

#### ADENSYS **Product Catalogue.**



Version: 210521\_v3

### Get to know **us**.

#### **The ADENSYS Story**

Founded in 2012, ADENSYS is a small 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

Frits Diepen

#### **ADENSYS** founders

QT10019

F1004

Section 1 – Parts for contra-angle/ attachment handpieces

Section 2 – Parts for high-speed turbine/ handpieces

### 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.

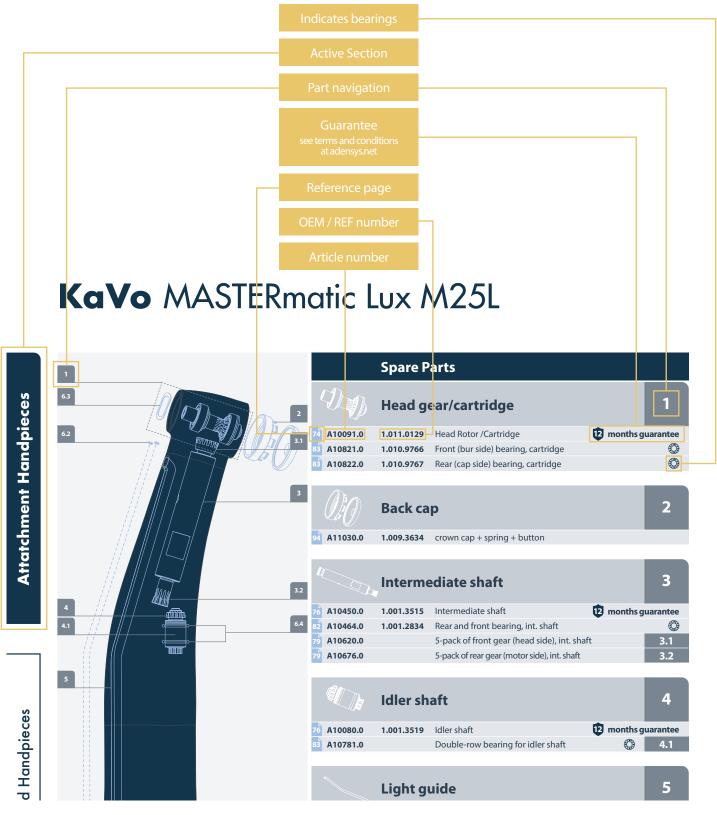
Section 3 – Complete product overview

# 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.

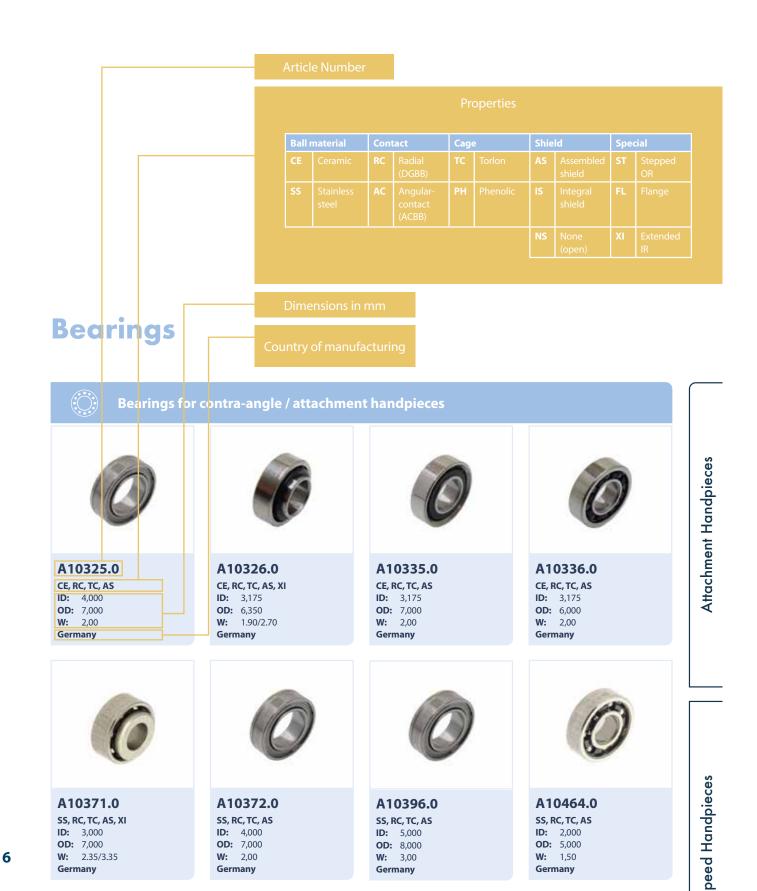
If anything is unclear here, we encourage you to contact us at info@adensys.net so that we can evaluate any possible changes or improvements.



# 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.



# About this **book**.

#### Glossary

We use standard nomenclature to describe many of the product types and mechancial properties described in this book, and we know that there are often different expressions used for these things around the world. Forthis 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 attachemnt below). These handpieces are often known as "contraangles" because of the bend in the middle of the handpiecestyle 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 use 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 maufacturers
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	Described 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 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.

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#### KaVo MASTERmatic Lux M25L

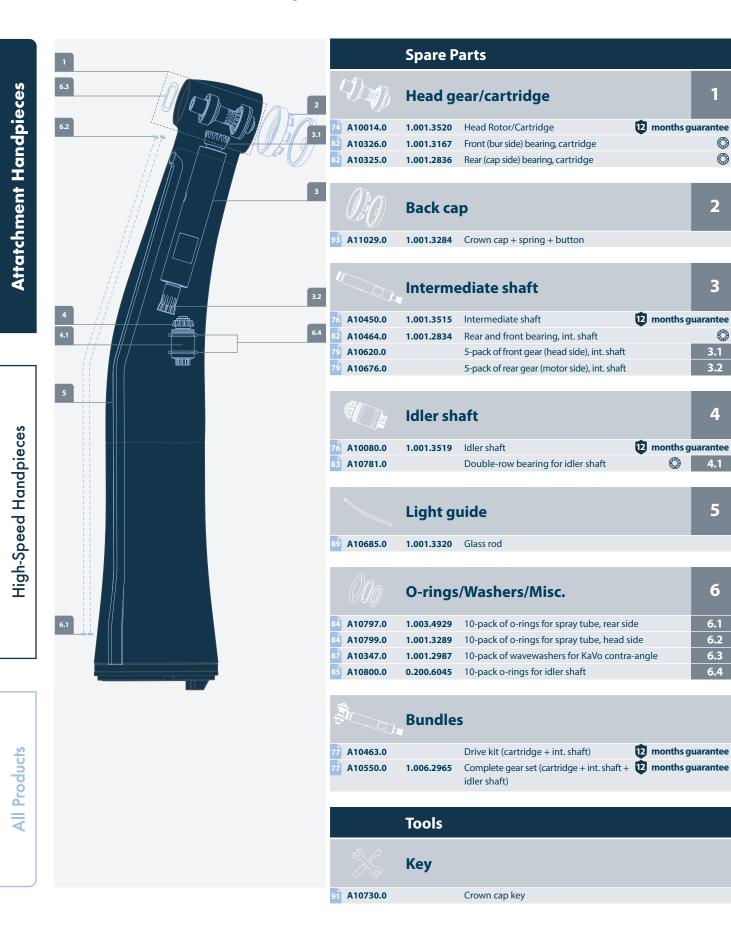
ses	6.3	D	Head gea	ar/cartridge		1
ie	6.2	74 A10091.0	1.011.0129	Head Rotor /Cartridge	12 months g	uarantee
9	3.1	A10091.0		Front (bur side) bearing, cartridge	un nontris g	Ö
Ĕ		A10821.0		Rear (cap side) bearing, cartridge		0
Ĥ		A10022.0	1.010.3707	near (cap side) bearing, cartiloge		
Attatchment Handpieces	3	Ø.O	Back cap	•		2
ch		94 A11030.0	<b>1.009.3634</b>	crown cap + spring + button		
Attat	3.2			diate shaft	•	3
		76 A10450.0			😰 months g	
	4.1 // // 6.4	82 A10464.0		Rear and front bearing, int. shaft		0
		79 A10620.0		5-pack of front gear (head side), int. shaft		3.1
		79 A10676.0	1	5-pack of rear gear (motor side), int. shaft		3.2
eces	5	F A10080.0	Idler sha		😰 months g	4 uarantee
-je		83 A10781.0	[	Double-row bearing for idler shaft	٢	4.1
High-Speed Handpieces			Light gui			5
Sp		<sup>89</sup> A10685.0	1.001.3320	Glass rod		
High-		000		/Washers/Misc.		6
	6.1	85 A10797.0		10-pack of o-rings for spray tube, rear sid		6.1 6.2
		<ul><li>84 A10799.0</li><li>87 A10824.0</li></ul>		10-pack of o-rings for spray tube, head side to pack of wave washers	ue	6.2 6.3
		85 A10824.0		10-pack of wave washers 10-pack o-rings for idler shaft		6.4
cts		77 A10565.0		Drive kit (cartridge + int. shaft)	months g	
ор р		77 A10566.0		Complete gear set (cartridge + int. shaft + idler shaft)	😰 months g	uarantee
All Products						

**Spare Parts** 

#### KaVo MASTERmatic Lux M05L

21       #3       A10821.0       1.010.9766       Front (bur side) bearing, cartridge         83       A10822.0       1.010.9767       Rear (cap side) bearing, cartridge         1       1       Intermediate shaft       1         1       1       1.011.3206       Intermediate shaft       1         1       1       1.001.2834       Rear and front bearing, int. shaft       1         1       1       1.010576.0       5-pack of front gear (head side), int. shaft       1         1       1       1.0676.0       5-pack of rear gear (motor side), int. shaft         1       1       1.011.3206       Idler shaft       1	*
42       2         43       1.011.1374       Head Rotor /Cartridge         43       A10821.0       1.010.9766       Front (bur side) bearing, cartridge         43       A10822.0       1.010.9767       Rear (cap side) bearing, cartridge         2       A10822.0       1.011.3206       Intermediate shaft       Image: Cartridge         2       A10822.0       1.011.3206       Intermediate shaft       Image: Cartridge         2       A10640.0       1.001.2834       Rear and front bearing, int. shaft       Image: Cartridge         3       40       A10670.0       S-pack of front gear (head side), int. shaft       Image: Cartridge         3       41       A10670.0       S-pack of front gear (motor side), int. shaft       Image: Cartridge         3       41       A10670.0       S-pack of front gear (motor side), int. shaft       Image: Cartridge         3       41       A10670.0       S-pack of fort gear (motor side), int. shaft       Image: Cartridge         3       41       A10781.0       Double-row bearing for idler shaft       Image: Cartridge         3       410797.0       1.003.4929       10-pack of o-rings for spray tube, head side       Image: Cartridge         3       410799.0       1.001.3289       10-pack of o-rings for spra	<ul> <li>months guarantee</li> <li>a</li> <li>a</li></ul>
3       A10821.0       1.010.9766       Front (bur side) bearing, cartridge         3       A10822.0       1.010.9767       Rear (cap side) bearing, cartridge         1       Intermediate shaft       Image: Cartridge         2       Intermediate shaft       Image: Cartridge         2       A10573.0       1.011.3206       Intermediate shaft       Image: Cartridge         2       A10640.0       1.001.2834       Rear and front bearing, int. shaft       Image: Cartridge         3       4       10676.0       5-pack of front gear (head side), int. shaft       Image: Cartridge         3       1       1       1.001.3519       Idler shaft       Image: Cartridge         3       Idler shaft       Image: Cartridge       Image: Cartridge       Image: Cartridge         3       Image: Cartridge       Image: Cartridge       Image: Cartridge       Image: Cartridge         3       Image: Cartridge       Image: Cartridge       Image: Cartridge       Image: Cartridge       Image: Cartridge         3       Image: Cartridge       Image: Cartridge       Image: Cartridge       Image: Cartridge       Image: Cartridge         3       Image: Cartridge       Image: Cartridge       Image: Cartridge       Image: Cartridge       Image: Cartridge	C months guarantee C 2.1 2.2
<ul> <li>A10821.0</li> <li>A10821.0</li> <li>A10822.0</li> <li>A10822.0</li> <li>A10822.0</li> <li>A10822.0</li> <li>A10822.0</li> <li>Intermediate shaft</li> <li>Intermediate shaft</li> <li>A10573.0</li> <li>I.011.3206</li> <li>Intermediate shaft</li> <li>A10620.0</li> <li>S-pack of front gear (head side), int. shaft</li> <li>A10676.0</li> <li>S-pack of rear gear (motor side), int. shaft</li> <li>A10680.0</li> <li>I.001.3519</li> <li>Idler shaft</li> <li>Idler shaft</li> <li>A10880.0</li> <li>I.001.3519</li> <li>Idler shaft</li> <li>Morror Side), int. shaft</li> <li>A10880.0</li> <li>I.001.3519</li> <li>Idler shaft</li> <li>A10781.0</li> <li>Intermediate shaft</li> <li>Intermediate shaft<td>C months guarantee C 2.1 2.2</td></li></ul>	C months guarantee C 2.1 2.2
2       Intermediate shaft         76       A10573.0       1.011.3206       Intermediate shaft         82       A10464.0       1.001.2834       Rear and front bearing, int. shaft         79       A10676.0       S-pack of front gear (head side), int. shaft         79       A10676.0       S-pack of rear gear (motor side), int. shaft         76       A10800.0       1.001.3519       Idler shaft         76       A10080.0       1.001.3519       Idler shaft         76       A10781.0       Double-row bearing for idler shaft         76       A10781.0       Double-row bearing for idler shaft         76       A10781.0       Double-row bearing for idler shaft         76       A10792.0       1.003.4929       10-pack of o-rings for spray tube, rear side         8       A10799.0       1.001.3289       10-pack of o-rings for spray tube, head side	2 months guarantee 2.1 2.2
Intermediate shaft         2         A 10573.0       1.011.3206       Intermediate shaft       Image: Comparison of the comparison of th	months guarantee
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A10620.0 5-pack of front gear (head side), int. shaft A10676.0 5-pack of rear gear (motor side), int. shaft Idler shaft A10080.0 1.001.3519 Idler shaft A10080.0 1.001.3519 Idler shaft A10781.0 Double-row bearing for idler shaft A10791.0 1.003.4929 10-pack of o-rings for spray tube, rear side A10799.0 1.001.3289 10-pack of o-rings for spray tube, head side A10799.0 1.001.3289 10-pack of o-rings for spray tube, head side A10799.0 1.001.3289 10-pack of o-rings for spray tube, head side A10799.0 1.001.3289 10-pack of o-rings for spray tube, head side A10824.0 1.009.3643 10-pack of wave washers	2.1 2.2
A 10676.0 5-pack of rear gear (motor side), int. shaft A 10676.0 5-pack of rear gear (motor side), int. shaft I dler shaft A 10080.0 1.001.3519 Idler shaft A 10080.0 1.001.3519 Idler shaft B A 10781.0 Double-row bearing for idler shaft O - Rings/Washers/Misc. B A 10797.0 1.003.4929 10-pack of o-rings for spray tube, rear side A 10799.0 1.001.3289 10-pack of o-rings for spray tube, head side A 10799.0 1.001.3289 10-pack of o-rings for spray tube, head side A 10824.0 1.009.3643 10-pack of wave washers	2.2
1       1	
1       Idler shaft         76       A10080.0       1.001.3519       Idler shaft         83       A10781.0       Double-row bearing for idler shaft         OD         O-Rings/Washers/Misc.         85       A10797.0       1.003.4929       10-pack of o-rings for spray tube, rear side         84       A10799.0       1.001.3289       10-pack of o-rings for spray tube, head side         87       A10824.0       1.009.3643       10-pack of wave washers	3
76       A10080.0       1.001.3519       Idler shaft       Idler shaft         83       A10781.0       Double-row bearing for idler shaft         O - Rings/Washers/Misc.         85       A10797.0       1.003.4929       10-pack of o-rings for spray tube, rear side         84       A10799.0       1.001.3289       10-pack of o-rings for spray tube, head side         87       A10824.0       1.009.3643       10-pack of wave washers	
B3 A10781.0       Double-row bearing for idler shaft         DD       O-Rings/Washers/Misc.         B3 A10797.0       1.003.4929         B4 A10799.0       1.001.3289         B7 A10824.0       1.009.3643         B7 A10824.0       1.009.3643	12 months guarantee
ODO-Rings/Washers/Misc.85A10797.01.003.492910-pack of o-rings for spray tube, rear side84A10799.01.001.328910-pack of o-rings for spray tube, head side87A10824.01.009.364310-pack of wave washers	3.1
85       A10797.0       1.003.4929       10-pack of o-rings for spray tube, rear side         84       A10799.0       1.001.3289       10-pack of o-rings for spray tube, head side         87       A10824.0       1.009.3643       10-pack of wave washers	
84         A10799.0         1.001.3289         10-pack of o-rings for spray tube, head side           87         A10824.0         1.009.3643         10-pack of wave washers	4
87 A10824.0 1.009.3643 10-pack of wave washers	
85 A10800.0 0.200.6045 10-pack o-rings for idler shaft	4.3
	4.4
Bundles	
	12 months guarantee
77     A10575.0     Complete gear set (cartridge + int. shaft + idler shaft)	12 months guarantee

#### KaVo GENTLEpower 25LP/25LPA/25LPR



# **KaVo** EXPERTmatic E25L/E25C

-		Spare P	arts	
	D		ear/cartridge	1
4.2 2.1	74 A10018.0 83 A10667.0 82 A10666.0	1.008.4040 1.008.4038 1.008.4039	Head Rotor/Cartridge Front (bur side) bearing, cartridge Rear (cap side) bearing, cartridge	Demonths guarantee
2			ediate shaft	2
	76 A10446.0	1.007.9916	Intermediate shaft	12 months guarantee
	82 A10464.0	1.001.2834	Front (head side) bearing, int. shaft	0
	82 A10663.0	0.220.0730	Rear (motor side) bearing, int. shaft	Ô
	79 A10823.0		5-pack of front gear (head side), int. shaft	2.1
		Light g		3
	89 A10687.0	1.009.4943	Glass rod	
3	000 84 A10797.0	O-Rings	5/Washers/Misc.	<b>4</b> de <b>4.1</b>
	84 A10797.0	1.001.3289	10-pack of o-rings for spray tube, head s	
	87 A10347.0	1.001.2987	10-pack of KaVo contra-angle wave was	
	A10576.0	Bundle	<b>S</b> Drive kit (cartridge + int. shaft)	12 months guarantee
	77 A10576.0		Drive Kit (cartridge + int. shart)	

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

		Spare P	Parts	
	(J) J)	Head g	ear/cartridge	1
	74 A10015.0	0.553.7341	Head Rotor/Cartridge	12 months guarantee
	82 A10325.0	1.001.2836	Front and rear bearing, cartridge	•
2.1		Intermo	ediate shaft	2
	76 A10490.0	0.553.7201	Intermediate shaft	12 months guarantee
4.1	82 A10663.0	0.220.0730	Rear and front bearing, int. shaft	
	79 A10675.0		5-pack of front gear (head side), int. shaft	2.1
2	79 A10677.0		5-pack of rear gear (motor side), int. shaf	<b>2.2</b>
22		Light g		3
	89 A10686.0	0.553.0283	Glass rod	
	000	O-rings	/Washers/Misc.	4
	85 A10800.0	0.200.6045	10-pack o-rings for intermediate shaft	4.1
	85 A10798.0	0.200.6099	10-pack o-rings for spray tube, rear side	4.2
		Bundle		<b>A</b> second
				T
	A10525.0	1.006.2969		months guarantee
	77 A10519.0 77 A10525.0	1.006.2969	Drive kit (cartridge + int. shaft) Complete gear set (cartridge + int. shaft + idler shaft)	12 months guarante

High-Speed Handpieces

# KaVo INTRA LUX 68LH/L68/68LD head

		Spare P	arts		
		Comple	te head assemblies	_	1
	75 A10657.0	0.540.2040	Complete head assembly KaVo 68LH/Lo	58	
AB	75 A10656.0	0.540.2010	Complete head assembly KaVo 68LD		
Provide State	D	Head g	ear/cartridge		2
	75 A10546.0	0.540.3661	Head rotor / cartridge	6 months guar	antee
	82 A10371.0	0.220.0051	Front (bur side) bearing, cartridge	·	$\bigcirc$
3	82 A10372.0	0.220.2005	Rear (cap side) bearing, cartridge		$\bigcirc$
		Interme	ediate shaft		3
1 Law	76 A10680.0	0.540.1151	Intermediate shaft	6 months guar	antee
	89 A10739.0	Light g	uide Glass rod for KaVo 7H/20H/29H/2068LF	1C/2080LHC	4
			handpiece body		

# Sirona T1 Line C200L (Z13 Ø8.7) Midwest E Plus, B.A.International BA200LTS



# **Sirona** T1 Line C200L (Z13 Ø 9.7)



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



### Bien Air 1.5(L)

		Spare I	Parts		
	3.3	Head g	jear/cartridge		1
	74 A10017.0	150 1933	Head Rotor/Cartridge	12 month	s guarantee
annung	<sup>2</sup> 82 A10621.0		Front and rear bearing, cartridge		٢
		Interm	ediate shaft		2
	79 A10673.0		5-pack of front gear (head side), in	t. shaft	
	000	O-Ring	s/Washers/Misc.		3
	87 A10274.0	130 0598	10-pack set of wave washers		3.1
	88 A10652.0		10-pack of distance washer		3.2
	84 A10653.0 87 A10733.0	130 0445	10-pack of o-rings 10-pack of wave washer and distar	vce washer	3.3 3.3
	87 A10755.0		TO-pack of wave washer and distar		3.3
		Tools			
		Key			
	92 A10678.0		Removal tool for front gear of inter	mediate shaft	
	(i) Information				

### NSK Ti-Max Z95(L)



# NSK Ti-Max X95(L)

		Spare Pa	arts	
5.2	(I) I)	Head ge	ear/cartridge	1
4	74 A10019.0	600C015001	Head Rotor/Cartridge	12 months guarantee
2.1	82 A10621.0		Front and rear bearing, cartridge	•
5.1		Interme	diate shaft	2
	76 A10448.0	C600C022A001	Intermediate shaft	12 months guarantee
2	79 A10770.0	1	5-pack set of front gears for int. shaft	2.1
	83 A10765.0		Radial bearing, intermediate shaft	0
	79 A10764.0	Dog gea	<b>ar</b> Dog gear	3
		Light gu	ıide	4
	90 A10785.0	C600266	Glass rod	
	000		/Washers/Misc.	5
	84 A10763.0		10-pack O-ring for intermediate shaft	5.1
	84 A10745.0		10-pack O-ring d 4.9 x 0.3 mm	5.2
	84 A10746.0		10-pack O-ring d 6.9 x 0.3 mm	5.3
	86 A10766.0	C427064	2-pack of gaskets for spray tube, head s	ide <b>5.4</b>
	Su In	Bundles	5	
	77 A10564.0		Drive kit (cartridge + int. shaft)	12 months guarantee
	77 A10774.0		Complete gear set (head gear + int. shaft + dog gear)	12 months guarantee
	77 A10771.0		Head cartridge + 1 pc front gear int. shaft	12 months guarantee
			rs in A10770.0 only ce shafts for the X95L. Ift has a different fit on the ADENSYS	
	Please note that fit on original N The ADENSYS ir design and A10			

#### NSK S-Max M95(L)



#### **W&H** Synea WA-99 LT/A head ø10.0 mm / 3-port spray (old) **W&H** Synea WA-99 LT/A head ø 9.6mm / 5-port spray (new)

		Spare P	arts	
09 -	D.D.	Head go	ear/cartridge	1
(Elema	74 A10852.1	05 22 0300	Head Rotor/Cartridge, WA-99 5-port spray (new)	to months guarantee
	74 A10853.0	04 51 7200	Head Rotor/Cartridge, WA-99 3-port spray (old)	to months guarantee
	2 82 A10325.0	04 48 6000	Front and rear bearing, cartridge WA-99	9 (old)
	M Dr.	Interme	ediate shaft	2
	76 A10884.0 76 A10885.0	06 42 0900 03 81 6000	Intermediate shaft, WA-99 5-port spray Intermediate shaft, WA-99 3-port spray	
		Light g		3
	90 A10684.0	04 05 8500	Glass rod	
	<b>Î</b> l Un	Bundle	5	
	77 A10886.0		Drive kit (cartridge + OEM int. shaft) for W&H WA-99 5-port spray (new)	pmonths guarante
	78 A10887.0		Drive kit (cartridge + OEM int. shaft) for W&H WA-99 3-port spray (old)	to months guarante

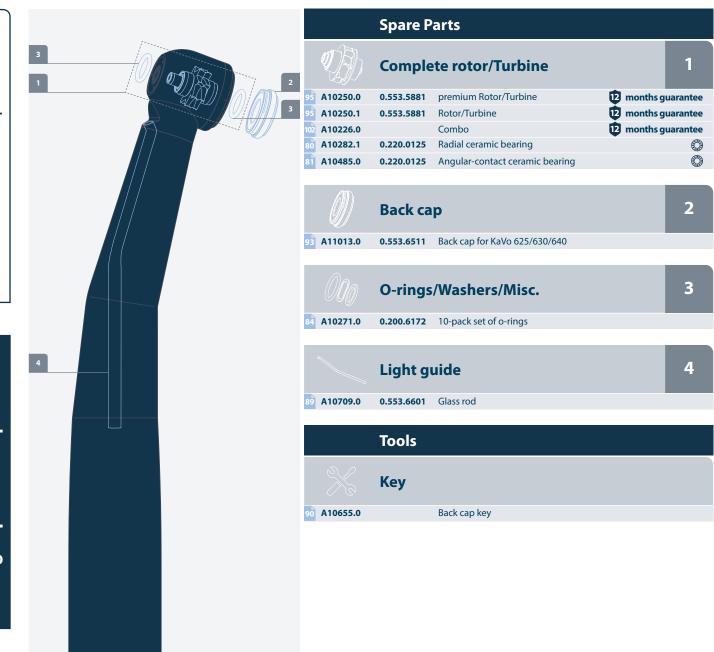
# Parts for High-Speed Handpieces.

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

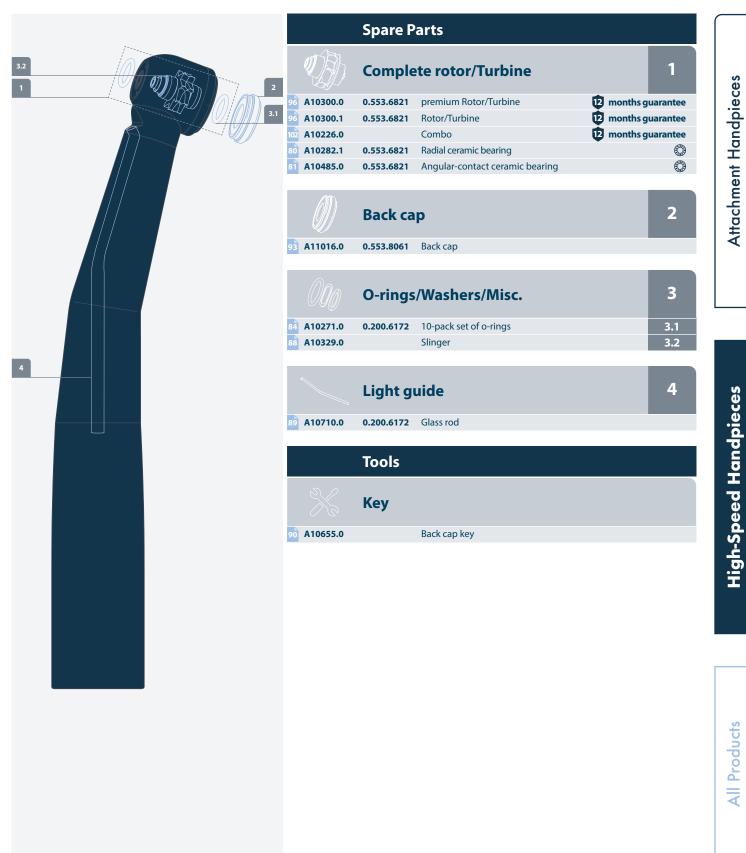
<b>KaVo</b> SUPERtorque 625/630/640 <b>KaVo</b> SUPERtorque 647/649	
KaVo SUPERtorque 647/649	26
	27
KaVo SUPERtorque 650	28
KaVo SUPERtorque 655/660	29
KaVo SMARTtorque S609/S619	30
KaVo SMARTtorque Mini S605/S615	31
KaVo GENTLEforce 7000	32
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Sirona T1 Control TC3 Sirona T1 Control CS (Newer generation, $SN > 600.000 \ge 800.000$ ) Sirona T2 Control / T1 Control ( $SN > 502.000$ ) Sirona T2/T3 Boost ( $SN > 600 000$ , $< 700 000$ ) Sirona T2/T3 Boost CBM ( $SN > 600 000$ , $< 700 000$ ) Sirona SiroBoost NSK Ti-Max Z900 NSK S-Max M600 NSK Ti-Max X500 (NL9000M in the US) NSK Ti-Max X600 (NL9000 in the US) NSK Ti-Max X700 (NL9000T in the US) Bien Air Bora	57 58 59 60 61 62 63 64 65 66 67
Sirona T1 Control TC3Sirona T1 Control CS (Newer generation, SN > $600.000 \ge 800.000$ )Sirona T2 Control / T1 Control (SN > $502.000$ )Sirona T2/T3 Boost (SN > $600\ 000, < 700\ 000$ )Sirona T2/T3 Boost CBM (SN > $600\ 000, < 700\ 000$ )Sirona SiroBoostNSK Ti-Max Z900NSK S-Max M600NSK Ti-Max X500 (NL9000M in the US)NSK Ti-Max X700 (NL9000T in the US)NSK Ti-Max X700 (NL9000T in the US)Bien Air BoraBien Air Black Pearl	57 58 59 60 61 62 63 64 65 66 67 68
Sirona T1 Control TC3 Sirona T1 Control CS (Newer generation, $SN > 600.000 \ge 800.000$ ) Sirona T2 Control / T1 Control ( $SN > 502.000$ ) Sirona T2/T3 Boost ( $SN > 600 000$ , $< 700 000$ ) Sirona T2/T3 Boost CBM ( $SN > 600 000$ , $< 700 000$ ) Sirona SiroBoost NSK Ti-Max Z900 NSK S-Max M600 NSK Ti-Max X500 (NL9000M in the US) NSK Ti-Max X600 (NL9000 in the US) NSK Ti-Max X700 (NL9000T in the US) Bien Air Bora	57 58 59 60 61 62 63 64 65 66 67



### **KaVo** SUPERtorque 625/630/640



## **KaVo** SUPERtorque 647/649



#### KaVo SUPERtorque 650

Attachment Handpieces

All Products



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# KaVo SUPERtorque 655/660

		Spare Parts	
3.1 3.2 00 01 Bb	2	Complete rotor/Turbine	1
	95 A10252.0	1.000.2078 premium Rotor/Turbine	12 months guarantee
	95 A10252.1	1.000.2078 Rotor/Turbine	12 months guarantee
	102 A10228.0	Combo	12 months guarantee
	80 A10288.2	1.000.7980 Radial ceramic bearing	0
	81 A10465.1	1.000.7980 Angular-contact ceramic bearing	٢
	Ø	Back cap	2
	93 A11018.0	1.000.2076 Back cap	
	000	O-rings/Washers/Misc.	3
	84 A10271.0	0.200.6172 10-pack set of o-rings	3.1
	87 A10274.0	1.001.5032 10-pack set of wave washers	3.2
	89 A10711.0	Light guide         0.553.8482       Glass rod	4
		Tools	
		Кеу	
	90 A10654.0	Back cap Key	

# KaVo SMARTtorque S609/S619

All Products

2.1 2.2

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Attachment	
gh-Speed Handpieces	

	Spare Parts						
	I.	Comple	ete rotor/Turbine		1		
$\mathbb{D}$	96 A10845.1	1.008.4163	Rotor/Turbine	😰 months g	uarantee		
	102 A10863.0		Combo	😰 months g	uarantee		
	80 A10288.2	0.220.0125	Radial ceramic bearing		$\bigcirc$		
	81 A10465.1	0.220.0125	Angular-contact ceramic bearing		$\bigcirc$		
	000	O-rings	/Washers/Misc.		2		
	84 A10271.0	0.200.6172	10-pack set of o-rings		2.1		
	87 A10274.0	1.003.5900	10-pack set of wave washers		2.2		

30	Order now at <b>www.adensys.net</b> . Contact us to check for availability of wholesale prices.

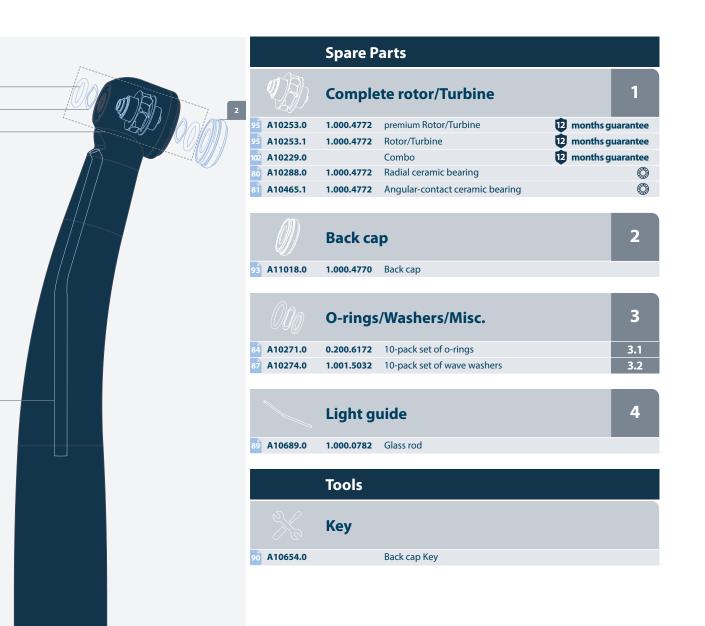
# KaVo SMARTtorque Mini S605/S615

			Spare P	Parts	
2.1	00/ 01/51		Comple	ete rotor/Turbine	1
1		97 A10844	4.1 1.008.4164	Rotor/Turbine	12 months guarantee
		102 A10862		Combo	12 months guarantee
		80 A10288			0
		81 A10465		Angular-contact ceramic bearing	Ö
		004	O-rings	/Washers/Misc.	2
		84 A10271	0.200.6172	10-pack set of o-rings	2.1
		87 A10274		10-pack set of wave washers	2.2

### KaVo GENTLEforce 7000

Attachment Handpieces

3.2



# KaVo GENTLEforce 6000

				Spare P	arts	
3.1		0) Bh 2	I)	Comple	te rotor/Turbine	1
1	have a second second	3.3	95 A10007.0	1.001.3888	premium Rotor/Turbine	12 months guarantee
		3.3	95 A10007.1	1.001.3888	Rotor/Turbine	12 months guarantee
			102 A10229.0		Combo	12 months guarantee
			80 A10292.0	1.007.6975	Angular-contact ceramic bearing	🔘 bur side
			80 A10288.2	1.000.7980	Radial ceramic bearing	Cap side
			81 A10465.1	1.000.7980	Angular-contact ceramic bearing	
			Ø	Back ca	р	2
			93 A11018.0	1.000.4770	Back cap	
			000	_	/Washers/Misc.	3
			84 A10271.0		10-pack set of o-rings	3.1
4			87 A10327.0	1.001.6391	10-pack set of (front) wave washers	3.2
-			87 A10274.0	1.001.5032	10-pack set of wave washers	3.3
			89 A10689.0	Light g		4
				Tools		
			X	Key		
			90 A10654.0		Back cap Key	
			_			

### KaVo GENTLEsilence 8000/6500 BR



### KaVo GENTLEsilence 6500

				Spare P	arts	
3.1 3.2	Def of	3.4 Bh 2		Comple	te rotor/Turbine	1
1			95 A10008.0	1.003.9664	Rotor/Turbine premium	12 months guarantee
		3.3	95 A10008.1	1.003.9664	Rotor/Turbine	12 months guarantee
	A CONTRACTOR		102 A10230.0		Combo	12 months guarantee
			80 A10292.0	1.007.6975	Angular-contact ceramic bearing	🔅 bur side
			80 A10288.2	1.000.7980	Radial ceramic bearing	
			81 A10465.1	1.000.7980	Angular-contact ceramic bearing	cap side
			Ø	Back ca	р	2
			93 A11017.0	1.003.5525	Back cap	
			000	O-rings	/Washers/Misc.	3
			84 A10271.0	0.200.6172	10-pack set of o-rings	3.1
4			87 A10327.0	1.001.6391	10-pack set of (front) wave washers	3.2 bur side
			87 A10274.0	1.003.5900	10-pack set of wave washers	3.3 cap side
			88 A10532.0		Slinger	3.4
				Light g	uide	4
			89 A10689.0	1.000.0782	Glass rod	
				Tools		
			X	Key		
			90 A10654.0		Back cap Key	

# **KaVo** GENTLEmini 4500/5000

Attachment Handpieces

3. 3.: 1

			Spare P	artc.		
3.1		of Bh		ete rotor/Turbine		1
3.2	2	96 A10345.0	1.006.4564	premium Rotor/Turbine	😰 months g	
		102 A10338.0		Combo	12 months g	
		80 A10292.0	1.007.6975	Angular-contact ceramic bearing		٢
		Ø	Back ca	p		2
		93 A11027.0	1.007.7051	Back cap		
		000	O-rings	/Washers/Misc.		3
		84 A10271.0	0.200.6172	10-pack set of o-rings		3.1
		87 A10327.0	1.001.6391	10-pack set of wave washers		3.2
			Tools			
			Key			
		90 A10721.0		Back cap key KaVo 5000/M9000		

# KaVo MASTERtorque M9000/M8900

		Spare P	arts	
3.1	2	Comple	te rotor/Turbine	1
	96 A10540.0	2.000.2266	premium Rotor/Turbine	12 months guarantee
	96 A10540.1	2.000.2266	Rotor/Turbine	12 months guarantee
	102 A10435.0		Combo	12 months guarantee
	80 A10288.2	1.000.7980	Radial ceramic bearing	0
	81 A10465.1	1.000.7980	Angular-contact ceramic bearing	0
	Ø	Back ca		2
	93 A11017.0	3.000.1874	Back cap	
	000	O-rings	/Washers/Misc.	3
	84 A10271.0	0.200.6172	10-pack set of o-rings	3.1
	87 A10274.0	1.003.5900	10-pack set of wave washers	3.2
		Tools		
		Key		
	90 A10721.0		Back cap key	

# KaVo MASTERtorque Mini M8700

Attachment Handpieces

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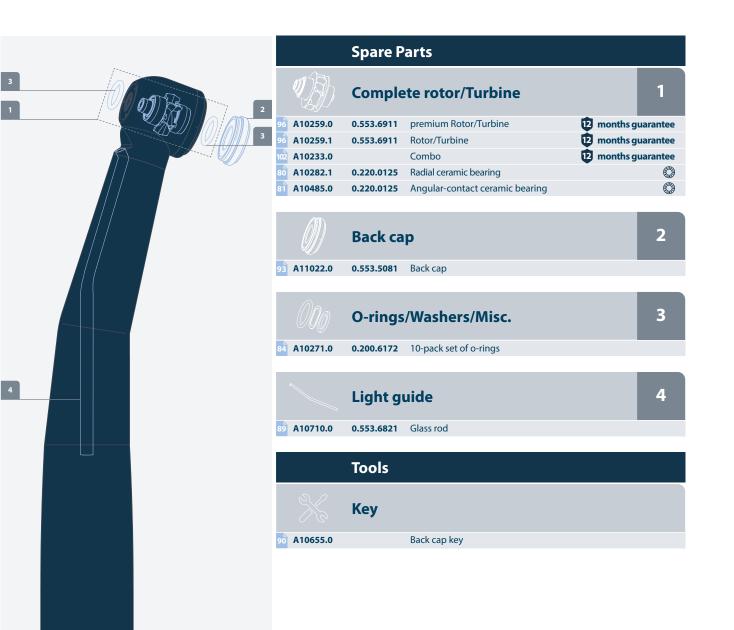
		Spare P	arts		
DO OTEN	I)	Comple	ete rotor/Turbine		1
	97 A10846.0	3.001.9915	premium Rotor/Turbine	😰 months gu	arantee
	2.3 97 A10846.1	3.001.9915	Rotor/Turbine	😰 months gu	arantee
	102 A10864.0		Combo	12 months gu	arantee
	80 A10288.0	1.000.7980	Radial ceramic bearing	0	
	81 A10465.1	1.000.7980	Angular-contact ceramic bearing	Ô	cap side
	80 A10292.0	1.007.6975	Angular-contact ceramic bearing	Ô	bur side
		O-rings	/Washers/Misc.		2
	000 84 A10271.0	<b>O-rings</b>	/Washers/Misc.		<b>2</b> 2.1
	000 84 A10271.0 87 A10274.0	•			

## KaVo BELLAtorque 637/Mira Lux 635

	Spare P	Parts		
	Comple	ete rotor/Turbine		1
96 A10349.0	0.553.8661	premium Rotor/Turbine	12 months	uarantee
96 A10349.1		Rotor/Turbine	12 months	
102 A10225.0		Combo	12 months	
80 A10282.1			0	
81 A10485.0			Õ	bur side
80 A10291.0		Angular-contact ceramic bearing	Ö	cap side
Ø	Back ca	ıp		2
93 A11015.0	0.553.8491	Back cap		
000	O-rings	;/Washers/Misc.		3
84 A10271.0	0.200.6172	10-pack set of o-rings		3.1
88 A10364.0		Slinger		3.2
		, ,		
	Tools			
	Key			
91 A10728.0		Back cap key		

# **KaVo** BELLAtorque 639/642/645





# KaVo EXPERTtorque E679L/E680L

			Spare P	arts		
Dofor	2	I)	Comple	te rotor/Turbine		1
harden and h	3.3	96 A10535.0	1.007.9313	premium Rotor/Turbine	😰 months g	uarantee
	3.3	96 A10535.1	1.007.9313	Rotor/Turbine	😰 months g	uarantee
		102 A10536.0		Combo	🔁 months g	
	$\sim$	80 A10288.2	1.000.7980	Radial ceramic bearing	~	O
		81 A10465.1	1.000.7980	Angular-contact ceramic bearing	٢	bur side
		80 A10292.0	1.007.6975	Angular-contact ceramic bearing	٢	cap side
		Ø	Back ca	р		2
		93 A11021.0	1.007.8903	Back cap		
		000	O-rings	/Washers/Misc.		3
		84 A10271.0	0.200.6172	10-pack set of o-rings		3.1
		87 A10274.0	1.003.5900	10-pack set of (front) wave washers		<b>3.2</b> bur side
		87 A10327.0	1.003.7576	10-pack set of wave washers		<b>3.3</b> cap side
			Tools			
		X	Key			
		90 A10654.0		Back cap Key		

**High-Speed Handpieces** 

Attachment Handpieces

# KaVo EXPERTtorque Mini E675L/E677L

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			Spare P	arts		
es	3.1 3.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I)	Comple	ete rotor/Turbine		1
ec		96 A10560.0	1.007.9457	premium Rotor/Turbine	12 months	guarantee
id	3.3	96 A10560.1	1.007.9457	Rotor/Turbine	12 months	guarantee
un of the second		102 A10338.0		Combo	12 months	guarantee
~ 노		80 A10292.0	1.007.6975	Angular-contact ceramic bearing	Ô	bur side
ent		80 A10285.0		Radial ceramic bearing	٢	cap side
Attachment Handpieces		Ø	Back ca	р		2
◄		93 A11027.0	1.007.7051	Back cap		
		000	O-rings	/Washers/Misc.		3
		84 A10271.0	0.200.6172	10-pack set of o-rings		3.1
		87 A10327.0	1.003.7576	10-pack set of (front) wave washers		3.2 bur side
es		87 A10274.0	1.003.5900	10-pack set of wave washers		<b>3.3</b> cap side
High-Speed Handpieces			Tools			
Har			Key			
ed		90 A10721.0		Back cap key		
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# **KaVo** COMPACTtorque 636 **KaVo** POWERtorque 646

				Spare P	arts		
3	( and a state of the state of t	7 2	ØD)	Comple	te rotor/Turbine		1
			A10533.0	0.553.8911	premium Rotor/Turbine	12 months gua	rantee
		3 96	A10533.1	0.553.8911	Rotor/Turbine	12 months gua	
	A V	.1 / 102	A10534.0		Combo	12 months gua	
		80	A10282.1	0.220.0125	Radial ceramic bearing	•	$\bigcirc$
		81	A10485.0	0.220.0125	Angular-contact ceramic bearing		Ô
			Ø	Back ca	р		2
		93	A11016.0	0.553.8061	Back cap		
				O-rings	/Washers/Misc.		3
		84	A10271.0	0.200.6172	10-pack set of o-rings		
4		2		Light gu	uide		4
		89	A10711.0	0.200.6172	Glass rod		
				Tools			
				Key			
		90	A10654.0		Back cap Key		

# Star 430/Solara

Attachment Handpieces

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			Spare P	arts		
3.1	3.3	Ø.	Comple	te rotor/Turbine		1
1		100 A10549.0	26 39 68	Rotor/Turbine, Lube Free Myonic	12 months gu	arantee
		100 A10006.0	26 39 68	Rotor/Turbine	12 months gua	
		103 A10222.0		Combo	12 months gua	arantee
		81 A10719.0		Angular-contact ceramic bearing with fl	lange, Lube Free	Ô
		81 A10492.0		Radial ceramic bearing with flange		Õ
		Ø)	Back ca	р		2
		93 A11026.0		Back cap		
		000	O-rings	/Washers/Misc.		3
		84 A10272.0		10-pack set of o-rings		3.1
		87 A10348.0		Washer pack (2x circlip, 2x flat washer,1x wave washe	r)	3.2
		88 A10330.0		Slinger		3.3

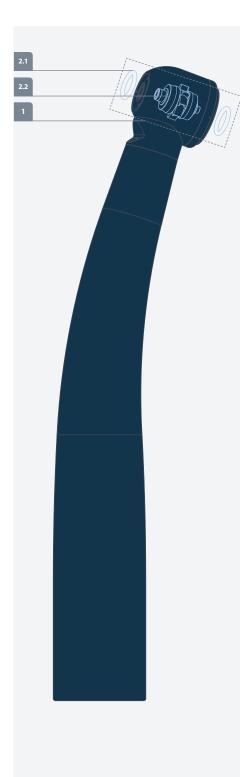
# Midwest Tradition Lever

			Spare P	arts		
2.1	2.3	ØD)	Comple	te rotor/Turbine		1
		97 A10010.0	780118			juarantee
	2.2	03 A10370.0				juarantee
	٤	A10661.0		Angular-contact ceramic bearing with flange	$\bigcirc$	bur side
	8	A10287.2		Radial ceramic bearing	0	cap side
	8	ao A10390.0		Angular-contact ceramic bearing	٢	
		000	O-rings	/Washers/Misc.		2
	٤	A10436.0		10-pack set of quad-rings (blue)		2.1
	٤	A10432.0		10-pack of o-rings		2.2
	8	A10328.0		Slinger		2.3

#### Midwest Tradition Push Button



# Midwest Stylus Lite 360/361



	Spare	Parts		
Ø.	Comp	lete rotor/Turbine		1
o7 A10431.0	790310	premium Rotor/Turbine	😰 months g	uarantee
03 A10382.1	1	Combo	😰 months g	uarantee
A10830.0		Angular-contact ceramic bearing		$\bigcirc$

O-rings/Washers/Misc.
-----------------------

10-pack set of o-rings Slinger

#### i Information

A10672.0

A10688.0

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. 2

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#### Midwest Quiet Air Lever

Attachment Handpieces

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		Spare	Parts		
09)120	2.2	Comp	ete rotor/Turbine		1
	97 A10606.0	484300	Rotor / Turbine	😰 months gu	arantee
	103 A10488.0		Combo	12 months gu	arantee
	81 A10661.0		Angular-contact ceramic bearing with flang	ge	$\bigcirc$
	80 A10287.2		Radial ceramic bearing		$\bigcirc$
	80 A10390.0		Angular-contact ceramic bearing		Ô
		O-ring	s/Washers/Misc.		2
	84 A10436.0		10-pack of quad-rings (blue)		<b>2.1</b> (bur side
	84 A10432.0		10-pack of o-rings		<b>2.2</b> (cap side

# W&H Synea TA 98 (L)

		Spare P	arts		
3.2 3.1	2	Comple	ete rotor/Turbine		1
1	99 A10337.0	04 39 6600	premium Rotor/Turbine	12 months	guarantee
	99 A10337.1	04 39 6600	Rotor/Turbine	12 months	guarantee
	/ 104 A10232.0		Combo	12 months	
	80 A10288.2	27 70 712	Radial ceramic bearing		Ô
	81 A10465.1	27 70 712	Angular-contact ceramic bearing		٢
	Ø	Back ca			2
	93 A11019.0		Back cap		
					_
	000	O-rings	/Washers/Misc.		3
	84 A10432.0		10-pack of o-rings		3.1
	87 A10274.0		10-pack set of wave washers		3.2
		Light g	uide		4
	89 A10714.0	04 05 8300	Glass rod		_
		Tools			
		Key			
	90 A10725.0		Back cap key		

# W&H Synea TA 98 LED

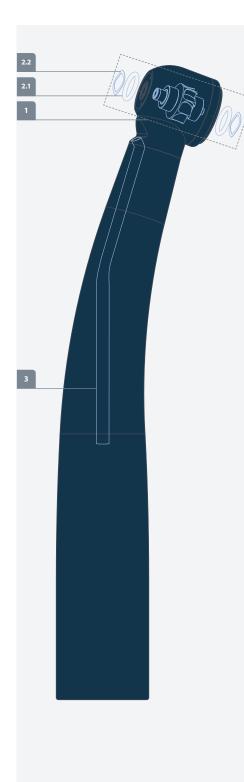
Attachment Handpieces

3.2 3.1

1

		Spare Parts
2005	Ø	Complete rotor/Turbine 1
	99 A10359.0	06 39 1700 premium Rotor/Turbine 12 months guarantee
	99 A10359.1	06 39 1700 Rotor/Turbine 12 months guarantee
	104 A10340.0	Combo 🖸 months guarantee
	80 A10288.2	06 39 1700 Radial ceramic bearing
	81 A10465.1	<b>06 39 1700</b> Angular-contact ceramic bearing
	Ø	Back cap 2
	93 A11020.0	06 44 6300 Back cap
	000	O-rings/Washers/Misc. 3
	84 A10273.0	10-pack of o-rings 3.1
	87 A10274.0	10-pack set of wave washers 3.2
		Tools
		Кеу
	90 A10726.0	Back cap key

# W&H Synea TA 97 LED



	Charle D			
	Spare P	arts		
ØÐ	Comple	ete rotor/Turbine		1
99 A10458.0	05 30 7200	premium Rotor/Turbine	🔁 months g	uarantee
99 A10458.1	05 30 7200	Rotor/Turbine	😰 months g	uarantee
104 A10457.0		Combo	🔁 months g	uarantee
80 A10288.2	27 70 712	Radial ceramic bearing		Ô
81 A10465.1	27 70 712	Angular-contact ceramic bearing		$\bigcirc$
	O-rings	/Washers/Misc.		2
84 A10273.0		10-pack of o-rings		2.1
87 A10274.0		10-pack set of wave washers		2.2
	Light g	uide		3
89 A10715.0	05 28 8700	Glass rod		
	Tools			
	Key			
90 A10726.0		Back cap key		

## **W&H** Fusion TG 98/Synea TA 98 CLED/ Vision TK-98

**Spare Parts** 

1

 $\bigcirc$ 

2

3

3.1 3.2

months guarantee
months guarantee
months guarantee

3.2

3.1	2	Comple	ete rotor/Turbine
	99 A10601.0	05 30 7000	premium Rotor/Turbine
	99 A10601.1	05 30 7000	Rotor/Turbine
	104 A10604.0		Combo
	80 A10288.2	27 70 712	Radial ceramic bearing
	81 A10465.1	27 70 712	Angular-contact ceramic bearing
	<i>(</i> ))	Back ca	р
	93 A11020.0	06 44 6300	Back cap
	OOg	O-rings	s/Washers/Misc.
	84 A10273.0		10-pack of o-rings
	87 A10274.0		10-pack set of wave washers
		Tools	
		Key	
	90 A10726.0		Back cap key

**High-Speed Handpieces** 

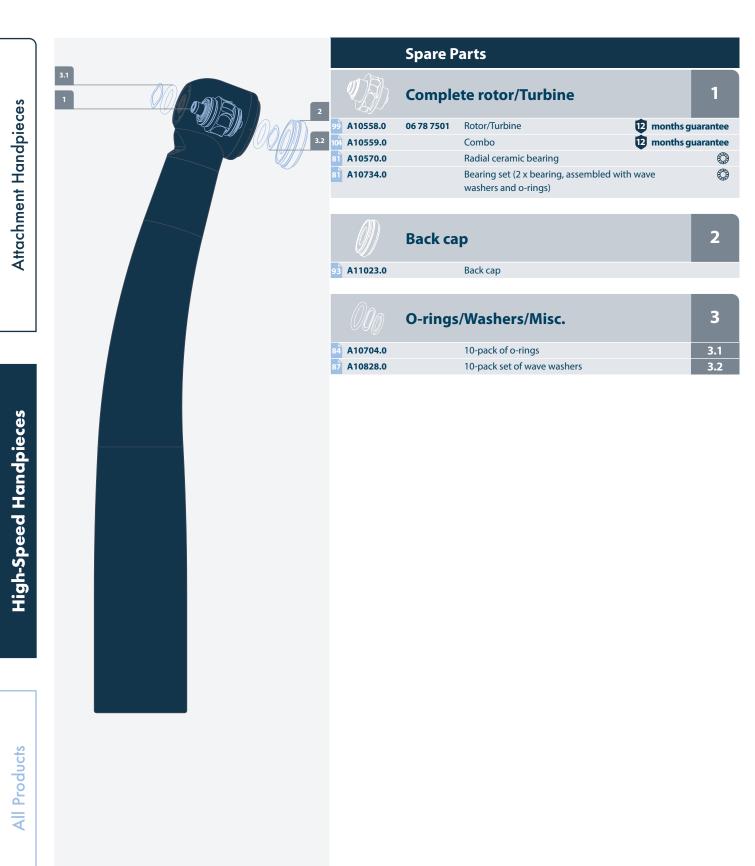
#### W&H Vision TK-100

2.2	25000

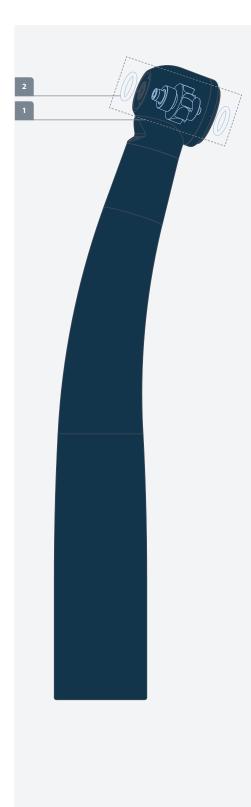
		Spare P	Parts		
	ØD)	Comple	ete rotor/Turbine		1
99	A10806.0	72 72 900	premium Rotor/Turbine	😰 months g	uarantee
99	A10806.1	72 72 900	Rotor/Turbine	😰 months g	uarantee
104	A10865.0		Combo	😰 months g	uarantee
80	A10288.2	27 70 712	Radial ceramic bearing		Ô
81	A10465.1	27 70 712	Angular-contact ceramic bearing		O
		O-rings	/Washers/Misc.		2
84	A10432.0		10-pack of o-rings		2.1
87	A10274.0		10-pack set of wave washers		2.2

Attachment Handpieces

# W&H Alegra TE 98(L)



# Sirona T2/T3 Racer



90 A10724.0

	Spare F	Parts	
ØD)	Comple	ete rotor/Turbine	1
98 A10353.0	58 68 307	premium Rotor/Turbine	12 months guarantee
98 A10353.1	58 68 307	Rotor/Turbine	12 months guarantee
103 A10351.0		Combo	12 months guarantee
ao A10288.2	58 68 307	Radial ceramic bearing	0
A10465.1	58 68 307	Angular-contact ceramic bearing	Ô
000	O-ring	s/Washers/Misc.	2
84 A10432.0		10-pack of o-rings	
	Tools		
	Key		

Back cap key

Attachment Handpieces

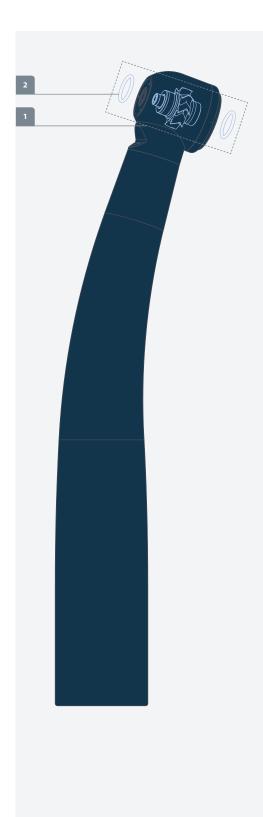
## Sirona T1 Control TC3

Attachment Handpieces

1

		Spare l	Parts	
101 Bach	I)	Compl	ete rotor/Turbine	1
	98 A10456.0	41 75 217	premium Rotor/Turbine	p months guarante
	98 A10456.1	41 75 217	Rotor/Turbine	😰 months guarante
	103 A10454.0		Combo	12 months guarante
	80 A10282.1		Radial ceramic bearing	(
	81 A10485.0		Angular-contact ceramic bearing	¢
	<i>M</i> e			
		O-ring	s/Washers/Misc.	2
	84 A10672.0		10-pack set of o-rings	
		Tools		
		Key		
	90 A10723.0		Back cap	

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



	Spare F	Parts		
I))	Comple	ete rotor/Turbine		1
98 A10563.0	64 32 608	Rotor/Turbine	12 months g	uarantee
000	O-rings	;		2
84 A10672.0		10-pack of o-rings		
	Tools			
	Key			
90 A10723.0		Back cap key		

Attachment Handpieces

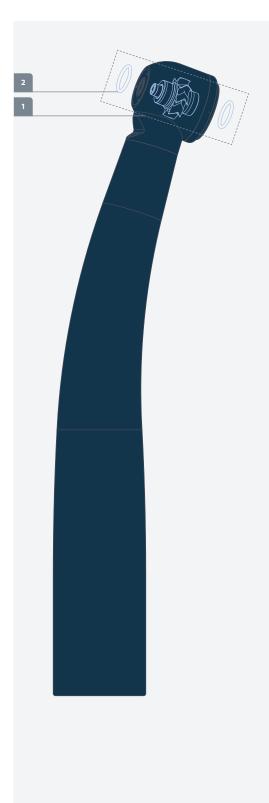
# Sirona T2 Control / T1 Control (SN > 502.000)

2.2 2.1

1

		Spare P	arts	
000	Ð	Comple	te rotor/Turbine	1
	98 A10493.0	58 68 299	premium Rotor/Turbine	12 months guarantee
	98 A10493.1	58 68 299	Rotor/Turbine	12 months guarantee
	103 A10452.0		Combo	12 months guarantee
	80 A10288.2	<b>59 94 814</b>	Radial ceramic bearing	Ô
	81 A10465.1	59 94 814	Angular-contact ceramic bearing	٢
	000	O-rings	/Washers/Misc.	2
	84 A10729.0		10-pack set of o-rings	2.1
	87 A10274.0		10-pack set of wave washers	2.2

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



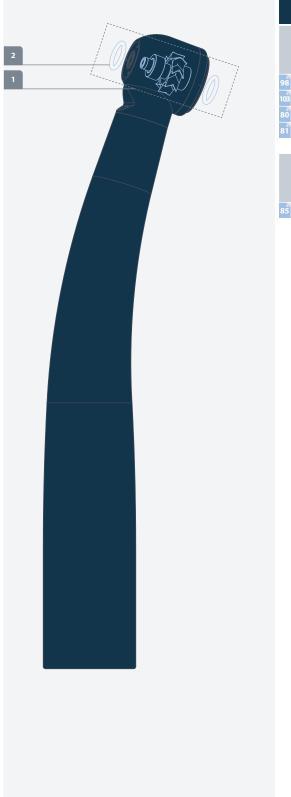
	Spare F	Parts	
Ø.	Comple	ete rotor/Turbine	1
a A10805.1	64 32 616	Rotor/Turbine	12 months guarantee
A10295.0		Radial ceramic bearing	0
000	O-rings	s/Washers/Misc.	2
s A10840.0		10-pack set of o-rings	
		this handpiece model is nce washers (on either	

# Sirona T2/T3 Boost CBM (SN > 700 000, < 800 000)

Attachment Handpieces	2	98 A10854.1 90 A10295.0 80 A10295.0 85 A10840.0 1 Information Please note that to be built with side of the bea	
High-Speed Handpieces		at the product	



#### Sirona SiroBoost



Spare Parts					
ØÐ	Comple	ete rotor/Turbine	1		
98 A10843.1	63 34 598	Rotor/Turbine	p months guarantee		
103 A10868.0		Combo	Ô		
80 A10288.2		Radial ceramic bearing	Ô		
81 A10465.1		Angular-contact ceramic bearings	Ô		
	O-rina	s/Washers/Misc.	2		

10-pack set of o-rings

85 A10840.0

#### NSK Ti-Max Z900

Attachment Handpieces

		Spare P	arts	
3.1	Ø.	Comple	ete rotor/Turbine	1
1 3.2	97 A10571.0	TiZ-SU03	Rotor/Turbine with OEM bearings	onths guarantee
	97 A10571.1	TiZ-SU03	Ĭ	onths guarantee
2	103 A10569.0		Combo to accommodate OEM bearings 12 mg	onths guarantee
	103 A10569.1		Combo to accommodate std bearings 6 m	onths guarantee
	81 A10837.0		Flanged angular-contact ceramic bearing (OEM)	🔘 bur sid
	81 A10445.0		Flanged radial ceramic bearing (standard)	🔘 bur sid
	81 A10838.0		Angular-contact ceramic bearing (OEM)	🔘 cap sid
	80 A10287.2		Radial ceramic bearing (standard)	Cap sid
	Ø	Back ca	p	2
	94 A11034.0	P1052050	Back cap	
		O-rings	/Washers/Misc.	3
	84 A10672.0		10-pack set of o-rings	3.1
	87 A10274.0		10-pack set of wave washers	3.2
		Tools		
		Key		
	91 A10888.0		Back cap key	

#### **NSK** S-Max M600

			Spare	Parts		
1		I)	Compl	ete rotor/Turbine		1
		97 A10556.0	SX-SU03	Rotor/Turbine	🔁 months g	uarantee
		80 A10295.0		Angular-contact ceramic bearing	Ô	bur side
		80 A10390.0		Angular-contact ceramic bearing	٢	cap side
		Ø	Back c	ар		2
		93 A11025.0		Back cap		
			Tools			
			Key			
		91 A10778.0		Back cap key		

# NSK Ti-Max X500 (NL9000M in the US)



# NSK Ti-Max X600 (NL9000 in the US)

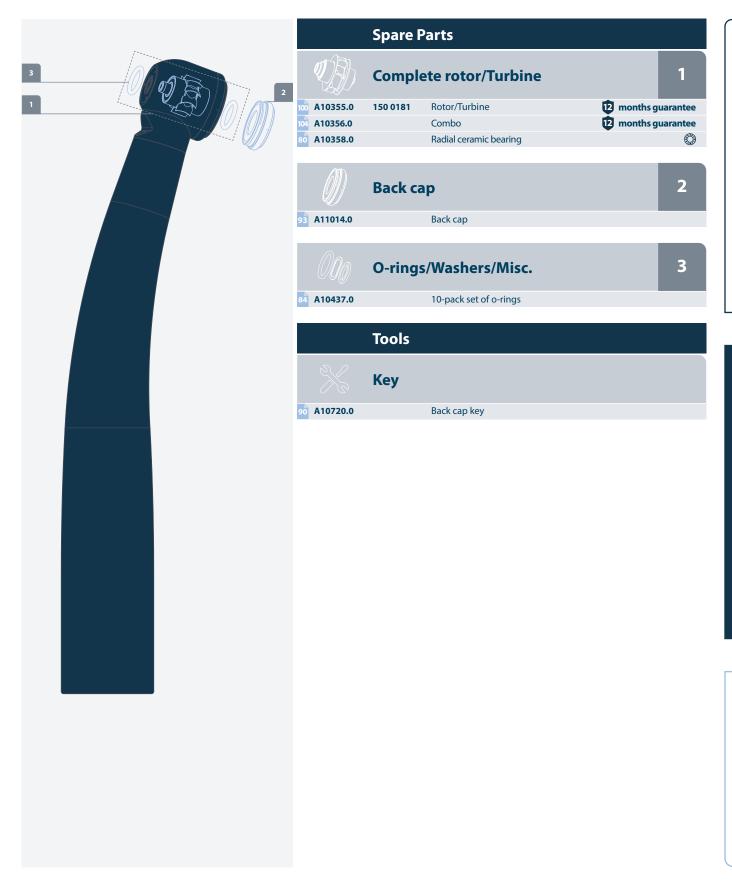
Image: Complete rotor/Turbine		Spare Parts		
Image: All of O-rings       3         Image: All of O-rings       3.1         Image: All of O-rings       3.2         Image: All of O-rings       3.3	3.3		1	es
Image: All of O-rings       3         Image: All of O-rings       3.1         Image: All of O-rings       3.2         Image: All of O-rings       3.3	97 A10394.0	TiX-SU03 Rotor/Turbine	12 months guarantee	e C
Image: All of O-rings       3         Image: All of O-rings       3.1         Image: All of O-rings       3.2         Image: All of O-rings       3.3	103 A10392.0	Combo		id i
Image: Arrow of the construction of	80 A10295.0	Angular-contact ceramic bearing	-	
Image: All of O-rings       3         Image: All of O-rings       3.1         Image: All of O-rings       3.2         Image: All of O-rings       3.3	80 A10390.0	Angular-contact ceramic bearing	cap side	H H
Image: All of O-rings       3         Image: All of O-rings       3.1         Image: All of O-rings       3.2         Image: All of O-rings       3.3	Ø	Back cap	2	schmen
Image: Arrow of the construction of	93 A11024.0	Back cap		Atto
Image: Provide and the set of wave washers 3.2   Image: Provide and the set of wave washers 3.3	000	O-rings	3	
Image: Billinger 3.3     Tools     Image: Descent and the second an	84 A10672.0	10-pack set of o-rings	3.1	
Tools Key P A10727.0 Back cap key P OF A A10727.0 Back cap key	87 A10274.0	10-pack set of wave washers	3.2	
Mey         Image: Sector cap key	88 A10532.0	Slinger	3.3	
		Tools		ces
		Кеу		pie
	91 A10727.0	Back cap key		<b>P</b>
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# NSK Ti-Max X700 (NL9000T in the US)

Attachment Handpieces

			Spare P	Parts		
	2.2 2.3	Ø.		ete rotor/Turbine		1
		97 A10801.0	TiX-TU03	premium Rotor/Turbine	😰 months g	juarantee
·		97 A10801.1	TiX-TU03	Rotor/Turbine	😰 months g	
		103 A10443.0		Combo	😰 months g	
		80 A10465.1		Angular-contact ceramic bearing		bur side
		80 A10390.0		Angular-contact ceramic bearing	Ô	cap side
		000	O-ring	s/Washers/Misc.		2
		84 A10672.0		10-pack set of o-rings		2.1
		87 A10327.0		10-pack set of wave washers		2.2
		88 A10532.0		Slinger		2.3
			Tools			
		×	Key			
		91 A10727.0		Back cap key		

#### Bien Air Bora



#### Bien Air Black Pearl



#### Bien Air Tornado

2.2	00000

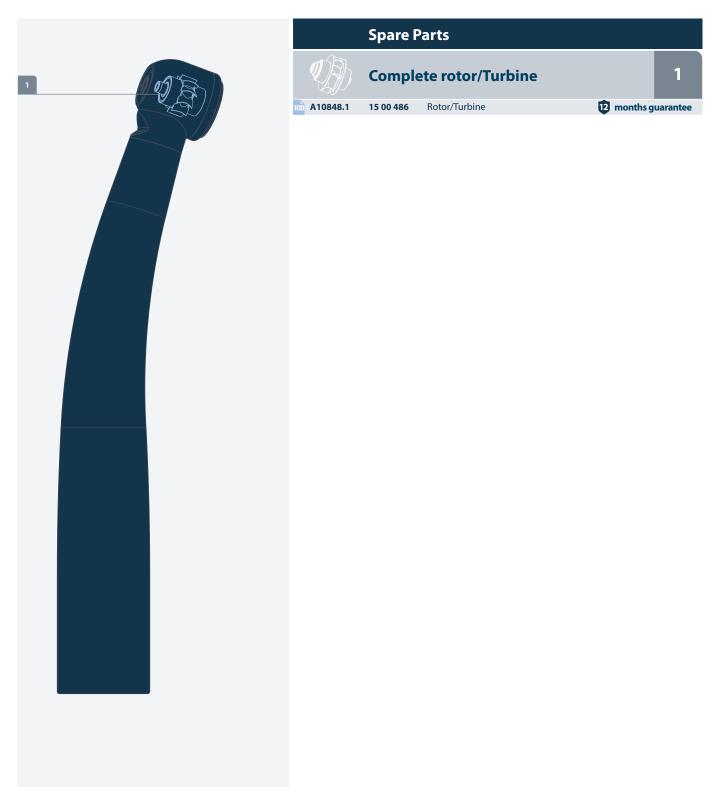
8

	-			
	Spare l	Parts		
Ð	Compl	ete rotor/Turbine		1
100 A10849.0	15 01 968	premium Rotor/Turbine	🔁 months g	uarantee
100 A10849.1	15 01 968	Rotor/Turbine	🔁 months g	uarantee
104 A10867.0		Combo	🔁 months g	uarantee
80 A10288.2		Radial ceramic bearing		$\bigcirc$
81 A10465.1		Angular-contact ceramic bearing		$\bigcirc$
	O-ring	s/Washers/Misc.		2

A10840.0	10-pack of o-rings	2.1
A10274.0	10-pack set of wave washers	2.2
57 A10274.0	TO-pack set of wave washers	2.2

Attachment Handpieces

#### Bien Air Prestige S30-S32



Attachment Handpieces

Order now at **www.adensys.net**. Contact us to check for availability of wholesale prices. **71** 

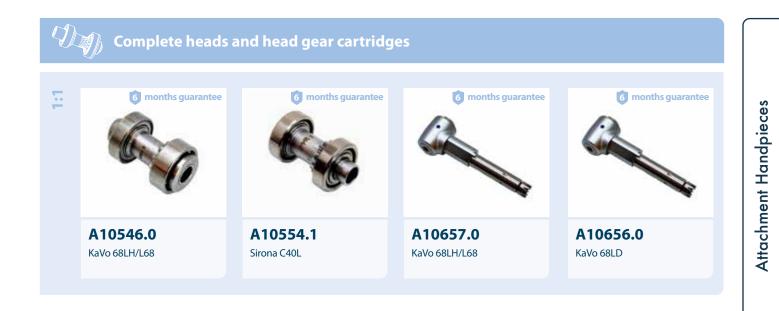
# All **Products.**

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

Parts/rotors for contra-angle handpieces	74
Bearings	80
O-rings	84
Gaskets	86
LED bulbs	86
Washers	87
Slingers	88
Glass Rod Light Guides	89
Tools/Miscellaneous parts	90
Back caps	93
Turbine couplings	94
Turbines/Rotors for high-speed handpieces	95









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All Products



made in Germany 12 months guarantee

# All Products

Order now at www.adensys.net. Contact us to check for availability of wholesale prices. 77

A10886.0

Drive kit

W&HWA-99 LT/A (new)

is Co



A10774.0 NSK X95L Complete drive set



A10825.0 Sirona T1 Line C200L (Z13 Ø 9.7) Complete drive set



A10827.0 Sirona T1 Line C200L (Z13 Ø 8.7) Complete drive set





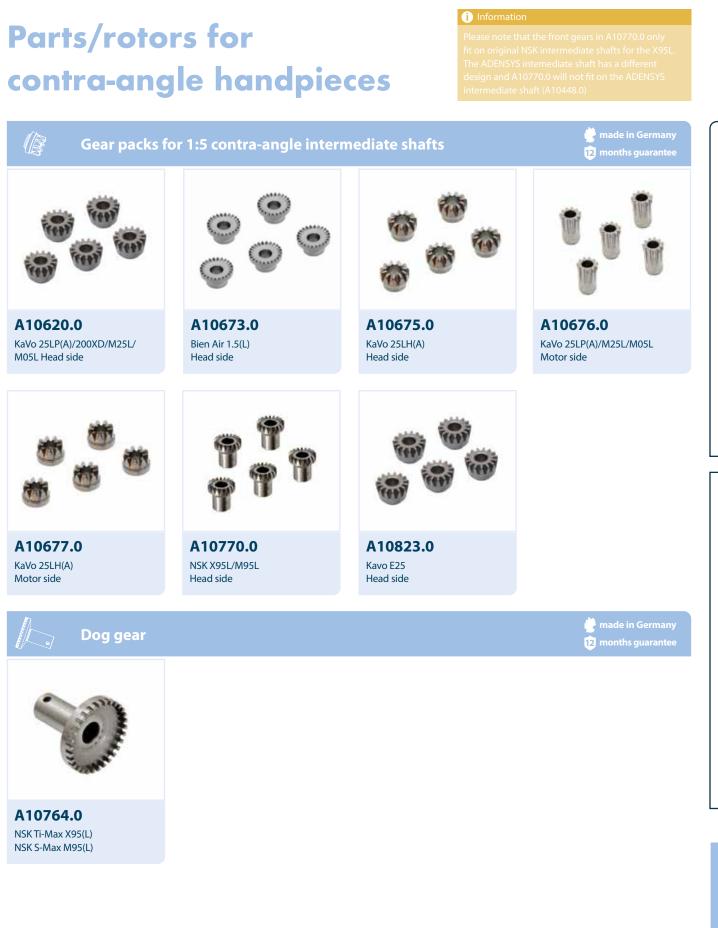
Bundles – 1:5 handpieces

made in Germany
 months guarantee

Zu



A10887.0 W&H WA-99 LT/A (old) Drive kit





#### i 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



Attachment Handpieces

A10282.1 CE, RC, TC, AS, ST ID: 3,175 OD: 5.980/6.350 W: 2.78 Czech



A10285.0 CE, RC, TC, AS, XI ID: 3,175 OD: 6,350 W: 2,38/2.78 Czech



A10286.0 CE, RC, TC, AS, FL ID: 3,175 OD: 6,350 W: 2,78 Japan



A10287.2 CE, RC, TC, AS ID: 3,175 OD: 6,350 W: 2,38 Japan



A10288.2 CE, RC, TC, AS ID: 3,175 OD: 6,350 W: 2,78 Japan



A10290.0 CE, AC, TC, AS, ST ID: 3,175 OD: 6,350 W: 2,78 Germany



A10291.0 CE, AC, TC, AS, ST, XI ID: 3,175 OD: 5.980/6.350 W: 2.38/2.78 Japan



A10292.0 CE, AC, TC, AS, ST ID: 3,175 OD: 5.980/6.450 W: 2,78 Germany



A10293.0 CE, AC, TC, AS, XI ID: 3,175 OD: 6,350 W: 2,38/2.78 Germany



A10295.0 CE, AC, TC, IS ID: 3,175 OD: 6,350 W: 2,38 Japan



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

High-Speed Handpieces

#### **Bearings**

#### i 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



A10445.0 CE, RC, TC, AS, FL ID: 3,175 OD: 6,350 W: 2,38 Japan



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



A10492.0 CE, RC, PH, IS, FL ID: 3,175 OD: 6,350 W: 2,78 Germany



A10570.0 CE, RC, TC, AS, FL ID: 3,175 OD: 6,300 W: 2,78 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 Gerrmany



A10734.0 CE, RC, TC, AS, FL ID: 3,175 OD: 6,300 W: 2,78 Germany Attachment Handpieces



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: 6.290 W: 2.05 Thailand



A10838.0 CE, AC, TC, IS ID: 3,175 OD: 6.290 W: 2.00 Thailand

All Products



#### i Information

Bearings for contra-angle / attachment handpieces



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





A10371.0 SS, RC, TC, AS, XI **ID:** 3,000 **OD:** 7,000 W: 2.35/3.35 Germany



A10372.0 SS, RC, TC, AS **ID:** 4,000 **OD:** 7,000 **W:** 2,00 Germany



A10396.0 SS, RC, TC, AS **ID:** 5,000 **OD:** 8,000 W: 3,00 Germany



A10464.0 SS, RC, TC, AS **ID:** 2,000 **OD:** 5,000 **W:** 1,50 Germany



A10491.0 SS, RC, TC, NS **ID:** 3,000 **OD:** 7,000 **W:** 3,00 Germany



A10621.0 CE, RC, TC, NS **ID:** 4,000 **OD:** 7,000 **W:** 2,00 Germany



A10663.0 SS, RC, TC, AS **ID:** 2,350 **OD:** 5,000 **W:** 1,50 Germany



A10666.0

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



#### i 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



A10667.0 CE, RC, TC, NS ID: 3,175 OD: 6,350 W: 1.92/2.78 Germany



A10765.0 SS, RC, TC, NS ID: 2,380 OD: 4,763 W: 1,59 Germany



A10781.0 SS, RC, TC, NS ID: 2,000 OD: 4,700 W: 6,00 Germany



A10821.0 CE, RC, TC, AS ID: 2.000 OD: 7.000 W: 3.00 Germany



#### A10822.0

CE, RC, TC, AS ID: 2.000 OD: 7.000 W: 3.00 Germany 0

A10834.0 CE, AC, TC, SI ID: 3,800 OD: 6.600 W: 1.75 Thailand Attachment Handpieces

### **O-rings**

Attachment Handpieces

#### O-rings



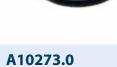
A10271.0 10-pack set of KaVo o-rings



A10436.0 10-pack blue Quadrings Midwest



A10272.0 10-pack set of o-rings for Star Solara turbines



10-pack set of o-rings for W&H, Sirona T2/T3 Racer



**A10432.0** 10-pack set of o-rings 6.0 x 0.85



**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 MULTIflexcompatible 170001



**A10745.0** 10-pack O-ring d 4.9 x 0.3 mm for canister X95L/M95L



10-pack O-ring for spray tube, front (head) side KaVo M25L/25LP/E25L



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 0

A10729.0 10-pack set of o-rings for Sirona T2 Control (6.3 x 0.8 mm)





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

### **O-rings/Gaskets**



### **O-rings/Gaskets**

Gask



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

#### 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

Attachment Handpieces

### Washers/Slingers

Wave washer



A10274.0 10-pack set of KaVo/W&H wave washers



A10327.0 10-pack set of wave washers



**A10347.0** 10-pack set of wave washers for cartridge KaVo 25LP(A)/E25L



A10348.0 2x circlip, 2x flat washers, 1 wave washer for cartridge Star 430/ Solara



**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 W&H Alegra TE 98(L) wave washers



A10875.0 10-pack set of Sirona T2/T3 Boost wave washers Attachment Handpieces

All Products

### Slingers/LED bulbs

**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 KaVo 8000/6500, NSK X600



**A10688.0** Slinger for Midwest Stylus

Attachment Handpieces

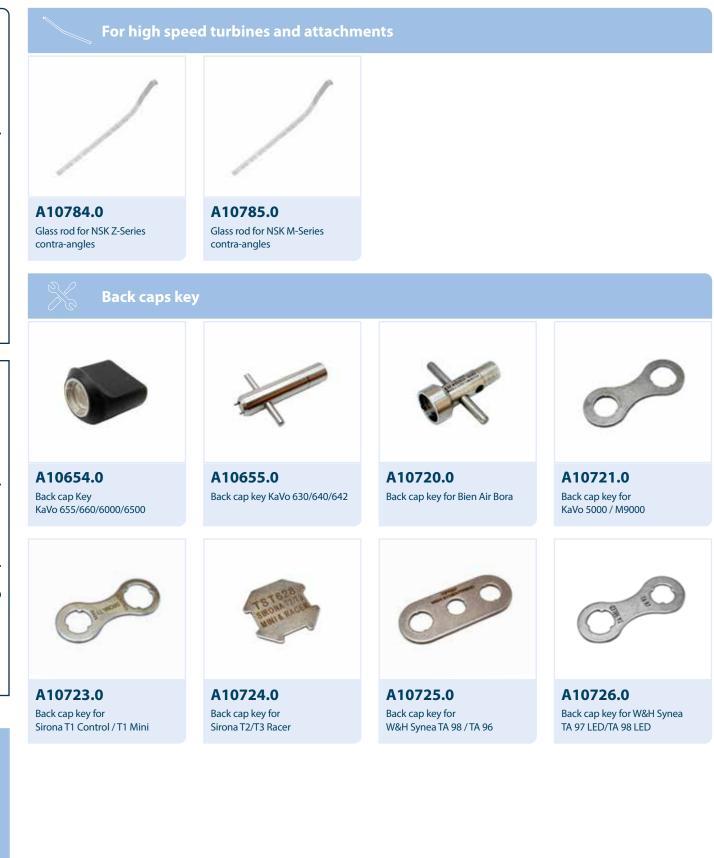


A10652.0 Distance washer head rotor Bien Air 1.5L

### **Glass Rod Light Guides**



### Glass Rod Light Guides Tools/Miscellaneous parts



### Tools/Miscellaneous parts

i Information

Nore information on the technical specifications of our oil, including the adapters needed for different nandpiece types can be found at ntps://www.adensys.net/product-category/ nccessories/dental-oil.

 $\mathcal{K}$ 

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 W&H 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 W&H TK 94/TK 100



A10888.0 Back cap key for NSK Z900

Attachment Handpieces

### **Tools/Miscellaneous parts**

#### i 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.

# Č

#### Other tools / parts / maintenance equipment





A10299.0 Retention force checker (for 1.6 mm bur)



A10744.0 ADENSYS precision tweezers 105mm stainless steel, non-magnetic



A10668.0 Digital one-channel manometer for drive air

A10783.0

Water filter for

KaVo 6000/6500/7000/8000



**A10678.0** Removal tool for front gear of Bien Air 1.5L intermediate shaft



A10790.0 ADENSYS handpiece maintenance spray 500ml



A10731.0 Ejector pin for push button KaVo 25LP(A)



A10793.0 Spray adapter for MILTIflex / KaVo



A10794.0 Spray adapter for Sirona



A10795.0 Spray adapter for NSK



A10796.0 Spray adapter for W&H



**A10813.0** 6-pack ADENSYS handpiece maintenance spray 500ml



A10874.0 3-in-1 spray adapter for contra-angles

### **Back caps**



#### Back caps for high-speed / turbine handpieces



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



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 W&H TA-98



Complete back cap for KaVo 647 / 649 /650



A11020.0 Complete back cap for W&H TA-98 LED



A11024.0 Complete back cap for NSK X600L



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 W&H TE-98 RM





A11029.0 Crown cap for KaVo 25LP/25LPA/25LPR





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

### **Back caps/Turbine couplings**

Back caps for high-speed / turbine handpieces A11030.0 A11034.0 A10035.0 Complete back cap assembly for Back cap for NSK Ti-Max Z900 Back cap for NSK Ti-Max X500 KaVo M25L AL DIA A10679.0 A10780.0 A10660.0 A10836.0 MULITflex (KaVo)-style NSK compatible Sirona 6-pin LED coupling for W&H RQ-24 compatible 6-pin 6-pin LED coupling 6-pin LED coupling turbine / high-speed handpiece coupling



Complete rotors/turbines

made in Germany
 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





**A10845.1** KaVo S609/S619



**A10560.0** KaVo A675/677 premium



A10560.1 KaVo E675/E677

| Products

Attachment Handpieces



Complete rotors/turbines

Sirona

wade in Germany months guarantee



**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





**A10854.1** Sirona T2/T3 Boost CBM (SN > 700.000)



A10493.1 Sirona T2 Control

Not made in Germany



A10843.1 Sirona SiroBoost



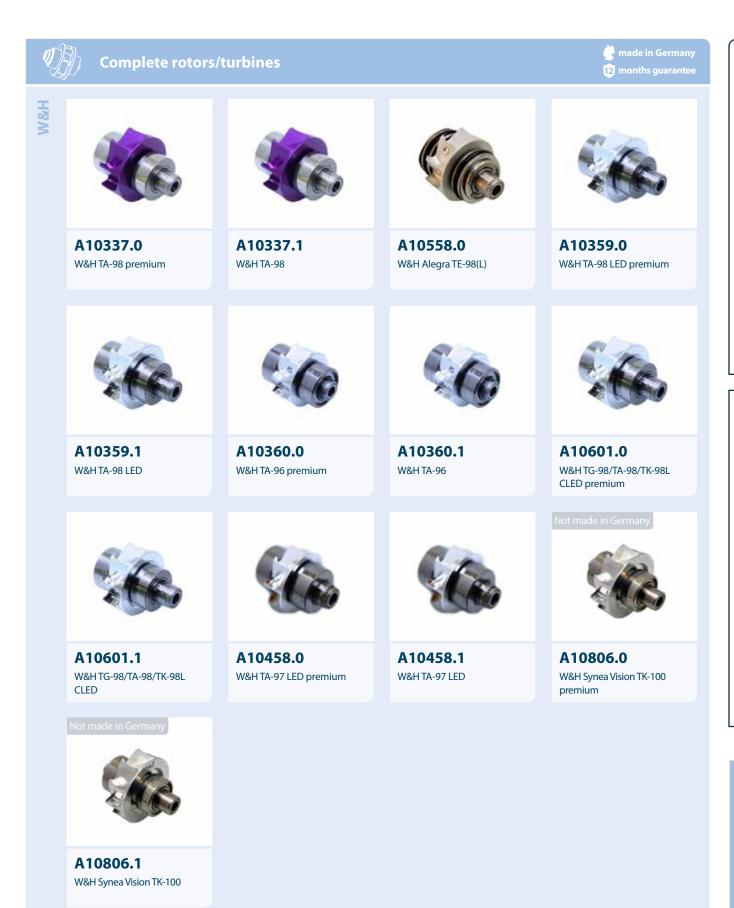
A10563.0 Sirona T1 Control CS





**A10805.1** Sirona T2/T3 Boost (SN > 600.000)

Attachment Handpieces



High-Speed Handpieces

Attachment Handpieces

ande in Germany Complete rotors/turbines 12 months guarantee **Bien Air** A10355.0 A10847.0 A10849.1 A10848.1 Bien Air Bora Bien Air Black Pearl Bien Air Prestige Bien Air Tornado A10849.0 Bien Air Tornado premium Star A10549.0 A10006.0 Star 430 Lube-Free Star 430 **B.A. International** A10493.1 A10353.1 A10854.1 BA 670 Ultimate BA 675/680/685 Ultimate BA 695 Ultimate

**100** Order now at **www.adensys.net**. Contact us to check for availability of wholesale prices.

| Products







ande in Germany Spindle/impeller combos 12 months guarantee W&H A10339.0 A10232.0 A10340.0 A10457.0 W&H TA-96 W&H TA-98 W&H TA-98 LED W&H TA-97 LED A10559.0 A10604.0 A10865.0 W&H Alegra TE-98 W&H TG-98/TA-98/TK-98L W&H Synea Vision TK-100 CLED Castellini A10542.0 A10543.0 Castellini Cleanair 2000 Castellini Titanium Gold **Bien Air** СОМВО A10356.0 A10866.0 A10867.0 Bien Air Bora Bien Air Black Pearl **Bien Air Tornado** 

Attachment Handpieces

# 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 negligibe effect on performance and lifetime, despite large cost increases.

At ADENSYS, 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!

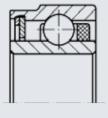
#### **Radial versus Angular-Contact**

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 that 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**

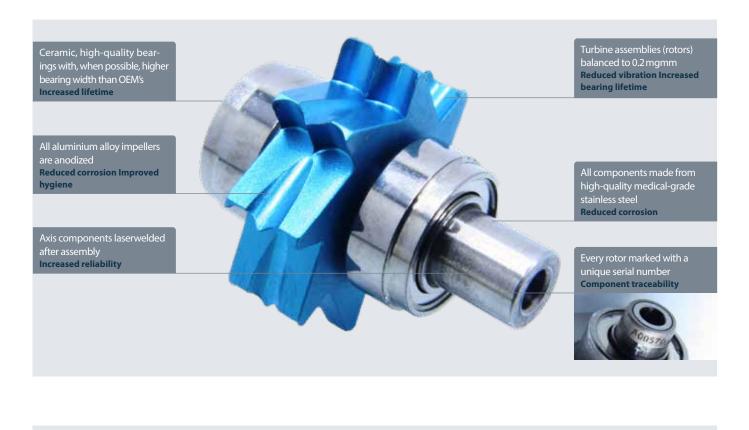
It is easy to write about the high quality we strive to deliver but it is a whole other thing to deliver on this every day, for every transaction or product. To start with, we live the mantra indicated above in all of our processes and dealings, and we extend this philosophy to all of our stakeholders: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



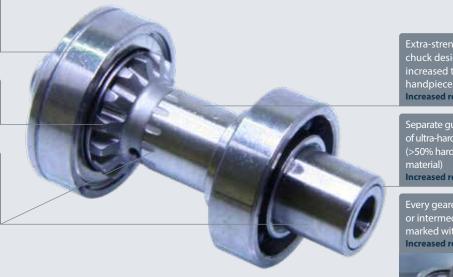
# **ADENSYS Quality** – materials and construction



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

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

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



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

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

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