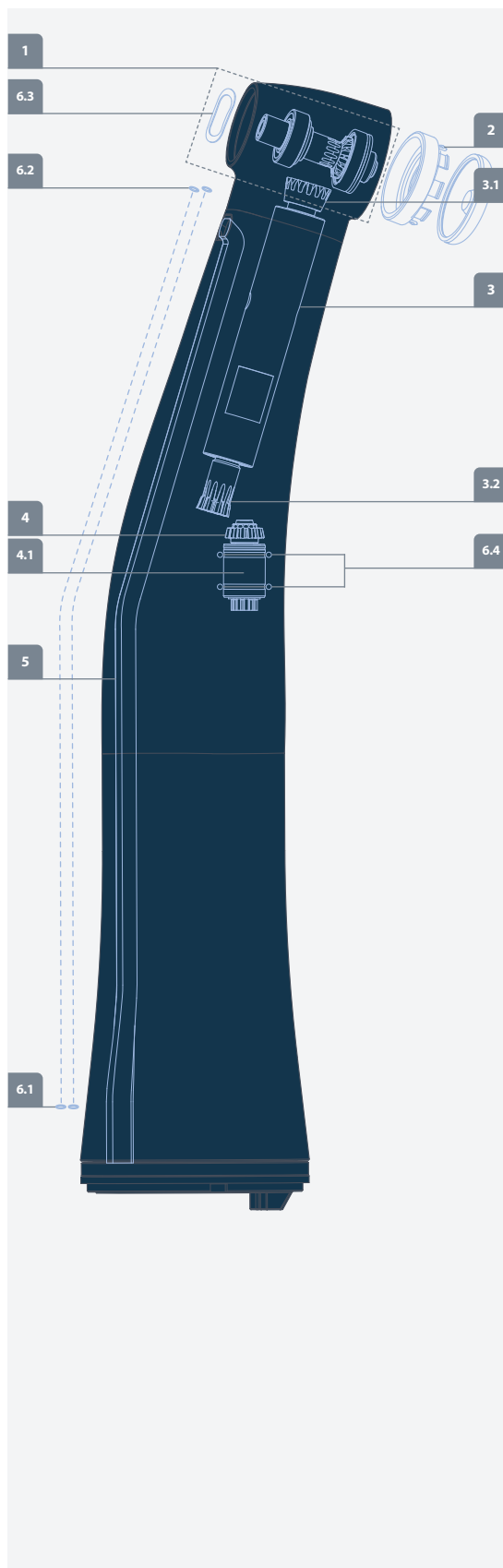


KaVo MASTERmatic Lux M25L

Attachment Handpieces

High-Speed Handpieces


All Products



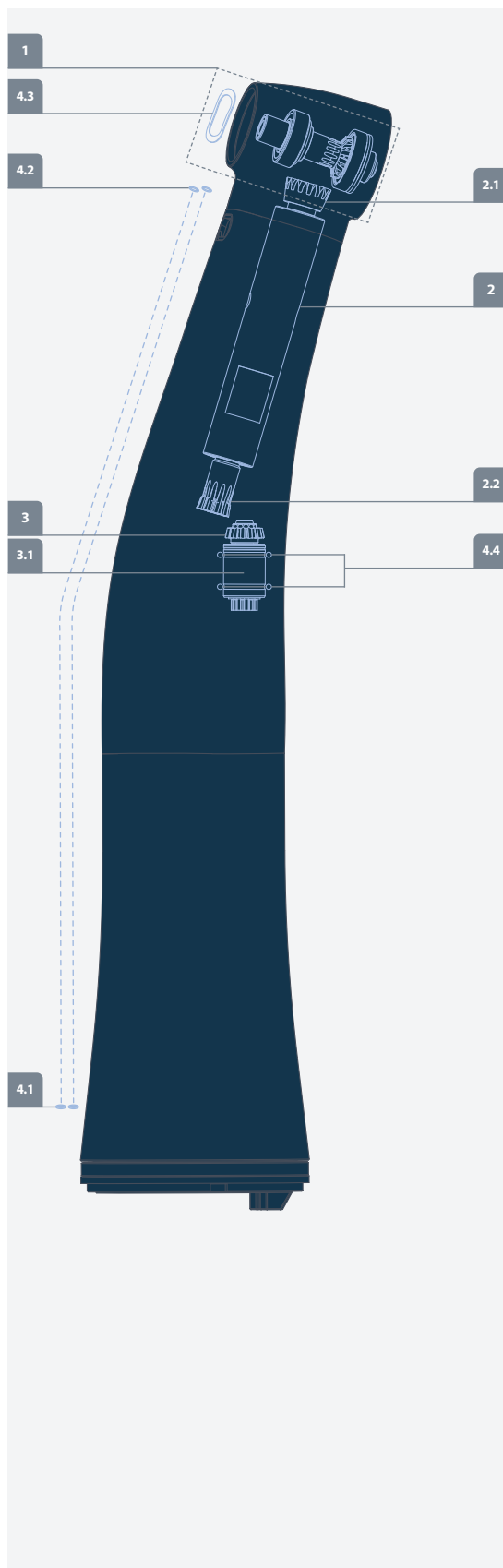
Spare Parts

				Head gear/cartridge	1
78	A10091.0	1.011.0129	Head Rotor /Cartridge	12 months guarantee	
87	A10821.0	1.010.9766	Front (bur side) bearing, cartridge		
87	A10822.0	1.010.9767	Rear (cap side) bearing, cartridge		
				Back cap	2
10	A11030.0	1.009.3634	crown cap + spring + button		
				Intermediate shaft	3
80	A10450.0	1.001.3515	Intermediate shaft	12 months guarantee	
86	A10464.0	1.001.2834	Rear and front bearing, int. shaft		
83	A10620.0		5-pack of front gear (head side), int. shaft		3.1
83	A10676.0		5-pack of rear gear (motor side), int. shaft		3.2
				Idler shaft	4
80	A10080.0	1.001.3519	Idler shaft	12 months guarantee	
87	A10781.0		Double-row bearing for idler shaft		4.1
				Light guide	5
93	A10685.0	1.001.3320	Glass rod		
				O-Rings/Washers/Misc.	6
89	A10797.0	1.003.4929	10-pack of o-rings for spray tube, rear side		6.1
88	A10799.0	1.001.3289	10-pack of o-rings for spray tube, head side		6.2
91	A10824.0	1.009.3643	10-pack of wave washers		6.3
89	A10800.0	0.200.6045	10-pack o-rings for idler shaft		6.4
				Bundles	
81	A10565.0		Drive kit (cartridge + int. shaft)	12 months guarantee	
81	A10566.0		Complete gear set (cartridge + int. shaft + idler shaft)	12 months guarantee	

Tools

			
95	A10909.0		Back cap key
97	A10905.0		Jig to facilitate head assembly removal

KaVo MASTERmatic Lux M05L



Spare Parts



Head gear/cartridge

1

78	A10093.0	1.011.1374	Head Rotor /Cartridge	12 months guarantee
87	A10821.0	1.010.9766	Front (bur side) bearing, cartridge	
87	A10822.0	1.010.9767	Rear (cap side) bearing, cartridge	



Intermediate shaft

2

80	A10573.0	1.011.3206	Intermediate shaft	12 months guarantee
86	A10464.0	1.001.2834	Rear and front bearing, int. shaft	
83	A10620.0		5-pack of front gear (head side), int. shaft	2.1
83	A10676.0		5-pack of rear gear (motor side), int. shaft	2.2



Idler shaft

3

80	A10080.0	1.001.3519	Idler shaft	12 months guarantee
87	A10781.0		Double-row bearing for idler shaft	3.1



O-Rings/Washers/Misc.

4

89	A10797.0	1.003.4929	10-pack of o-rings for spray tube, rear side	4.1
88	A10799.0	1.001.3289	10-pack of o-rings for spray tube, head side	4.2
91	A10824.0	1.009.3643	10-pack of wave washers	4.3
89	A10800.0	0.200.6045	10-pack o-rings for idler shaft	4.4



Bundles

81	A10574.0		Drive kit (cartridge + int. shaft)	12 months guarantee
81	A10575.0		Complete gear set (cartridge + int. shaft + idler shaft)	12 months guarantee

Tools



97	A10905.0		Jig to facilitate head assembly removal
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Attachment Handpieces

High-Speed Handpieces

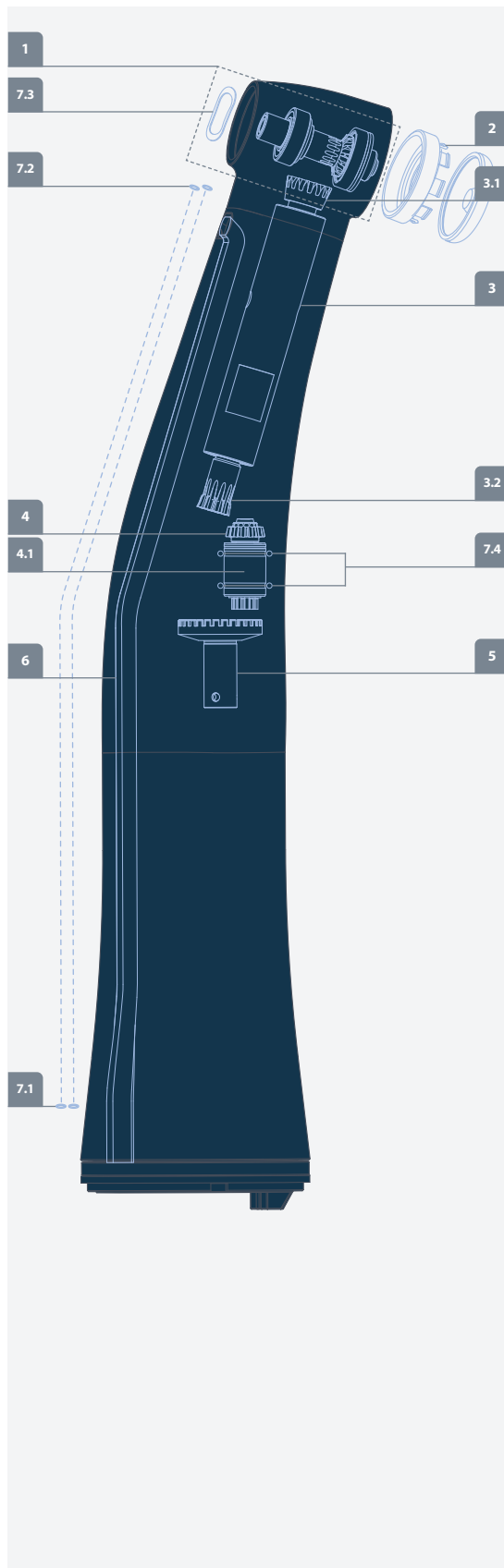
All Products

KaVo GENTLEpower 25LP/25LPA/25LPR

Attachment Handpieces

High-Speed Handpieces


All Products



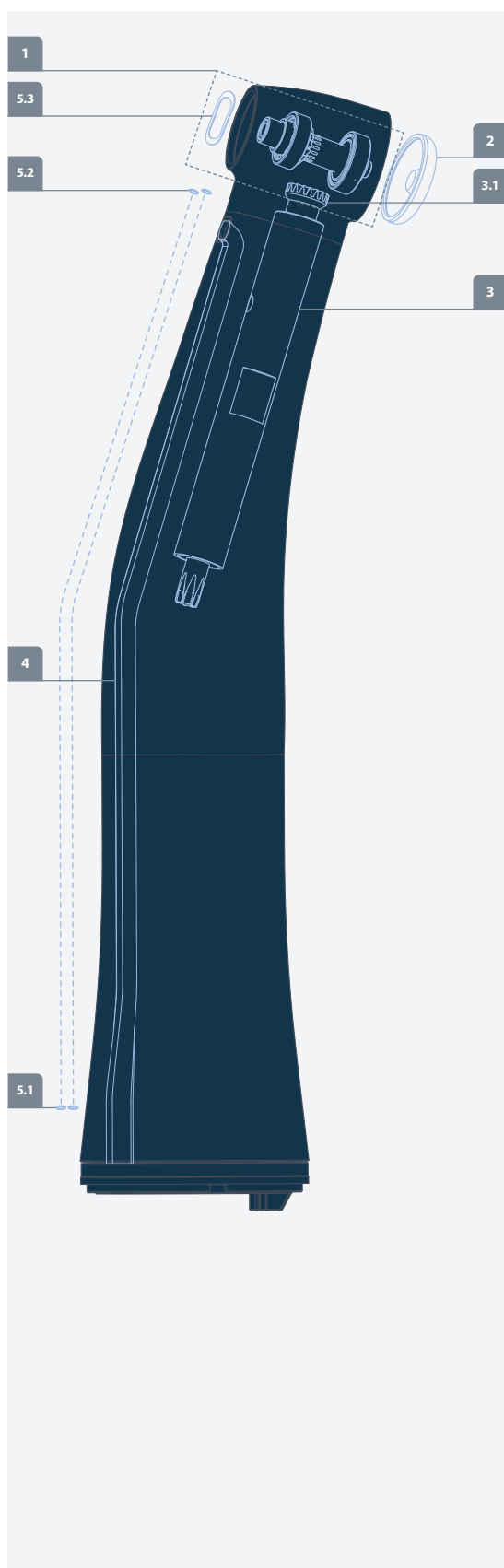
Spare Parts

				Head gear/cartridge	1
78	A10014.0	1.001.3520	Head Rotor/Cartridge	12 months guarantee	
86	A10326.0	1.001.3167	Front (bur side) bearing, cartridge		
86	A10325.0	1.001.2836	Rear (cap side) bearing, cartridge		
				Back cap	2
99	A11029.0	1.001.3284	Crown cap + spring + button		
				Intermediate shaft	3
80	A10450.0	1.001.3515	Intermediate shaft	12 months guarantee	
86	A10464.0	1.001.2834	Rear and front bearing, int. shaft		
83	A10620.0		5-pack of front gear (head side), int. shaft		3.1
83	A10676.0		5-pack of rear gear (motor side), int. shaft		3.2
				Idler shaft	4
80	A10080.0	1.001.3519	Idler shaft	12 months guarantee	
87	A10781.0		Double-row bearing for idler shaft		 4.1
				Dog gear	5
12	A10918.0		Dog gear		
				Light guide	6
93	A10685.0	1.001.3320	Glass rod		
				O-rings/Washers/Misc.	7
88	A10797.0	1.003.4929	10-pack of o-rings for spray tube, rear side		7.1
88	A10799.0	1.001.3289	10-pack of o-rings for spray tube, head side		7.2
91	A10347.0	1.001.2987	10-pack of wavewashers for KaVo contra-angle		7.3
89	A10800.0	0.200.6045	10-pack o-rings for idler shaft		7.4
				Bundles	
81	A10463.0		Drive kit (cartridge + int. shaft)	12 months guarantee	
81	A10550.0	1.006.2965	Complete gear set (cartridge + int. shaft + idler shaft)	12 months guarantee	

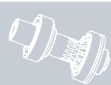
Tools

			
95	A10730.0		Crown cap key
12	A10903.0		Jig to facilitate head assembly removal

KaVo EXPERTmatic E25L/E25C



Spare Parts



Head gear/cartridge

1

78	A10018.0	1.008.4040	Head Rotor/Cartridge	12 months guarantee
87	A10667.0	1.008.4038	Front (bur side) bearing, cartridge	
86	A10666.0	1.008.4039	Rear (cap side) bearing, cartridge	



Back cap

2

98	A10742.0	1.008.1488	Back cap	
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Intermediate shaft

3

80	A10446.0	1.007.9916	Intermediate shaft	12 months guarantee
86	A10464.0	1.001.2834	Front (head side) bearing, int. shaft	
86	A10663.0	0.220.0730	Rear (motor side) bearing, int. shaft	
83	A10823.0		5-pack of front gear (head side), int. shaft	3.1



Light guide

4

93	A10687.0	1.009.4943	Glass rod	
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O-Rings/Washers/Misc.

5

88	A10797.0	1.003.4929	10-pack of o-rings for spray tube, rear side	5.1
88	A10799.0	1.001.3289	10-pack of o-rings for spray tube, head side	5.2
91	A10347.0	1.001.2987	10-pack of KaVo contra-angle wave washers	5.3



Bundles

81	A10576.0		Drive kit (cartridge + int. shaft)	12 months guarantee
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Tools



97	A10904.0		Jig to facilitate head assembly removal	
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Attachment Handpieces

High-Speed Handpieces

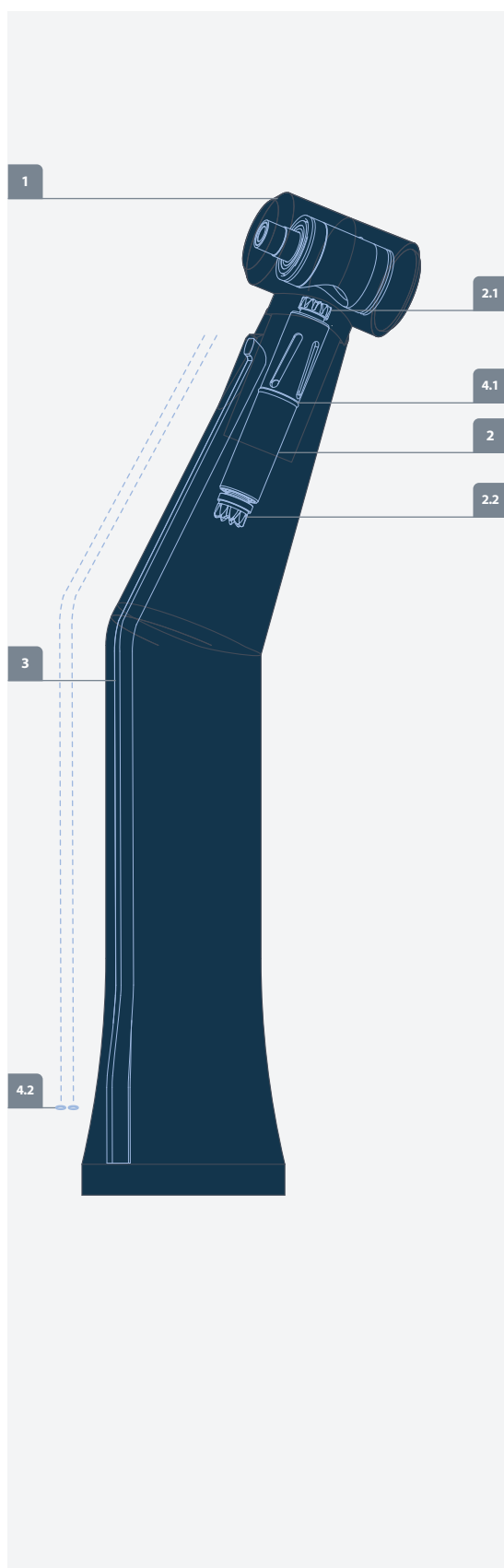
All Products

KaVo INTRAmatic 25LH/25LHA/25LHN/25LHC

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts

Head gear/cartridge				1
				
78	A10015.0	0.553.7341	Head Rotor/Cartridge	12 months guarantee
86	A10325.0	1.001.2836	Front and rear bearing, cartridge	
Intermediate shaft				2
				
80	A10490.0	0.553.7201	Intermediate shaft	12 months guarantee
86	A10663.0	0.220.0730	Rear and front bearing, int. shaft	
83	A10675.0		5-pack of front gear (head side), int. shaft	2.1
83	A10677.0		5-pack of rear gear (motor side), int. shaft	2.2
Light guide				3
				
93	A10686.0	0.553.0283	Glass rod	
O-rings/Washers/Misc.				4
				
89	A10800.0	0.200.6045	10-pack o-rings for intermediate shaft	4.1
89	A10798.0	0.200.6099	10-pack o-rings for spray tube, rear side	4.2
Bundles				
				
81	A10519.0		Drive kit (cartridge + int. shaft)	12 months guarantee
81	A10525.0	1.006.2969	Complete gear set (cartridge + int. shaft + idler shaft)	12 months guarantee

KaVo INTRA LUX 68LH/L68/68LD head



Spare Parts



Complete head assemblies

1

79	A10657.0	0.540.2040	Complete head assembly KaVo 68LH/L68
79	A10656.0	0.540.2010	Complete head assembly KaVo 68LD



Head gear/cartridge

2

79	A10546.0	0.540.3661	Head rotor / cartridge	6 months guarantee
86	A10371.0	0.220.0051	Front (bur side) bearing, cartridge	
86	A10372.0	0.220.2005	Rear (cap side) bearing, cartridge	



Intermediate shaft

3

80	A10680.0	0.540.1151	Intermediate shaft	6 months guarantee
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Light guide

4

93	A10739.0	0.534.0092	Glass rod for KaVo 7H/20H/29H/2068LHC/2080LHC handpiece body
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Attachment Handpieces

High-Speed Handpieces

All Products

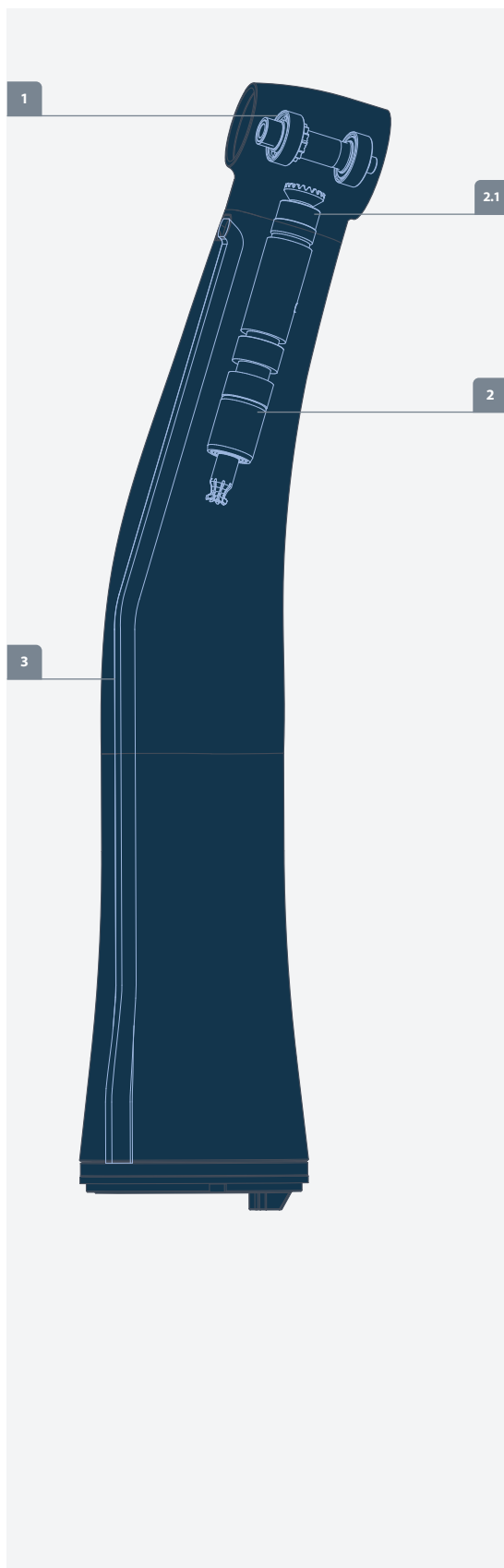
Sirona T1 Line C200L (Z13 Ø8.7)

Midwest E Plus, B.A.International BA200LTS








Attachment Handpieces

High-Speed Handpieces

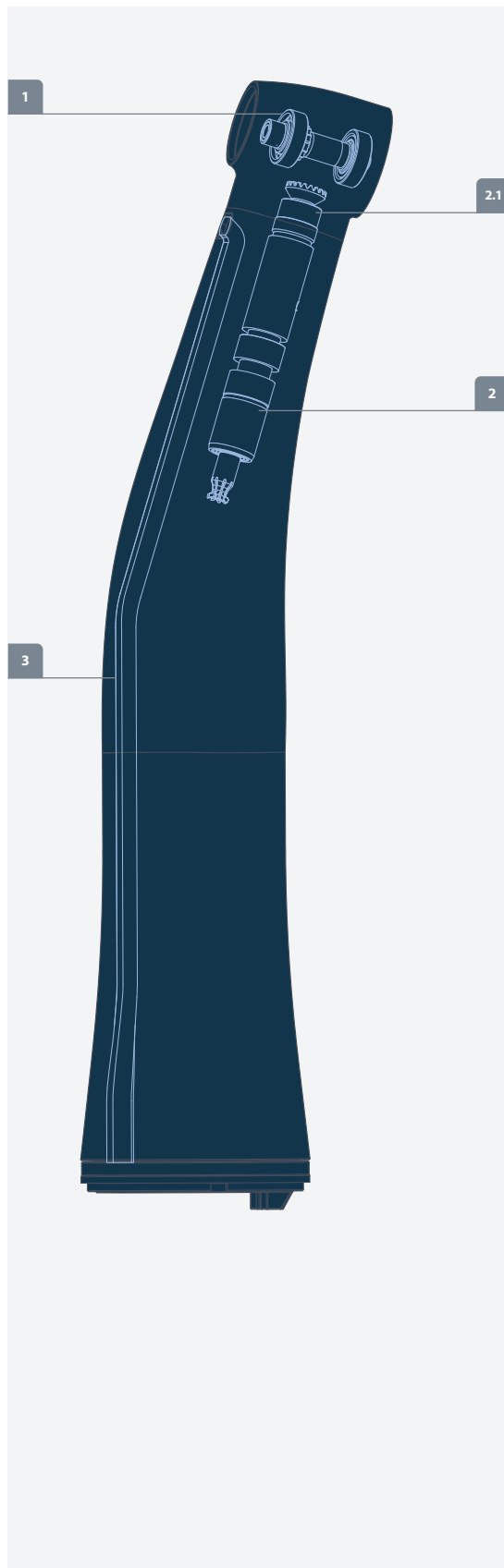
All Products



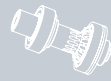
Spare Parts

Head gear/cartridge				1
				
78	A10090.0	64 14 457	Head Rotor/Cartridge	12 months guarantee
86	A10336.0	58 99 863	Front and rear bearing, cartridge	
Intermediate shaft				2
				
80	A10582.0	61 75 603	Intermediate shaft	12 months guarantee
83	A10920.0		5-pack set of front gears for int. shaft	2.1
87	A10925.0		Rear and front bearing, int. shaft	
Light guide				3
				
93	A10713.0	63 69 511	Glass rod	
Bundles				
				
81	A10929.0		Drive kit (cartridge + int. shaft)	12 months guarantee
Tools				
				
97	A10891.0		Jig to hold head assembly during intermediate shaft assembly / dis-assembly	

Sirona T1 Line C200L (Z13 Ø9.7)



Spare Parts



Head gear/cartridge

1

78

A10016.0

61 75 587

Head Rotor/Cartridge

12 months guarantee

86

A10335.0

58 90 855

Front and rear bearing, cartridge



Intermediate shaft

2

80

A10582.0

61 75 603

Intermediate shaft

12 months guarantee

83

A10920.0

5-pack set of front gears for int. shaft

2.1

87

A10925.0

Rear and front bearing, int. shaft



Light guide

3

93

A10713.0

63 69 511

Glass rod



Bundles

82

A10930.0

Drive kit (cartridge + int. shaft)

12 months guarantee

Tools



97

A10891.0

Jig to hold head assembly during intermediate shaft assembly / dis-assembly

Attachment Handpieces

High-Speed Handpieces

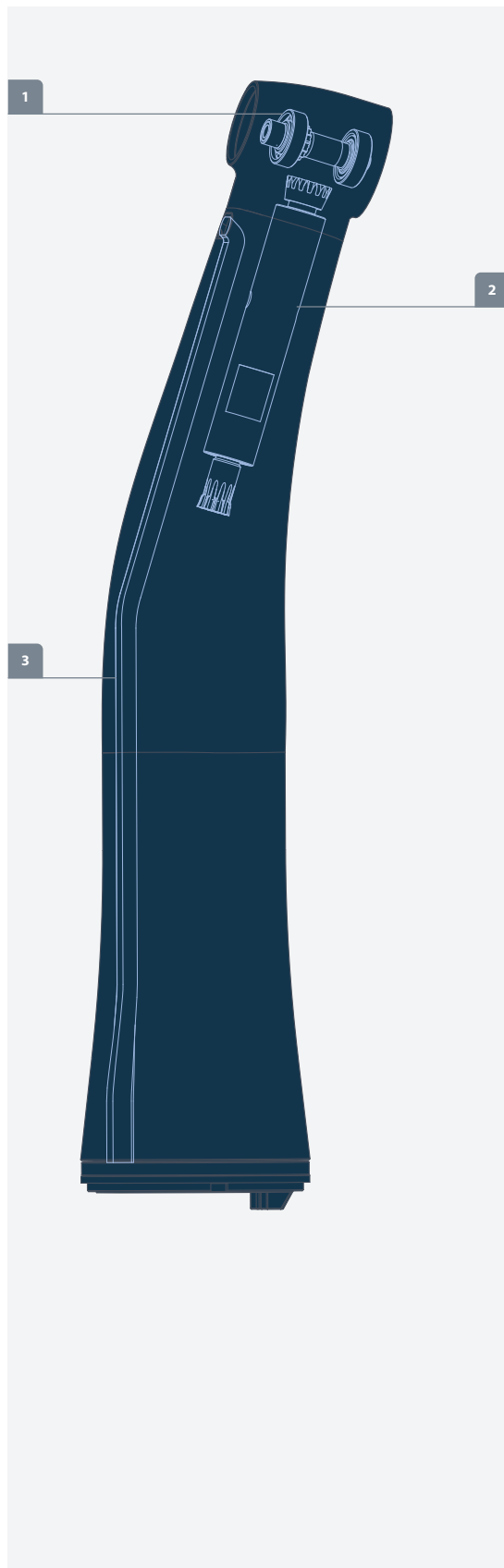
All Products

Sirona T1 Line C40 / C40L, T2 Line A40L / E40






Attachment Handpieces

High-Speed Handpieces

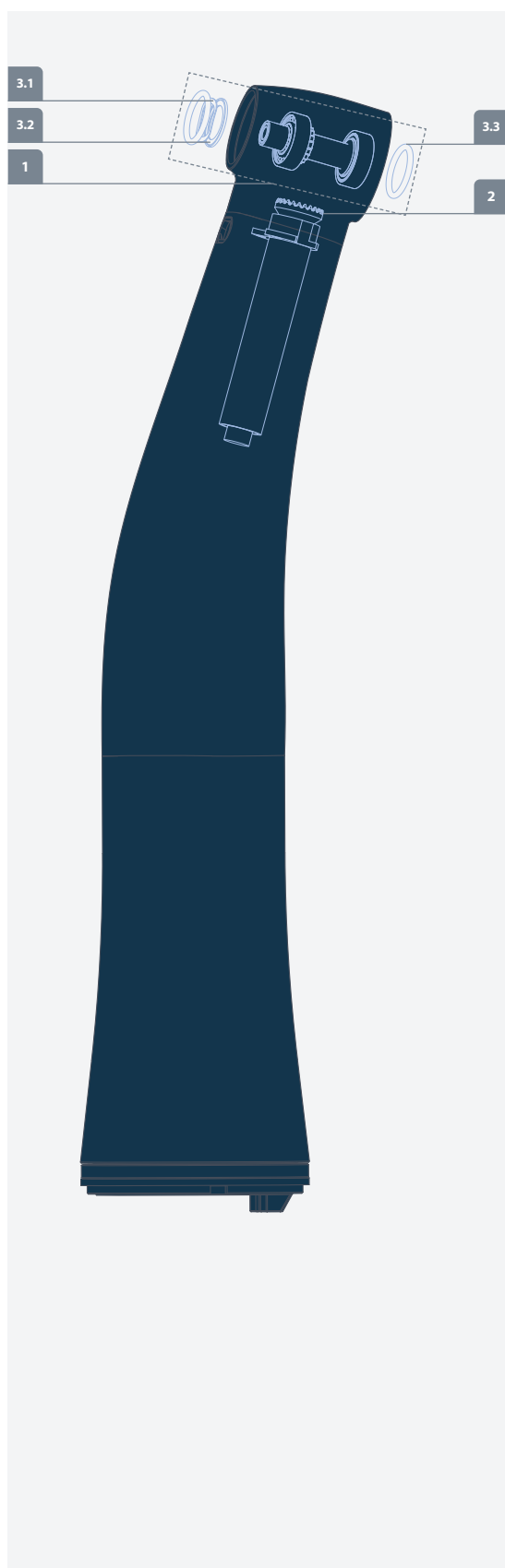
All Products



Spare Parts

Spare Parts				
 Head gear/cartridge				1
79	A10554.1	60 00 983	Head Rotor / Cartridge	6 months guarantee
86	A10335.0		Front (bur side) bearing, cartridge	
86	A10372.0		Rear (cap side) bearing, cartridge	
 Intermediate shaft				2
80	A10883.0	60 00 959	OEM Intermediate Shaft	
 Light guide				3
93	A10713.0	63 69 511	Glass rod	

Bien Air 1.5(L)



Spare Parts



Head gear/cartridge

1

78	A10017.0	150 1933	Head Rotor/Cartridge	12 months guarantee
86	A10621.0		Front and rear bearing, cartridge	



Intermediate shaft

2

83	A10673.0		5-pack of front gear (head side), int. shaft	
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O-Rings/Washers/Misc.

3

91	A10274.0	130 0598	10-pack set of wave washers	3.1
92	A10652.0		10-pack of distance washer	3.2
88	A10653.0	130 0445	10-pack of o-rings	3.3
91	A10733.0		10-pack of wave washer and distance washer	3.4

Tools



96	A10678.0		Removal tool for front gear of intermediate shaft	
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Information

Please note that the ADENSYS wave washer and distance washer are needed for the correct functioning of the ADENSYS rotor. Please do not mix an original Bien cartridge with ADENSYS washers, or vice-versa.

Attachment Handpieces

High-Speed Handpieces

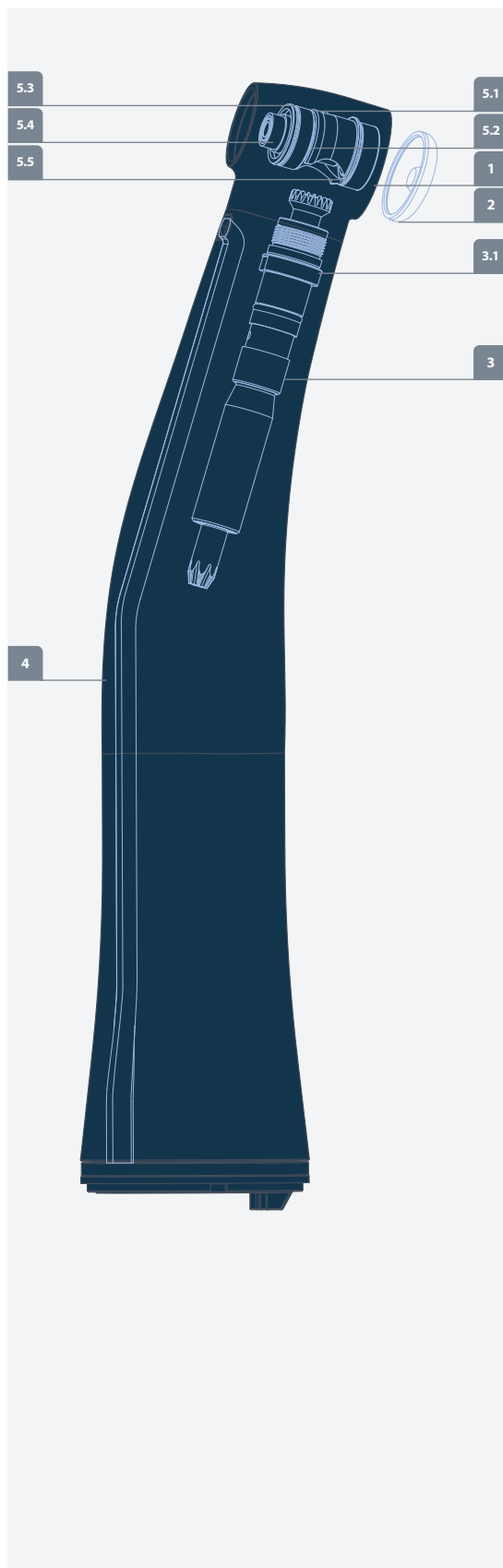
All Products

NSK Ti-Max Z95(L)

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Head gear/cartridge

1

78	A10092.0	C1034017	Head Rotor/Cartridge "new version"	12 months guarantee
87	A10834.0	E250HSC	Front (bur side) bearing, cartridge	
86	A10621.0		Rear (cap side) bearing, cartridge	



Back cap

2

99	A10881.0	C1034052	Back cap for new version (4.0 x 7.0 x 2.0mm cap-side bearing)	
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Intermediate shaft

3

87	A10765.0	C1034022001	Rear and front bearing, int. shaft	
83	A10907.0		5-pack set of front gears for int. shaft	3.1
87	A10765.0		Radial bearing, intermediate shaft	



Light guide

4

94	A10784.0		Glass rod	
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O-rings/Washers/Misc.

5

88	A10745.0		10-pack O-rings slinger washer	5.1
92	A10895.0		5-pack slinger bushing	5.2
92	A10896.0		5-pack slinger washer	5.3
91	A10347.0		10-pack wave washer	5.4
89	A10897.0		Slinger/washer set for Z95L	5.5



Bundles

78	A10882.0		Cartridge kit (cartridge + back cap) - needed for repair of older cartridge version	12 months guarantee
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Tools

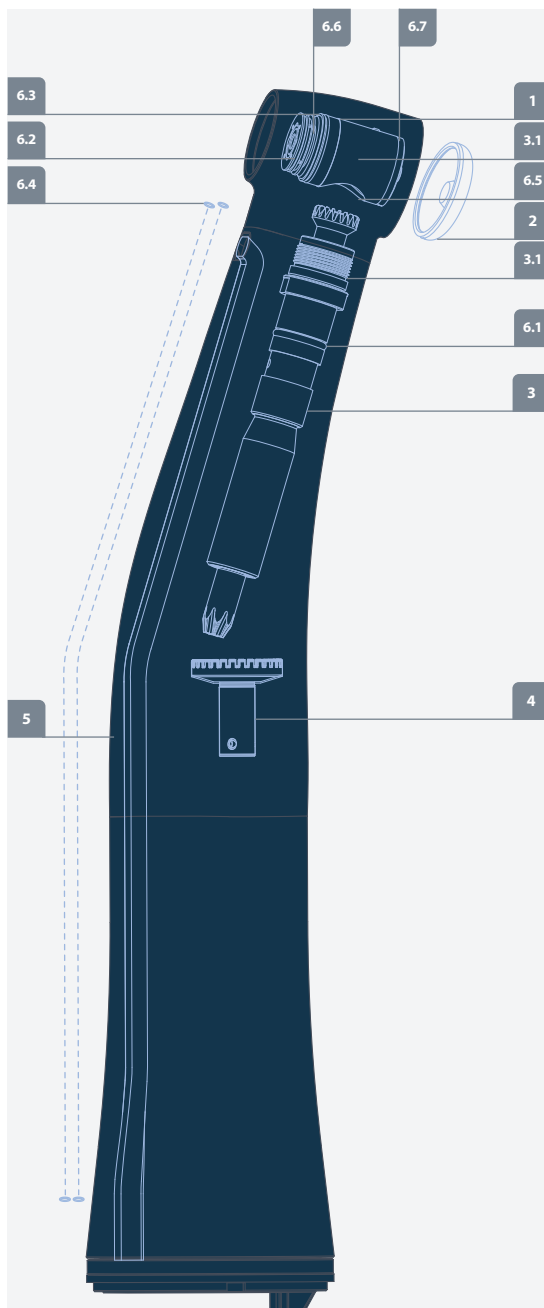


97	A10901.0		Tool for front bearing / slinger removal	
96	A10891.0		Jig to hold head assembly during intermediate shaft assembly / dis-assembly	

NSK Ti-Max X95(L)

Information


Please note that the front gears in A10770.0 only fit on original NSK intermediate shafts for the X95L. The ADENSYS intermediate shaft has a different design and A10770.0 will not fit on the ADENSYS intermediate shaft (A10448.0)



Spare Parts

Head gear/cartridge				1
	78	A10019.0	600C015001 Head Rotor/Cartridge	12 months guarantee
	86	A10621.0	Front and rear bearing, cartridge	
Back cap				2
	98	A10917.0	C600B050 Back cap X95(L) [OEM part]	
Intermediate shaft				3
	80	A10448.0	C600C022A001 Intermediate shaft	12 months guarantee
	83	A10770.0	5-pack set of front gears for int. shaft	3.1
	87	A10765.0	Radial bearing, intermediate shaft	
Dog gear				4
	82	A10764.0	Dog gear	
Light guide				5
	94	A10785.0	C600266 Glass rod	
O-rings/Washers/Misc.				6
	88	A10763.0	0312040080 10-pack O-ring for intermediate shaft	6.1
	88	A10745.0	0312040080 10-pack O-ring d 4.9 x 0.3 mm	6.2
	88	A10746.0	0312069030 10-pack O-ring d 6.9 x 0.3 mm	6.3
	89	A10766.0	C427064 2-pack of gaskets for spray tube, head side	6.4
	91	A10893.0	10-pack wave washer	6.5
	92	A10894.0	5-pack slinger washer	6.6
	92	A10895.0	5-pack slinger bushing	6.7

Bundles

	81	A10564.0	Drive kit (cartridge + int. shaft)	12 months guarantee
	81	A10774.0	Complete gear set (head gear + int. shaft + dog gear)	12 months guarantee
	81	A10771.0	Head cartridge + 1 pc front gear int. shaft	12 months guarantee

Tools

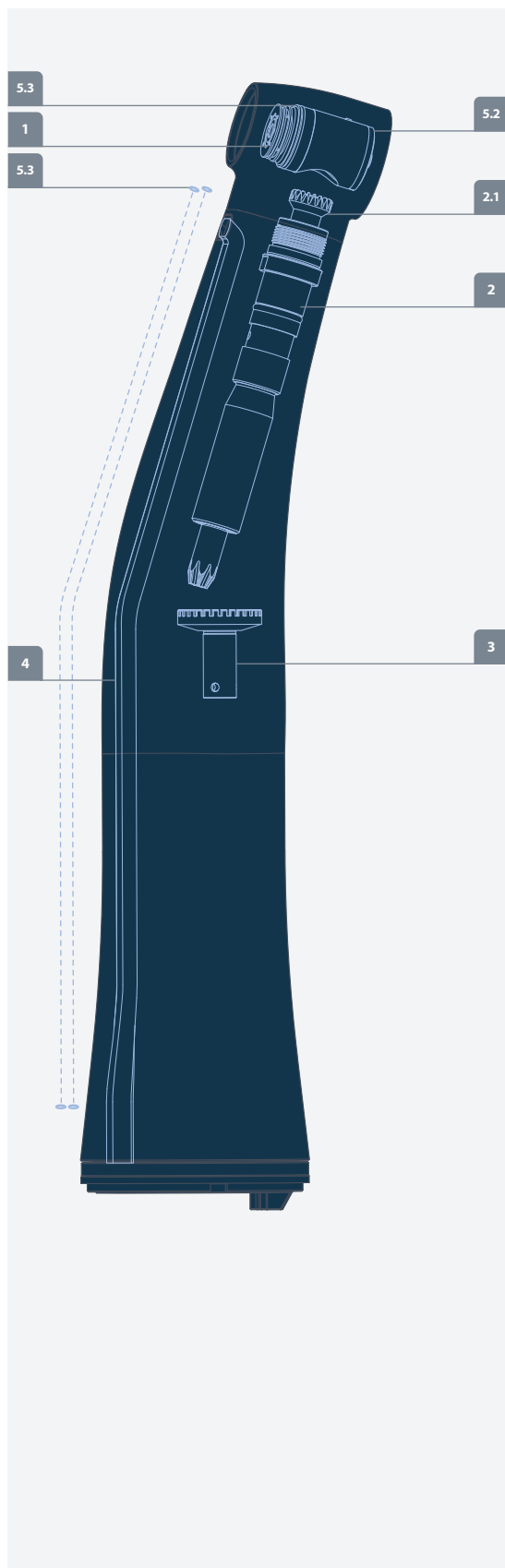
	96	A10898.0	Tool for o-ring assembly inside canister
	21	A10899.0	Tool for rear bearing removal
	97	A10901.0	Tool for front bearing / slinger removal
	95	A10928.0	Jig for canister removal
	96	A10891.0	Jig to hold head assembly during intermediate shaft assembly / dis-assembly

NSK S-Max M95(L)

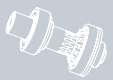
Attachment Handpieces


High-Speed Handpieces


All Products





Spare Parts

			Head gear/cartridge	1
78	A10019.0	600C015001	Head Rotor/Cartridge	12 months guarantee
86	A10621.0		Front and rear bearing, cartridge	

			Intermediate shaft	2
83	A10770.0		5-pack set of front gears for int. shaft	2.1
87	A10765.0		Radial bearing	


			Dog gear	3
82	A10764.0		Dog gear	

			Light guide	4
94	A10785.0	C600266	Glass rod	

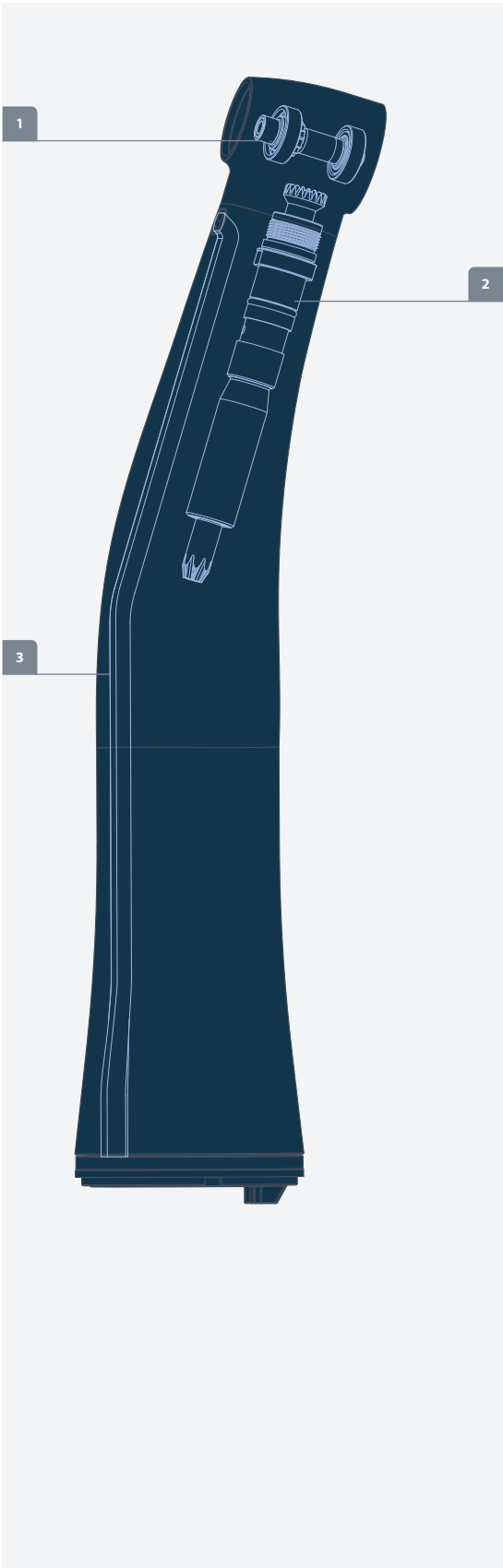
			O-Rings/Washers/Misc.	5
88	A10745.0	0312049030	10-pack O-ring d 4.9 x 0.3 mm	5.1
88	A10746.0	0312069030	10-pack O-ring d 6.9 x 0.3 mm	5.2
89	A10766.0		2-pack of gaskets for spray tube, head side	5.3

			Bundles	
81	A10771.0		Head cartridge + 1 pc front gear int. shaft	12 months guarantee

Tools

				
96	A10898.0		Tool for o-ring assembly inside canister	
21	A10899.0		Tool for rear bearing removal	
97	A10901.0		Tool for front bearing / slinger removal	
95	A10928.0		Jig for canister removal	
96	A10891.0		Jig to hold head assembly during intermediate shaft assembly / dis-assembly	

WH Synea WA-99 LT/A head ø10.0 mm / 3-port spray (old)
WH Synea WA-99 LT/A head ø 9.6mm / 5-port spray (new)



Spare Parts				
Head gear/cartridge				1
				
78	A10852.1	05 22 0300	Head Rotor/Cartridge, WA-99 5-port spray (new)	12 months guarantee
78	A10853.0	04 51 7200	Head Rotor/Cartridge, WA-99 3-port spray (old)	12 months guarantee
86	A10325.0	04 48 6000	Front and rear bearing, cartridge WA-99 (old)	
87	A10926.0		Front and rear bearing, cartridge WA-99 (new)	
Intermediate shaft				2
				
80	A10884.0	06 42 0900	Intermediate shaft, WA-99 5-port spray (new) [OEM part]	
80	A10885.0	03 81 6000	Intermediate shaft, WA-99 3-port spray (old) [OEM part]	
Light guide				3
				
94	A10684.0	04 05 8500	Glass rod	
Bundles				
				
81	A10886.0		Drive kit (cartridge + OEM int. shaft) for WH WA-99 5-port spray (new)	12 months guarantee
81	A10887.0		Drive kit (cartridge + OEM int. shaft) for WH WA-99 3-port spray (old)	12 months guarantee

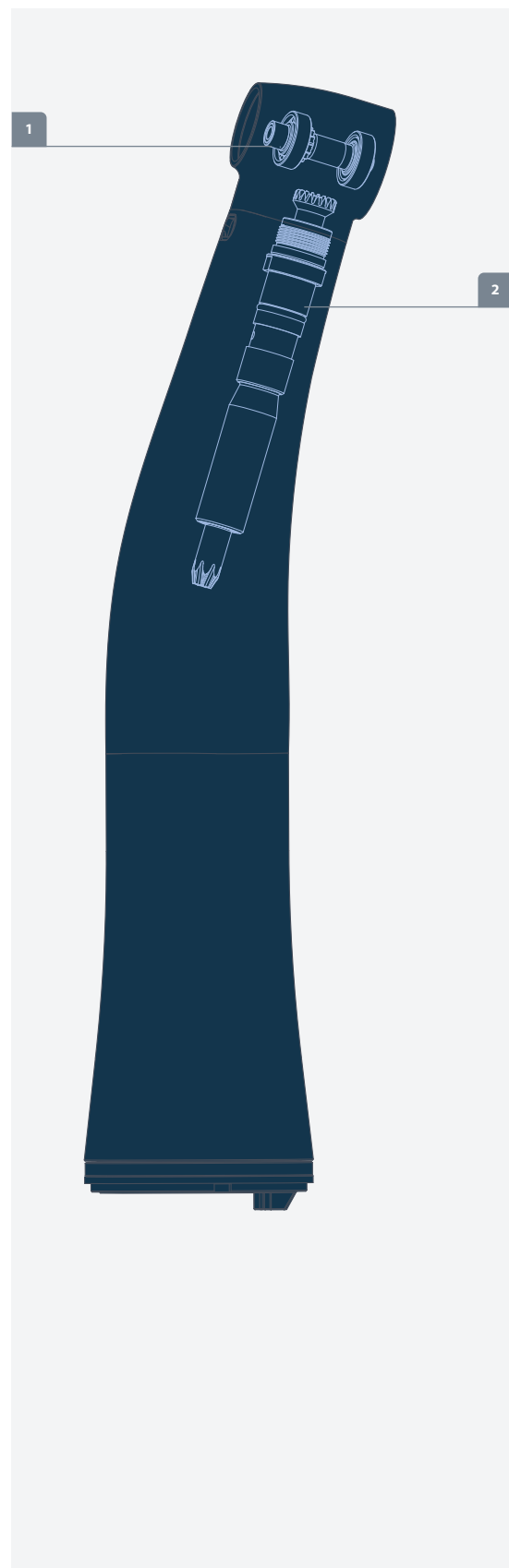
WH Synea Fusion WG-99 A/LT

WH Vision WK-99 LT/LT S

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Head gear/cartridge

1

78	A10902.0	06 99 3900	Head Rotor/Cartridge	12 months guarantee
87	A10902.0	07 47 3400	Head Rotor/Cartridge	12 months guarantee
87	A10926.0	05 25 7200	Front and rear bearing, cartridge	



Intermediate shaft

2

A10931.0	06 57 9200	Intermediate shaft [OEM part]	12 months guarantee
A10884.0	06 42 0900	Intermediate shaft [OEM part]	12 months guarantee



Bundles

A10932.0		Drive kit (cartridge + OEM int. shaft)	12 months guarantee
A10933.0		Drive kit (cartridge + OEM int. shaft)	12 months guarantee

Information

Please note that spare part specifications for this model depend on the serial number and exact type:

Model	S/N	Head rotor	Int. Shaft	Drive kit
WG-99	A >001819	A10902.0	A10931.0	A10932.0
WG-99	LT >007802	A10902.0	A10884.0	A10933.0
WK-99	LT >001001	A10902.0	A10931.0	A10932.0
WK-99 L	T S >001001	A10902.0	A10931.0	A10932.0

A wave washer and o-ring would be shipped with WH REF 07 47 3400.
The ADENSYS rotor A10902.0 is delivered without these.

Parts for High-Speed Handpieces.

On the following pages you will find for different manufacturers and their turbines all suitable spare parts for a complete repair.

KaVo SUPERtorque 625/630/640	28	NSK Ti-Max X500 (NL9000M in the US)	68
KaVo SUPERtorque 647/649	29	NSK Ti-Max X600 (NL9000 in the US)	69
KaVo SUPERtorque 650	30	NSK Ti-Max X700 (NL9000T in the US)	70
KaVo SUPERtorque 655/660	31	Bien Air Bora	71
KaVo SMARTtorque S609/S619	32	Bien Air Black Pearl	72
KaVo SMARTtorque S609/S619	32	Bien Air Tornado	73
KaVo SMARTtorque S609/S619	32	Bien Air Prestige S30-S32	74
KaVo SMARTtorque Mini S605/S615	33		
KaVo SMARTtorque Mini S605/S615	33		
KaVo SMARTtorque Mini S605/S615	33		
KaVo GENTLEforce 7000	34		
KaVo GENTLEforce 6000	35		
KaVo GENTLEsilence 8000/6500 BR	36		
KaVo GENTLEsilence 6500	37		
KaVo GENTLEmini 4500/5000	38		
KaVo MASTERtorque M9000/M8900	39		
KaVo MASTERtorque Mini M8700	40		
KaVo BELLAtorque 637/Mira Lux 635	41		
KaVo BELLAtorque 639/642/645	42		
KaVo EXPERTtorque E679 L/E680 L	43		
KaVo EXPERTtorque Mini E675 L/E677 L	44		
KaVo COMPACTtorque 636	45		
KaVo POWERtorque 646	45		
Star 430/Solara	46		
Midwest Tradition TB/TL/Pro TBL/Pro TLF	47		
Midwest Tradition Push Button	48		
Midwest Tradition Lever	49		
Midwest Stylus Lite 360/361	50		
Midwest Quiet Air Lever	51		
WH Synea TA 98 (L)	52		
WH Synea TA 98 LED	53		
WH Synea TA 97 LED	54		
WH Fusion TG 98/Synea TA 98 CLED/ Vision TK-98	55		
WH Vision TK-100	56		
WH Alegria TE 98(L)	57		
Sirona T2/T3 Racer	58		
Sirona T1 Control TC3	59		
Sirona T1 Control CS (SN > 600 000, < 800 000)	60		
Sirona T2 Control / T1 Control (SN > 502.000)	61		
Sirona T2/T3 Boost (SN > 600 000, < 700 000)	62		
Sirona T2/T3 Boost CBM (SN > 700 000, < 800 000)	63		
Sirona SiroBoost	64		
NSK Ti-Max Z800	65		
NSK Ti-Max Z900	66		
NSK S-Max M600	67		

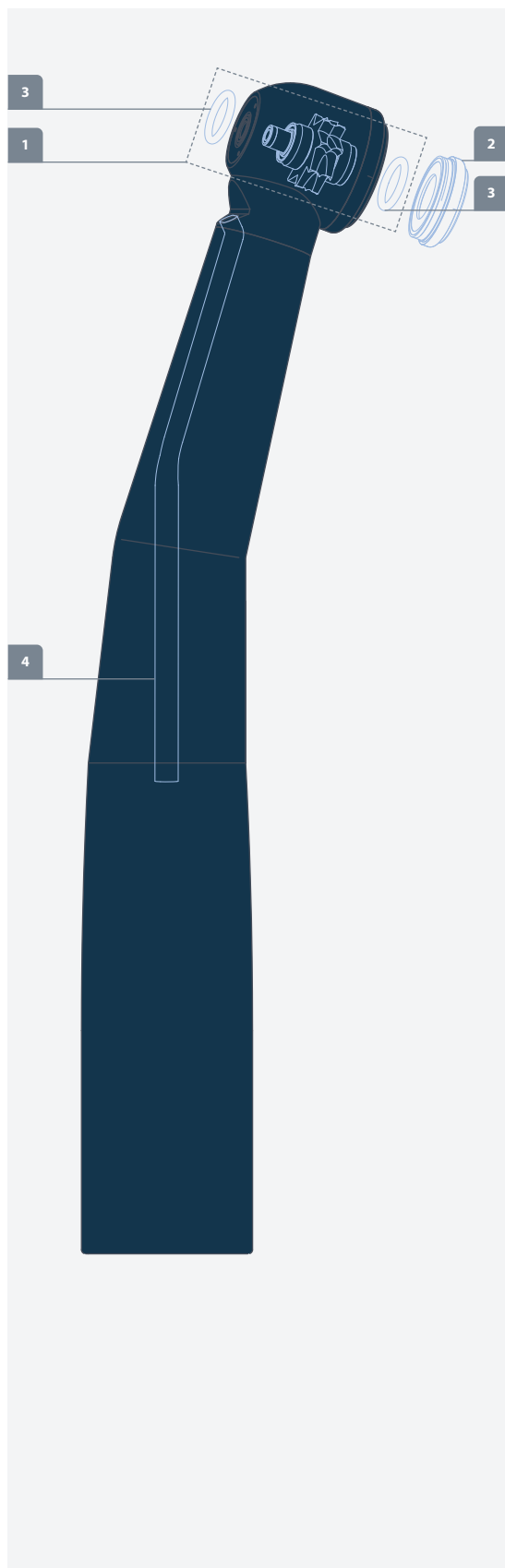


KaVo SUPERtorque 625/630/640

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Complete rotor/Turbine

1

100	A10250.0	0.553.5881	premium Rotor/Turbine	12 months guarantee
100	A10250.1	0.553.5881	Rotor/Turbine	12 months guarantee
108	A10226.0		Combo	12 months guarantee
84	A10282.0	0.220.0125	Radial ceramic bearing	
85	A10485.0	0.220.0125	Angular-contact ceramic bearing	



Back cap

2

98	A11013.0	0.553.6511	Back cap for KaVo 625/630/640
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O-rings/Washers/Misc.

3

88	A10271.0	0.200.6172	10-pack set of o-rings
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Light guide

4

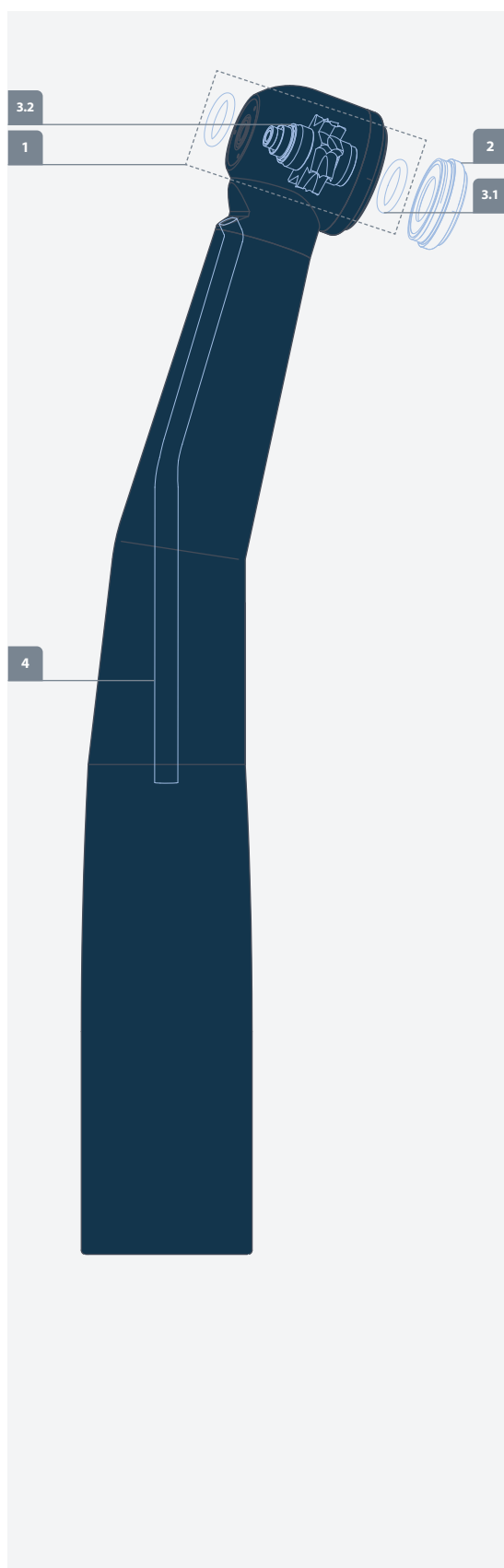
93	A10709.0	0.553.6601	Glass rod
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Tools



94	A10655.0		Back cap key
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KaVo SUPERtorque 647/649



Spare Parts



Complete rotor/Turbine

1

101	A10300.0	0.553.6821	premium Rotor/Turbine	12 months guarantee
101	A10300.1	0.553.6821	Rotor/Turbine	12 months guarantee
108	A10226.0		Combo	12 months guarantee
84	A10282.0	0.553.6821	Radial ceramic bearing	
85	A10485.0	0.553.6821	Angular-contact ceramic bearing	



Back cap

2

98	A11016.0	0.553.8061	Back cap	
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O-rings/Washers/Misc.

3

88	A10271.0	0.200.6172	10-pack set of o-rings	3.1
92	A10329.0		Slinger	3.2



Light guide

4

93	A10710.0	0.200.6172	Glass rod	
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Tools



94	A10655.0		Back cap key	
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Attachment Handpieces

High-Speed Handpieces

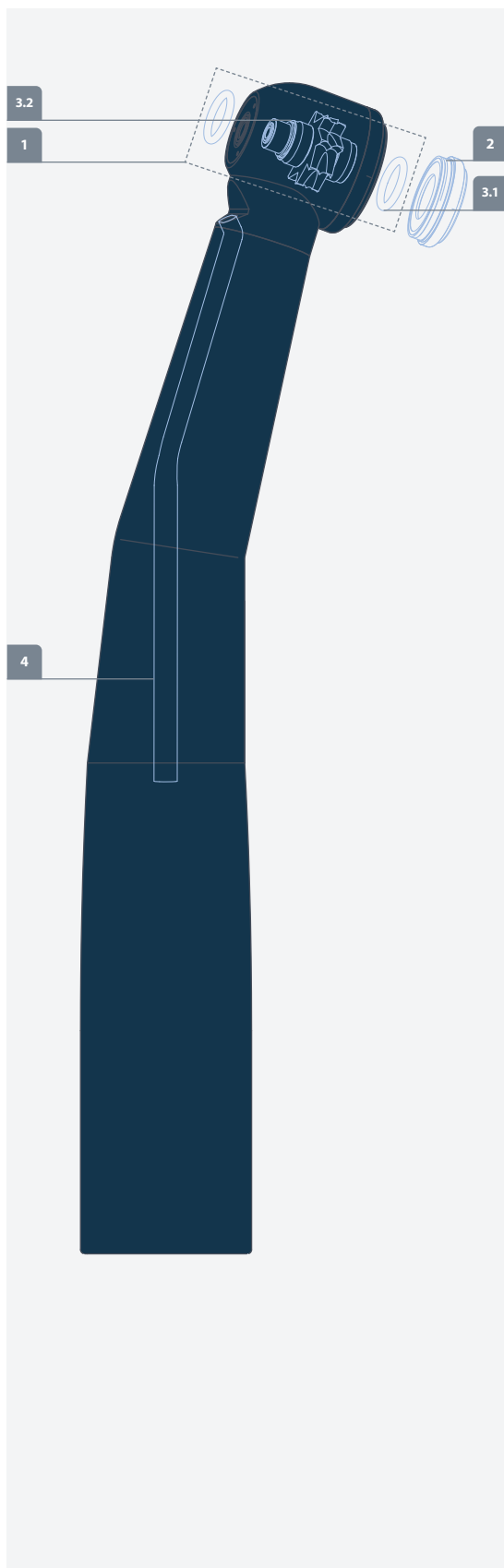
All Products

KaVo SUPERtorque 650

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts

Complete rotor/Turbine					1
100	A10251.0	0.553.8051	premium Rotor/Turbine	12 months guarantee	
100	A10251.1	0.553.8051	Rotor/Turbine	12 months guarantee	
108	A10226.0		Combo	12 months guarantee	
84	A10282.0	0.220.0125	Radial ceramic bearing		
85	A10485.0	0.220.0125	Angular-contact ceramic bearing		

Back cap					2
98	A11016.0	0.553.8061	Back cap		

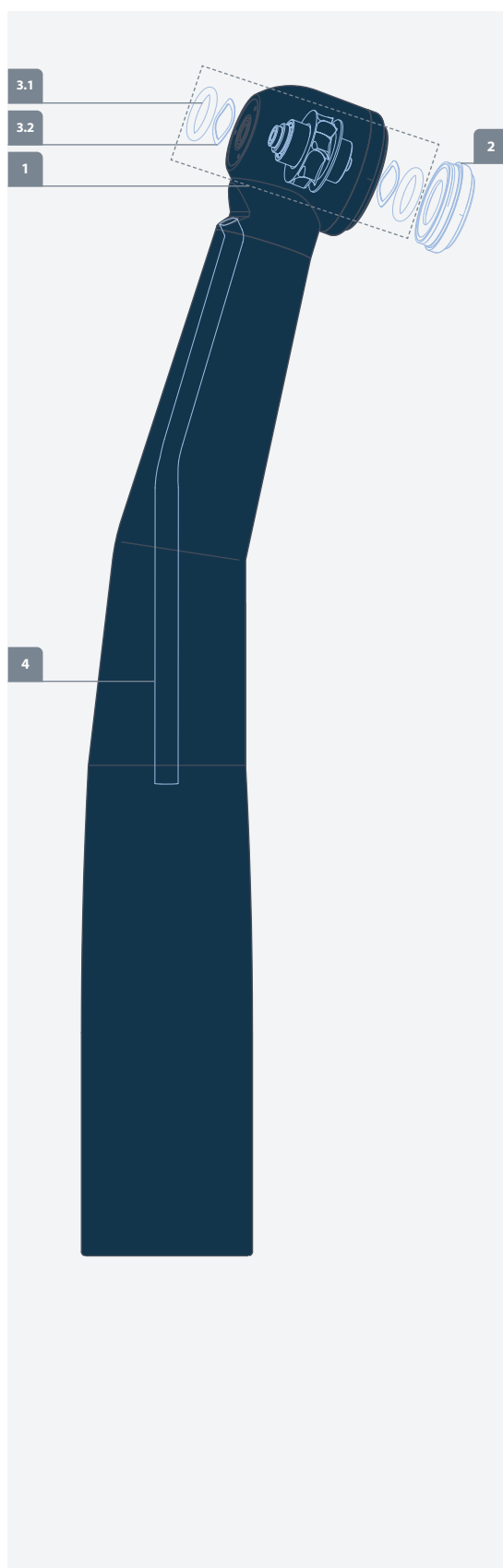
O-rings/Washers/Misc.					3
88	A10271.0	0.200.6172	10-pack set of o-rings		3.1
92	A10316.0		Slinger		3.2

Light guide					4
93	A10711.0	0.553.8482	Glass rod		

Tools

94	A10654.0		Back cap Key		

KaVo SUPERtorque 655/660



Spare Parts

Complete rotor/Turbine				1
100	A10252.0	1.000.2078	premium Rotor/Turbine	12 months guarantee
100	A10252.1	1.000.2078	Rotor/Turbine	12 months guarantee
108	A10228.0		Combo	12 months guarantee
84	A10288.2	1.000.7980	Radial ceramic bearing	
85	A10465.1	1.000.7980	Angular-contact ceramic bearing	

Back cap				2
98	A11018.0	1.000.2076	Back cap	

O-rings/Washers/Misc.				3
88	A10271.0	0.200.6172	10-pack set of o-rings	3.1
91	A10274.0	1.001.5032	10-pack set of wave washers	3.2

Light guide				4
93	A10711.0	0.553.8482	Glass rod	

Tools

94	A10654.0		Back cap Key	

Attachment Handpieces

High-Speed Handpieces

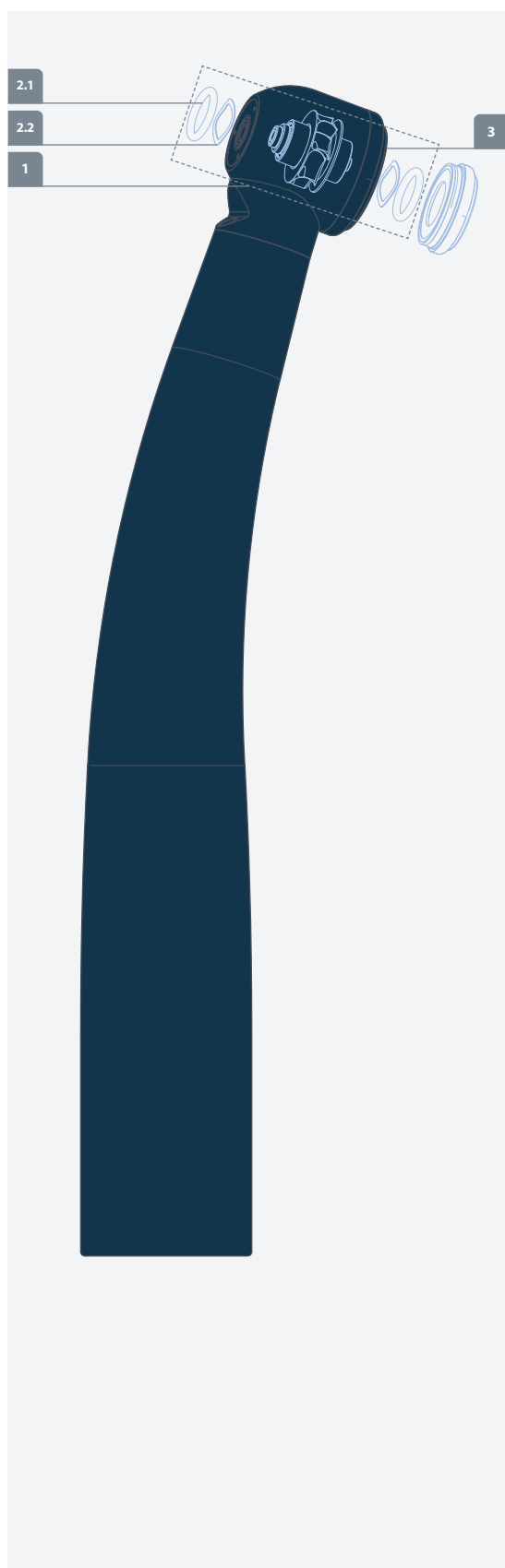
All Products

KaVo SMARTorque S609/S619

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Complete rotor/Turbine

1

101	A10845.1	1.008.4163	Rotor/Turbine	12 months guarantee
108	A10863.0		Combo	12 months guarantee
84	A10288.2	0.220.0125	Radial ceramic bearing	
85	A10465.1	0.220.0125	Angular-contact ceramic bearing	



O-rings/Washers/Misc.

2

88	A10271.0	0.200.6172	10-pack set of o-rings	2.1
91	A10274.0	1.003.5900	10-pack set of wave washers	2.2

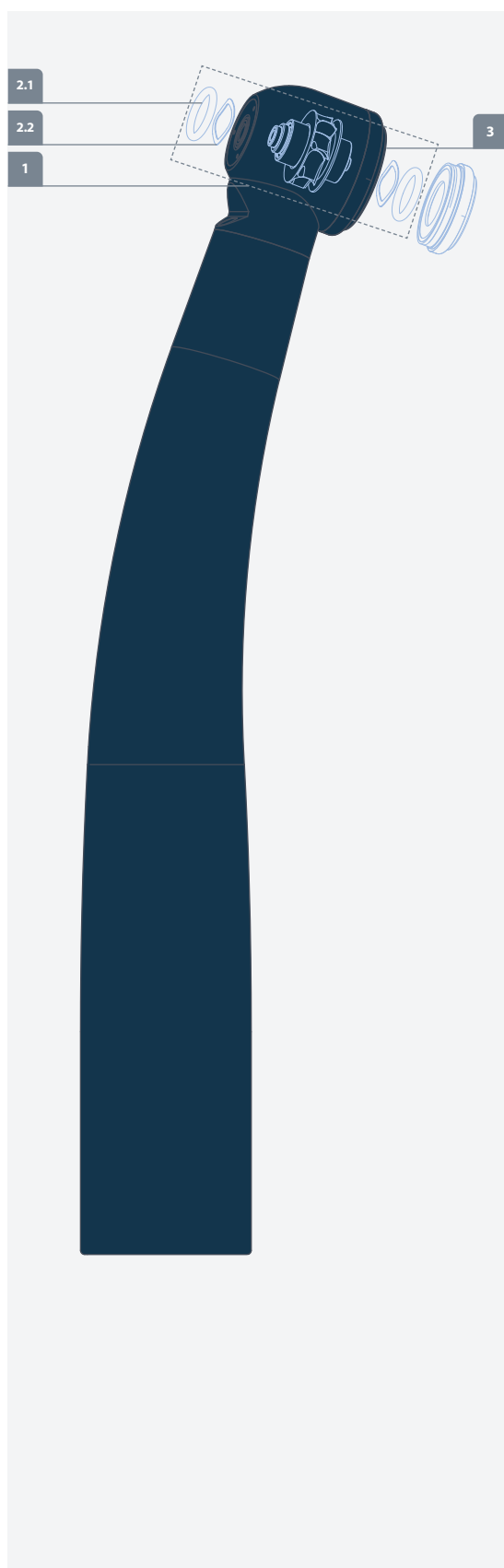



O-rings/Washers/Misc.

3

96	A10783.0	1.000.4823	Water filter KaVo	
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KaVo SMARTtorque Mini S605/S615



Spare Parts				
 Complete rotor/Turbine				1
102	A10844.1	1.008.4164	Rotor/Turbine	12 months guarantee
108	A10862.0		Combo	12 months guarantee
84	A10288.2	0.220.0125	Radial ceramic bearing	
85	A10465.1	0.220.0125	Angular-contact ceramic bearing	
 O-rings/Washers/Misc.				2
88	A10271.0	0.200.6172	10-pack set of o-rings	2.1
91	A10274.0	1.003.5900	10-pack set of wave washers	2.2
 O-rings/Washers/Misc.				3
96	A10783.0	1.000.4823	Water filter KaVo	

Attachment Handpieces

High-Speed Handpieces

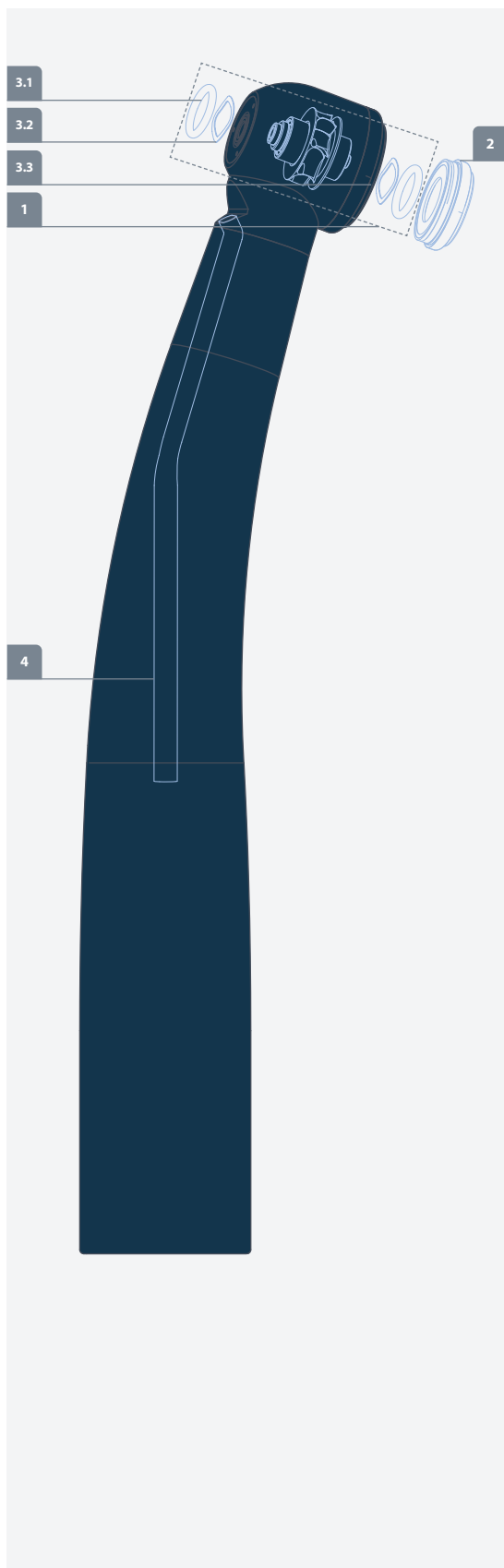
All Products

KaVo GENTLEforce 7000

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Complete rotor/Turbine

1

100	A10253.0	1.000.4772	premium Rotor/Turbine	12 months guarantee
100	A10253.1	1.000.4772	Rotor/Turbine	12 months guarantee
108	A10229.0		Combo	12 months guarantee
84	A10288.0	1.000.4772	Radial ceramic bearing	
85	A10465.1	1.000.4772	Angular-contact ceramic bearing	



Back cap

2

98	A11018.0	1.000.4770	Back cap
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O-rings/Washers/Misc.

3

88	A10271.0	0.200.6172	10-pack set of o-rings	3.1
91	A10274.0	1.001.5032	10-pack set of wave washers	3.2
96	A10783.0	1.000.4823	Water filter KaVo	3.3



Light guide

4

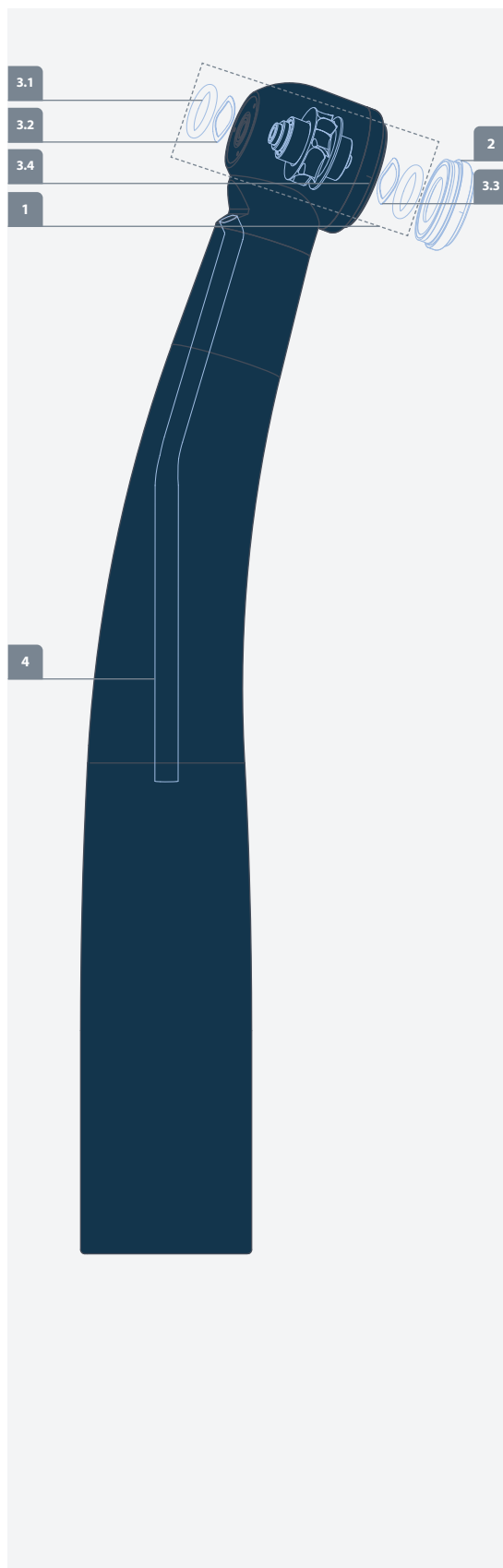
93	A10689.0	1.000.0782	Glass rod
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Tools



94	A10654.0		Back cap Key
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KaVo GENTLEforce 6000



Spare Parts



Complete rotor/Turbine

1

100	A10007.0	1.001.3888	premium Rotor/Turbine	12 months guarantee
100	A10007.1	1.001.3888	Rotor/Turbine	12 months guarantee
108	A10229.0		Combo	12 months guarantee
84	A10292.0	1.007.6975	Angular-contact ceramic bearing	bur side
84	A10288.2	1.000.7980	Radial ceramic bearing	cap side
85	A10465.1	1.000.7980	Angular-contact ceramic bearing	



Back cap

2

98	A11018.0	1.000.4770	Back cap
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O-rings/Washers/Misc.

3

88	A10271.0	0.200.6172	10-pack set of o-rings	3.1
91	A10327.0	1.001.6391	10-pack set of (front) wave washers	3.2
91	A10274.0	1.001.5032	10-pack set of wave washers	3.3
96	A10783.0	1.000.4823	Water filter KaVo	3.4



Light guide

4

93	A10689.0	1.000.0782	Glass rod
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Tools



94	A10654.0		Back cap Key
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Attachment Handpieces

High-Speed Handpieces

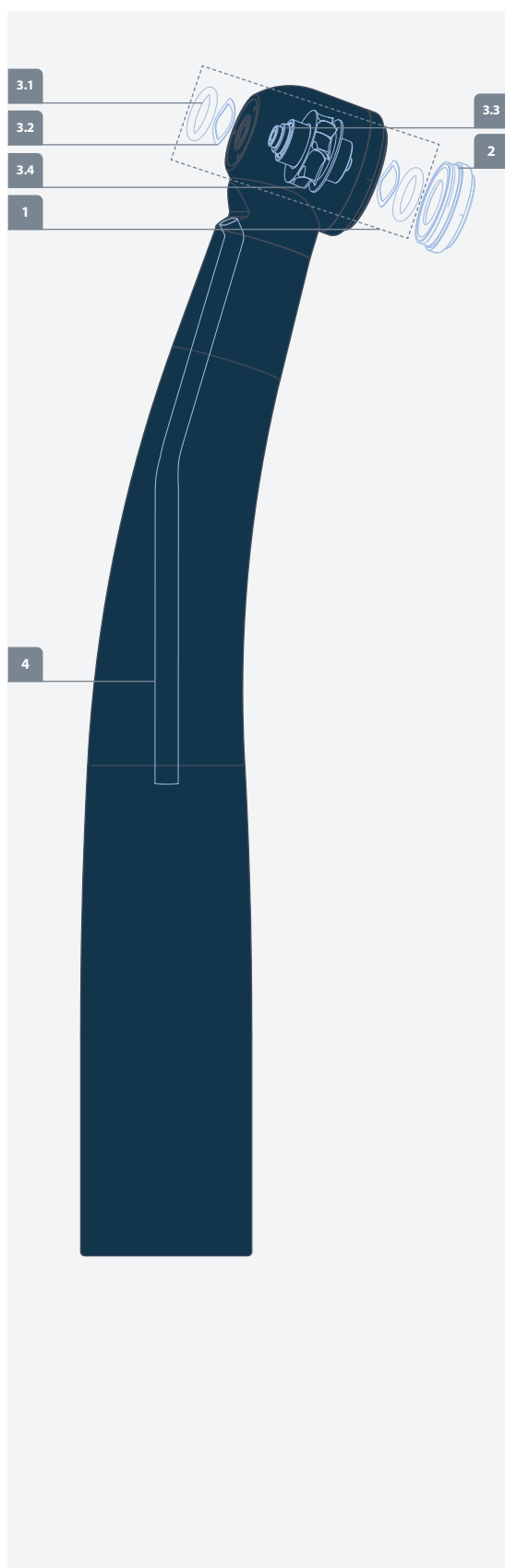
All Products

KaVo GENTLEsilence 8000/6500 BR

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Complete rotor/Turbine

1

100	A10254.0	1.003.6884	premium Rotor/Turbine	12 months guarantee
100	A10254.1	1.003.6884	Rotor/Turbine	12 months guarantee
108	A10230.0		Combo	12 months guarantee
84	A10288.2	1.000.7980	Radial ceramic bearing	
84	A10465.1	1.000.7980	Angular-contact ceramic bearing	



Back cap

2

98	A11017.0	1.003.5525	Back cap
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O-rings/Washers/Misc.

3

88	A10271.0	0.200.6172	10-pack set of o-rings	3.1
91	A10274.0	1.003.5900	10-pack set of wave washers	3.2
92	A10532.0		Slinger	3.3
96	A10783.0	1.000.4823	Water filter KaVo	3.4



Light guide

4

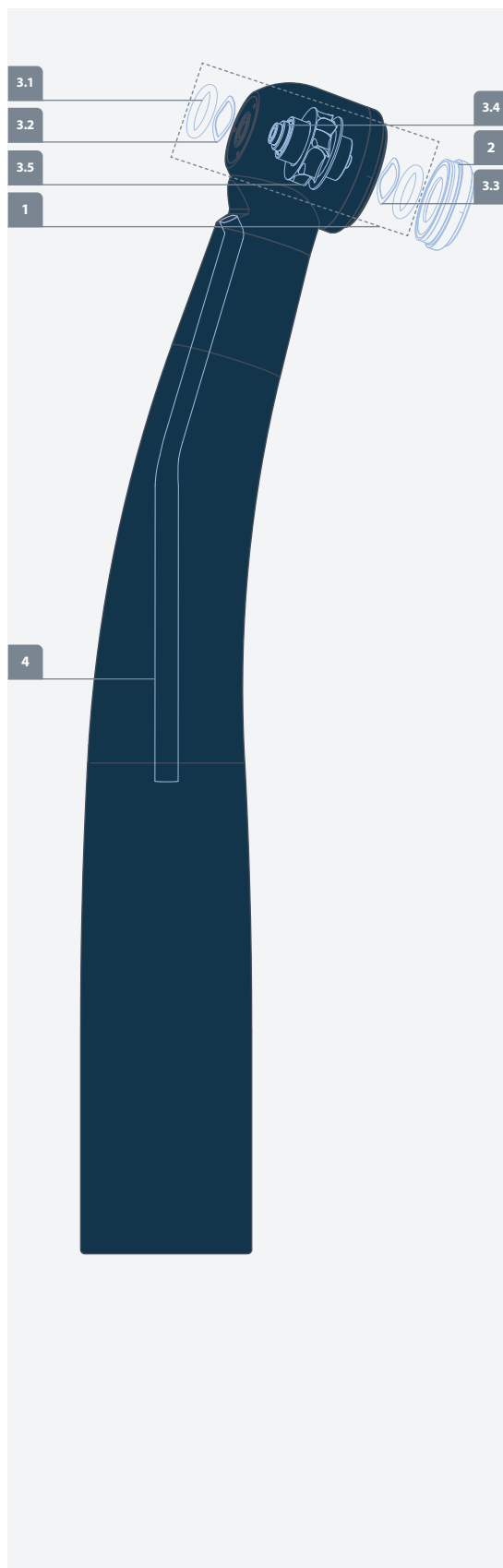
93	A10689.0	1.000.0782	Glass rod
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Tools



94	A10654.0		Back cap Key
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KaVo GENTLEsilence 6500



Spare Parts



Complete rotor/Turbine

1

100	A10008.0	1.003.9664	Rotor/Turbine premium	12 months guarantee
100	A10008.1	1.003.9664	Rotor/Turbine	12 months guarantee
108	A10230.0		Combo	12 months guarantee
84	A10292.0	1.007.6975	Angular-contact ceramic bearing	bur side
84	A10288.2	1.000.7980	Radial ceramic bearing	cap side
85	A10465.1	1.000.7980	Angular-contact ceramic bearing	



Back cap

2

98	A11017.0	1.003.5525	Back cap
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O-rings/Washers/Misc.

3

88	A10271.0	0.200.6172	10-pack set of o-rings	3.1
91	A10327.0	1.001.6391	10-pack set of (front) wave washers	3.2 bur side
91	A10274.0	1.003.5900	10-pack set of wave washers	3.3 cap side
92	A10532.0		Slinger	3.4
96	A10783.0	1.000.4823	Water filter KaVo	3.5



Light guide

4

93	A10689.0	1.000.0782	Glass rod
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Tools



94	A10654.0		Back cap Key
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Attachment Handpieces

High-Speed Handpieces

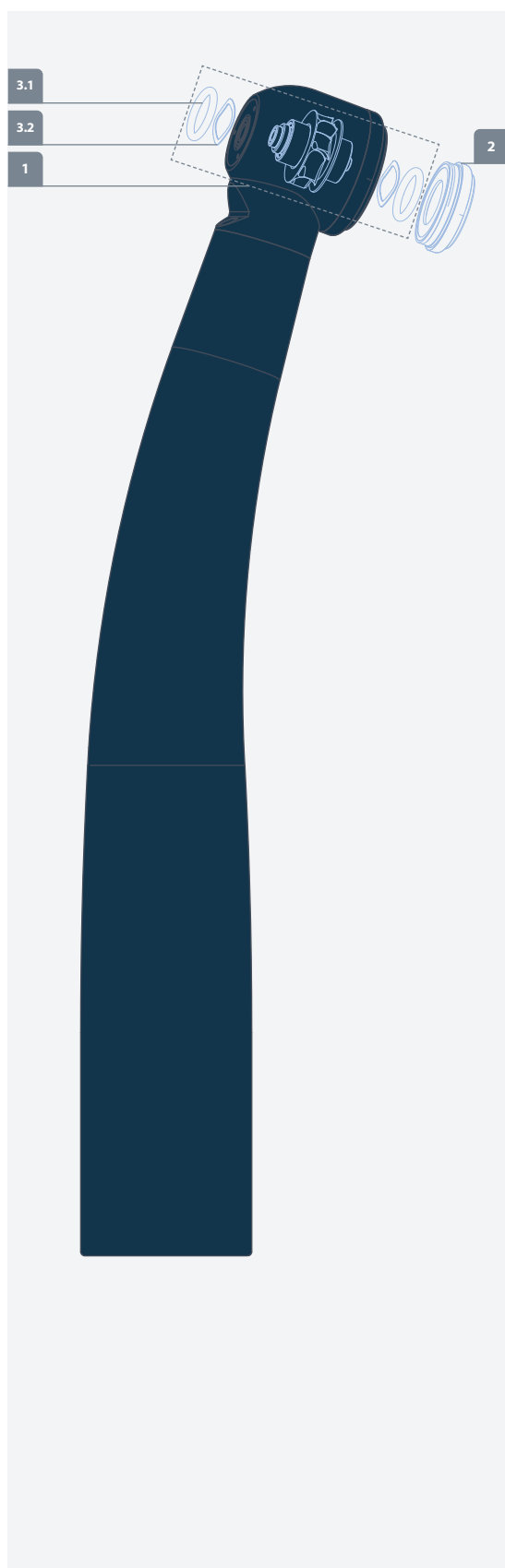
All Products

KaVo GENTLEmini 4500/5000

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Complete rotor/Turbine

1

101	A10345.0	1.006.4564	premium Rotor/Turbine	12 months guarantee
108	A10338.0		Combo	12 months guarantee
84	A10292.0	1.007.6975	Angular-contact ceramic bearing	



Back cap

2

99	A11027.0	1.007.7051	Back cap
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O-rings/Washers/Misc.

3

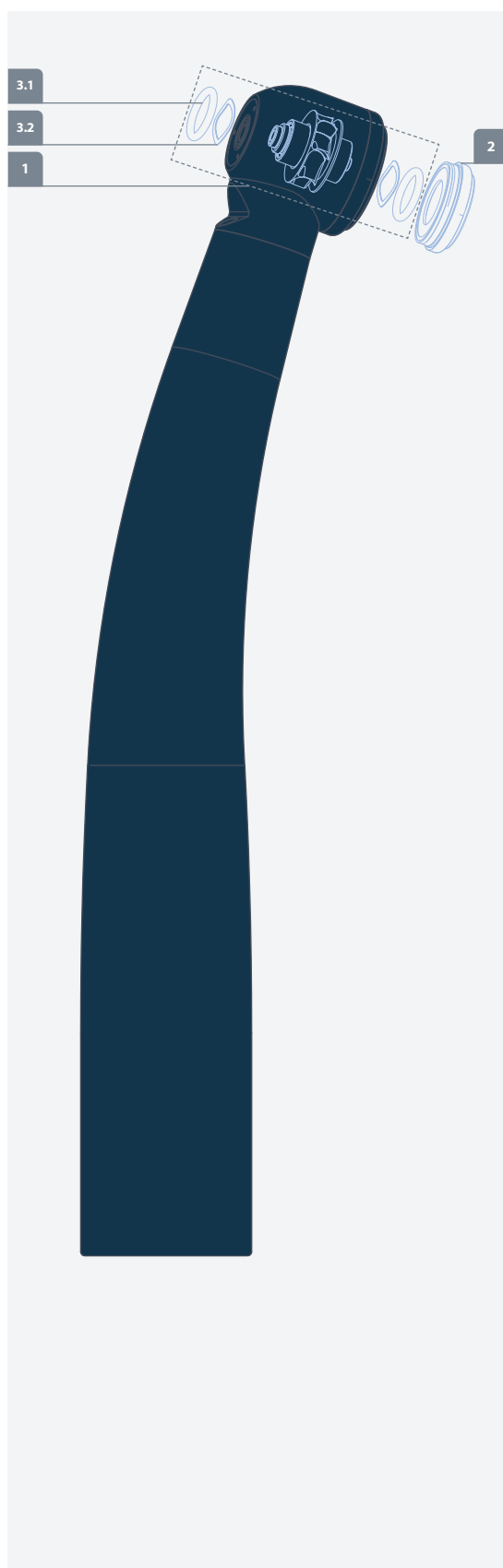
88	A10271.0	0.200.6172	10-pack set of o-rings	3.1
91	A10327.0	1.001.6391	10-pack set of wave washers	3.2

Tools



94	A10721.0		Back cap key KaVo 5000/M9000
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KaVo MASTERtorque M9000/M8900



Spare Parts



Complete rotor/Turbine

1

101	A10540.0	2.000.2266	premium Rotor/Turbine	12 months guarantee
101	A10540.1	2.000.2266	Rotor/Turbine	12 months guarantee
108	A10435.0		Combo	12 months guarantee
84	A10288.2	1.000.7980	Radial ceramic bearing	
85	A10465.1	1.000.7980	Angular-contact ceramic bearing	



Back cap

2

98	A11017.0	3.000.1874	Back cap
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O-rings/Washers/Misc.

3

88	A10271.0	0.200.6172	10-pack set of o-rings	3.1
91	A10274.0	1.003.5900	10-pack set of wave washers	3.2

Tools



94	A10721.0		Back cap key
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Attachment Handpieces

High-Speed Handpieces

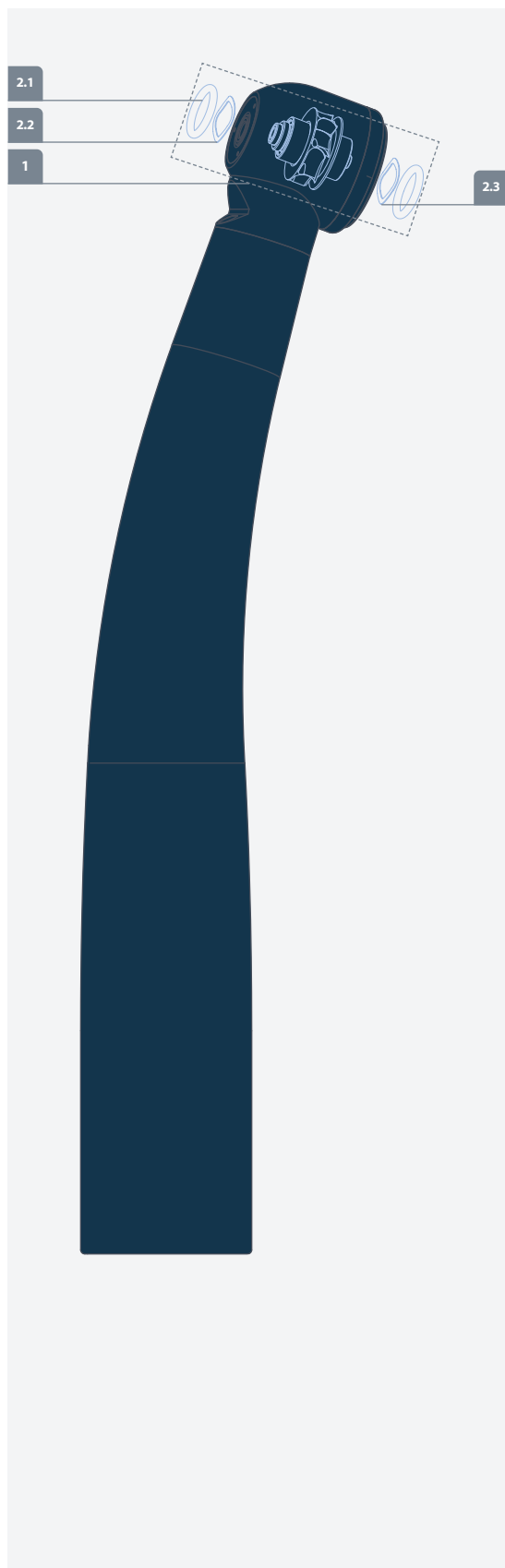
All Products

KaVo MASTERtorque Mini M8700

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Complete rotor/Turbine

1

102	A10846.0	3.001.9915	premium Rotor/Turbine	12 months guarantee
102	A10846.1	3.001.9915	Rotor/Turbine	12 months guarantee
108	A10864.0		Combo	12 months guarantee
84	A10288.0	1.000.7980	Radial ceramic bearing	cap side
85	A10465.1	1.000.7980	Angular-contact ceramic bearing	cap side
84	A10292.0	1.007.6975	Angular-contact ceramic bearing	bur side

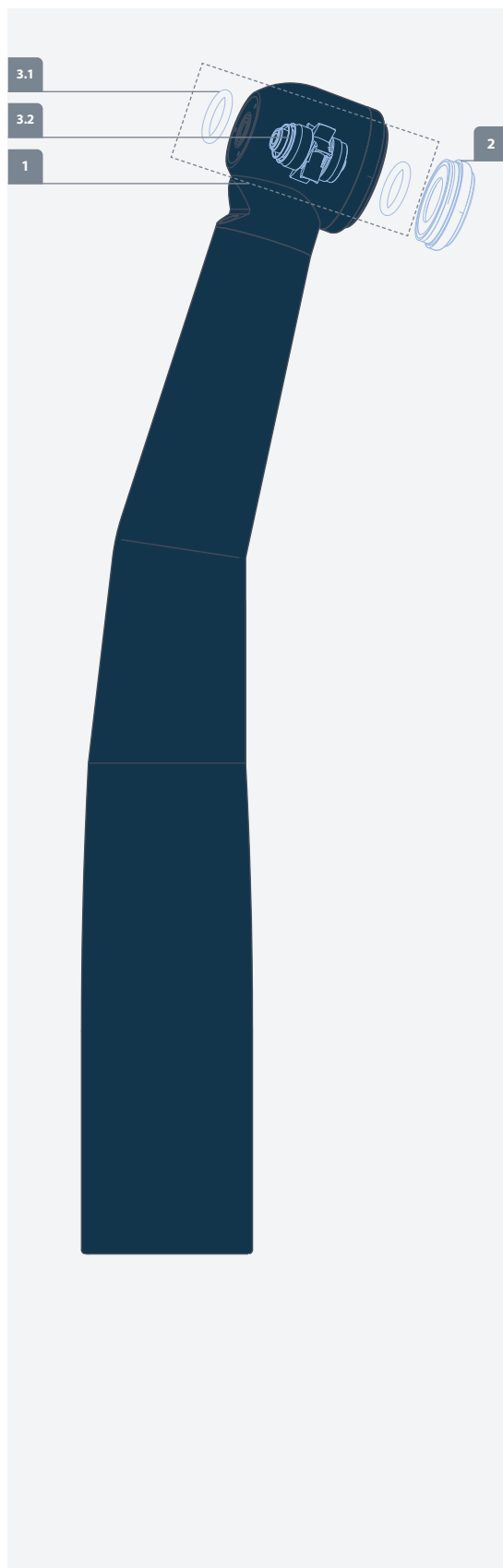


O-rings/Washers/Misc.

2

88	A10271.0	0.200.6172	10-pack set of o-rings	2.1
91	A10274.0	1.003.5900	10-pack set of (front) wave washers	2.2 bur side
91	A10327.0	1.001.6391	10-pack set of wave washers	2.3 cap side

KaVo BELLAtorque 637/Mira Lux 635



Spare Parts

Complete rotor/Turbine				1
101	A10349.0	0.553.8661	premium Rotor/Turbine	12 months guarantee
101	A10349.1	0.553.8661	Rotor/Turbine	12 months guarantee
108	A10225.0		Combo	12 months guarantee
84	A10282.0	0.220.0125	Radial ceramic bearing	bur side
85	A10485.0	0.220.0125	Angular-contact ceramic bearing	cap side
84	A10291.0	0.220.2015	Angular-contact ceramic bearing	cap side

Back cap				2
98	A11015.0	0.553.8491	Back cap	

O-rings/Washers/Misc.				3
88	A10271.0	0.200.6172	10-pack set of o-rings	3.1
92	A10364.0		Slinger	3.2

Tools

95	A10728.0		Back cap key	

Attachment Handpieces

High-Speed Handpieces

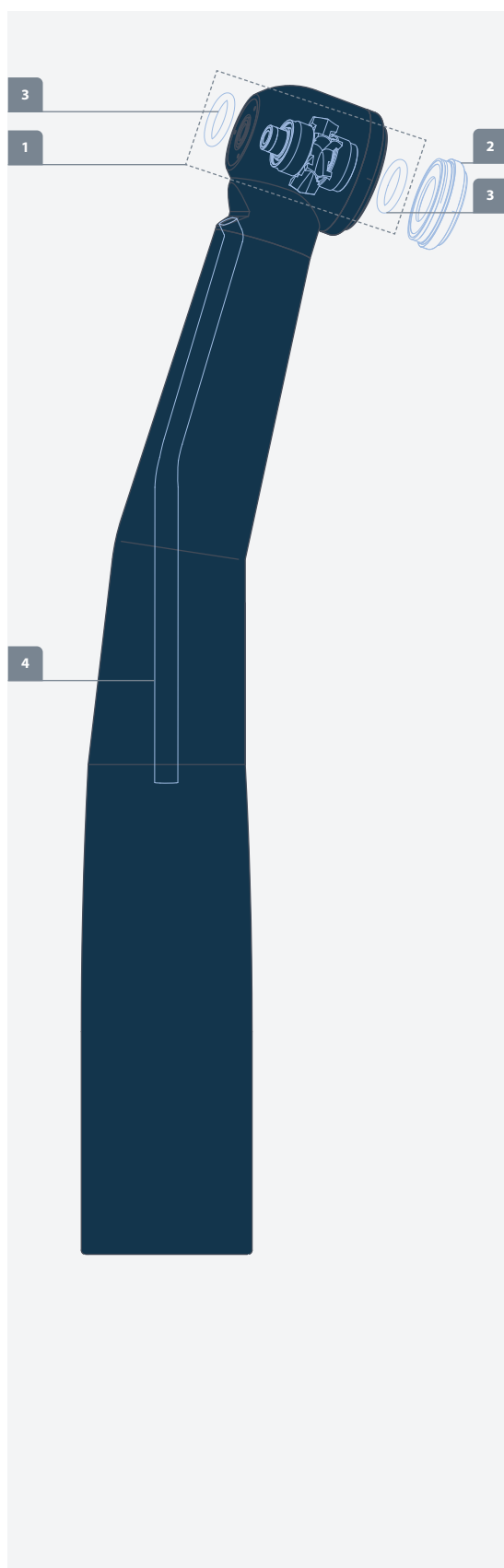
All Products

KaVo BELLAtorque 639/642/645

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Complete rotor/Turbine

1

101	A10259.0	0.553.6911	premium Rotor/Turbine	12 months guarantee
101	A10259.1	0.553.6911	Rotor/Turbine	12 months guarantee
108	A10233.0		Combo	12 months guarantee
84	A10282.0	0.220.0125	Radial ceramic bearing	
85	A10485.0	0.220.0125	Angular-contact ceramic bearing	



Back cap

2

98	A11022.0	0.553.5081	Back cap
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O-rings/Washers/Misc.

3

88	A10271.0	0.200.6172	10-pack set of o-rings
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Light guide

4

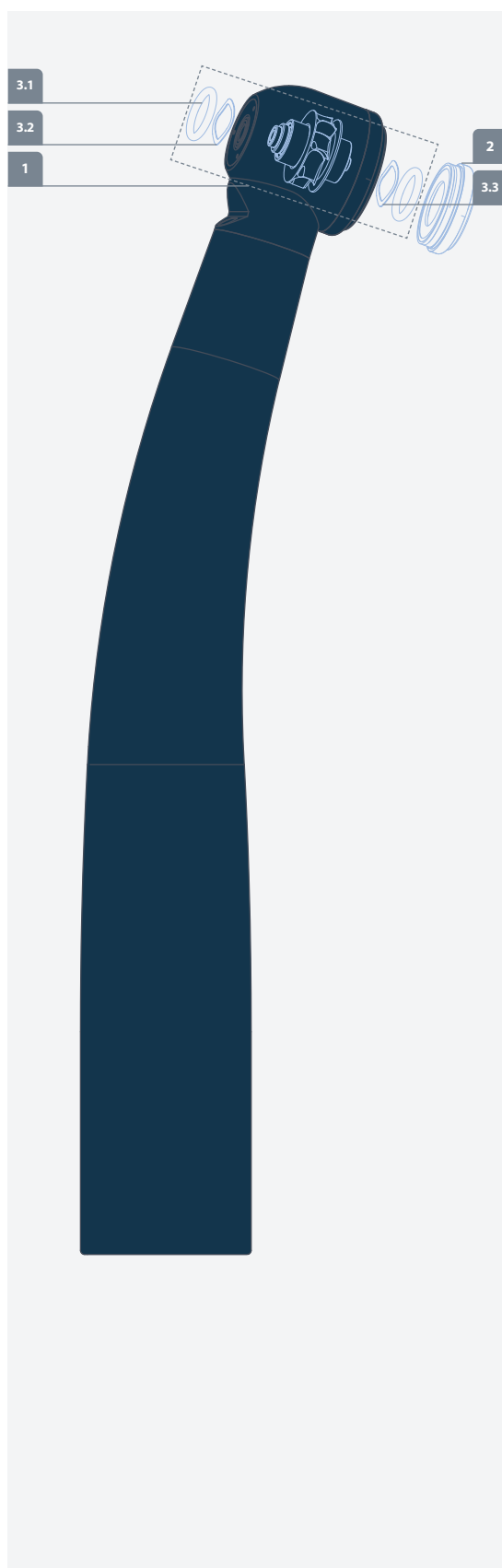
93	A10710.0	0.553.6821	Glass rod
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Tools



94	A10655.0		Back cap key
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KaVo EXPERTtorque E679 L/E680 L



Spare Parts



Complete rotor/Turbine

1

101	A10535.0	1.007.9313	premium Rotor/Turbine	12 months guarantee
101	A10535.1	1.007.9313	Rotor/Turbine	12 months guarantee
108	A10536.0		Combo	12 months guarantee
84	A10288.2	1.000.7980	Radial ceramic bearing	
85	A10465.1	1.000.7980	Angular-contact ceramic bearing	bur side
84	A10292.0	1.007.6975	Angular-contact ceramic bearing	cap side



Back cap

2

98	A11021.0	1.007.8903	Back cap
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O-rings/Washers/Misc.

3

88	A10271.0	0.200.6172	10-pack set of o-rings	3.1
91	A10274.0	1.003.5900	10-pack set of (front) wave washers	3.2 bur side
91	A10327.0	1.003.7576	10-pack set of wave washers	3.3 cap side

Tools



94	A10654.0	Back cap Key
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Attachment Handpieces

High-Speed Handpieces

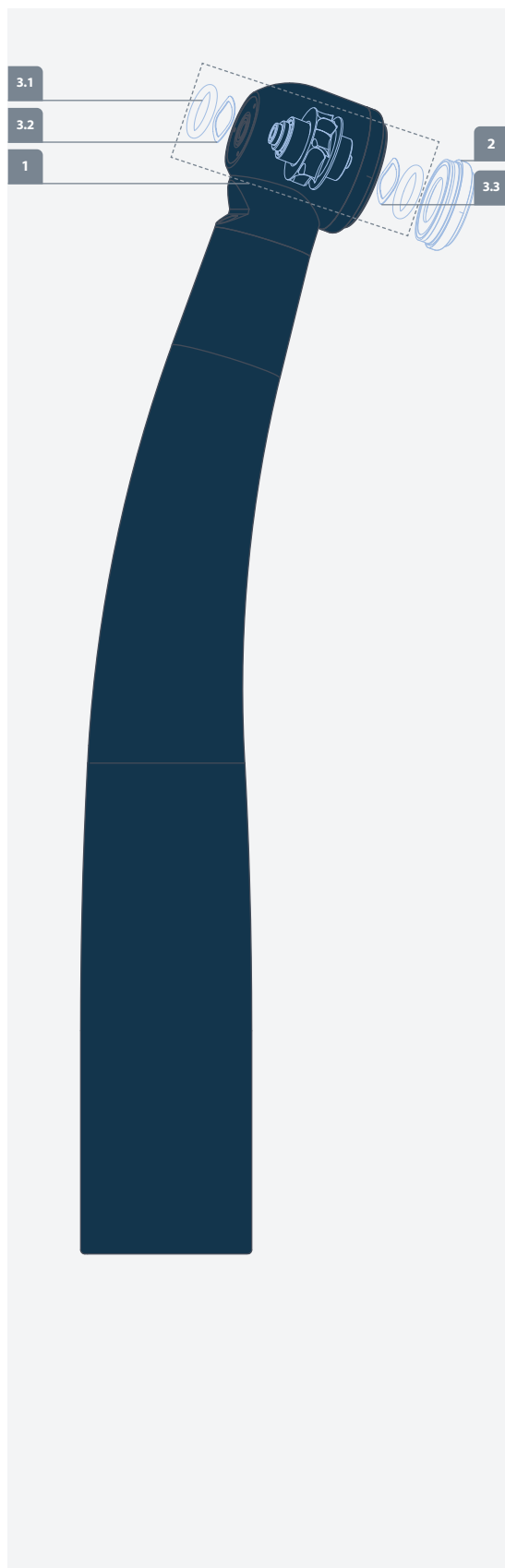
All Products

KaVo EXPERTtorque Mini E675L/E677L

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Complete rotor/Turbine

1

101	A10560.0	1.007.9457	premium Rotor/Turbine	12 months guarantee
101	A10560.1	1.007.9457	Rotor/Turbine	12 months guarantee
108	A10338.0		Combo	12 months guarantee
84	A10292.0	1.007.6975	Angular-contact ceramic bearing	bur side
84	A10285.0		Radial ceramic bearing	cap side



Back cap

2

99	A11027.0	1.007.7051	Back cap
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O-rings/Washers/Misc.

3

88	A10271.0	0.200.6172	10-pack set of o-rings	3.1
91	A10327.0	1.003.7576	10-pack set of (front) wave washers	3.2 bur side
91	A10274.0	1.003.5900	10-pack set of wave washers	3.3 cap side

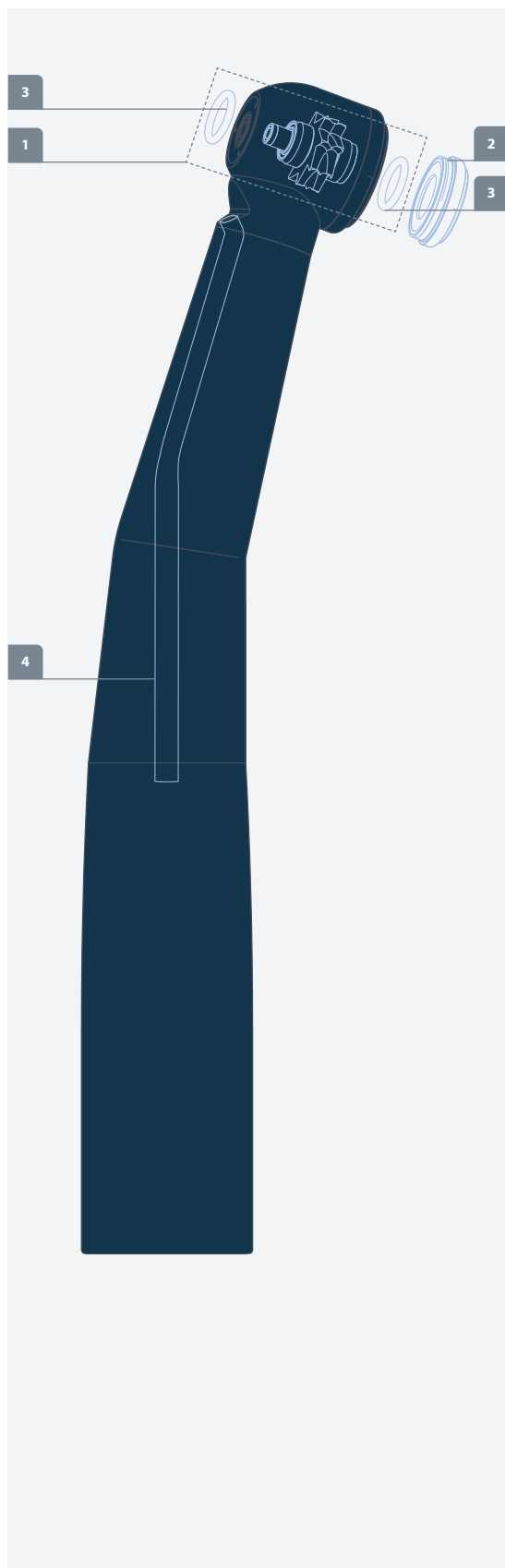
Tools



94	A10721.0		Back cap key
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KaVo COMPACTtorque 636

KaVo POWERtorque 646



Spare Parts

Complete rotor/Turbine				1
101	A10533.0	0.553.8911	premium Rotor/Turbine	12 months guarantee
101	A10533.1	0.553.8911	Rotor/Turbine	12 months guarantee
108	A10534.0		Combo	12 months guarantee
84	A10282.0	0.220.0125	Radial ceramic bearing	
85	A10485.0	0.220.0125	Angular-contact ceramic bearing	

Back cap				2
98	A11016.0	0.553.8061	Back cap	

O-rings/Washers/Misc.				3
88	A10271.0	0.200.6172	10-pack set of o-rings	

Light guide				4
93	A10711.0	0.200.6172	Glass rod	

Tools

94	A10654.0		Back cap Key	

Attachment Handpieces

High-Speed Handpieces

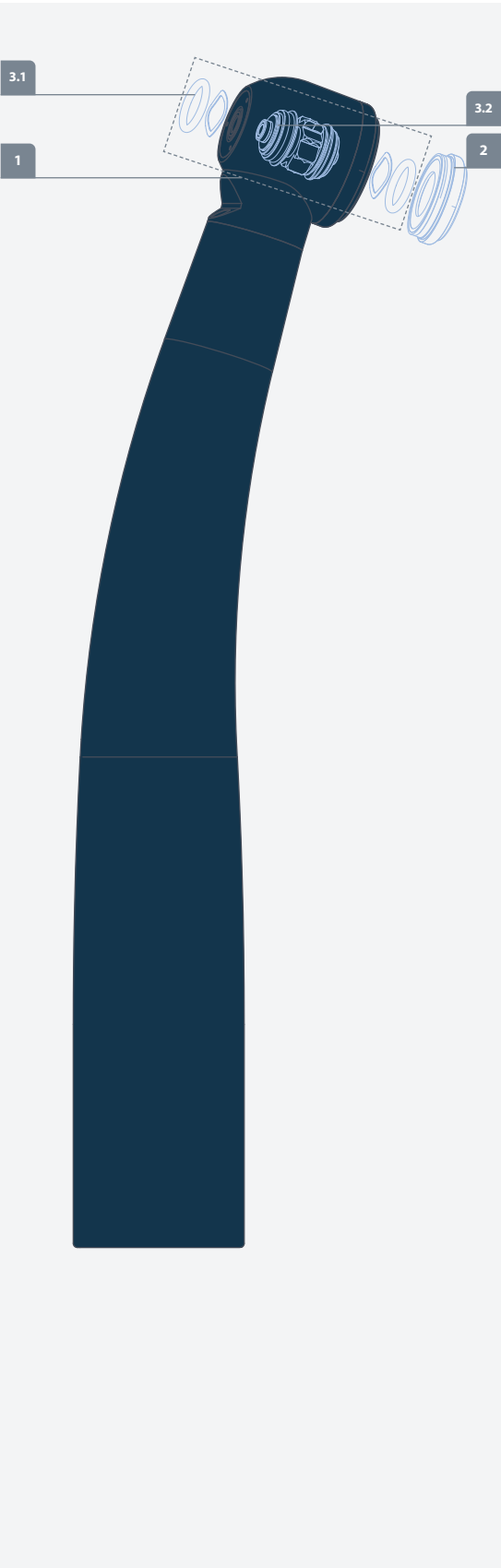
All Products

Star 430/Solara

Attachment Handpieces

High-Speed Handpieces

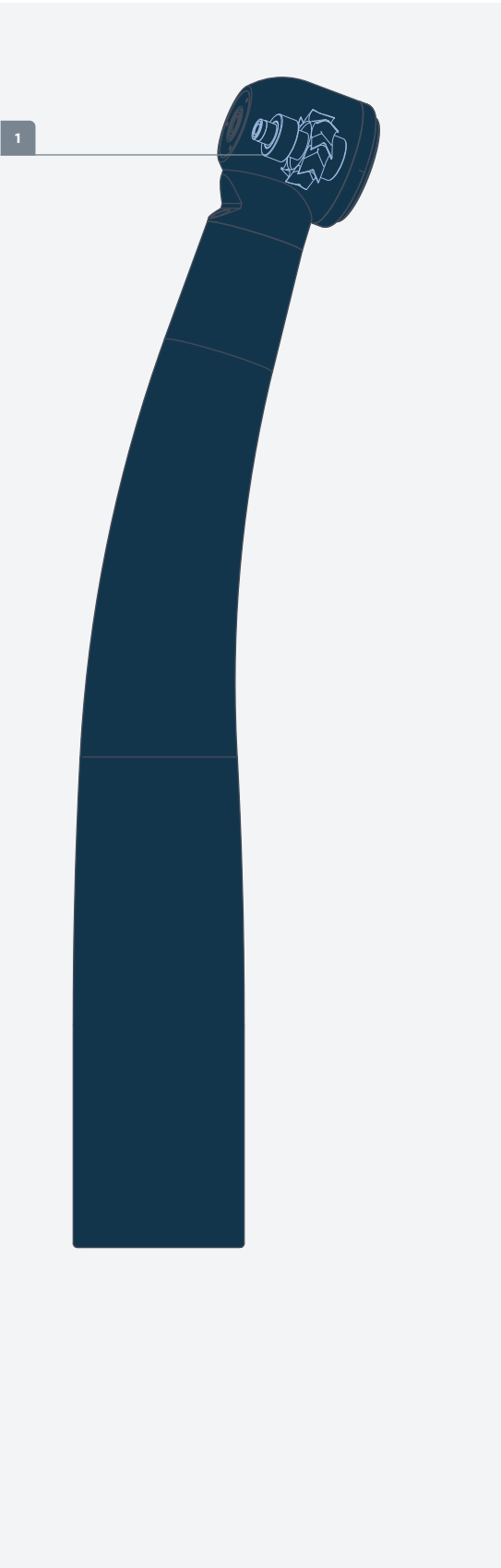
All Products





Spare Parts

Complete rotor/Turbine				1
				
106	A10549.0	26 39 68	Rotor/Turbine, Lube Free Myonic	12 months guarantee
110	A10222.0		Combo	12 months guarantee
85	A10719.0		Angular-contact ceramic bearing with flange, Lube Free	
	A10492.0		Radial ceramic bearing with flange	
Back cap				2
				
99	A11026.0		Back cap	
O-rings/Washers/Misc.				3
				
88	A10272.0		10-pack set of o-rings	3.1
92	A10330.0		Slinger	3.2

Midwest Tradition TB/TL/Pro TBL/Pro TLF



Spare Parts				
 Complete rotor/Turbine				1
47	A10947.0	66 29 989	premium Rotor/Turbine	12 months guarantee
102	A10947.1	66 29 989	Rotor/Turbine	12 months guarantee
109	A10861.0		Combo	12 months guarantee
84	A10282.0		Radial ceramic bearing	

Attachment Handpieces

High-Speed Handpieces

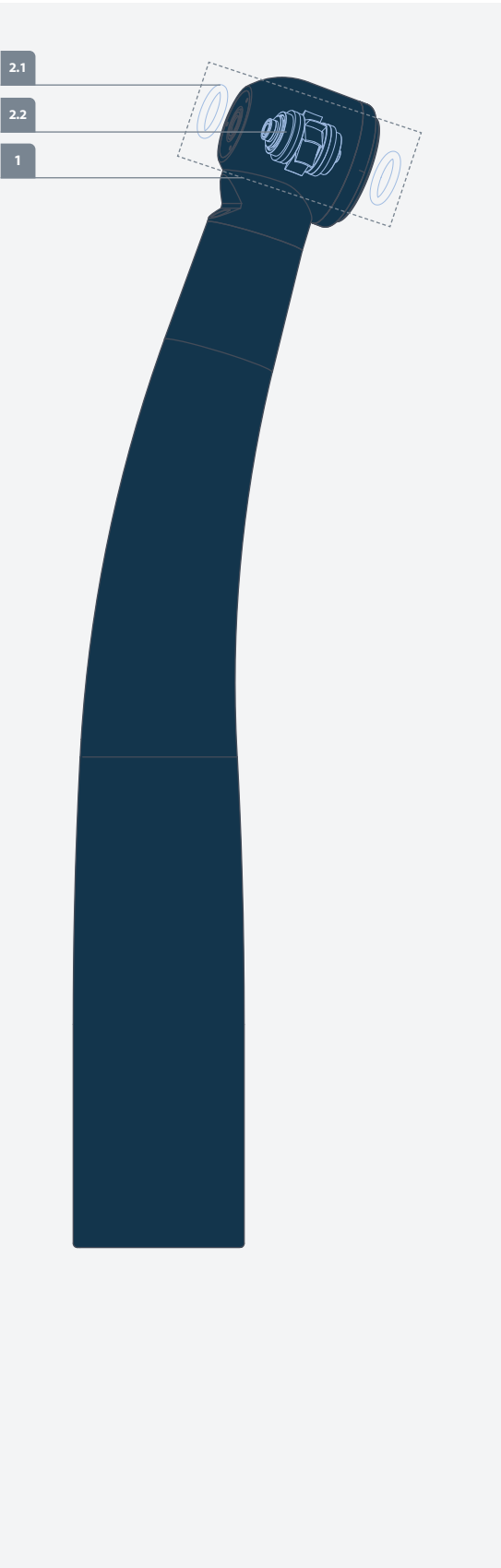
All Products

Midwest Tradition Push Button

Attachment Handpieces

High-Speed Handpieces

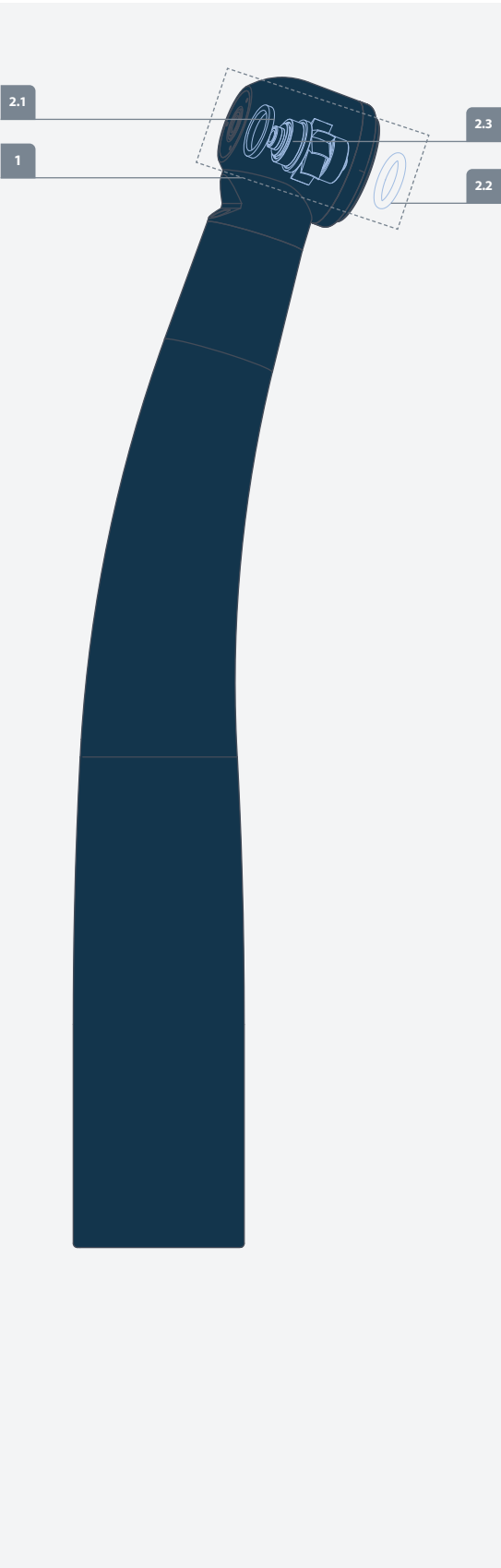
All Products






Spare Parts

Spare Parts				
 Complete rotor/Turbine				1
102	A10011.0	790118	Rotor/Turbine	 12 months guarantee
109	A10224.0		Combo	 12 months guarantee
85	A10661.0		Angular-contact ceramic bearing with flange	
 O-rings/Washers/Misc.				2
88	A10436.0		10-pack of quad-rings	2.1
92	A10328.0		Slinger	2.2

Midwest Tradition Lever



Spare Parts				
<div>  Complete rotor/Turbine </div>				1
102	A10010.0	780118	Rotor/Turbine	12 months guarantee
108	A10370.0		Combo	12 months guarantee
85	A10661.0		Angular-contact ceramic bearing with flange	 bur side
84	A10287.2		Radial ceramic bearing	 cap side
84	A10390.0		Angular-contact ceramic bearing	
<div>  O-rings/Washers/Misc. </div>				2
88	A10436.0		10-pack set of quad-rings (blue)	2.1
88	A10432.0		10-pack of o-rings	2.2
92	A10328.0		Slinger	2.3

Attachment Handpieces

High-Speed Handpieces

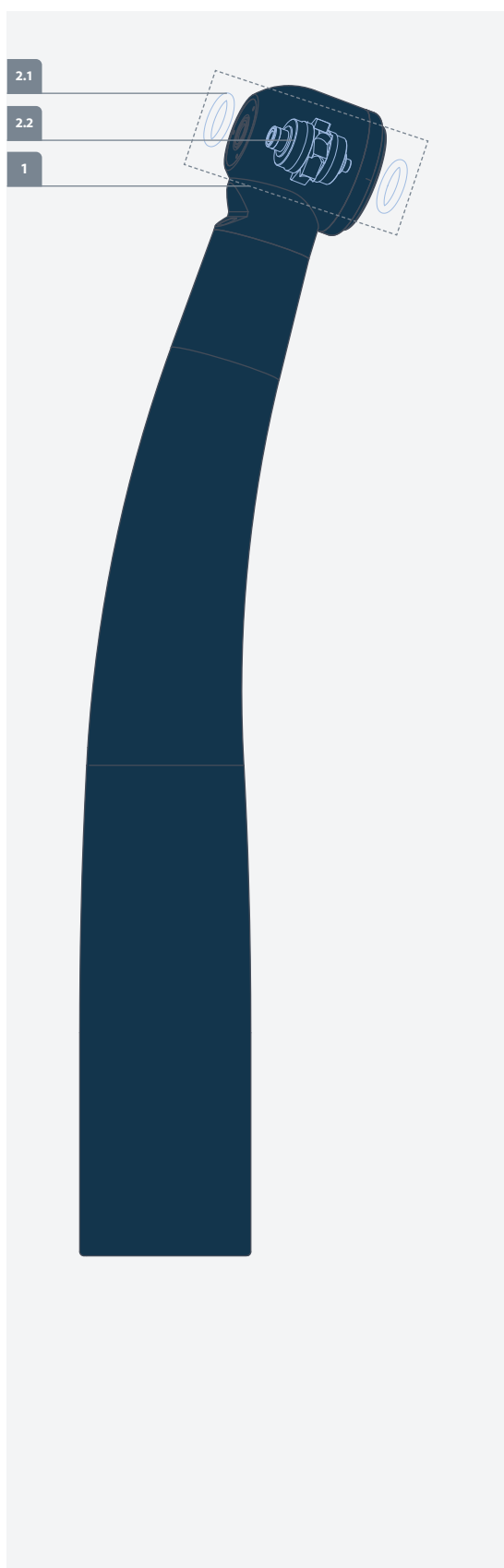
All Products

Midwest Stylus Lite 360/361

Attachment Handpieces

High-Speed Handpieces

All Products





Spare Parts



Complete rotor/Turbine

1

102	A10431.0	790310	premium Rotor/Turbine	12 months guarantee
109	A10382.1		Combo	12 months guarantee
85	A10830.0		Angular-contact ceramic bearing	



O-rings/Washers/Misc.

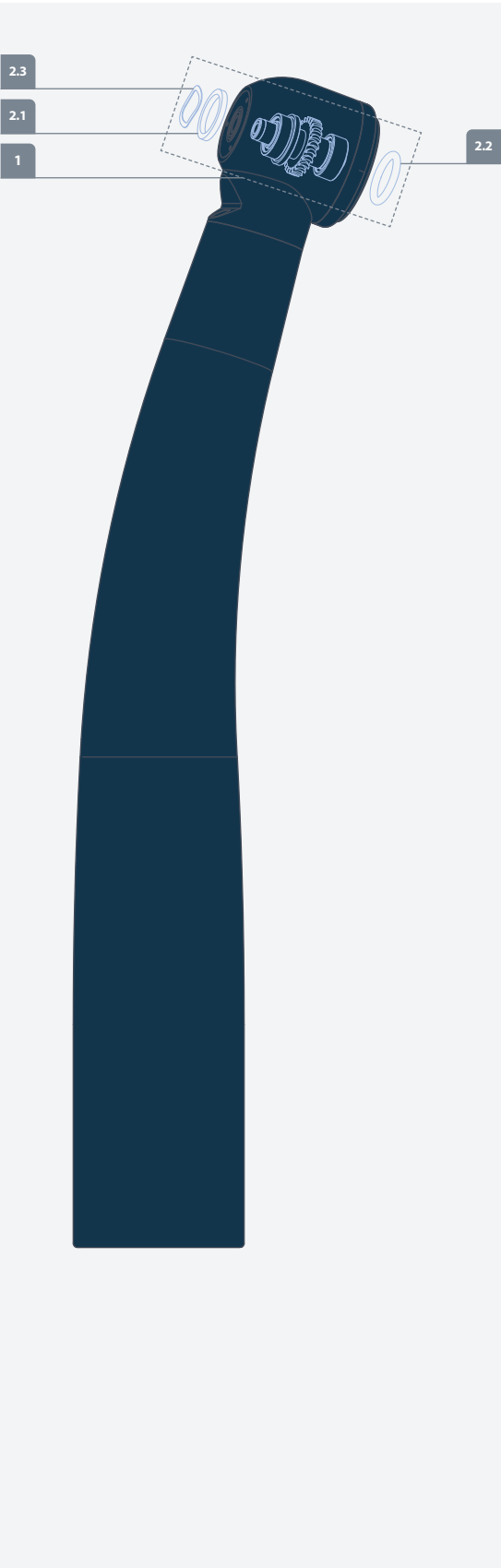
2

88	A10672.0	10-pack set of o-rings	2.1
92	A10688.0	Slinger	2.2

Information

Please note that the spindle diameter for this model is ground to a slightly larger diameter than the standard 3.175 mm for all other dental high-speed/turbine bearings. This is done to fit the non-standard inner diameter of the Midwest Stylus bearings. Therefore, for the ADENSYS combos, no Loctite is needed for the assembly of bearings.

Midwest Quiet Air Lever



Spare Parts				
<div>  Complete rotor/Turbine </div>				1
102	A10606.0	484300	Rotor / Turbine	12 months guarantee
108	A10488.0		Combo	12 months guarantee
85	A10661.0		Angular-contact ceramic bearing with flange	
84	A10287.2		Radial ceramic bearing	
84	A10390.0		Angular-contact ceramic bearing	
<div>  O-rings/Washers/Misc. </div>				2
88	A10436.0		10-pack of quad-rings (blue)	2.1 (bur side)
88	A10432.0		10-pack of o-rings	2.2 (cap side)
91	A10274.0		10-pack set of wave washers	2.3

Attachment Handpieces

High-Speed Handpieces

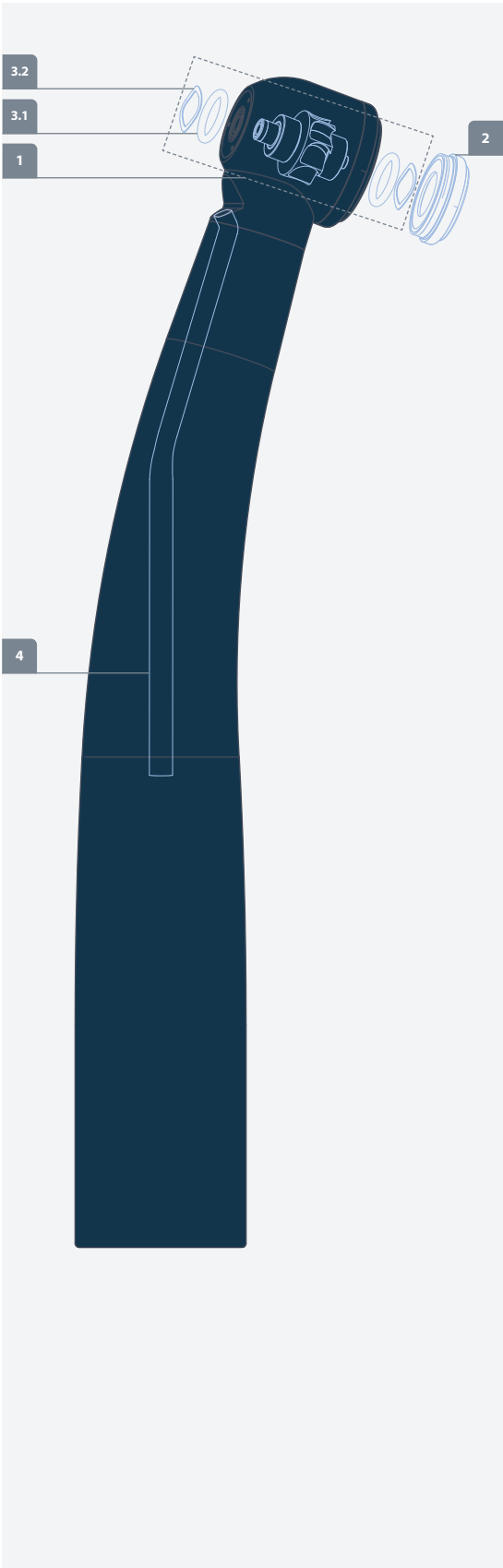
All Products

WH Synea TA 98 (L)

Attachment Handpieces

High-Speed Handpieces

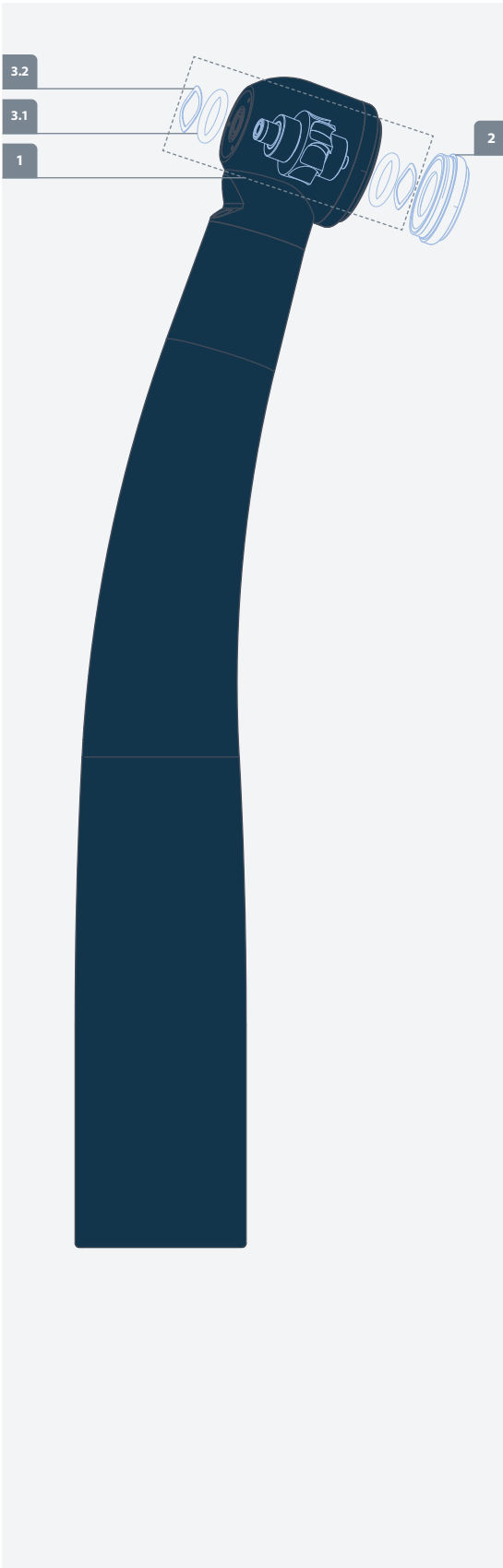
All Products




Spare Parts

Complete rotor/Turbine					1
105	A10337.0	04 39 6600	premium Rotor/Turbine	12 months guarantee	
105	A10337.1	04 39 6600	Rotor/Turbine	12 months guarantee	
111	A10232.0		Combo	12 months guarantee	
84	A10288.2	27 70 712	Radial ceramic bearing		
85	A10465.1	27 70 712	Angular-contact ceramic bearing		
Back cap					2
98	A11019.0		Back cap		
O-rings/Washers/Misc.					3
88	A10432.0		10-pack of o-rings		3.1
91	A10274.0		10-pack set of wave washers		3.2
Light guide					4
93	A10714.0	04 05 8300	Glass rod		
Tools					
94	A10725.0		Back cap key		

WH Synea TA 98 LED



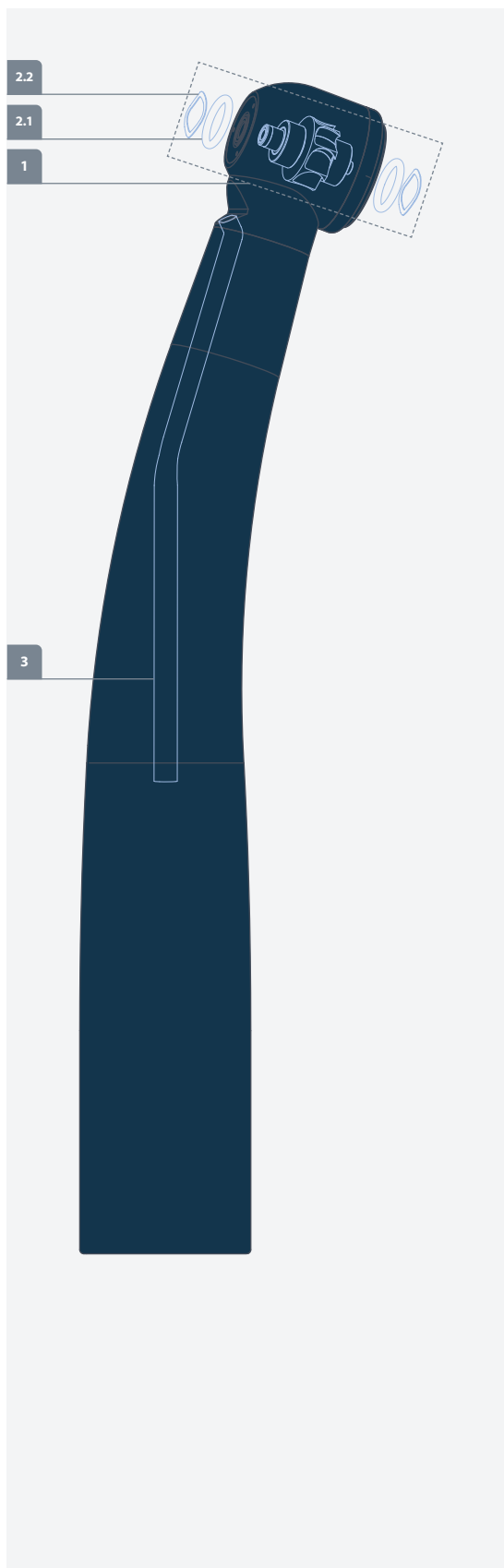
Spare Parts				
 Complete rotor/Turbine				1
105	A10359.0	06 39 1700	premium Rotor/Turbine	12 months guarantee
105	A10359.1	06 39 1700	Rotor/Turbine	12 months guarantee
111	A10340.0		Combo	12 months guarantee
84	A10288.2	06 39 1700	Radial ceramic bearing	
85	A10465.1	06 39 1700	Angular-contact ceramic bearing	
 Back cap				2
98	A11020.0	06 44 6300	Back cap	
 O-rings/Washers/Misc.				3
88	A10273.0		10-pack of o-rings	3.1
91	A10274.0		10-pack set of wave washers	3.2
Tools				
				
94	A10726.0		Back cap key	

WH Synea TA 97 LED

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Complete rotor/Turbine

1

105	A10458.0	05 30 7200	premium Rotor/Turbine	12 months guarantee
105	A10458.1	05 30 7200	Rotor/Turbine	12 months guarantee
111	A10457.0		Combo	12 months guarantee
84	A10288.2	27 70 712	Radial ceramic bearing	
85	A10465.1	27 70 712	Angular-contact ceramic bearing	



O-rings/Washers/Misc.

2

88	A10273.0		10-pack of o-rings	2.1
91	A10274.0		10-pack set of wave washers	2.2



Light guide

3

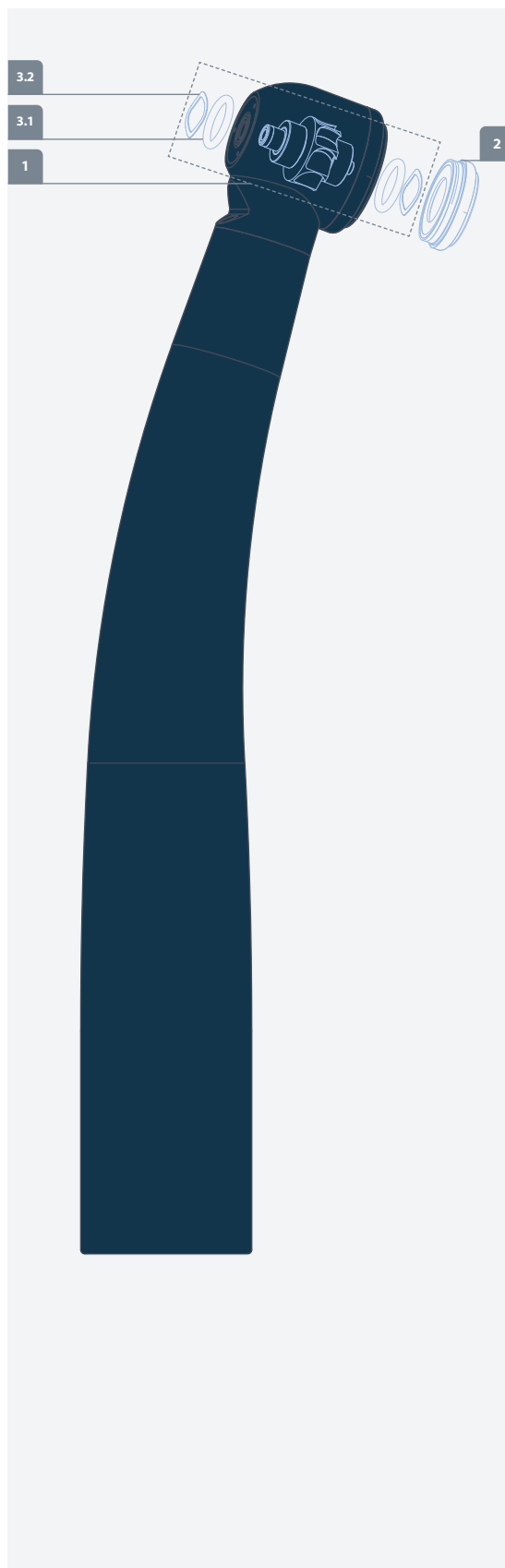
93	A10715.0	05 28 8700	Glass rod
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Tools



94	A10726.0		Back cap key
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WH Fusion TG 98/Synea TA 98 CLED/ Vision TK-98



Spare Parts



Complete rotor/Turbine

1

105	A10601.0	05 30 7000	premium Rotor/Turbine	12 months guarantee
105	A10601.1	05 30 7000	Rotor/Turbine	12 months guarantee
111	A10604.0		Combo	12 months guarantee
84	A10288.2	27 70 712	Radial ceramic bearing	
85	A10465.1	27 70 712	Angular-contact ceramic bearing	



Back cap

2

98	A11020.0	06 44 6300	Back cap	
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O-rings/Washers/Misc.

3

88	A10273.0		10-pack of o-rings	3.1
91	A10274.0		10-pack set of wave washers	3.2

Tools



94	A10726.0		Back cap key	
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Attachment Handpieces

High-Speed Handpieces

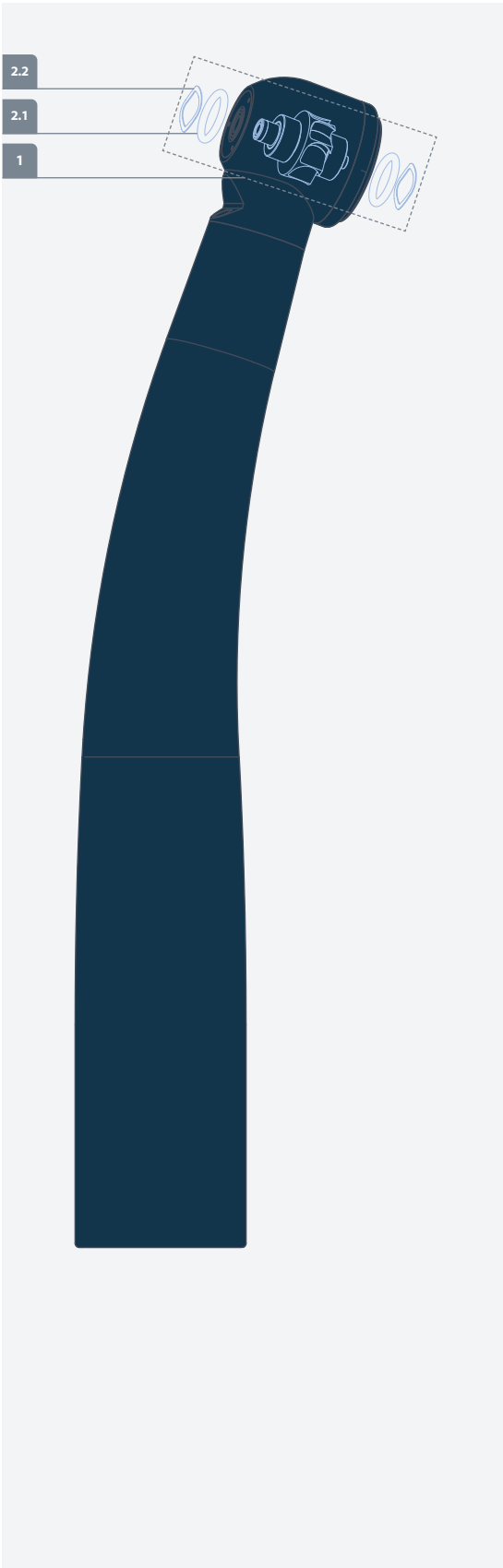
All Products

WH Vision TK-100



Attachment Handpieces

High-Speed Handpieces

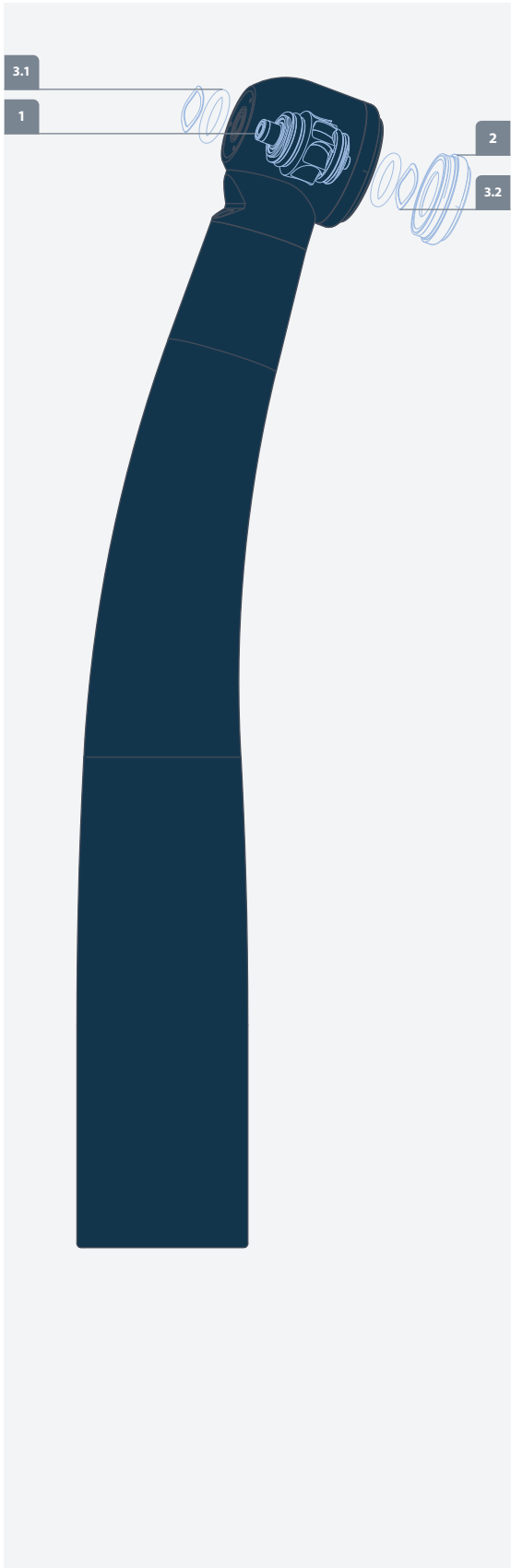
All Products








Spare Parts

Spare Parts					
 Complete rotor/Turbine					1
105	A10806.0	72 72 900	premium Rotor/Turbine	 12 months guarantee	
105	A10806.1	72 72 900	Rotor/Turbine	 12 months guarantee	
111	A10865.0		Combo	 12 months guarantee	
84	A10288.2	27 70 712	Radial ceramic bearing		
85	A10465.1	27 70 712	Angular-contact ceramic bearing		
 O-rings/Washers/Misc.					2
88	A10432.0		10-pack of o-rings		2.1
91	A10274.0		10-pack set of wave washers		2.2

WH Alegra TE 98(L)



Spare Parts				
 Complete rotor/Turbine				1
105	A10558.0	06 78 7501	Rotor/Turbine	12 months guarantee
111	A10559.0		Combo	12 months guarantee
85	A10570.0		Radial ceramic bearing	
85	A10734.0		Bearing set (2 x bearing, assembled with wave washers and o-rings)	
 Back cap				2
98	A11023.0		Back cap	
 O-rings/Washers/Misc.				3
88	A10273.0		10-pack of o-rings	3.1
91	A10828.0		10-pack set of wave washers	3.2

Attachment Handpieces

High-Speed Handpieces

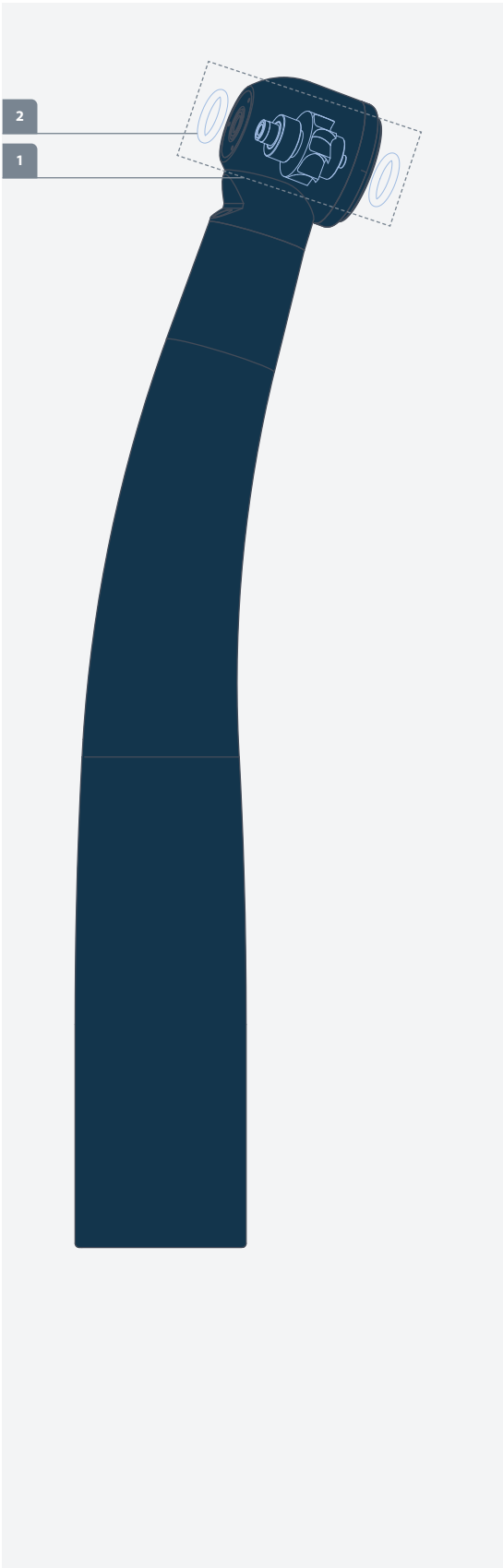
All Products

Sirona T2/T3 Racer

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts

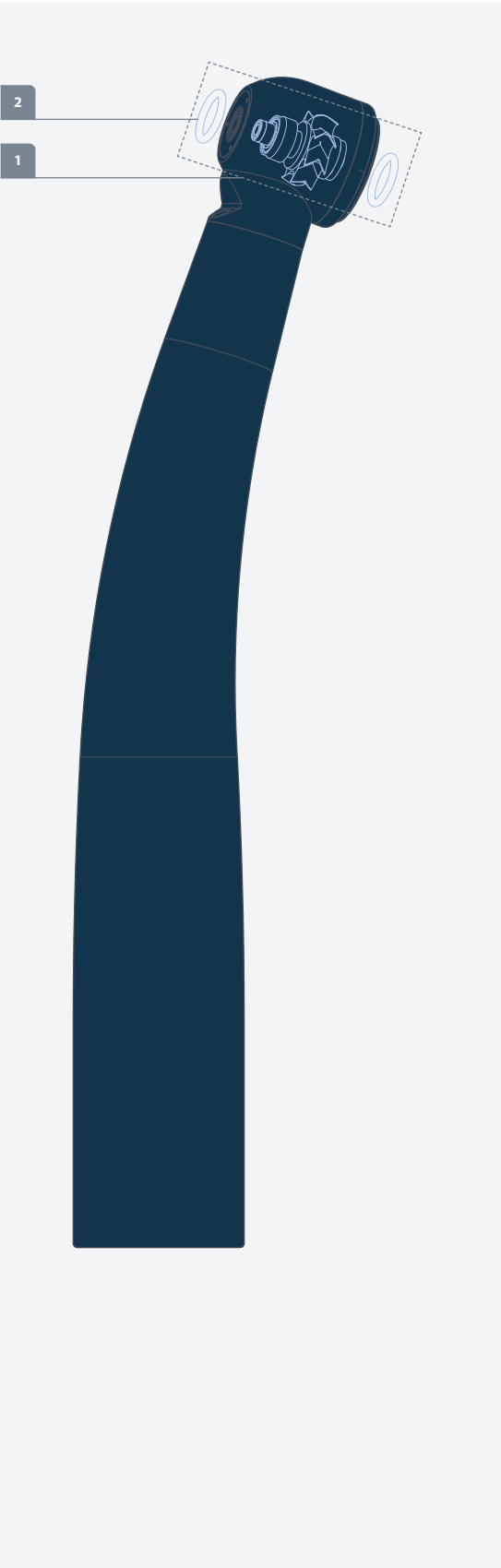
Complete rotor/Turbine					1
104	A10353.0	58 68 307	premium Rotor/Turbine	12 months guarantee	
104	A10353.1	58 68 307	Rotor/Turbine	12 months guarantee	
109	A10351.0		Combo	12 months guarantee	
84	A10288.2	58 68 307	Radial ceramic bearing		
85	A10465.1	58 68 307	Angular-contact ceramic bearing		









O-rings/Washers/Misc.					2
88	A10432.0		10-pack of o-rings		

Tools

94	A10724.0		Back cap key		
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Sirona T1 Control TC3



Spare Parts				
 Complete rotor/Turbine				1
104	A10456.0	41 75 217	premium Rotor/Turbine	 12 months guarantee
104	A10456.1	41 75 217	Rotor/Turbine	 12 months guarantee
109	A10454.0		Combo	 12 months guarantee
84	A10282.0		Radial ceramic bearing	
85	A10485.0		Angular-contact ceramic bearing	
 O-rings/Washers/Misc.				2
88	A10672.0		10-pack set of o-rings	
Tools				
				
94	A10723.0		Back cap	

Attachment Handpieces

High-Speed Handpieces

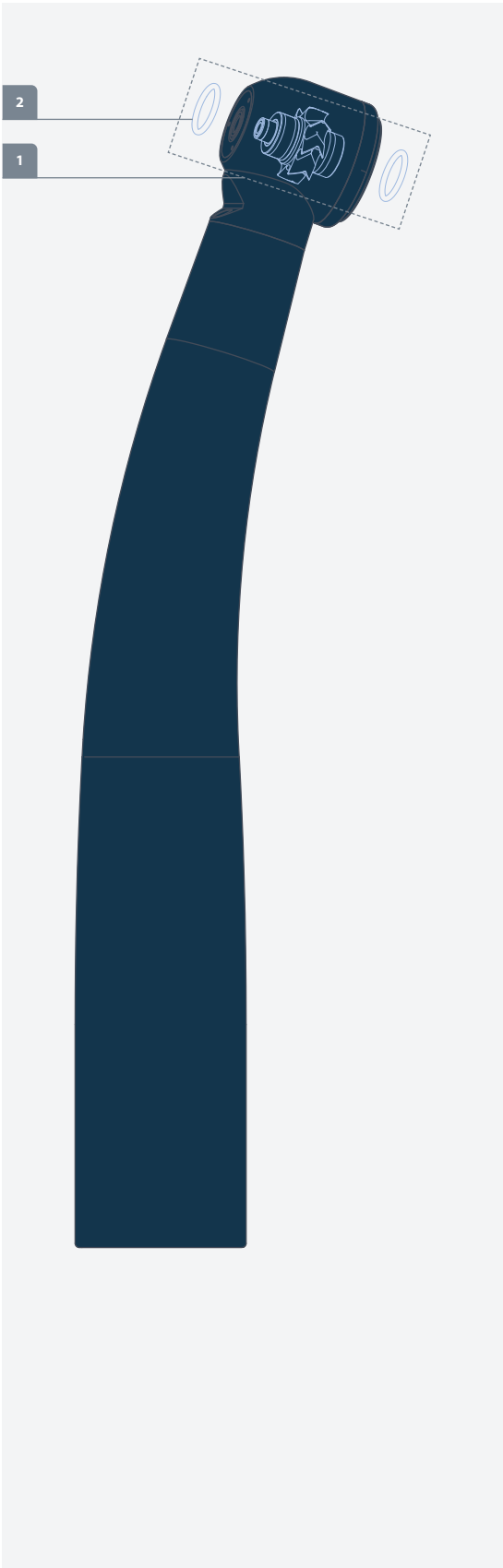
All Products




Sirona T1 Control CS (SN > 600 000, < 800 000)

Attachment Handpieces

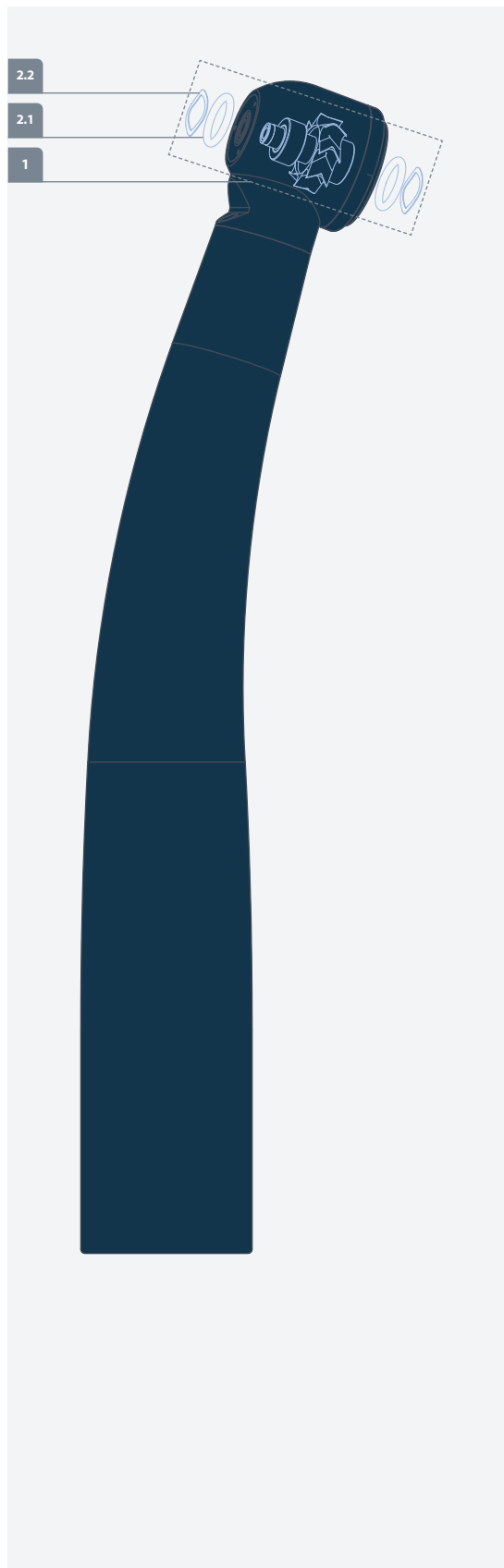
High-Speed Handpieces

All Products



Spare Parts				
				1
104	A10563.0	64 32 608	Rotor/Turbine	12 months guarantee
				2
88	A10672.0	10-pack of o-rings		
Tools				
				
94	A10723.0	Back cap key		

Sirona T2 Control / T1 Control (SN > 502.000)



Spare Parts

Complete rotor/Turbine				1
104	A10493.0	58 68 299	premium Rotor/Turbine	12 months guarantee
104	A10493.1	58 68 299	Rotor/Turbine	12 months guarantee
109	A10452.0		Combo	12 months guarantee
84	A10288.2	59 94 814	Radial ceramic bearing	
85	A10465.1	59 94 814	Angular-contact ceramic bearing	
O-rings/Washers/Misc.				2
88	A10729.0		10-pack set of o-rings	2.1
91	A10274.0		10-pack set of wave washers	2.2

Attachment Handpieces

High-Speed Handpieces

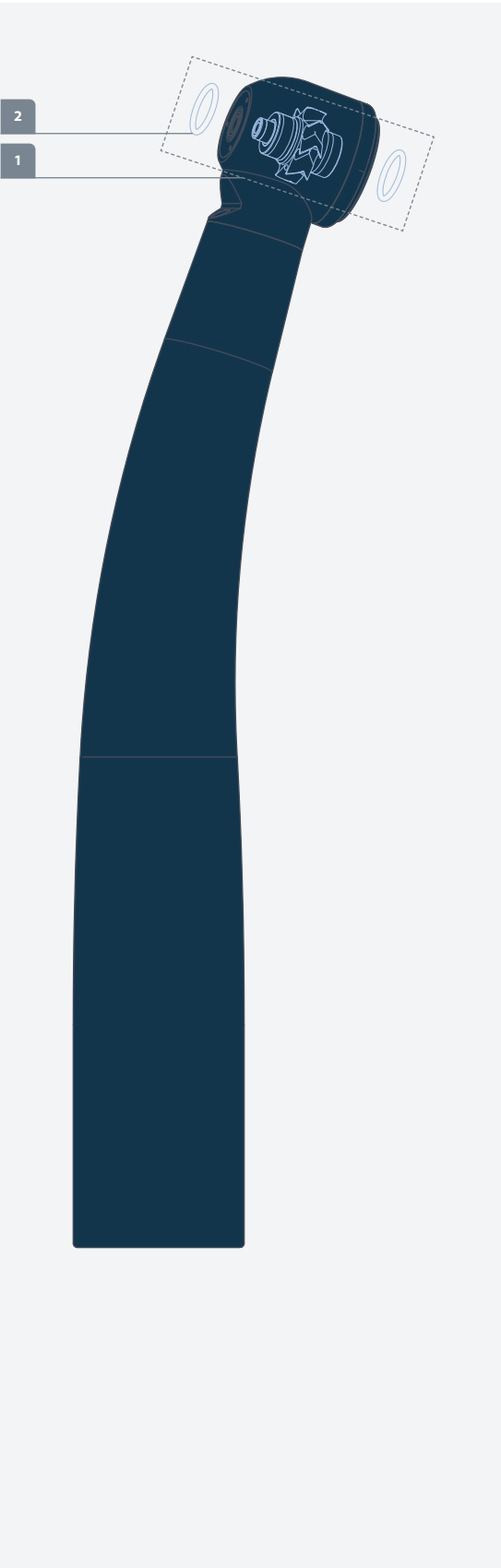
All Products

Sirona T2/T3 Boost (SN> 600 000, <700 000)

Attachment Handpieces

High-Speed Handpieces


All Products



Spare Parts

Complete rotor/Turbine				1
104	A10805.1	64 32 616	Rotor/Turbine	12 months guarantee
84	A10295.0		Radial ceramic bearing	

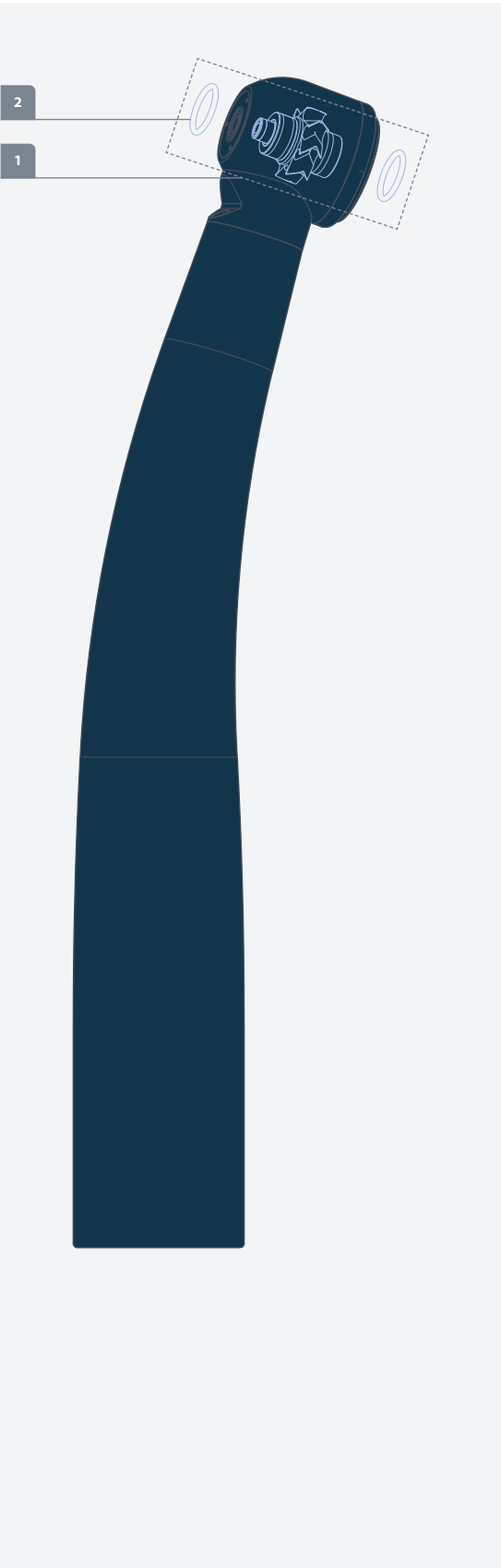
O-rings/Washers/Misc.				2
89	A10840.0		10-pack set of o-rings	





 Information

Please note that the rotor for this handpiece model is to be built with 2 teflon distance washers (on either side of the bearings). Please find more details on this at the product page on our website

Sirona T2/T3 Boost CBM

(SN > 700 000, < 800 000)



Spare Parts				
<div>  Complete rotor/Turbine </div>				1
104	A10854.1	65 48 122	Rotor/Turbine	12 months guarantee
84	A10295.0		Radial ceramic bearing	
<div>  O-rings/Washers/Misc. </div>				2
89	A10840.0		10-pack set of o-rings	
<div>  Information </div> <p>Please note that the rotor for this handpiece model is to be built with 2 teflon distance washers (on either side of the bearings). Please find more details on this at the product page oin our website</p>				

Attachment Handpieces

High-Speed Handpieces

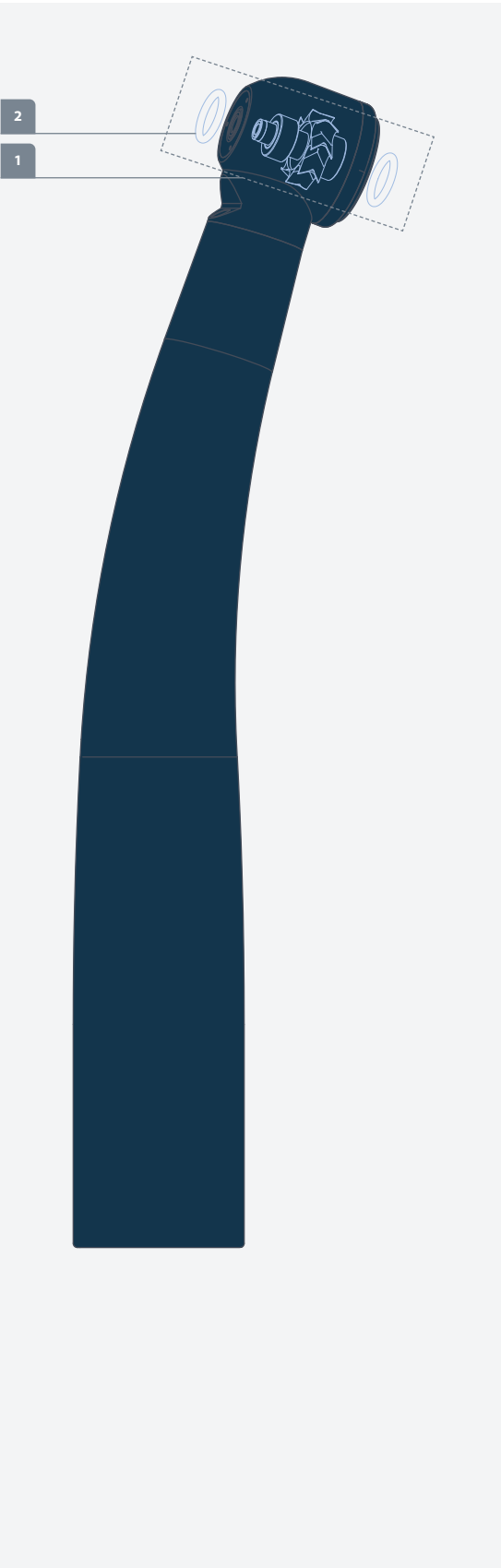
All Products







Sirona SiroBoost

Attachment Handpieces

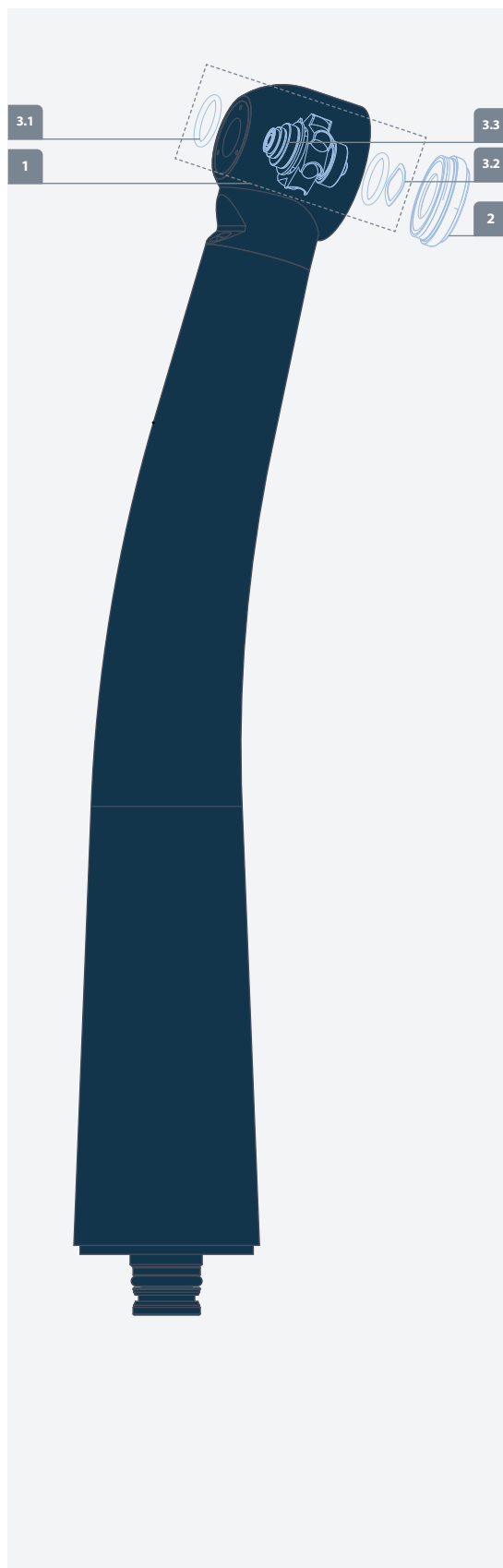
High-Speed Handpieces

All Products



Spare Parts				
 Complete rotor/Turbine				1
104	A10843.1	63 34 598	Rotor/Turbine	 12 months guarantee
109	A10868.0		Combo	
84	A10288.2		Radial ceramic bearing	
85	A10465.1		Angular-contact ceramic bearings	
 O-rings/Washers/Misc.				2
89	A10840.0		10-pack set of o-rings	

NSK Ti-Max Z800



Spare Parts



Complete rotor/Turbine

1

103	A10580.0	TiZ-MU03	Rotor/Turbine	12 months guarantee
110	A10579.0		Combo	12 months guarantee
65	A10837.0		Angular-contact ceramic bearing	bur side
85	A10838.0		Angular-contact ceramic bearing	cap side



Back cap

2

99	A11035.0	TiiZ-MU04	Back cap
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O-rings/Washers/Misc.

3

88	A10672.0	D0319063100	10-pack set of o-rings	3.1
91	A10274.0	P053360	10-pack set of wave washers	3.2
92	A10581.0		Slinger	3.3

Tools



95	A10927.0	Back cap key and head reamer
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Information

Please note the slinger A10581.0 only fits the ADENSYS combo and rotor/turbine for this model. It will not fit the original rotor/turbine

Attachment Handpieces

High-Speed Handpieces

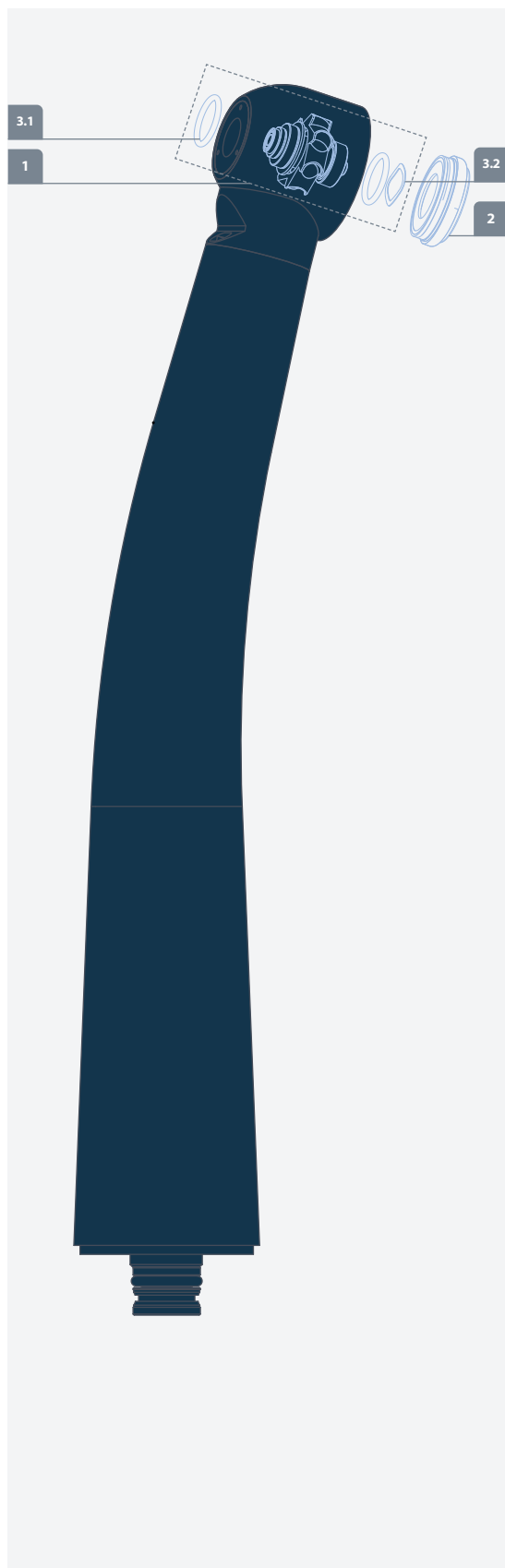
All Products

NSK Ti-Max Z900

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Complete rotor/Turbine

1

103	A10571.0	TiZ-SU03	Rotor/Turbine with OEM bearings	12 months guarantee
103	A10571.1	TiZ-SU03	Rotor / Turbine with std bearings	6 months guarantee
110	A10569.0		Combo to accommodate OEM bearings	12 months guarantee
110	A10569.1		Combo to accommodate std bearings	6 months guarantee
85	A10837.0		Flanged angular-contact ceramic bearing (OEM)	bur side
85	A10839.0		Flanged radial ceramic bearing (standard)	bur side
85	A10838.0		Angular-contact ceramic bearing (OEM)	cap side
84	A10287.2		Radial ceramic bearing (standard)	cap side



Back cap

2

99	A11034.0	P1052050	Back cap
----	----------	----------	----------



O-rings/Washers/Misc.

3

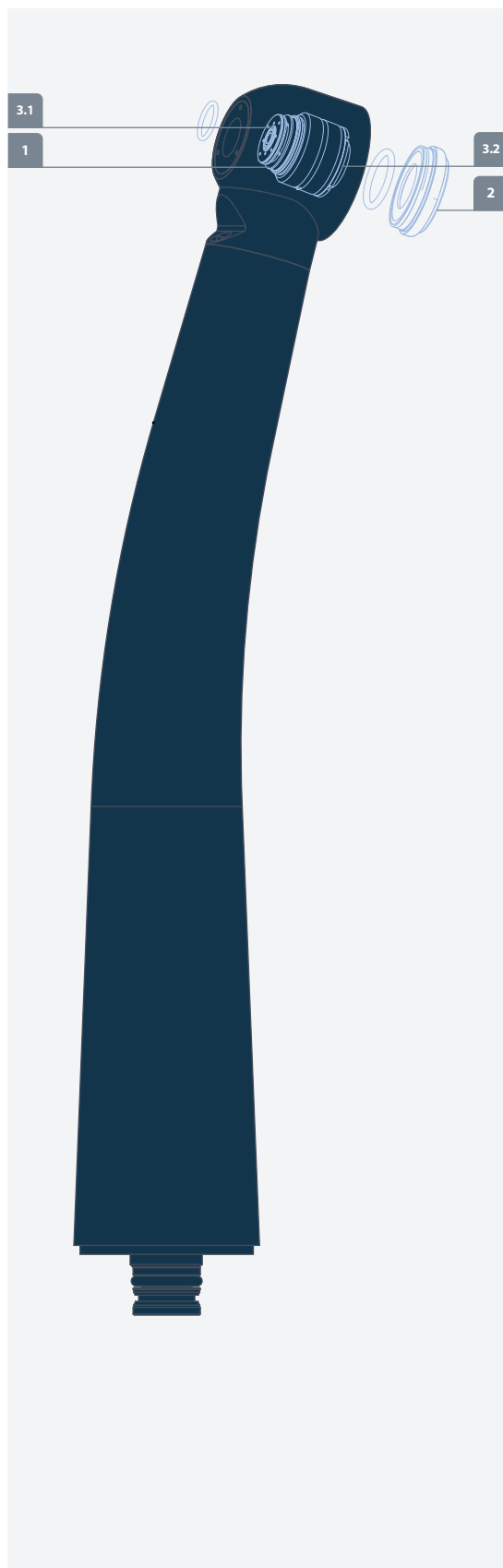
88	A10672.0		10-pack set of o-rings	3.1
91	A10274.0		10-pack set of wave washers	3.2

Tools



95	A10888.0		Back cap key
----	----------	--	--------------

NSK S-Max M600



Spare Parts



Complete rotor/Turbine

1

103	A10556.0	SX-SU03	Rotor/Turbine	12 months guarantee
84	A10295.0		Angular-contact ceramic bearing	bur side
84	A10390.0		Angular-contact ceramic bearing	cap side



Back cap

2

99	A11025.0	Back cap
----	----------	----------



O-rings/Washers/Misc.

3

89	A10921.0	10-pack set of o-rings canister smaller	3.1
89	A10922.0	10-pack set of o-rings canister larger	3.2

Tools



95	A10778.0	Back cap key
----	----------	--------------

Attachment Handpieces

High-Speed Handpieces

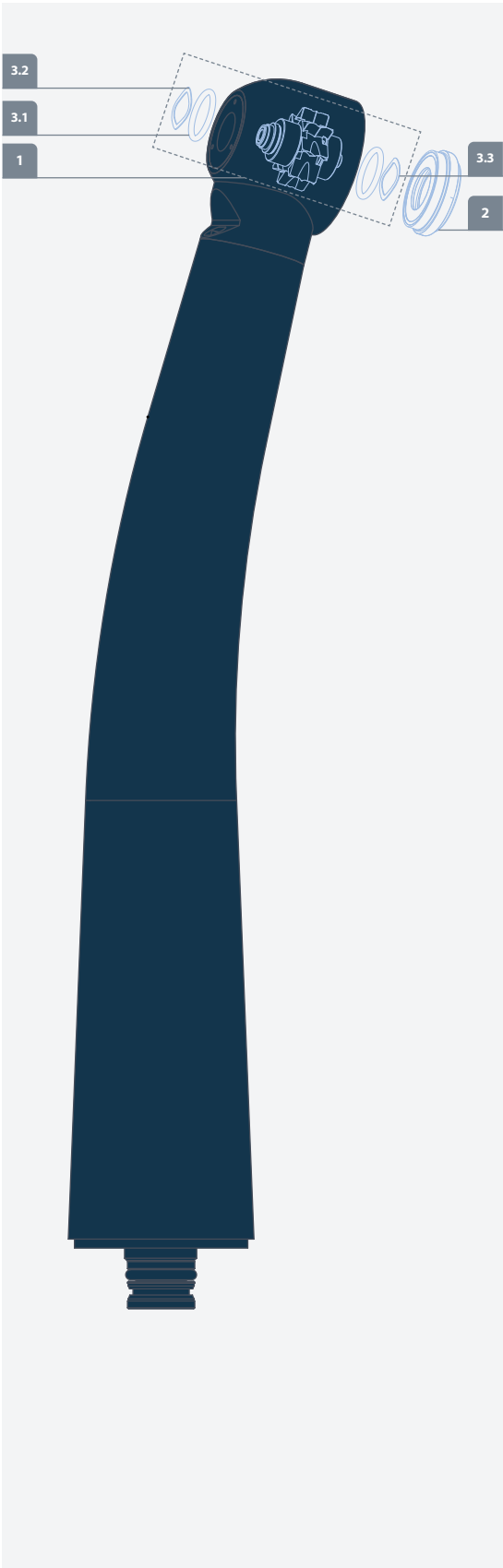
All Products

NSK Ti-Max X500 (NL9000M in the US)





Attachment Handpieces

High-Speed Handpieces


All Products



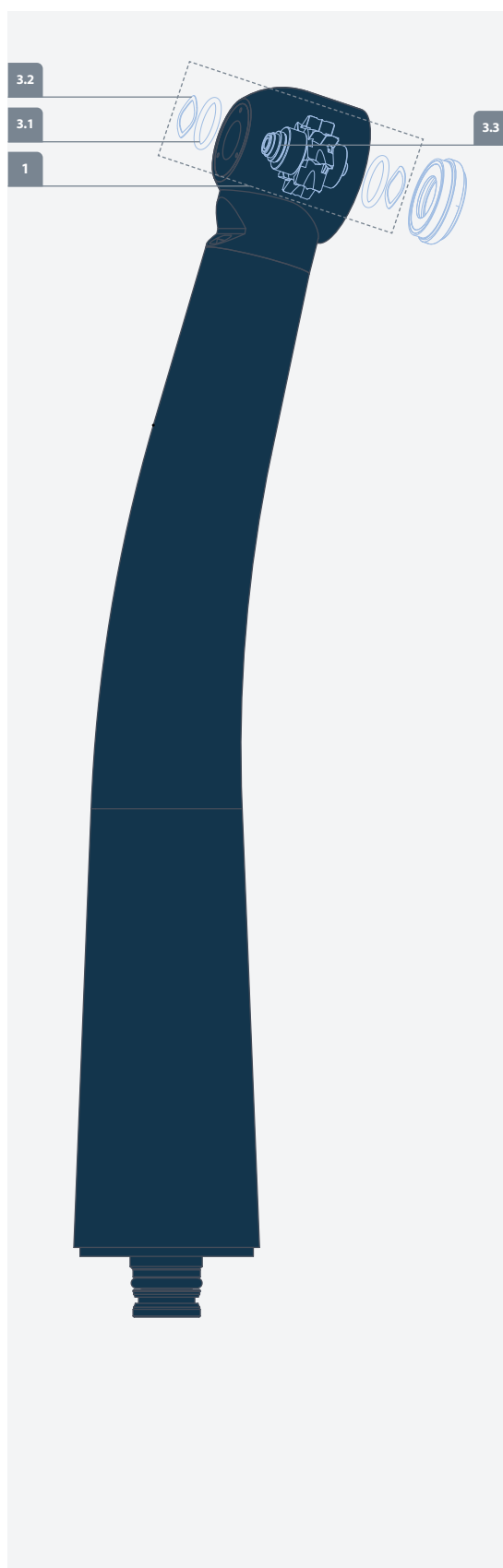
Spare Parts






			Complete rotor/Turbine	1
103	A10850.0	Ti-Mu03	Rotor/Turbine	 12 months guarantee
			Back cap	2
98	A10035.0	P067B050001	Back cap	
			O-rings/Washers/Misc.	3
92	A10672.0		10-pack set of o-rings	3.1
91	A10327.0		10-pack set of (front) wave washers	3.2 bur side
91	A10274.0		10-pack set of wave washers	3.3 cap side

Tools

				
95	A10727.0		Back cap key	

NSK Ti-Max X600 (NL9000 in the US)



Spare Parts				
 Complete rotor/Turbine				1
103	A10394.0	TIX-SU03	Rotor/Turbine	12 months guarantee
110	A10392.0		Combo	12 months guarantee
84	A10295.0		Angular-contact ceramic bearing	 bur side
84	A10390.0		Angular-contact ceramic bearing	 cap side
 Back cap				2
99	A11024.0		Back cap	
 O-rings				3
88	A10672.0		10-pack set of o-rings	3.1
91	A10274.0		10-pack set of wave washers	3.2
92	A10532.0		Slinger	3.3
Tools				
				
95	A10727.0		Back cap key	

Attachment Handpieces

High-Speed Handpieces

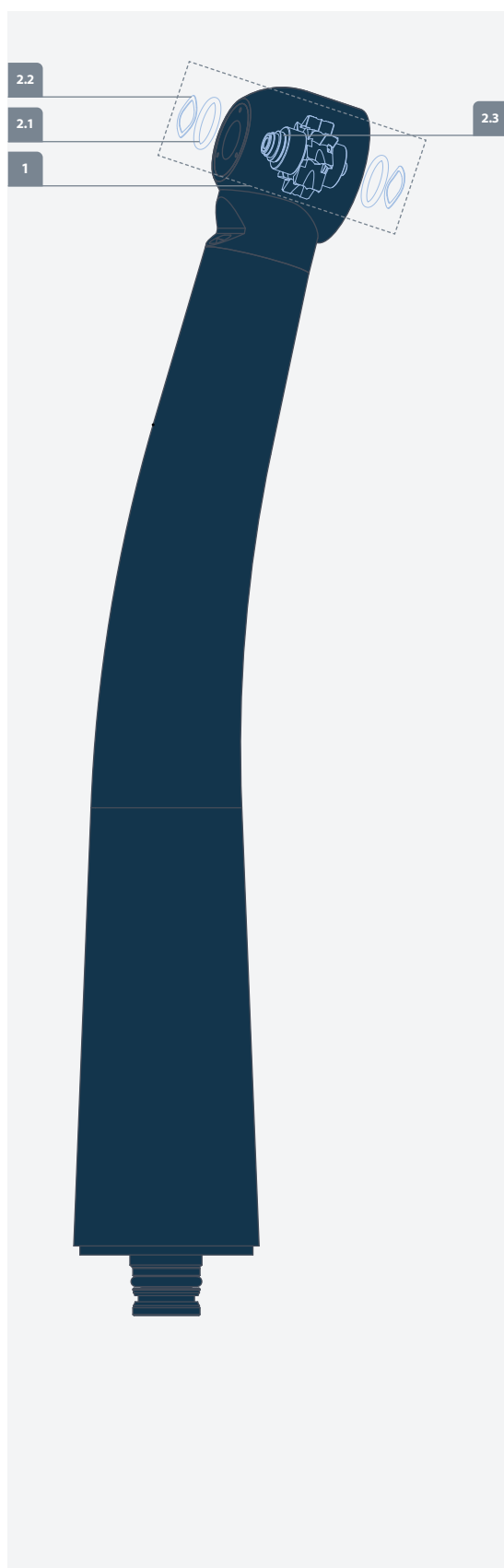
All Products

NSK Ti-Max X700 (NL9000T in the US)

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts



Complete rotor/Turbine

1

103	A10801.0	TiX-TU03	premium Rotor/Turbine	12 months guarantee
103	A10801.1	TiX-TU03	Rotor/Turbine	12 months guarantee
110	A10443.0		Combo	12 months guarantee
84	A10465.1		Angular-contact ceramic bearing	bur side
84	A10390.0		Angular-contact ceramic bearing	cap side



O-rings/Washers/Misc.

2

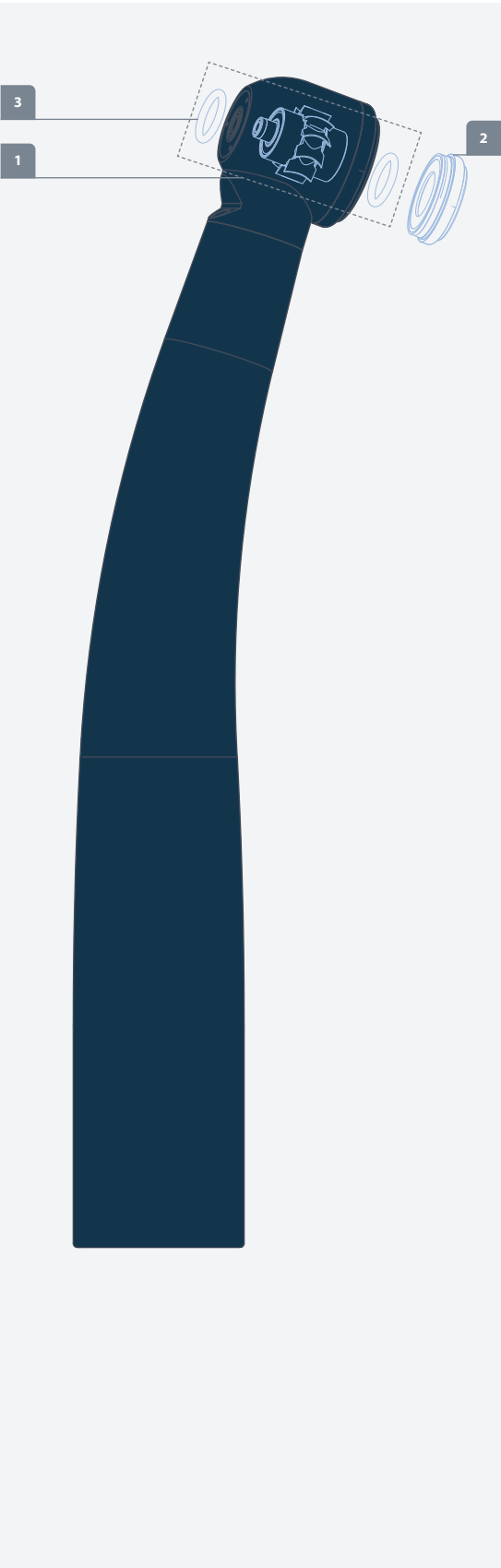
88	A10672.0		10-pack set of o-rings	2.1
91	A10327.0		10-pack set of wave washers	2.2
92	A10532.0		Slinger	2.3


Tools



95	A10727.0		Back cap key
----	----------	--	--------------

Bien Air Bora



Spare Parts				
 Complete rotor/Turbine				1
106	A10355.0	150 0181	Rotor/Turbine	12 months guarantee
111	A10356.0		Combo	12 months guarantee
84	A10358.0		Radial ceramic bearing	
 Back cap				2
98	A11014.0		Back cap	
 O-rings/Washers/Misc.				3
88	A10437.0		10-pack set of o-rings	
Tools				
				
94	A10720.0		Back cap key	

Attachment Handpieces

High-Speed Handpieces

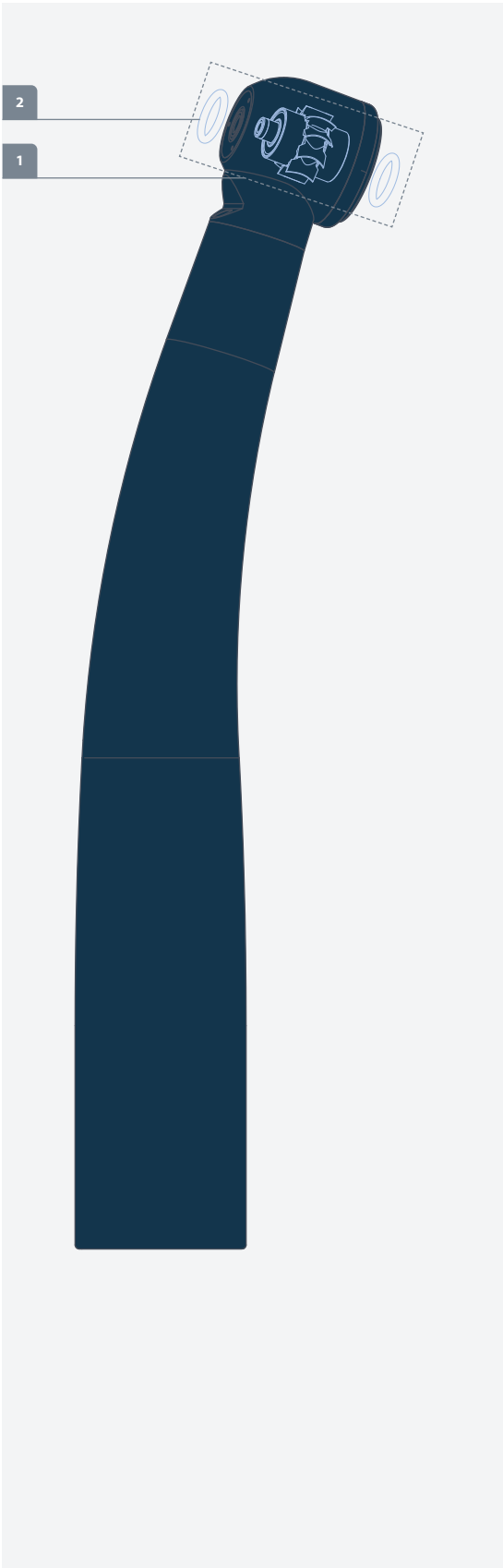
All Products

Bien Air Black Pearl






Attachment Handpieces

High-Speed Handpieces

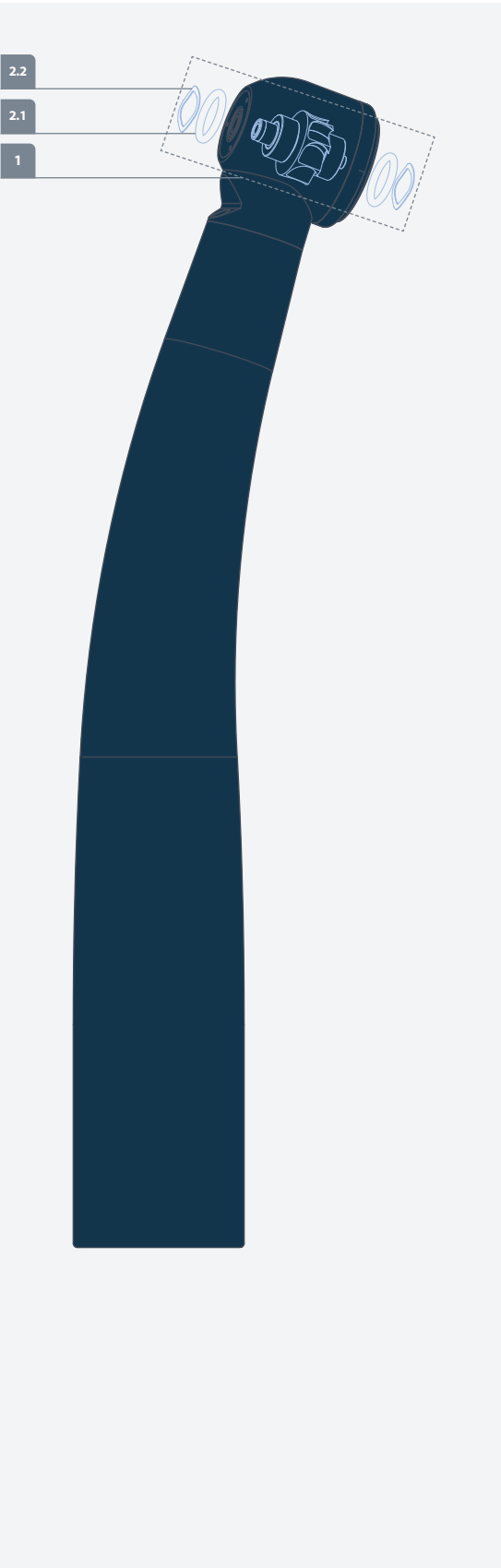
All Products





Spare Parts

Spare Parts				
 Complete rotor/Turbine				1
	A10847.0	1500164	Rotor/Turbine	 12 months guarantee
	A10866.0		Combo	 12 months guarantee
	A10358.0		Radial ceramic bearing	
 O-rings/Washers/Misc.				2
	A10437.0		10-pack set of o-rings	

Bien Air Tornado



Spare Parts				
<div>  Complete rotor/Turbine </div>				1
106	A10849.0	15 01 968	premium Rotor/Turbine	12 months guarantee
106	A10849.1	15 01 968	Rotor/Turbine	12 months guarantee
111	A10867.0		Combo	12 months guarantee
84	A10288.2		Radial ceramic bearing	
85	A10465.1		Angular-contact ceramic bearing	
<div>  O-rings/Washers/Misc. </div>				2
89	A10840.0		10-pack of o-rings	2.1
91	A10274.0		10-pack set of wave washers	2.2

Attachment Handpieces

High-Speed Handpieces

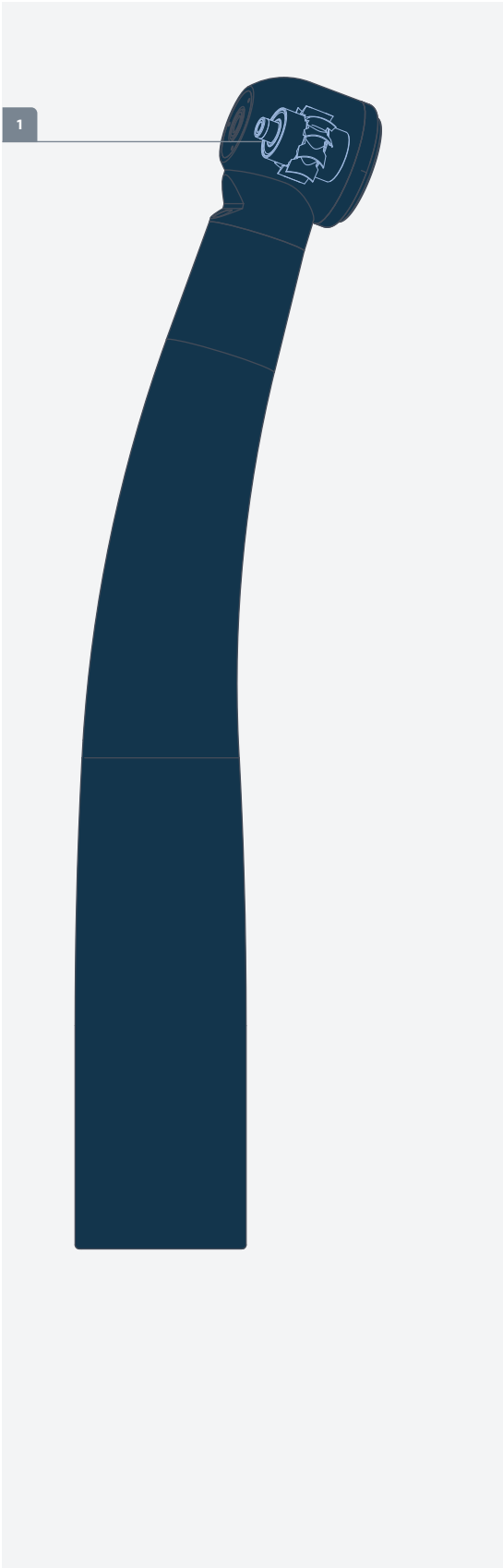
All Products


Bien Air Prestige S30-S32

Attachment Handpieces

High-Speed Handpieces

All Products



Spare Parts				
		Complete rotor/Turbine		1
106	A10848.1	15 00 486	Rotor/Turbine	12 months guarantee

All Products

High-Speed Handpieces

Attachment Handpieces

All Products.

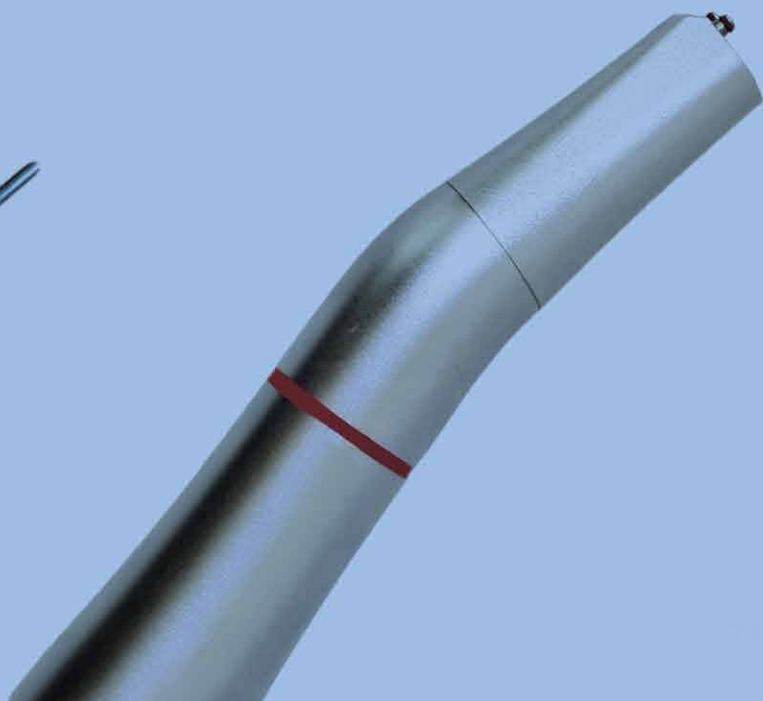
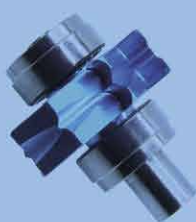
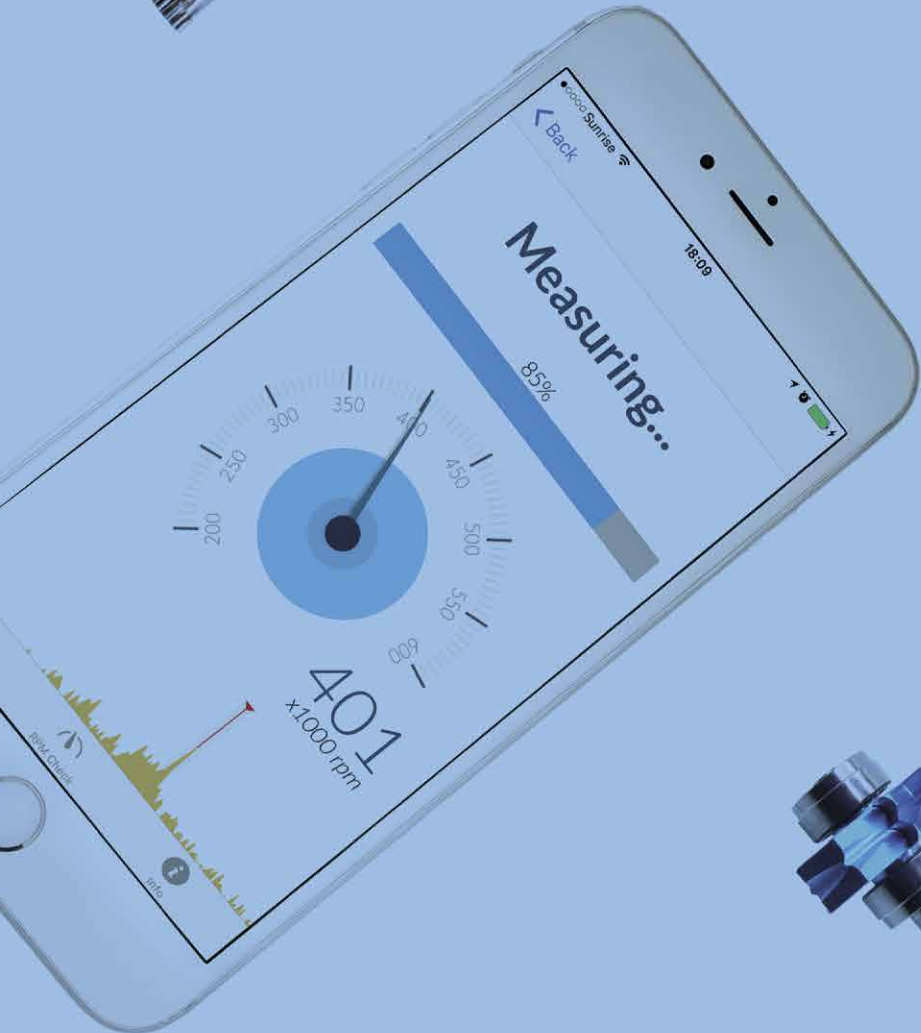
On the following pages you will find for different manufacturers and their turbines all suitable spare parts for a complete repair.

Attachment Handpieces

Parts/rotors for contra-angle handpieces	78
Bearings	84
O-rings	88
Gaskets	89
LED bulbs	90
Washers	91
Slings	92
Glass Rod Light Guides	93
Tools/Misc. parts	94
Back caps	98
Turbine couplings	99
Turbines/Rotors for high-speed handpieces	100

High-Speed Handpieces

All Products



Parts/rotors for contra-angle handpieces



Complete heads and head gear cartridges

made in Germany
12 months guarantee

1:5



A10014.0

KaVo 25LP(A)/200XD



A10015.0

KaVo 25LH(A)/25LN



A10016.0

Sirona A/C200L (9.7D),
B.A. International 250 LT



A10017.0

Bien Air 1.5L



A10018.0

KaVo E25L/E25C



A10019.0

NSK X95L/M95L



A10090.0

Sirona C200L (8.7D)



A10090.0

B.A. International BA250(L)T,
BA200LTS



A10090.0

Sirona A/C200L (8.7D), Midwest
E-Plus, B.A. International 200LTS



A10091.0

KaVo M25L



A10092.0

NSK Ti-Max Z95(L)



A10093.0

KaVo M05L

Not made in Germany



A10852.1

WH WA-99 A

Not made in Germany



A10853.0

WH WA-99 LT



A10882.0

NSK Ti-Max Z95(L)
Cartridge kit

Not made in Germany



A10902.0

WH Synea Fusion WG-99,
Vision WK-99

Attachment Handpieces

High-Speed Handpieces

All Products

Parts/rotors for contra-angle handpieces



Complete heads and head gear cartridges

1:1

6 months guarantee



A10546.0

KaVo 68LH/L68

6 months guarantee



A10554.1

Sirona C40L

6 months guarantee



A10657.0

KaVo 68LH/L68

6 months guarantee



A10656.0

KaVo 68LD

Attachment Handpieces

High-Speed Handpieces

All Products

Parts/rotors for contra-angle handpieces



Intermediate shafts – 1:5 handpieces

made in Germany
 12 months guarantee

1:5



A10080.0

Idler shaft (small) for KaVo
M05L/25LP(A)/M25L



A10446.0

KaVo E25L



A10448.0

NSK X95L



A10450.0

KaVo 25LP(A)/M25L



A10490.0

KaVo 25LH(A)/25LN



A10573.0

KaVo MASTERmatic Lux M05L



A10582.0

Sirona A/C200L, Midwest E-Plus/E-mini,
B.A. International 50LT/200LTS



A10582.0

B.A. International BA250(L)T,
BA200LTS



A10884.0

WH WA-99 A



A10885.0

WH WA-99 LT

1:1 and 4:1

Not made in Germany
 6 months guarantee



A10680.0

KaVo 68LH/L68

Not made in Germany
 6 months guarantee



A10572.0

KaVo 67LH/L67



A10883.0

Sirona C/A/E 40(L)

Attachment Handpieces

High-Speed Handpieces

All Products

Parts/rotors for contra-angle handpieces



Bundles – 1:5 handpieces

made in Germany
12 months guarantee



A10463.0

KaVo 25LP(A)
Drive kit



A10519.0

KaVo 25LH(A)/25LN
Drive kit



A10525.0

KaVo 25LH(A)/25LN
Complete drive set



A10550.0

KaVo 25LP(A)
Complete drive set



A10564.0

NSK X95L
Drive kit



A10565.0

KaVo M25L
Drive kit



A10566.0

KaVo M25L
Complete drive set



A10574.0

KaVo M05L
Drive kit



A10575.0

KaVo M05L
Drive kit



A10576.0

KaVo E25L
Drive kit



A10625.0

Bien Air 1.5L
Drive kit



A10771.0

A10771.0, X95L
Head kit



A10774.0

NSK X95L
Complete drive set



A10886.0

WH WA-99 LT/A (new)
Drive kit



A10887.0

WH WA-99 LT/A (old)
Drive kit



A10929.0

Sirona A/C200L (8.7D), Midwest
E-Plus, B.A. Intl 200LTS Drive kit

Attachment Handpieces

High-Speed Handpieces

All Products

Parts/rotors for contra-angle handpieces

Attachment Handpieces



Bundles – 1:5 handpieces



made in Germany



months guarantee



A10930.0

Sirona A/C200L (9.7D), B.A. Intl
250LT Drive kit



Dog gear



A10764.0

NSK Ti-Max X95(L)
NSK S-Max M95(L)

Not made in Germany



A10918.0

KaVo 25LP(A)

High-Speed Handpieces

All Products

Parts/rotors for contra-angle handpieces

Information

Please note that the front gears in A10770.0 only fit on original NSK intermediate shafts for the X95L. The ADENSYS intermediate shaft has a different design and A10770.0 will not fit on the ADENSYS intermediate shaft (A10448.0)



Gear packs for 1:5 contra-angle intermediate shafts



made in Germany



12 months guarantee



A10620.0

KaVo 25LP(A)/200XD/M25L/
M05L Head side



A10673.0

Bien Air 1.5(L)
Head side



A10675.0

KaVo 25LH(A)
Head side



A10676.0

KaVo 25LP(A)/M25L/M05L
Motor side



A10677.0

KaVo 25LH(A)
Motor side



A10770.0

NSK X95L/M95L
Head side



A10823.0

Kavo E25
Head side



A10907.0

NSK Z95L
Head side



A10920.0

Sirona A/C 200(L)
Head side

Attachment Handpieces

High-Speed Handpieces

All Products

Bearings



Bearings for high-speed / turbine handpieces

myonic



A10282.0

CE, RC, TC, AS, ST
ID: 3,175
OD: 5.980/6.350
W: 2.78
Germany

myonic



A10285.0

CE, RC, TC, AS, XI
ID: 3,175
OD: 6,350
W: 2.38/2.78
Germany

myonic



A10287.0

CE, RC, TC, SI
ID: 3,175
OD: 6,350
W: 2.38
Germany



A10287.2

CE, RC, TC, AS
ID: 3,175
OD: 6,350
W: 2,38
Japan



A10288.0

CE, RC, TC, SI
ID: 3,175
OD: 6,350
W: 2,78
Germany

myonic



A10288.2

CE, RC, TC, AS
ID: 3,175
OD: 6,350
W: 2,78
Japan



A10291.0

CE, AC, TC, AS, ST, XI
ID: 3,175
OD: 5.980/6.350
W: 2.38/2.78
Japan

myonic



A10292.0

CE, AC, TC, AS, ST
ID: 3,175
OD: 5.980/6.450
W: 2,78
Germany



A10295.0

CE, AC, TC, IS
ID: 3,175
OD: 6,350
W: 2,38
Japan

GRW



A10358.0

CE, AC, TC, NS
ID: 3,175
OD: 7,938
W: 3,57
Germany



A10390.0

CE, AC, TC, NS
ID: 3,175
OD: 6,350
W: 2,38
Japan

Bearings

Information

Please refer to **page 6** for the **explanation** of the two-letter property codes below. Please refer to **page 90** for general **technical information** about bearings.



Bearings for high-speed / turbine handpieces



A10465.1

CE, AC, TC, IS
ID: 3,175
OD: 6,350
W: 2,78
Japan



A10485.0

CE, AC, TC, IS, ST
ID: 3,175
OD: 5,980/6,350
W: 2,78
Japan



A10570.0

CE, RC, TC, AS, FL
ID: 3,175
OD: 7,500
W: 2,77
Germany



A10661.0

CE, AC, TC, IS, FL
ID: 3,175
OD: 6,350
W: 2,78
Japan



A10719.0

CE, AC, PH, IS, FL
ID: 3,175
OD: 6,350
W: 2,78
Germany

i Bearing kit includes wave washers and o-rings



A10734.0

CE, RC, TC, AS, FL
ID: 3,175
OD: 7,500
W: 2,77
Germany



A10830.0

CE, AC, TC, AS, ST, XI
ID: 3,180
OD: 7,08/7,50
W: 2,88
Germany



A10837.0

CE, AC, TC, IS, FL
ID: 3,175
OD: 6,350/7,900
W: 1,95/2,63
Germany



A10838.0

CE, AC, TC, IS
ID: 3,175
OD: 6,350
W: 1,95/1,75
Germany



A10839.0

CE, RC, PH, SI, FL
ID: 3,175
OD: 6,350
W: 2,38
Germany



A10924.0

CE, RC, TC, IS, ST
ID: 3,175
OD: 6,350
W: 2,35/2,45
Germany

Attachment Handpieces

High-Speed Handpieces

All Products

Bearings



Bearings for contra-angle / attachment handpieces

GRW



A10325.0

CE, RC, TC, AS
ID: 4,000
OD: 7,000
W: 2,00
Germany

GRW



A10326.0

CE, RC, TC, AS, XI
ID: 3,175
OD: 6,350
W: 1.90/2.70
Germany

myonic



A10335.0

CE, RC, TC, NS
ID: 3,175
OD: 7,000
W: 2,00
Germany

myonic



A10336.0

CE, RC, TC, NS
ID: 3,175
OD: 6,000
W: 2,00
Germany

myonic



A10371.0

SS, RC, TC, AS, XI
ID: 3,000
OD: 7,000
W: 2.35/3.35
Germany

myonic



A10372.0

SS, RC, TC, AS
ID: 4,000
OD: 7,000
W: 2,00
Germany

myonic



A10396.0

SS, RC, TC, AS
ID: 5,000
OD: 8,000
W: 3,00
Germany

myonic



A10464.0

SS, RC, TC, NS
ID: 2,000
OD: 5,000
W: 1,50
Germany

myonic



A10491.0

SS, RC, TC, NS
ID: 3,000
OD: 7,000
W: 3,00
Germany

myonic



A10621.0

CE, RC, TC, NS
ID: 4,000
OD: 7,000
W: 2,00
Germany

myonic



A10663.0

SS, RC, TC, AS
ID: 2,350
OD: 5,000
W: 1,50
Germany

GRW



A10666.0

CE, RC, TC, AS
ID: 4,000
OD: 7,000
W: 1,60/2,00
Germany

Bearings

Information

Please refer to **page 6** for the **explanation** of the two-letter property codes below. Please refer to **page 90** for general **technical information** about bearings.



Bearings for contra-angle / attachment handpieces

GRW



A10667.0

CE, RC, TC, NS, XI
ID: 3,175
OD: 6,350
W: 1.92/2.78
Germany

myonic



A10765.0

SS, RC, TC, NS
ID: 2,380
OD: 4,763
W: 1,59
Germany

myonic



A10781.0

SS, RC, TC, NS
ID: 2,000
OD: 4,700
W: 6,0
Germany

GRW



A10821.0

CE, RC, TC, NS, XI
ID: 3,175
OD: 5,800
W: 1,42/2,28
Germany

GRW



A10822.0

CE, RC, TC, AS
ID: 3,500
OD: 6,500
W: 2,00
Germany

myonic



A10834.0

CE, AC, TC, SI
ID: 3,800
OD: 6,600
W: 1,75
Thailand

myonic



A10925.0

CE, RC, TC, NS
ID: 2,358
OD: 5,500
W: 2,00
Germany

myonic



A10926.0

CE, RC, TC, NS
ID: 3,400
OD: 6,500
W: 1,60
Germany

Attachment Handpieces

High-Speed Handpieces

All Products

O-rings

Attachment Handpieces

High-Speed Handpieces

All Products

 O-rings				
				
A10271.0 10-pack set of KaVo o-rings	A10272.0 10-pack set of o-rings for Star Solara turbines	A10273.0 10-pack set of o-rings for WH, Sirona T2/T3 Racer	A10432.0 10-pack set of o-rings 6.0 x 0.85	
				
A10436.0 10-pack blue Quadrings Midwest	A10437.0 10-pack set of o-rings for Bien Air Bora	A10653.0 10-pack set of o-rings for head rotor Bien Air 1.5L	A10669.0 O-ring set for MULTiflex-compatible coupling	
				
A10672.0 10-pack set of o-rings for NSK X600(L)/NL9000/MW Stylus	A10704.0 10-pack set of o-rings 6.2 x 0.80	A10729.0 10-pack set of o-rings for Sirona T2 Control (6.3 x 0.8 mm)	A10745.0 10-pack O-ring d 4.9 x 0.3 mm for X95L/M95L/Z95L	
				
A10746.0 10-pack O-ring d 6.9 x 0.3 mm for canister X95L/M95L	A10763.0 10-pack O-ring for intermediate shaft X95L/M95L	A10797.0 10-pack O-ring for spray tube, rear (motor) side KaVo 25LP/E25L	A10798.0 10-pack O-ring for spray tube, front (head) side KaVo M25L/25LP/E25L	

O-rings/Gaskets

 O-rings			
			
A10799.0 10-pack O-ring for spray tube, rear (motor) side KaVo M25L	A10800.0 2-pack O-Ring for idler gear KaVo 25LP(A)/M25L and intermediate shaft 25LH(A)	A10840.0 10-pack set of o-rings	A10919.0 O-ring set for NSK coupling
			
A10921.0 10-pack set of o-rings for NSK M600 (5.25x0.3mm)	A10922.0 10-pack set of o-rings for NSK M600 (6.90x0.3mm)		
 Gaskets			
			
A10766.0 2-pack of gaskets for NSK Ti/S-Max X95(L)/M95(L)	A10872.0 Gasket for ISO 6-hole connection, turbine/coupling		

Attachment Handpieces

High-Speed Handpieces

All Products

LED bulbs

Attachment Handpieces

High-Speed Handpieces

All Products



LED bulbs for motor/coupling



A10298.0

LED bulb for MULTIflex (KaVo) coupling + motor



A10298.0

LED for Sirona brush motor



A10659.0











LED bulb for NSK coupling



A10662.0

LED bulb for Sirona coupling

Washers

<div>  Wave washers </div>			
			
A10274.0 10-pack set of wave washer for KaVo and WH turbines	A10327.0 10-pack set for KaVo turbines 6000/6500/4500/5000/E675/E677/E679/680	A10347.0 10-pack set of wave washers for cartridge KaVo 25LP(A)/E25L, NSK Z95L	A10733.0 10-pack set of wave washers and distance washer for Bien Air 1.5L
			
A10824.0 10-pack wave washer for KaVo M25L	A10828.0 10-pack set of WH Alegra TE 98(L) wave washers	A10875.0 10-pack set of Sirona T2/T3 Boost wave washers	A10893.0 10-pack set of wave washers for cartridge NSK X95L/M95L
			
A10923.0 10-pack set set of wave washers for Sirona/Midwest special stepped bearing			

Attachment Handpieces

High-Speed Handpieces

All Products

Slingers



Slingers



A10364.0

Slinger for KaVo 635/637



A10316.0

Slinger for KaVo 650



A10328.0

Slinger for Midwest Tradition
Lever/Push-Button



A10329.0

Slinger for KaVo 647/649



A10330.0

Slinger for Star 430/Solara



A10364.0

Slinger for KaVo 635/637



A10532.0

Slinger for KaVo 8000/6500,
NSK X600



A10581.0

Slinger for NSK Ti-Max Z800



A10688.0

Slinger for Midwest Stylus



A10652.0

Distance washer head rotor
Bien Air 1.5L



A10894.0

5-pack set of slinger washer for
cartridge NSK X95L/M95L



A10895.0

5-pack set of slinger bushing for
cartridge NSK X95L/M95L/Z95L



A10896.0

5-pack set of slinger washer for
cartridge NSK Z95L



A10897.0

Slinger set for cartridge NSK Z95L

Attachment Handpieces

High-Speed Handpieces

All Products

Glass Rod Light Guides



For high speed turbines and attachments



A10684.0

Glass rod for
WH Synea WA-56/99



A10685.0

Glass rod for
KaVo 25LP(A)/M25L



A10686.0

Glass rod for KaVo 25LH(A)



A10687.0

Glass rod for KaVo E25L



A10689.0

Glass rod for KaVo
6000/7000/6500/8000



A10709.0

Glass rod for KaVo 625/630/640



A10710.0

Glass rod for KaVo 642/645



A10711.0

Glass rod for KaVo
647/649/650/655/659/660



A10712.0

Glass rod for
Sirona T1 Classic Line



A10713.0

Glass rod for
Sirona T1/T2 Line C200L/C40



A10714.0

Glass rod for WH Synea TA-98L



A10715.0

Glass rod for WH Synea TA-97



A10739.0

Glass rod for KaVo
7LH/20LH/29LH/2068LH



A10740.0

Glass rod for KaVo 20LP / E20L



A10741.0

Glass rod for KaVo 24LN



A10773.0

Glass rod for WH WK-93/99 LT

Attachment Handpieces

High-Speed Handpieces

All Products

Glass Rod Light Guides/Tools/Misc. parts

Attachment Handpieces



For high speed turbines and attachments



A10784.0

Glass rod for NSK Z-Series
contra-angles



A10785.0

Glass rod for NSK M-Series
contra-angles



A10820.0

Glass rod for KaVo SONICflex
2003 / 2008L

High-Speed Handpieces



Back caps key



A10654.0

Back cap Key
KaVo 655/660/6000/6500



A10655.0

Back cap key KaVo 630/640/642



A10720.0

Back cap key for Bien Air Bora



A10721.0

Back cap key for
KaVo 5000 / M9000



A10723.0

Back cap key for
Sirona T1 Control / T1 Mini



A10724.0

Back cap key for
Sirona T2/T3 Racer



A10725.0

Back cap key for
WH Synea TA 98 / TA 96



A10726.0

Back cap key for WH Synea
TA 97 LED/TA 98 LED

All Products

Tools/Misc. parts

Information

More information on the technical specifications of our oil, including the adapters needed for different handpiece types can be found at <https://www.adensys.net/product-category/accessories/dental-oil>.



Back caps key



A10727.0

Back cap key for
NSK Ti-Max X500/X600/X700



A10728.0

Back cap key for KaVo 635/637



A10730.0

Key for crown cap on
KaVo 25LP(A)



A10726.0

Back cap key for WH
TE-97/TE-98



A10736.0

Back cap key for
NSK X95L/M95L



A10778.0

Back cap key for
NSK M600/Pico



A10779.0

Back cap key for WH
TK 94/TK 100



A10888.0

Back cap key for
NSK Z900



A10909.0

Key for crown cap on KaVo M25L



A10910.0

Back cap key for Sirona T1, T2
Control (600 000 < SN < 800 000)



A10913.0

Back cap key for Sirona T1-T3
Boost (600 000 < SN < 800 000)



A10927.0

Back cap key and reamer for
NSK Z800

Attachment Handpieces

High-Speed Handpieces

All Products

Tools/Miscellaneous parts



Other tools / parts / maintenance equipment



A10299.0

Retention force checker
(for 1.6 mm bur)



A10668.0

Digital one-channel
manometer for drive air



A10678.0

Removal tool for front gear of
interm. shaft, D4.0 mm (ex: X95L,
Z95L, Bien Air 1.5L)



A10731.0

Ejector pin for push button
KaVo 25LP(A)



A10744.0

ADENSYS precision tweezers
105mm stainless steel, non-magnetic



A10783.0

Water filter for
KaVo 6000/6500/7000/8000

made in Germany



A10790.0

ADENSYS handpiece
maintenance spray 500ml



A10793.0

Spray adapter for MULTIflex/KaVo



A10794.0

Spray adapter for Sirona



A10795.0

Spray adapter for NSK



A10796.0

Spray adapter for WH

made in Germany



A10809.0

ADENSYS handpiece
maintenance spray 250ml



A10813.0

6-pack ADENSYS handpiece
maintenance spray 500ml



A10878.0

3-in-1 spray adapter for
contra-angles



A10891.0

Jig to hold intermediate shaft
during assembly / dis-assembly



A10898.0

Tool for o-ring assembly inside
canister NSK

Tools/Miscellaneous parts

Information

More information on the technical specifications of our oil, including the adapters needed for different handpiece types can be found at <https://www.adensys.net/product-category/accessories/dental-oil>.



Other tools / parts / maintenance equipment



A10899.0

Tool to remove rear bearing of NSK X95L/M95L



A10900.0

Tool to push actuator side of turbine spindles



A10901.0

Fixture to remove front bearing + slingers, NSK X95L/M95L/Z95L



A10903.0

Fixture to help remove head housing KaVo 25LP(A)



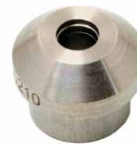
A10904.0

Fixture to help remove head housing KaVo E25L



A10905.0

Fixture to help remove head housing KaVo M25L/M05L



A10928.0

Jig to remove canister NSK X95L/M95L

Attachment Handpieces

High-Speed Handpieces

All Products

Back caps



Back caps for high-speed / turbine handpieces

Attachment Handpieces



A10035.0

Back cap for NSK Ti-Max X500



A10742.0

Complete back cap for
KaVo E25L



A10914.0

Complete back cap for
NSK Ti-Max X700



A10915.0

Complete back cap for
Bien Air Black Pearl



A10917.0

Complete back cap for
NSK Ti-Max X95(L)



A11013.0

Complete back cap for KaVo 640



A11014.0

Complete back cap for
Bien Air Bora



A11015.0

Complete back cap for
KaVo 635 / 637



A11016.0

Complete back cap for
KaVo 647 / 649 / 650



A11017.0

Complete back cap for
KaVo 6500 / 8000 / M9000



A11018.0

Complete back cap for
KaVo 655 / 660 / 6000 / 7000



A11019.0

Complete back cap for
WH TA-98



A11020.0

Complete back cap for
WH TA-98 LED



A11021.0

Complete back cap for
KaVo E679 / E680



A11022.0

Complete back cap for
KaVo 639 / 642 / 645



A11023.0

Complete back cap for
WH TE-98 RM

High-Speed Handpieces

All Products

Back caps/Turbine couplings



Back caps for high-speed / turbine handpieces



A11024.0

Complete back cap for
NSK X600L



A11025.0

Complete back cap for
NSK M600L



A11026.0

Complete back cap for Star 430



A11027.0

Complete back cap for
KaVo 4500 / 5000 / E675 / E677



A11029.0

Crown cap for
KaVo 25LP/25LPA/25LPR



A11030.0

Complete back cap assembly for
KaVo M25L



A11034.0

Complete back cap for
NSK Ti-Max Z900



A11035.0

Complete back cap for NSK
Ti-Max Z800



Turbine couplings



A10660.0

MULITflex (KaVo)-style
6-pin LED coupling



A10679.0

NSK compatible
6-pin LED coupling



A10780.0

Sirona 6-pin LED coupling for
turbine / high-speed handpiece



A10836.0

WH RQ-24 compatible 6-pin
coupling

Attachment Handpieces

High-Speed Handpieces

All Products

Turbines/Rotors for high-speed handpieces



Complete rotors/turbines



made in Germany



12 months guarantee

KaVo



A10007.0

KaVo 6000 premium



A10007.1

KaVo 6000



A10008.0

KaVo 6500B premium



A10008.1

KaVo 6500B



A10250.0

KaVo 630/640 premium



A10250.1

KaVo 630/640



A10251.0

KaVo 650 premium



A10251.1

KaVo 650



A10252.0

KaVo 655/660 premium



A10252.1

KaVo 655/660



A10253.0

KaVo 7000 premium



A10253.1

KaVo 7000



A10254.0

KaVo 8000/6500 BR premium



A10254.1

KaVo 8000/6500 BR



A10255.0

KaVo 635/637 premium



A10255.1

KaVo 635

Attachment Handpieces

High-Speed Handpieces

All Products

Turbines/Rotors for high-speed handpieces



Complete rotors/turbines



made in Germany
12 months guarantee

KaVo



A10259.0

KaVo 642/645 premium



A10259.1

KaVo 642/645



A10300.0

KaVo 647/649 premium



A10300.1

KaVo 647/649



A10345.0

KaVo 4500/5000 premium



A10349.0

KaVo 635/637



A10349.1

KaVo 635/637



A10533.0

KaVo 636/646 premium



A10533.1

KaVo 636/646



A10535.0

KaVo E679/E680 premium



A10535.1

KaVo E679/E680



A10540.0

KaVo M8900/M9000 premium



A10540.1

KaVo M8900/M9000



A10560.0

KaVo A675/677 premium



A10560.1

KaVo E675/E677

Not made in Germany



A10845.1

KaVo S609/S619

Attachment Handpieces

High-Speed Handpieces

All Products

Turbines/Rotors for high-speed handpieces



Complete rotors/turbines



made in Germany



12 months guarantee

KaVo

Not made in Germany



A10844.1

KaVo Mini
S605/S615

Not made in Germany



A10846.0

KaVo Mini
M8700 premium

Not made in Germany



A10846.1

KaVo Mini
M8700

Midwest



A10010.0

Midwest Tradition Lever



A10011.0

Midwest Tradition Push-Button



A10431.0

Midwest Stylus 360/361



A10606.0

Midwest Quiet Air Lever



A10947.0

Midwest Tradition TB/TL/Pro TBL/
Pro TLF premium (2017-2019)



A10947.1

Midwest Tradition TB/TL/Pro
TBL/Pro TLF (2017-2019)

Attachment Handpieces

High-Speed Handpieces

All Products

Turbines/Rotors for high-speed handpieces



Complete rotors/turbines

made in Germany
12 months guarantee

NSK



A10394.0

NSK TiMax X600 (NL9000)



A10556.0

NSK S-Max M600



A10571.0

NSK Ti-Max Z900
(original-style bearings)



A10571.1

NSK Ti-Max Z900
(alternative-style bearings)



A10580.0

NSK Ti-Max Z800



A10801.0

NSK TiMax X700 (NL9000T)
premium



A10801.1

NSK TiMax X700 (NL9000T)

Not made in Germany



A10850.0

NSK Ti-Max X500

Attachment Handpieces

High-Speed Handpieces

All Products

Turbines/Rotors for high-speed handpieces



Complete rotors/turbines



made in Germany



12 months guarantee

Sirona



A10353.0

Sirona T2/T3 Racer premium



A10353.1

Sirona T2/T3 Racer



A10456.0

Sirona T1 Control (TC3) premium



A10456.1

Sirona T1 Control (TC3)



A10493.0

Sirona T2 Control premium



A10493.1

Sirona T2 Control



A10563.0

Sirona T1 Control CS



Not made in Germany

A10805.1

Sirona T2/T3 Boost (SN > 600.000)



A10854.1

Sirona T2/T3 Boost CBM (SN > 700.000)



A10843.1

Sirona SiroBoost

Not made in Germany

Not made in Germany

Attachment Handpieces

High-Speed Handpieces

All Products

Turbines/Rotors for high-speed handpieces



Complete rotors/turbines



made in Germany



months guarantee

WH



A10337.0

WH TA-98 premium



A10337.1

WH TA-98



A10558.0

WH Alegria TE-98(L)



A10359.0

WH TA-98 LED premium



A10359.1

WH TA-98 LED



A10360.0

WH TA-96 premium



A10360.1

WH TA-96



A10601.0

WH TG-98/TA-98/TK-98L
CLEd premium



A10601.1

WH TG-98/TA-98/TK-98L
CLEd



A10458.0

WH TA-97 LED premium



A10458.1

WH TA-97 LED

Not made in Germany



A10806.0

WH Synea Vision TK-100
premium

Not made in Germany



A10806.1

WH Synea Vision TK-100

Attachment Handpieces

High-Speed Handpieces

All Products

Turbines/Rotors for high-speed handpieces



Complete rotors/turbines

made in Germany
12 months guarantee

Bien Air



A10355.0

Bien Air Bora

Not made in Germany



A10847.0

Bien Air Black Pearl

Not made in Germany



A10848.1

Bien Air Prestige

Not made in Germany



A10849.1

Bien Air Tornado

Not made in Germany



A10849.0

Bien Air Tornado premium

Star



A10549.0

Star 430 Lube-Free

B.A. International



A10493.1

BA 670 Ultimate



A10353.1

BA 675/680/685 Ultimate



A10854.1

BA 695 Ultimate

Attachment Handpieces

High-Speed Handpieces

All Products

Turbines/Rotors for high-speed handpieces



Complete rotors/turbines



made in Germany



12 months guarantee

MK-dent



A10250.1

HC2022, HC4021M/K (from SN. F), all other HC 4021, HC5021, HC6021



A10254.1

HC8021, HC9021



A10345.0

HC8022, HC9022



A10560.0

HE14, HE16L, HE22

Attachment Handpieces

High-Speed Handpieces

All Products

Turbines/Rotors for high-speed handpieces



Spindle/impeller combos



made in Germany



12 months guarantee

KaVo

COMBO



A10229.0

KaVo 6000/7000

COMBO



A10226.0

KaVo 630/640/647/649/650

COMBO



A10225.0

KaVo 635/637

COMBO



A10534.0

KaVo 636/646

COMBO



A10233.0

KaVo 642/645

COMBO



A10230.0

KaVo 6500/8000

COMBO



A10228.0

KaVo 655/660

COMBO



A10536.0

KaVo E679/E680

COMBO



A10435.0

KaVo M8900/M9000

COMBO



A10488.0

Midwest Quiet Air Lever

COMBO



A10382.0

Midwest Stylus 360/361

COMBO



A10370.0

Midwest Tradition Lever

COMBO



A10338.0

KaVo E675/E677/4500/5000

COMBO

Not made in Germany



A10862.0

KaVo Mini S605/S615

COMBO



A10863.0

KaVo S609/S619

COMBO

Not made in Germany



A10864.0

KaVo Mini M8700

Attachment Handpieces

High-Speed Handpieces

All Products

Turbines/Rotors for high-speed handpieces



Spindle/impeller combos

made in Germany
12 months guarantee

Sirona

COMBO



A10452.0

Sirona T2 Control

COMBO



A10351.0

Sirona T2/T3 Racer

COMBO



A10454.0

Sirona T1 Control (TC3)

COMBO



A10562.0

Sirona T1 Control CS (600 000
< SN < 800 000)

COMBO



A10868.0

Sirona SiroBoost

Midwest

COMBO



A10224.0

Midwest Tradition Push-Button

COMBO



A10382.1

Midwest Stylus Lite 360/361

COMBO



A10861.0

Midwest Tradition TB/TL/Pro
TBL/Pro TLF (2017-2019)

Attachment Handpieces

High-Speed Handpieces

All Products

Turbines/Rotors for high-speed handpieces



Spindle/impeller combos



made in Germany



12 months guarantee

NSK

COMBO



A10392.0

NSK X600 (NL9000)

COMBO



A10443.0

NSK X700 (NL9000T)

COMBO



A10569.0

NSK Ti-Max Z900 for
original-style bearings

COMBO



A10569.1

NSK Ti-Max Z900 for
alternative-style bearings

COMBO



A10579.0

NSK Ti-Max Z800

Star

COMBO



A10222.0

Star 430

Attachment Handpieces

High-Speed Handpieces

All Products

Turbines/Rotors for high-speed handpieces



Spindle/impeller combos

made in Germany
12 months guarantee

WH

COMBO



A10339.0

WH TA-96

COMBO



A10232.0

WH TA-98

COMBO



A10340.0

WH TA-98 LED

COMBO



A10457.0

WH TA-97 LED

COMBO



A10559.0

WH Alegria TE-98

COMBO



A10604.0

WH TG-98/TA-98/TK-98L
CLED

COMBO Not made in Germany



A10865.0

WH Synea Vision TK-100

Castellini

COMBO



A10542.0

Castellini Cleanair 2000

COMBO



A10543.0

Castellini Titanium Gold

Bien Air

COMBO



A10356.0

Bien Air Bora

COMBO Not made in Germany



A10866.0

Bien Air Black Pearl

COMBO Not made in Germany



A10867.0

Bien Air Tornado

Attachment Handpieces

High-Speed Handpieces

All Products

Dental bearing technology.

For all rotating dental equipment, bearings are a critical determinant of the performance and overall quality. Given that most dental equipment undergoes reprocessing between patients (including disinfecting and/or sterilizing), bearings undergo a lot of thermal and chemical stresses. For this reason, it is extremely important that high quality bearings are used in order to ensure optimal product reliability.

At ADENSYS, we work with bearings from a number of different premium-quality manufacturers based in either Japan or Germany. One thing is clear – bearings are all different! One can never just compare, for example, 4 x 7 x 2 mm bearings without context. It is important to understand the different parameters and mechanical properties when installing and using bearings to service dental equipment.

We know how confusing it can be to understand the different factors that separate bearings from one another. Please consult the following guide to help you through the dizzying world of dental bearing technology..

Steel Versus Ceramic

If you are involved in the repair of dental handpieces, you will surely have been confronted by the question of “steel versus ceramic” bearings. You may have even heard that ceramic are better. But what does this mean? First off, we need to be clear about nomenclature: when we talk about ceramic bearings, these are in fact hybrid bearings. They are built with steel inner and outer races, but it is the balls that are ceramic. The ceramic balls are typically silicon nitride, or an equivalent material.

Ceramic bearings do, indeed, offer two key benefits over steel bearings:

- 1. Ceramic balls are rounder than steel balls. They also have a smoother surface and more uniform size. These two factors lead to lower overall rolling resistance, which in turn lead to lower turning friction for the bearing. Lower friction means that less torque is needed to turn the bearing, and more input energy is transferred to the spindle.**
- 2. Ceramic balls are harder than steel balls, and the ceramic material will never corrode. This improves durability and will last to longer lifetime overall.**

These two factors mean that, if all other factors are equal, a ceramic bearing will outlast and outperform a steel bearing at all times. For this reason, ADENSYS carry only ceramic bearings in their product portfolio for all high speed applications (i.e. >150K rpm).

ABEC or ISO quality levels

Bearings are classified in quality levels, which correspond to the precision of the individual parts that are being used to build the final product. In the US, these quality levels are classified according to the ABEC scale. In Europe, this quality is classified on the ISO P-scale. Looking at the ABEC scale, the higher the ABEC classification, the more precise the individual components. For the P-scale, it is the opposite; the lower the P-classification, the higher the part precision. Generally, for dental handpiece applications, we suggest the use of ABEC 5 / P5 or better. Although better (i.e. more precise) classifications are generally better for bearing lifetime and performance, the prices also increase with every step up. We suggest that it does not make sense to install any bearings with classifications above ABEC 9 or P4, as the precision improvements above these levels will have negligible effect on performance and lifetime, despite large cost increases.

At ADENSY, we generally use ABEC 7/9 or P4P bearing classifications for our high-speed applications (i.e. for turbines or the head gear rotors in 1:5 contra-angles). These are hybrid quality levels (with some components at ABEC 7 / P4 quality levels and some components at even higher levels).

Please be sure that, whenever you compare different bearings, you know the quality classification! You should also check that marketed classifications are legitimate. It is common to see companies selling dental bearings that have been promoted as “ABEC 9”, for example, but when you ask for documentation to prove this, none exists.

Cage materials: torlon and phenolic

The bearing cage is a part of the bearing that resides between the inner and outer races. Its main function is to keep the space between balls as the bearing rotates. The interface between the balls and the cage account for a large part of the friction inside a bearing and the cage material is therefore selected to introduce as little friction as possible within the bearing. At the same time, the cage need to be able to withstand the high temperature and corrosive loads that come from the reprocessing of dental handpieces. When bearings fail within a dental handpiece or motor, the cause of the failure can be traced to the failure of the cage in a huge majority of cases. Generally, there are two materials that are found in the majority of high-speed dental bearings:

Phenolic



This cage type is actually a cloth material, which is set in place using a phenolic resin. It can be identified by its brownish colour. A phenolic cage is desirable for use in dental applications for the following reasons:

- Low coefficient of friction
- Ability to absorb lubricants
- High strength-to-weight ratio
- Easily machined

The one drawback of the phenolic cage is that it does not deal well with repeated thermal loads (like from a autoclave/sterilizer). For this reason, engineers have moved to increasingly using different cage materials for dental handpieces.

Torlon



This cage type is a polyamide resin that is strengthened with graphite. The graphite addition gives it its black colour. Torlon has many of the same benefits of phenolic, but it has improved temperature resistance and excellent chemical resistance. The one drawback of the torlon cage is that it does not absorb lubrication as well as phenolic, meaning that it is more sensitive to missing lubrication.

It should be noted that bearings cages from both of these materials can be produced through machining or a moulding process. Machined cages will generally offer better stability and overall mechanical strength but machined cages are generally more costly. All of this is to say that it is not just important to know the cage material, but it is also important to know how the bearings was produced!

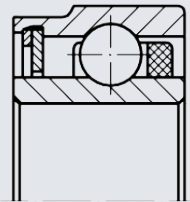
Radial versus Angular-Contact

Generally, in dental handpiece applications, you will encounter two main bearing geometry/ construction principles: 1) deep-groove ball bearings (DGBB), also known as radial bearings, or 2) angular contact ball bearings (ACBB). Each of these bearing types has distinct advantages and disadvantages. As you will see in this catalogue, in the section on dental bearings, ADENSYS carries both DGBB and ACBB in inventory. This way, we can address customers who express a preference for either of these bearing types. Still, it is important to understand the differences.



DGBB

Radial bearings are produced with symmetrical grooves in the inner and outer races in which the balls travel as the bearing rotates. They can therefore accept axial loads in both directions. Related to dental handpiece repair, this means that there is no risk of the bearing falling apart when it is assembled or disassembled from the handpiece.

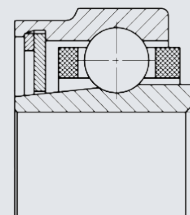


However, given the building principle of these bearings, the cage is assembled as a final step and must be fitted in place from one side. For this reason, radial bearings use a so-called snap-in cage. The disadvantage of a snap-in cage is that it has less mechanical stability than a full cage (see ACBB). This makes a radial bearing inherently less robust, in terms of bearing lifetime, than an angular contact bearing.



ACBB

Angular contact bearings have an asymmetrical geometry, given that the grooves in the inner and outer bearing races are machined with a particular contact angle. Radial and axial loads are designed to be transferred from one ring to the other, through balls, along a specific contact line. With this design, there is nonstop contact between the balls and both bearing raceways. This allows for much higher speed ratings. The contact line is determined by a taper, which is machined into the contact surface of the inner or outer race of the bearing.



A massive benefit of the ACBB is that the build principle call for the tapered element to be assembled as last step (depending on the design type, this means either the inner or outer race will be assembled last). Given that the bearing cage is not assembled as a last step, it is possible to use a full bearing cage design. The full bearing design is much more robust than the snap-in cage used in radial bearings.

The disadvantage of an ACBB is that the bearing cannot support axial loads in both directions. With regards to dental handpiece repair, this means that, although an ACBB can support huge load in the operational axial direction, the bearing can fall apart when it is pulled in the opposite direction. This commonly happens if a rotor or turbine assembly is pulled out of a head housing prior or during a repair.

As explained above, the ACBB has huge advantages in terms of overall performance and reliability. For this reason, most dental handpiece manufacturers use angular contact bearings in new handpieces. However, the weakness of the ACBB to support axial loads in both directions means that many repair professionals choose to use radial bearings for dental handpiece repair.

Conclusion

As we have written a few times in this text, there are a huge amount of mechanical and construction properties that can differentiate one bearing from another, even if they have the same general outer dimensions. To be clear, this text only highlights some of the most relevant properties for handpiece repair technicians. There are still many more properties that could be analysed (internal clearances, shield construction, lubrication and much more...).

The most important message that we want to bring across is that bearings should not be compared on an apples-to-apples basis until all of these factors have been understood. Next time you are offered a great price for a dental bearing, we hope you will use this guide to understand more about the real value. Not just price!

Please contact us if we can support you in finding the right bearing for your application.

The ADENSYS Quality Standard.

As the two founders of ADENSYS, we have combined experience of **more than 40 years** in the development and production of dental equipment. The formative years of this product development experience were spent at **world-renowned manufacturers** in the German-speaking dental world, and the years in our pre-ADENSYS careers helped craft our **vision for value, quality and reliability**. We realize that the dental market, like any other industry, is competitive.

Therefore, we know we have to bring **cost-effective solutions** to the market. But, at the same time, we believe that customers are best served when they **receive products and services** that go above and beyond. We are not satisfied to deliver just another “me-too” product at a **better price**.

It is **our goal** to exceed **customer expectations** in terms of the **quality and performance** of our products and services. If we can deliver this at **competitive price**, we’ve accomplished our mission!

Given this, ADENSYS strives to be the **highest quality provider of parts** and services regarding the **manufacturing and service** of dental handpieces.

The ADENSYS Mission

It is easy to write about the high quality we strive to deliver but it is a whole other thing to deliver on this every day, for every transaction or product. To start with, we live the mantra indicated above in all of our processes and dealings, and we extend this philosophy to all of our stakeholders: our shareholders, our suppliers, our employees and our customers. Additionally, our philosophy has to extend to all of our business processes:

1. **We use processes to ensure quality in our product and service development**
2. **We build checks and assurances prior to product or service launch**
3. **We monitor results in the markets in order to sense issues that need immediate addressing**
4. **We define and implement corrective actions**

This is dedicated implementation of the PDCA cycle, which was developed by the renowned engineer and statistician Walter Shewhart in 1929:



ADENSYS Quality – materials and construction



Ceramic, high-quality bearings with, when possible, higher bearing width than OEM's
Increased lifetime

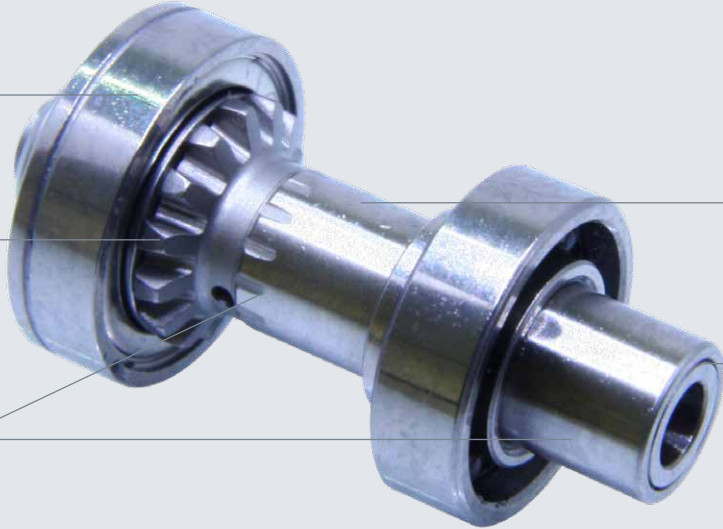
Turbine assemblies (rotors) balanced to 0.2mgmm
Reduced vibration Increased bearing lifetime

All aluminium alloy impellers are anodized
Reduced corrosion Improved hygiene

All components made from high-quality medical-grade stainless steel
Reduced corrosion

Axis components laserwelded after assembly
Increased reliability

Every rotor marked with a unique serial number
Component traceability



Ceramic, high-quality bearings with exact OEM specifications
Increased lifetime


Extra-strenght, precalibrated chuck designed to carry increased torque of 1:5 handpieces
Increased reliability

Precision cut gear teeth and exact runout, measured on CMN
Improved performance

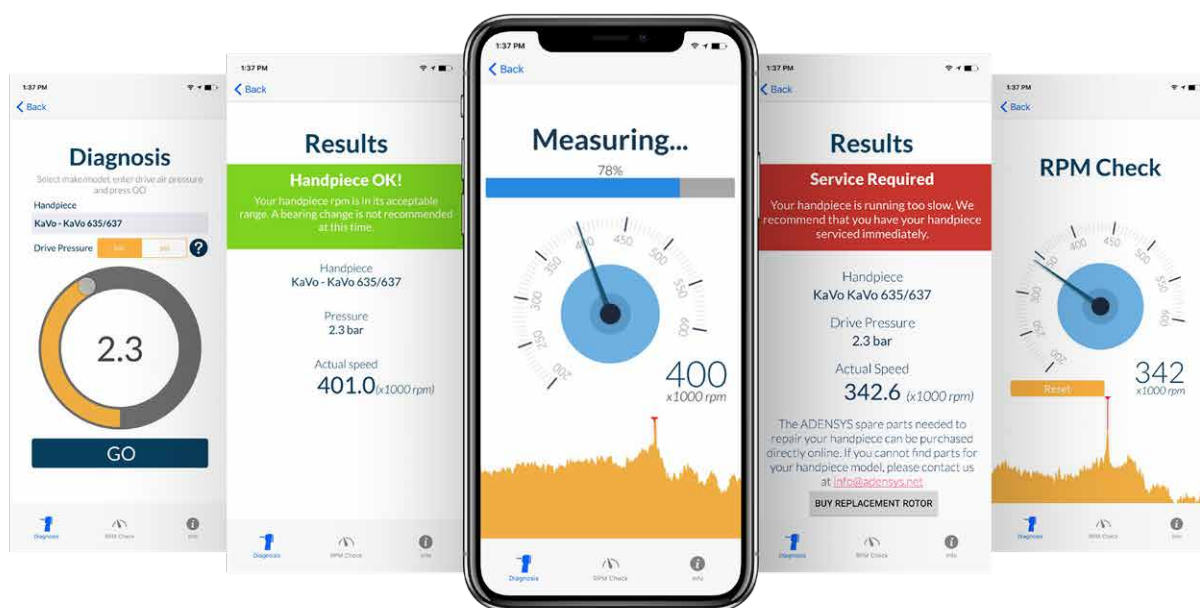
Separate guide bushing made of ultra-hardened stainless steel (>50% harder than chuck material)
Increased reliability

Axis components – guide bushing, chuck, securing ring and gear (if necessary) – laser-welded after assembly
Increased reliability

Every geared drive – cartridge or intermediate shaft – marked with a unique S/N
Increased reliability



Turbine Dr.



Turbine Dr. - Get this new smartphone app from ADENSYS!

The Turbine Dr. App allows you to reliably check the optimal performance of your dental turbines for improved productivity and more safety. The app is now available for Android and iPhone for download.

With the Turbine Dr. App you will immediately know the current operating status of your turbines - **quick and easy!**

ADENSYS recommends the routine performance check of air driven turbines. More and more dentists realize that it is both cheaper and more efficient to ensure the optimal performance of dental tools in advance to avoid surprises during use.

Turbine Dr. offers a revolutionary diagnostic technique for rapid performance testing of their turbines, essential for comfortable working and **successful treatments. Use the app even after a self repair to ensure ultimate efficiency.**

Diagnosis Mode

With Turbine Dr. in diagnostic mode you can check the current operating condition of your air driven turbines. The app uses the sound signal, checks the complex interaction between the drive air pressure and the turbine speed, and detects faults with great accuracy.

RPM Mode

The speed check mode "RPM" is for accurate checking of the efficiency of your turbines and for checking a self repair. Just let your turbine run at full speed next to the smartphone and the Turbine Dr. App will immediately display the measured speed.

Liability

Any liability – for whatever legal reasons – for loss or damage accruing that are not due to the delivered products shall only be accepted by us if such loss or damage is caused by negligence of a substantial contract obligation or by gross negligence, intent or malice by us or if we have guaranteed the absence of a defect. If we shall be liable for the negligence of a substantial contract obligation, our liability shall be limited to such loss or damage which might typically be predicted.

Moreover we shall be liable for claims according to the Product Liability Act and for damages due to culpable injury to life, body or health.

Any other claims are excluded.

Trademarks

All brands and models that are mentioned in ADENSYS marketing or sales material are registered trade names. No implication is made that any of our products are original products or that any of the referenced companies endorse our products. This clause applies to the following names:

KaVo, Star Dental, Midwest, NSK, GENTLEsilence, GENTLEforce, MULTIflex, WH, Sirona, Bien Air, Sirona, MASTERmatic, GENTLEpower, EXPERTmatic, INTRAmatic, INTRA LUX, Ti- Max, S-Max, SUPERtorque, MASTERtorque, BELLAtorque, EXPERTtorque, GENTLEmini, COMPACTtorque, POWERtorque, Solara, Stylus, Quiet Air, Synea, Alegria, Bora

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