

A close-up, high-contrast photograph of a Jota dental handpiece. The handpiece is dark and metallic, with a long, thin nozzle extending from the front. A fine, dense spray of white particles is being emitted from the nozzle, creating a large, billowing cloud that fills much of the upper and left portions of the frame. The background is dark, making the white spray stand out. The Jota logo is in the top right corner.

Jota

**JOTA
ESSENTIALS CATALOGUE
DENTISTRY & LABORATORY
EDITION III**

SWISS PRECISION  IN YOUR HANDS



BE PART OF JOTA WORLD - Global Presence in more than 80 countries

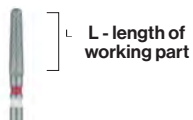
JOTA AG is a leading manufacturer of high-quality rotary instruments for dentistry and dental technology with a global presence in over 80 countries. The company offers a wide range of precision instruments designed for efficient, safe and gentle treatment as well as the processing of dental materials.

With the new JOTA Essential Catalogue Edition III, we offer a carefully curated and precise selection from our extensive range of rotary instruments, optimally tailored to meet the demands of your professional practice. This brochure highlights essential and proven products based on years of experience and valuable practical insights.

The Essential Catalogue Edition III combines premium quality with a user-friendly design in a compact format, making it easy to select the most relevant instruments from our portfolio. Each product in this selection represents reliability and performance, meeting the high standards that professionals expect from JOTA Switzerland. Our instruments support precision and efficiency in practices and laboratories worldwide. We are fully committed to continuously meeting your expectations for both products and service.

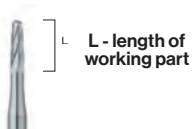
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DIAMONDS / POLISHERS / DIAMOND STONES



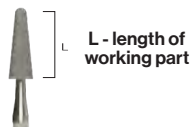
Order Number	Z 850 F .FG .025					
	Indication	Figure	Grain	Shank	Diameter	

CARBIDES



Order Number	CX 23R .FG .012					
	Indication	Figure		Shank	Diameter	

ABRASIVES



Order Number	(SZ) 652R .HP .035 (GRN)					
	Indication	Figure		Shank	Diameter	Color

SHANK TYPES

DESCRIPTION	Ø	↔	ISO	
 Straight handpiece	2,35 mm	44,5 mm	104	HP
 Right angle	2,35 mm	22 mm	204	RA
 Right angle, long	2,35 mm	26 mm	205	RAL
 Friction Grip	1,60 mm	19 mm	314	FG
 Friction Grip, long	1,60 mm	21 mm	315	FGL
 Friction Grip, extra long	1,60 mm	25 mm	316	FGXL



Packaging unit



Rotation Speed

APP

Application



DIA METER Ø	DIAMONDS & CARBIDES		ABRASIVES		
	Friction Grip FG	Right Angle RA Straight Handpiece HP	Straight Handpiece HP	Friction Grip FG	Right Angle RA
	min ⁻¹				
005	300.000	45.000			
006					
007					
008					
009					
010	280.000	20.000	15.000 – 20.000	80.000– 100.000	15.000 – 25.000
012					
014					
016					
018					
021	250.000	15.000	15.000 – 20.000	80.000– 100.000	15.000 – 25.000
023	210.000				
025	190.000				
027	180.000				
028	160.000				
029	150.000				
030					
033					

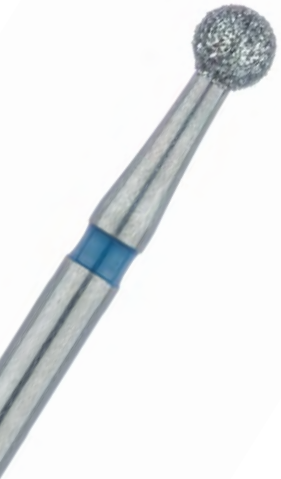
These are general guide speeds, specific recommended speeds for surgery instruments can be found on the product packing.

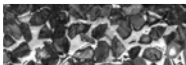
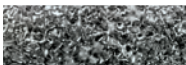
To over exceed the given rotation speed can lead to impairment of the efficiency of the products and/or be of danger for the patient as well as the user. The choice of the working speed for a specific application case is determined by the material subsequently to be used, the instrument power, and the maximal down force pressure ultimately decided upon by the user.

- > To produce optimum results, turn the rotary instruments at their recommended speeds.
- > Long, pointed instruments tend to oscillate if their maximum permissible speeds are exceeded - this may destroy the instruments.
- > If the diameter of the working part exceeds that of the shank, powerful centrifugal forces may build up at high speeds which may bend the shank and/or fracture the instruments. The maximum permissible speed must therefore never be exceeded.
- > The recommended speeds are shown in the adjacent diagram.
- > The maximum permissible working speeds are indicated in the manufacturer's information on the packaging.
- > **Non-adherence to the maximum permissible speeds increases the risk of accidents.**

Recommended speed

DENTISTRY



		COLOUR CODE	GRAIN		ISO	SIZE OF GRAINS	RECOMMENDED APPLICATION
		black ring	super coarse	= SG	544	150 - 180 µm	Coarse grinding
		green ring	coarse	= G	534	120-150 µm	Grinding
		blue ring	medium		524	90-106 µm	Universal grinding
		red ring	fine	= F	514	38-45 µm	Burnishing
		yellow ring	extra fine	= EF	504	20-30 µm	Prefinishing (composites)

JOTA Diamonds basically consist of the shank plus a hardened, stainless profiled body which is coated with only selected diamond grains using state-of-the-art electroplating techniques. This guarantees an extremely homogeneous, secure and long-lasting diamond coating. A choice of up to five different grain sizes is available.

The use of super coarse-grained (ISO 544) and coarse-grained (ISO534) diamonds, can lead to increased heat generation. Using these diamonds requires sufficient cooling and minimal application force. After using these diamond instruments, finishing should be performed in order to obtain an optimal surface roughness/smoothness.



ICONS DENTISTRY



Prophylaxis



Orthodontics



Oral surgery



Preparation of cavities



Removal of old fillings



Treatment of fillings



Preparation of crowns



Treatment of root-canal



Smoothing of tooth roots



Oral implantology



Cutting of crowns



FIGURE	801	801	801	801	801	801	801	801	801	801
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FGXL	FGXL
Ø	008	010	012	014	016	018	021	023	014	018
L mm	--	--	--	--	--	--	--	--	--	--
	5	5	5	5	5	5	5	5	5	5
APP	4,5,6,7									



FIGURE	801G	801G	801G	801G	801G	801G	801G	801SG	801SG	801SG
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	010	012	014	016	018	021	023	014	016	018
L mm	--	--	--	--	--	--	--	--	--	--
	5	5	5	5	5	5	5	5	5	5
APP	4,5,6,7							4,5,8		

										
FIGURE	801SG	801L	801L	801L	801LG	801LG	801LG	833EF	833F	833F
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	021	012	014	016	012	014	016	023	014	018
L mm	--	--	--	--	--	--	--	4,2	2,8	3,4
	5	5	5	5	5	5	5	5	5	5
APP	4,5,8							1,6,7		

										
FIGURE	833F	833	833G	833G	830EF	830EF	830EF	830F	830F	830F
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	023	023	018	023	016	021	023	018	021	023
L mm	3,4	4,2	3,4	4,2	4,5	5,0	5,0	4,5	5,0	5,0
	5	5	5	5	5	5	5	5	5	5
APP	1,6,7									



FIGURE	830	830	830	830G	830G	830G	831F	805	805	805
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	018	021	023	016	018	023	016	010	012	014
L mm	4,5	5,0	5,0	5,0	5,0	5,0	3,5	1,0	1,5	1,5
	5	5	5	5	5	5	5	5	5	5
APP	6,7						1,6,7	4,5,6		



FIGURE	805	808	835	835	835	837L	837L	837L	837LG	837LG
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	016	012	008	010	012	012	014	016	012	014
L mm	1,5	2,7	3,0	3,5	3,5	8	8	8	8,0	8,0
	5	5	5	5	5	5	5	5	5	5
APP	4,5,6		4,6,7			4,5,8			4,5,6	

										
FIGURE	837LG	881F	881F	881F	881	881	881	881G	881G	881G
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	016	012	014	016	012	014	016	012	014	016
L mm	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0
	5	5	5	5	5	5	5	5	5	5
APP	4,5,6,	7						4,5,6		

										
FIGURE	881SG	881SG	868F	868F	868	868	868G	868G	845R	845R
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	012	014	012	014	012	014	012	014	018	025
L mm	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	4,0	4,0
	5	5	5	5	5	5	5	5	5	5
APP	2,4,6		7						4,5,7	

										
FIGURE	558F	558F	558	558	848	848	848	850F	850F	850F
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	013	015	013	015	014	016	018	014	016	018
L mm	10,0	10,0	10,0	10,0	10,0	10,0	10,0	8,0	8,0	8,0
	5	5	5	5	5	5	5	5	5	5
APP	7		4,6,7							

										
FIGURE	850	850	850	850G	850G	850G	851L	852F	852F	852F
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	014	016	018	014	016	018	016	012	014	016
L mm	8,0	8,0	8,0	8,0	8,0	8,0	8,0	10,0	10,0	10,0
	5	5	5	5	5	5	5	5	5	5
APP	4,6,7						4,7,8	4,6,7		



										
FIGURE	852F	852	852	852	852	852G	852G	852G	852G	852SG
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	018	012	014	016	018	012	014	016	018	014
L mm	10,0	10,0	10,0	10,0	10,0	10,0	10,0	10,0	10,0	10,0
	5	5	5	5	5	5	5	5	5	5
APP	4,6,7					4,5,6,7				

										
FIGURE	852SG	852SG	859EF	859EF	859EF	859F	859F	859F	859	859
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	016	018	010	012	014	010	012	014	010	012
L mm	10,0	10,0	10,0	10,0	10,0	10,0	10,0	10,0	10,0	10,0
	5	5	5	5	5	5	5	5	5	5
APP	4,5,6,7		2,4,6,7							



FIGURE	859	859G	859G	859LF	859LF	859LF	859L	859L	859L	820F
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	014	012	014	010	012	014	010	012	014	016
L mm	10,0	10,0	10,0	12,0	12,0	12,0	12,0	12,0	12,0	5
	5	5	5	5	5	5	5	5	5	5
APP	2,4,6	2,3,4,6,7								1,2,4,6,9



FIGURE	890LF	890F	889LF	895F	862EF	862EF	862EF	862F	862F	862F
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	008	010	009	016	010	012	014	010	012	014
L mm	3,0	3,0	3,5	3,5	8,0	8,0	8,0	8,0	8,0	8,0
	5	5	5	5	5	5	5	5	5	5
APP	1,2,4,6				6					1,4,6,7



FIGURE	862	862	862G	862G	862G	863EF	863F	863	863G	863G
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	010	012 / 014	010	012	014	012	012	012	012	016
L mm	8,0	8,0	8,0	8,0	8,0	10,0	10,0	10,0	10,0	10,0
	5	5	5	5	5	5	5	5	5	5
APP	1,4,6,7					4,6,7				

ZIRCONIA DIAMONDS

FIGURE	863G	863SG	834	138	837D	Z850F	Z850	Z801L	Z838L	Z818
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	016	016	016	007	014	018	018	014	014	060
L mm	10,0	10,0	0,3	1,4	7	8,0	8,0	3,6	6,0	0,6
	5	5	5	5	5	5	5	5	5	2
APP	4,6,7	4,7	4	4	4,5,8	11				

* CE = cool & efficient

CARBIDES

DENTISTRY

SURGERY

jota



FIGURE	C151	C152
SHANK	FGL	FGL
Ø	016	014
L mm	10,8	9
	2	2
ALT. SHANK	FGXL	
APP	3	

	COLOUR CODE	DESCRIPTION	CHARACTERISTICS
	black ring	super coarse	amalgam remover
	green ring	coarse	high cutting efficiency
	blue ring	medium	x-cut fast cutting
	Finishing burs without ring	regular	8-12 Blades



ORAL & MAXILLOFACIAL SURGERY	RECOMMENDED	MAXIMUM
Friction Grip FG	80'000 min ⁻¹	100'000 – 120'000 min ⁻¹





FIGURE	C1	C1	C1	C1	C1	C1	C1	C1S	C1S	C1S
SHANK	FG	FG	FG	FG	FG	RA	RA	RA	RA	FG
Ø	010	012	014	016	018	021	023	010	012	014
L mm										
	5	5	5	5	5	5	5	5	5	5
ALT. SHANK	RA	RA	RA	RA	RA			RAL	RAL	RA/RAL
APP	3,4,5							4,5		

FIGURE	C1S	C1S	C1S	C1S	CQ1	CQ1	CQ1L	CQ1L	C2	C2
SHANK	FG	FG	RA	RA	RA	RA	RA	RA	FG	FG
Ø	016	018	021	023	016	018	016	018	012	014
L mm	--	--	--	--					1,2	1,4
	5	5	5	5	5	5	5	5	5	5
ALT. SHANK	RA/RAL	RA/RAL	RAL	RAL						
APP	4,5				4					



FIGURE	C7	C7	C21	C21	C23R	C23R	C31	C31R	C33	C33
SHANK	FG	FG	FG	FG	FG	RA	FG	FG	FG	FG
Ø	008	010	010	012	012	016	010	012	010	012
L mm	1,8	2,0	4,1	4,1	4,1	4,1	4,1	4,1	4,1	4,1
	5	5	5	5	5	5	5	5	5	5
ALT. SHANK										
APP	2,3,4,6,7		2,4,6				3,4,7	2,4,7	4,6,7	



FIGURE	C48L	C31A	CX21	CX23R	RRC31R	RRC7	CG35RS	C379	C379	C244K
SHANK	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Ø	012	012	012	012	012	008	012	018	023	016
L mm	8,0	5,3	4,0	4,1	4,0	2,0	3,5	3,5	4,2	8,0
	5	5	5	5	5	5	5	5	5	5
ALT. SHANK								RA	RA	
APP	1,2,6,7	4	5,11			5	5,11	2,4,7		1,2,6,7



POLISHERS

COMPOSITE

STEP 1

STEP 2



9825



9828



9826



9765M



9829



9831



9834



9832



9765F



9837

Composite ✓ 3D Printing Hybrid material

CERAMICS

STEP 1

STEP 2

STEP 3



9812G



9813G



9805G



9812M



9813M



9805M



9812F



9813F



9805F

Feldspar ceramics, Leucite reinforced ceramics, Hybrid ceramics ✓ Lithium disilicate, Zirconia

ZIRCONIA

STEP 1

STEP 2



ZIR9861M



ZIR9863M



ZIR9861F



ZIR9863F

Zirconia

LITHIUM DISILICATE

STEP 1

STEP 2



LS9871M



LS9873M



LS9871F



LS9873F

Lithium disilicate

METAL

STEP 1

STEP 2

STEP 3



9501G



9501M



9501F

Amalgam, Precious alloy ✓ Non Precious alloy, Titanium

UNIVERSAL



9150



9113M

✓ Feldspar ceramics, Composite, Amalgam, Precious Alloy, Hybrid ceramics, Non precious Alloy, Acrylics



STEP 1

STEP 2

COMPO-
SITE

FIGURE	9825	9828	9826	9765M	9829	9831	9834	9832	9765F	9837
SHANK	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA
Ø	030	040	060	055	140	030	040	060	055	140
L mm	6,5	6,5	6,5	8,8	1,6	6,5	6,0	6,5	8,8	1,6
	2	2	2	2	2	2	2	2	2	2
	3'000-8'000 rpm	3'000-8'000 rpm	3'000-8'000 rpm	3'000-8'000 rpm	3'000-8'000 rpm	3'000-10'000 rpm	3'000-10'000 rpm	3'000-10'000 rpm	3'000-8'000 rpm	3'000-8'000 rpm

STEP 1

STEP 2

STEP 3

CERAMIC

FIGURE	9812G	9813G	9805G	9812M	9813M	9805M	9812F	9813F	9805F
SHANK	RA	RA	RA	RA	RA	RA	RA	RA	RA
Ø	040	060	140	040	060	140	040	060	140
L mm	10,0	7,5	1,6	10,0	7,5	1,6	10,0	7,5	1,6
	5	5	2	5	5	2	5	5	2
	7'000-12'000 rpm	7'000-12'000 rpm	7'000-12'000 rpm	7'000-12'000 rpm	7'000-12'000 rpm	7'000-12'000 rpm	7'000-12'000 rpm	7'000-12'000 rpm	7'000-12'000 rpm



STEP 1				STEP 2				STEP 1				STEP 2			
LITHIUM DISILICATE								ZIRCONIA							
FIGURE	LS9871M	LS9873M	LS9871F	LS9873F		FIGURE	ZIR9861M	ZIR9863M	ZIR9861F	ZIR9863F					
SHANK	RA	RA	RA	RA		SHANK	RA	RA	RA	RA					
Ø	040	140	040	140		Ø	040	140	040	140					
L mm	10,0	1,6	10,0	1,6		L mm	10,0	1,6	10,0	1,6					
	2	2	2	2			2	2	2	2					
	7'000-10'000 rpm	7'000-10'000 rpm	7'000-10'000 rpm	7'000-10'000 rpm			7'000-10'000 rpm	7'000-10'000 rpm	7'000-10'000 rpm	7'000-10'000 rpm					

STEP 1				STEP 2				STEP 3			
UNI-VERSAL				METAL							
FIGURE	9113M	9150		FIGURE	9501G	9501M	9501F				
SHANK	RA	RA		SHANK	RA	RA	RA				
Ø	050	140		Ø	030	030	030				
L mm	10,0	1,6		L mm	6,0	6,0	6,0				
	5	2			5	5	5				
	7'000-10'000 rpm	7'000-12'000 rpm			7'000-12'000 rpm	7'000-12'000 rpm	7'000-12'000 rpm				

i ABRASIVES

		ZIRCONIA	CERAMICS	DENTIN	METAL	COMPOSITE	RECOMMENDED APPLICATION
	ARKANSAS (ARK)	✗	✗	✓	✓		FINISHING/PRE-POLISHING OF ALL TYPES OF FILLING MATERIALS AS WELL AS NATURAL TOOTH
	DIAMOND STONE (SD)	✓	✓	✗	✓	✓	ADJUSTING CERAMICS
	GLAZE PREP (GP)		✓	✗	✗	✓	ADJUSTING ZIRCONIA AND CERAMICS

FIGURE	645	661	666	601	6198
SHANK	FG	FG	FG	FG	FG
Ø	028	025	025	030	023
TYPE	ARK	ARK	ARK	ARK	ARK
L mm	7,0	7,0	6,5	--	8,0
	5	5	5	5	5
ALT. SHANK	RA	RA	RA	RA	RA

SD661F	GP662
RA	RA
025	035
7,0	7,5
5	2

LABORATORY



DIAMOND DISCS

			Acrylics cutting	Acrylics separation	Ceramics cutting	Ceramics separation	Zirconium oxide	Plaster
947DEF		super flexible	✗	✓	✗	✓	✗	✗
947DF		super flexible	✗	✓	✗	✓	✗	✗
921DF		super flexible	✗	✓	✗	✓	✗	✗
915D / DF		super flexible	✗	✓	✗	✓	✗	✗
930D		flexible	✗	✗	✓	✗	✓	✗
932D		flexible	✓	✗	✓	✓	✓	✗
935D		flexible	✓	✓	✓	✓	✓	✗
365D		flexible	✗	✗	✗	✗	✗	✓



FIGURE	947DEF	947DF	921DF	915DF	915D	930D	932D	935D	365D
SHANK	HP	HP	HP	HP	HP	HP	HP	HP	HP
Ø	220	220	220	190	190	220	220	220	300/450
L mm	0,15	0,20	0,15	0,20	0,20	0,30	0,30	0,30	0,30
	1	1	1	1	1	1	1	1	1
APP	3,5	5							2



FIGURE	801	801	801	801	801	805	805	830	837	848
SHANK	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP
Ø	014	018	021	023	033	018	021	023	027	018
L mm						2,3	2,3	5	8,0	10,0
	5	5	5	5	5	5	5	5	5	5
APP	4,5,8,9,10,11,12									



FIGURE	848	852	852	852F	859	859	863	863	869	892G
SHANK	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP
Ø	023	018	023	023	010	014	016	025	014	021
L mm	10,0	10,0	10,0	10,0	10,0	10,0	10,0	10,0	10,0	15,0
	5	5	5	5	5	5	5	5	5	5
APP	4,5,8,9,10,11,12									

DIAMONDS

LABORATORY

ZIRCONIA DIAMONDS

jota



FIGURE	Z801L	Z833	Z850F	Z850	Z818
SHANK	FG	FG	FG	FG	FG
Ø	014	023	018	018	060
L mm	1,4	4,2	8,0	8,0	0,6
	5	5	5	5	2
APP	4				

372RF
RA
FG>RA
Adapter
5



ICONS LABORATORY



1

Model casting technique



2

Model casting



3

Acrylics technique



4

Crown and bridge technique



5

Veneer and ceramic technique



6

Orthodontics

CARBIDES

			PLASTER	PRECIOUS ALLOY	SEMI-PRECIOUS ALLOY	NON PRECIOUS ALLOY	MODEL CASTING ALLOY	TITANIUM / TITANIUM ALLOY	ACRYLICS	TRAY MATERIAL	CERAMICS
	C-	PLAIN CUT STANDARD	✓	✓	✓	✓	✓	×	✓	×	×
	CX-F	X-CUT FINE	×	✓	✓	✓	✓	×	✓	✓	✓
	CX-	X-CUT STANDARD	✓	✓	✓	✓	✓	✓	✓	✓	✓
	CX-G	X-CUT COARSE	✓	✓	✓	✓	✓	×	✓	✓	×

FIGURE	C1	C1	C1	C1	C1	C1	C1	C1	C71	C2
SHANK	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP
Ø	008	010	012	014	016	018	021	023	023	014
L mm										1,4
	5	5	5	5	5	5	5	5	5	5
APP	1,2,3,4,6								1,2,3,4	4



FIGURE	C2	C21	C21	C33	C33	C33	C23SR	C515
SHANK	HP	HP	HP	HP	HP	HP	HP	HP
Ø	016	014	016	010	012	016	009	023
L mm	1,4	4,5	4,5	4,1	4,1	4,5	4,2	11,0
	5	5	5	5	5	5	5	2
APP	4	2,4,6		4,6			2,4,6	2,4,6



FIGURE	CX77MF	CX75F	CX251F	C251	CX23	CX79	CX251	CQ251	CX251G
SHANK	HP	HP	HP	HP	HP	HP	HP	HP	HP
Ø	023	060	060	060	023	045	060	060	060
L mm	5,5	12,0	14,7	14,7	11,5	12,7	14,7	14,7	14,7
	1	1	1	1	1	1	1	1	1
APP	1,4,5			1,2,4					3



POLISHERS

CERAMICS

STEP 1

STEP 2



9803G

9805G

9802G

9801G

9803M

9805M

9802M

9801M

Feldspar ceramics, Leucite reinforced ceramics, Hybrid ceramics ✓ Lithium disilicate, Zirconia

CERAMICS

STEP 3



9803F

9805F

9802F

9801F

Feldspar ceramics, Leucite reinforced ceramics, Hybrid ceramics ✓ Lithium disilicate, Zirconia

LITHIUM DISILICATE

STEP 1

STEP 2



LS9876M

LS9878M

LS9875M

LS9876F

LS9878F

LS9875F

Lithium disilicate

METAL

STEP 1

STEP 2



9315M

9315F

Non precious alloy, Precious alloy ✓ Titanium

ZIRCONIA

STEP 1

STEP 2



ZIR9866M

ZIR9868M

ZIR9865M

ZIR9866F

ZIR9868F

ZIR9865F

Sintered Zirconia oxide, Zirconia oxide

GREEN STATE



ZIR9972M

ZIR9972F

Pre-sintered Zirconia oxide

UNIVERSAL



9103G

9103G

✓ Feldspar ceramics, Precious Alloy, Non Precious Alloy, Amalgam
✓ Lithium disilicate, Zirconia oxide, Hybrid Ceramics, Composite, Acrylics, Titanium

ACRYLICS

STEP 1

STEP 2

STEP 3



9572G

9571M

9572F

Acrylics

STEP 1

CERAMICS

FIGURE	9803G	9805G	9802G	9801G
SHANK	HP	HP	HP	HP
Ø	040	140	170	260
L mm	13,0	1,6	2,5	2,0
	2	2	1	1
	7'000-12'000 rpm			

STEP 2

9803M	9805M	9802M	9801M
HP	HP	HP	HP
040	140	170	260
13,0	1,6	2,5	2,0
2	2	1	1
7'000-12'000 rpm			

STEP 3

CERAMICS

FIGURE	9803F	9805F	9802F	9801F
SHANK	HP	HP	HP	HP
Ø	040	140	170	260
L mm	13,0	1,6	2,5	2,0
	2	2	1	1
	7'000-12'000 rpm			

POLISHERS

LABORATORY

jota



STEP 1



FIGURE	LS9876M	LS9878M	LS9875M
SHANK	HP	HP	HP
Ø	040	140	260
L mm	13,0	1,6	2,0
	2	2	1
	7'-10'000 rpm	7'-12'000 rpm	7'-10'000 rpm

STEP 1



FIGURE	ZIR9866M	ZIR9868M	ZIR9865M
SHANK	HP	HP	HP
Ø	040	140	260
L mm	13,0	1,6	2,0
	2	2	1
	7'000-12'000 rpm		

STEP 2



FIGURE	LS9876F	LS9878F	LS9875F
SHANK	HP	HP	HP
Ø	040	140	260
L mm	13,0	1,6	2,0
	2	2	1
	7'-10'000 rpm	7'-12'000 rpm	7'-10'000 rpm

STEP 2



FIGURE	ZIR9866F	ZIR9868F	ZIR9865F
SHANK	HP	HP	HP
Ø	040	140	260
L mm	13,0	1,6	2,0
	2	2	1
	7'000-12'000 rpm		

STEP 1



STEP 2



GREEN STATE

FIGURE	ZIR9972M	ZIR9972F
SHANK	HP	HP
Ø	100	100
L mm	24,0	24,0
	5	5
	4'000-7'000 rpm	

POLISHERS

LABORATORY

jota



STEP 1

STEP 2



METAL

FIGURE	9315M	9315F
SHANK	HP	HP
Ø	055	055
L mm	18,0	18,0
	5	5
	7'000-12'000 rpm	

STEP 1

STEP 2

STEP 3



ACRYLICS

FIGURE	9572G	9572M	9572F
SHANK	HP	HP	HP
Ø	100	100	100
L mm	24,0	24,0	24,0
	5	5	5
	5'000-7'000 rpm		

UNI-
VERSAL



FIGURE	9103G	9107G	303-49RF
SHANK	UM	UM	Mandrel
Ø	220	220	
L mm	3,0	4,0	
	10	10	
	7'000-10'000 rpm		

	ABRASIVES					
						
	PINK (PNK)	BROWN (DBR)	GREEN (GRN)	DIAMOND STONE (SD)	ZIRCONFLEX (SZ)	THE BLUE (BLU)
						
Zirconia	✗	✗	✗	✓		✗
Zirconia reinforced lithium disilicate	✗	✗	✓	✓	✓	✗
Composite	✓	✗	✓	✓	✗	✗
Leucite reinforced ceramic	✗	✗	✓		✗	✗
Lithium disilicate	✗	✗	✓		✗	✗
Feldspar ceramics	✓	✗	✓		✓	✗
PEEK		✗	✗	✗	✓	✗
Non precious alloy	✓	✓	✗	✗	✗	✗
Acrylics	✗	✗	✓	✗	✗	✓
Soft reline	✗	✗	✗	✗	✗	
Precious alloy	✓	✓	✓	✓	✗	✗
Hybrid Ceramics	✓	✗	✓	✗	✗	✗
Model casting alloys	✓	✓	✗	✗	✗	✗

										
FIGURE	733	732	731	733	732	731	652	642	731	B744S
SHANK	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP
Ø	035	050	065	035	050	065	035	050	065	135
TYPE	PNK	PNK	PNK	DBR	DBR	DBR	GRN	GRN	GRN	BLU
L mm	10,5	12,5	13,0	10,5	12,5	13,0	10,5	12,5	13,0	24
	5	5	5	5	5	5	5	5	5	1

										
FIGURE	SD652RF	SD660F	SD653F	SD732F	SD716F	SZ652R	SZ660	SZ732	SZ736	SZ715
SHANK	HP	HP	HP	HP	HP	HP	HP	HP	HP	HP
Ø	035	040	040	050	150	035	040	050	065	160
TYPE	SD	SD	SD	SD	SD	SZ	SZ	SZ	SZ	SZ
L mm	10,5	12,0	12,0	12,5	3,0	10,5	12,0	7,0	7,0	0,9
	2	2	2	2	1	2	2	2	2	1

i ICONS DENTISTRY

1		Prophylaxis	5		Removal of old fillings	9		Smoothing of tooth roots
2		Orthodontics	6		Treatment of fillings	10		Oral implantology
3		Oral surgery	7		Preparation of crowns	11		Cutting of crowns
4		Preparation of cavities	8		Treatment of root-canal			

i ICONS LABORATORY

1		Model casting technique	5		Veneer and ceramic technique		
2		Model casting	6		Orthodontics		
3		Acrylic technique					
4		Crown and bridge technique					

INSTRUCTIONS FOR PROCESSING & GENERAL APPLICATION AND SAFETY INSTRUCTIONS

**Instructions for the processing
(Cleaning, disinfection, and sterilization)
of instruments from JOTA AG
Issued: January 2025**

The medical devices produced and sold by JOTA AG are re-usable unless their label contains explicit information to the contrary. However, as a rule, it is the sole responsibility of the doctor/expert using the devices to decide whether, depending on the respective case and the potential wear and tear of the products, he can re-use the products and how frequently he uses them. In case of doubt, it is always advisable to discard the products early and to replace them. The manufacturer JOTA AG cannot guarantee the faultless function and performance of the products combined with a maximum degree of safety if the products are overused. These reprocessing instructions apply in principle to all medical devices making up the product range supplied by JOTA AG. Any particular features and/or exclusions that only concern individual items or groups of items are referred to separately.

Fundamental points

All instruments are classified as semi-critical instruments and are to be cleaned, disinfected, and sterilized prior to each application; this is required as well for the first use after delivery of the unsterile instruments (cleaning and disinfection after removal of the protective packaging, sterilization after packaging). An effective cleaning and disinfection are indispensable requirements for an effective sterilization of the instruments.

You are responsible for the sterility of the instruments. Therefore, please ensure that only suffi-

ciently device and product specifically validated procedures will be used for cleaning, disinfection, and sterilization, that the used devices (WD, sterilizer) will be maintained and checked regularly, as well as that the validated parameters will be applied for each cycle.

Please pay attention to avoid a higher contamination of the complete bur block during application; otherwise, it is necessary to clean and disinfect the bur block as well as all instruments inside (after removal).

Additionally, please pay attention to the legal provisions valid for your country as well as to the hygienic instructions of the doctor's practice or of the hospital. This applies particularly to the different guidelines regarding the inactivation of prions (not relevant for USA). It also refers to country specific specification of workplaces for cleaning and disinfection.

Some instruments require additional aspects. For this, pay attention-on to chapter "Attachment A: Specific aspects".

Cleaning and disinfecting

Basic:

If possible, an automated procedure (WD (Washer-Disinfector)) should be used for cleaning and disinfection of the instruments. A manual procedure

– even in case of application of an ultrasonic bath
– should only be used if an automated procedure is not available; in this case, the significantly lower efficiency and reproducibility of a manual procedure has to be considered. The pre-treatment step is to be performed in both cases.

Pre-treatment:

Please remove coarse impurities of the instruments directly after application (within a maximum of 1 h).

Procedure:

1. Rinse the instruments at least 1 min under running water (temperature < 35 °C/95 °F).
2. Soak the instruments at least for the given soaking time in the pre-cleaning solution (e.g. ID 212 forte, 2% for 5 Minutes; by the use of an ultrasonic bath) so that the instruments are sufficiently covered. Pay attention that there is no contact between the instruments. Assist cleaning by careful brushing with a soft brush (at least three times after beginning of soaking, aids see chapter "Specific aspects").
3. Then activate ultrasonic treatment for an additional soaking time (but not less than 5 min).
4. Then, remove the instruments of the pre-cleaning solution and post-rinse them at least three times intensively (at least 1 min) with cold tap water.
5. In case of still visible contamination repeat steps 2, 3, and 4, otherwise discard the instrument. This is especially relevant for diamond instruments.

Pay attention to following points during selection of cleaning detergent 1):

- › fundamental suitability for the cleaning of instruments made of metallic or plastic material
- › suitability of the cleaning detergent for ultrasonic cleaning (no foam development)
- › compatibility of the cleaning detergent with the instruments (see chapter „material resistance,“)

Pay attention to the instructions of the detergent manufacturer regarding concentration, temperature and soaking time as well as post-rinsing. Please use only freshly prepared solutions as well as only demineralized sterile or low contaminated water (max. 10 germs/ml) as well as low endotoxin contaminated water (max. 0.25 endotoxin units/ml), for example purified/highly purified water, and a soft, clean, and lint-free cloth and/or filtered air for drying, respectively.

1) In case of application of a cleaning and disinfection detergent for this (e.g. in consequence of personnel's safety) please consider, that this should be aldehyde-free (otherwise fixation of blood impurities), possess a fundamentally approved efficiency (for example VAH/DGHM or FDA/ EPA approval/clearance/ registration or CE marking), be suitable for the disinfection of instruments made of metallic or plastic material, and be compatible with the instruments (see chapter „material resistance,,). Please consider, that a disinfectant used in the pre-treatment step serves only the personnel's safety, but cannot replace the disinfection step later to be performed after cleaning.

Automated cleaning/disinfection (recommended; WD (Washer-Disinfector)):

Pay attention to following points during selection of the WD:

- › fundamentally approved efficiency of the WD (for example CE marking according to EN ISO 15883or DGHM or FDA approval/clearance/ registration)
- › possibility for an approved program for thermal disinfection (AO value > 3000 or – in case of older devices - at least 5 min at 90°C/194 °F; in case of chemical disinfection danger of remnants of the disinfectant on the instruments)
- › fundamental suitability of the program for instruments as well as rinsing steps in the program

- › post-rinsing only with demineralized sterile or low contaminated water (max. 10 germs/ml, max. 0.25 endotoxin units/ml), for example purified/highly purified water
- › only use of filtered air (oil-free, low contamination with microorganisms and particles) for drying
- › regularly maintenance and check/calibration of the WD

Pay attention to following points during selection of the cleaning detergent:

- › fundamental suitability for the cleaning of instruments made of metallic or plastic material
- › additional application – in case of non-application of a thermal disinfection – of a suitable disinfectant with approved efficiency (for example VAH/DGHM or FDA/EPA approval clearance/registration or CE marking) compatible to the used cleaning detergent
- › compatibility of the used detergents with the instruments (see chapter „material resistance,,)

Pay attention to the instructions of the detergent manufacturers regarding concentration, temperature and soaking time as well as post-rinsing.

Procedure:

1. Transfer the pre-cleaned instruments in the WD by the use of a small piece's basket or tray.
2. Start the program:
3 min pre-rinsing with cold tap water (<30°C)
drain
10 min cleaning at 50 - 60°C with 0.2-1% Neodisher® Mediclean Dental
drain
1 min rinsing with demin. water (40-45°C)
drain
1 min rinsing with cold demin. water (<30°C)
drain
5 min thermal disinfection for 5 min at

90-92°C with demin. water
drain
30 min automatic drying at 100°C (wd program)

3. Remove the instruments of the WD after end of the program.
4. Check and pack the instruments immediately after the removal (see chapters „check,, „maintenance,, and “packaging,, if necessary, after additional post-drying at a clean place).

The fundamental suitability of the instruments for an effective automated cleaning and disinfection was demonstrated by an independent, governmentally accredited and recognized (§ 15 (5) MPG) test laboratory by application of the WD G 7835 CD, Miele & Cie. GmbH & Co., Gütersloh, (thermal disinfection) and the pre-cleaning and cleaning detergent neodisher® Mediclean Dental (Dr. Weigert GmbH & Co. KG, Hamburg) considering to the specified procedure.

Manual cleaning and disinfection (not recommended):

Pay attention to following points during selection of the cleaning and disinfection detergents:

- › fundamental suitability for the cleaning and disinfection of instruments made of metallic or plastic material
- › in case of application of an ultrasonic bath: suitability of the cleaning detergent for ultrasonic cleaning (no foam development)
- › application of a disinfectant with approved efficiency (for example VAH/DGHM or FDA/EPA approval/clearance/registration or CE marking) compatible with the used cleaning detergent
- › compatibility of the used detergents with the instruments (see chapter „material resistance,,)

Combined cleaning/disinfection detergents should not be used.

Only in case of extremely low contamination (no visible impurities) combined cleaning/disinfection could be used.

Pay attention to the instructions of the detergent manufacturers regarding concentration, temperature and soaking time as well as post-rinsing. Please use only freshly prepared solutions as well as only demineralized sterile or low contaminated water (max. 10 germs/ml) as well as low endotoxin contaminated water (max. 0.25 endotoxin units/ml), for example purified/highly purified water, and a soft, clean, and lint-free cloth and/or filtered air for drying, respectively.

Manual Procedure after Pre-treatment:

Manual Cleaning

1. Soak the instruments for the given soaking time in the cleaning solution (e.g. ID 212 forte, 2% for 5 Minutes; by the use of a ultrasonic bath) so that the instruments are sufficiently covered. Pay attention that there is no contact between the instruments. Assist cleaning by careful brushing with a soft brush (at least three times after at beginning of soaking, aids see chapter "Specific aspects").
2. Then activate ultrasonic treatment for an additional soaking time (but not less than 15 min).
3. Then, remove the instruments of the cleaning solution and post-rinse them at least three times intensively (at least 1 min) with water.
4. Check the instruments (see chapters „check,, and „maintenance,,).

Manual Disinfection

5. Soak the instruments for the given soaking time in the disinfectant solution (e.g. ID 212

- forte, 2% for 1 Minutes; by the use of a ultrasonic bath) so that the instruments are sufficiently covered. Pay attention that there is no contact between the instruments.
6. Then, remove the instruments of the disinfectant solution and post-rinse them at least five times intensively (at least 1 min) with water.
7. Dry and pack the instruments immediately after the removal (see chapter „packaging,, if necessary, after additional post-drying at a clean place).

The fundamental suitability of the instruments for an effective cleaning and disinfection was demonstrated by an independent, governmentally accredited and recognized (§ 15 (5) MPG) test laboratory by application of the pre- cleaning and cleaning detergent and the disinfectant ID 212 forte (Dürr Dental SE, Bietigheim-Bissingen) considering the specified procedure.

Check

Check all instruments after cleaning or cleaning/disinfection, respectively, on corrosion, damaged surfaces, and impurities. Do not further use damaged instruments (for limitation of the numbers of re-use cycles see chapter „reusability,,). Still dirty instruments or instruments with visible residuals (under regular light conditions) are to be cleaned and disinfected again.

Maintenance

Instrument oils or grease must not be use except for steel instruments. In that case use only instrument oils (white oil) admitted to steam sterilization considering the maximum possible sterilization temperature, with approved biocompatibility and without mono-, di, or triethanolamine as corrosion inhibitor.

Packaging

Please insert the cleaned and disinfected instru-

ments in the corresponding bur blocks (if required) and pack them in single-use sterilization packaging (single or double packaging), which fulfill the following requirements (material/process):

- › EN ISO/ANSI AAMI ISO 11607 (for USA: FDA clearance)
- › suitable for steam sterilization (temperature resistance up to at least 142 °C (288 °F), sufficient steam permeability)
- › sufficient protection of the instruments as well as of the sterilization packaging to mechanical damage

Sterilization

Please use for sterilization only the listed sterilization procedures; other sterilization procedures must not be applied.

Sterilization time (exposure time at the sterilization temperature):

- Fractionated pre-vacuum (type B)
- Sterilization temperature 134 °C
- Hold time: at least 5 minutes (full cycle)
- Drying time: at least 10 minutes

In order to prevent staining and corrosion, the steam must be free of particles. Make sure not to exceed the maximum capacity of the sterilizer when sterilizing several instruments and follow the instructions of the device manufacturers

- ¹ at least three vacuum steps
- ² The less effective gravity displacement procedure must not be used.
- ³ The effectively required drying time depends directly on parameters in sole responsibility of the user, (load configuration and density, sterilizer conditions etc.) and this to be determined by the user.
- ⁴ For the bur blocks alkaline cleaners must not applied (maximum admitted pH-value 9).

The fundamental suitability of the instruments for an effective steam sterilization was demonstrated by an independent, governmentally accredited and recognized (§ 15 (5) MPG) test laboratory by application of the steam sterilizer EHS 3870 (Tuttnauer, Breda Netherlands) and the fractionated vacuum/dynamic air removal procedure. For this, typical conditions in clinic and doctor's practice as well as the specified procedure were considered.

The flash/immediate use sterilization procedure must not be used. Do not use dry heat sterilization, radiation sterilization, formaldehyde, and ethylene oxide sterilization, as well as plasma sterilization.

Storage

Please store the instruments after sterilization in the sterilization packaging's at a dry and dust-free place.

Material resistance

Please take care that the listed substances are not ingredients of the cleaning or disinfection detergent:

- › organic, mineral, and oxidizing acids (minimum admitted pH-value 5.5)
- › strong lyes (maximum admitted pH-value 11, neutral/enzymatic or alkaline cleaner recommended)⁶
- › organic solvents (for example: acetone, ether, alcohol, benzine)
- › oxidizing agents (for example: hydrogen peroxide)
- › halogens (chlorine, iodine, bromine)
- › aromatic, halogenated hydrocarbons

Please do not clean any instruments and bur blocks by use of metal brushes or steel wool.

Please do not expose any instruments and bur blocks to temperatures higher than 142 °C (288 °F)!

Please do not apply acidic neutralizing agents or cleaning aids.

Reusability

The instruments can be reused – in case of adequate care and if they are undamaged and clean as indicated in chapter "Specific aspects". The user is responsible for each further use as well as for the use of damaged and dirty instruments (no liability in case of disregard).

Attachment A: Specific aspects

Diamond products and ceramic grinding tools:

- › Use particular care during the cleaning of the grinding surfaces and ensure that all residues are removed. Repeat procedure, if visible residuals are given

Bur blocks/instrument trays:

- › Cleaning and disinfecting only without products being loaded (products must not be cleaned and disinfected whilst they are in the bur block/ instrument tray)



DE

Das Dokument in der jeweils aktuellsten und gültigen Version sowie in anderen Sprachen finden Sie auf unserer Webseite **www.JOTA.dental**.

EN

The document in other languages as well as the latest and applicable version you find on the website **www.JOTA.dental**.

FR

Vous trouverez les documents dans d'autres langues ainsi que la dernière version sur notre site **www.JOTA.dental**.

ES

Documentos en otras idiomas, así como también la versión más reciente encontrase en nuestra página web **www.JOTA.dental**.

Instrument group	brush	specific/additional procedure in case of				packing	sterilization	maximum admitted cycle number (confirmed by validation, but dependent on specific application)	recommended classification according to KRINKO/RKI/ BfArM guidance (only German, with respect to intended use)
		pretreatment	manual cleaning/ disinfection	automated cleaning/ disinfection	maintenance				
stainless steel instruments	standard	standard	standard	standard	lubrication <u>not</u> admitted	standard	standard	10	critical B
regular steel instruments	standard	standard	standard	standard	lubrication <u>recommended</u>	standard	standard	10	critical B
silicone polisher	standard	standard	standard	standard	lubrication <u>not</u> admitted	standard	standard	5	critical B
endodontic instruments without stopper	endodontic brush	standard	standard	standard	lubrication <u>not</u> admitted	use of bur blocks not admitted	use of bur blocks not admitted	10	critical B
endodontic instruments with stopper	endodontic brush	mounted	mounted move the stopper at least three times during disinfection	mounted	lubrication <u>not</u> admitted	use of bur blocks not admitted	use of bur blocks not admitted	10	critical B
all other instruments	standard	standard	standard	standard	lubrication <u>not</u> admitted	standard	standard	10	critical B

General application and safety instructions for the medical device from JOTA AG

Issued: January 2017

- JOTA AG products (dental, maxillary surgery, general surgery,) must only be used by dentists, doctors and/or the respective experts who, due to their training and experience, are intensely familiar with the use of these products and who have the corresponding expertise in the respective specialist fields. The use of surgical products requires relevant expertise and experience in dental implantology, maxillary surgery and/or other surgical fields including diagnosis, preoperative planning and surgical techniques.
- It is the sole responsibility of the doctor in charge who, depending on the respective situation (indication), decides on the actual use of the JOTA AG products for each individual case

- All JOTA AG products have been developed for specific applications. Therefore, inappropriate use can result in the premature wear and tear of the products and put patients and users at risk.

Application

- In order to avoid damaging the instruments, they must be removed from the blister pack by pulling off the back-sheet.
- It is essential to only use turbines as well as hand and angle pieces that are technically and hygienically faultless, maintained and cleaned.
- The instruments must be rotating when applied on material. They should not be placed on material and then brought to rotation.
- Rotating instruments need to be clamped as far down as possible with their speed set before applying them on the object. are used

- with the rotary instruments.
- Using the instruments for canting or leveraging should be avoided as it increases the risk of breakage.
- Depending on the application, it is recommended to use protective goggles while using the instruments. Users of diamond disks should use a disk protection device.
- Inappropriate use of the products leads to badly executed work and increased risk.
- When working with dry materials, it is recommended to use a suction cleaning device.
- In particular, users of hand tools should take care to use them gently and with consideration.
- The user must at all times avoid touching the instruments and parts without protection (protective gloves should be worn).
- Thermal bone damage caused by rotating and oscillating tools (e.g. pilot bur, conical bur, expansion bur) must at all times be avoided

(user training, working at low speed and with sufficient cooling).

- › During intraoral application attention has to be made to the fact that the products are protected against aspiration or falling on the floor.

Use of pressure

- › Users of the instruments should at all times avoid applying excessive pressure. This can damage the working part of the instruments and cause the cutting edges to break off. At the same time, it generates excessive heat.
- › The use of excessive pressure when using grinding tools can cause the abrasive particles to break off or the instrument to become clogged and lead to heat generation.
- › During polishing, excess pressure can lead to heat generation.
- › Due to overheating, excess pressure can damage the dental pulp or, due to broken off cutting edges, it can result in undesired rough surfaces. In such cases, even instrument breakage cannot be excluded.

Cooling

- › In order to avoid excessive heat generation during preparation, a sterile water/sodium chloride solution supplied via a permanent external feeding device should be used to ensure sufficient cooling during use of the instruments.
- › When using FG instruments that are more than 22 mm long or whose head diameter exceeds 2 mm, additional external cooling is required.
- › Insufficient cooling will lead to irreversible damage to the bone and/or the adjacent tissue.

Storage, disinfection, cleaning and sterilization

- › Unless there is explicit information to the contrary, all JOTA AG products are supplied in non-sterile packaging and, depending on the application, they need to be sterilised prior to use. Prior to their first use on the patient and

immediately after each use, all products need to be disinfected and sterilised. Inappropriate cleaning and sterilising of the instruments can result in the patient being infected with harmful bacteria.

- › You will find detailed instructions for the disinfecting, cleaning and sterilising of products in the Instructions for the processing of instruments produced by JOTA AG on the previous page. We would also be happy to provide you with these instructions at your request. They are also available on the internet at www.JOTA.dental.
- › The products should be stored in appropriate, hygienically maintained containers. The same applies to sterilised instruments. The stored products must be protected from dust, humidity and recontamination. Instructions as to maximum storage duration must be adhered to.

Speed recommendations for rotary instruments

- › Following the instrument-specific speed recommendations produces the best results.
- › Exceeding the maximum admissible speed (rpm) when using long and pointed instruments tends to produce vibrations that can lead to the destruction of the instrument.
- › When using working parts with diameters exceeding the thickness of the shaft, excessive speed can release great centrifugal forces that may cause the shaft to bend and/or the instrument to break. Therefore, the maximum admissible rpm must never be exceeded.
- › Please consult the manufacturer's information (see catalogue or www.JOTA.ch) for the recommended and the maximum admissible speed ranges. Non-compliance with the maximum admissible speed puts safety at risk.
- › Generally, the following rules apply:
 - The larger the working part of an instrument the lower the speed

- Surgical instruments: suitable for geared down micro-motor hand and angle pieces 10:1 with stable ball bearings. Speed 600 to 800 rpm with physical and, possibly, sterile external cooling or internal cooling when using the respective hand piece.

Discarding worn instruments and parts

- › JOTA AG products can principally be reused several times – unless specifically indicated and labelled otherwise. Rotating instruments are subject to wear. The option of and accountability for multiple use of a product and the frequency of application is solely the decision and own responsibility of the treating clinician based on the application in each case and the possible wear of the products. If in doubt, the products should always be sorted out early and replaced.
- › Broken off cutting edges of instruments cause vibrations and great forces of pressure, which, in turn, leads to broken preparation corners and rough surfaces.
- › Bare patches on diamond instruments indicate a lack of abrasive particles and can be a sign of blunt instruments. This leads to excessive temperatures during instrument use.
- › Instruments that are bent and/or do not run true should be discarded forthwith.
- › With the reuse of disposable products the risk of infection cannot be excluded and a risk-free functional safety cannot be guaranteed.

Additional instructions regarding the use of trepans

- › When using trepans, you have to proceed with particular care. For example, it is advisable not to exceed the recommended rpm speed ranges.
- › In order to prepare for the actual use of a trepan, it should be set to produce counter-clockwise rotations creating a groove in the bone. Afterwards the trepan can be inserted into this groove and, using clockwise rotations, it can be moved further down.

- Carrying out a prior X-Ray is essential to establish the maximum possible drilling depth and to maintain the necessary distance, for example, to the mandibular nerve. As an additional safety measure to spare the nerve, the axial direction of the trepan countersink attachment, based on the sagittal level of the ascending branch, must be milled laterally at an angle of approx. 15-20°.



Further comments:

- Due to statutory regulations, returned goods can, on principle, only be accepted if the complete batch number is provided. This number can be found on the product packaging.

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YOUR NOTES:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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