

## TECHNICAL DATA

Product:	BRAVIA®XL SE	BRAVIA®XL	BRAVIA®L	MICRA®L	THALIA®
Reference:	REF 163.02	REF 162.02.01	REF 162.02	REF 194.02	REF 186.30/186.40
Connection:	KaVo MULTiflex® compatible	KaVo MULTiflex® compatible*	KaVo MULTiflex® compatible*	KaVo MULTiflex® compatible	3-vie/4-vie
Rotation speed:	365000 rpm	365000 rpm	365000 rpm	390000 rpm	365000 rpm
Air pressure:	2.8 ± 0.2 bar	2.8 ± 0.2 bar	2.8 ± 0.2 bar	2.8 ± 0.2 bar	2.6 ± 0.2 bar
Max air consumption:	55 NI/min	53 NI/min	53 NI/min	53 NI/min	55 NI/min
Spray port:	4 - jet	4 - jet	3 - jet	1 - jet	1 - jet
Bur FG:	with Ø1.6 mm shank (Type3) according to ISO 1797-1, and maximum length of 25 mm (Code 4, 5, 6) according to ISO 6360-1	with Ø1.6 mm shank (Type3) according to ISO 1797-1, and maximum length of 25 mm (Code 4, 5, 6) according to ISO 6360-1	with Ø1.6 mm shank (Type3) according to ISO 1797-1, and maximum length of 21 mm (Code 4, 5, 6) according to ISO 6360-1	with Ø1.6 mm shank (Type3) according to ISO 1797-1, and maximum length of 21 mm (Code 4, 5) according to ISO 6360-1	with Ø1.6 mm shank (Type3) according to ISO 1797-1, and maximum length of 25 mm (Code 4, 5, 6) according to ISO 6360-1
Head diameter:	ø 12.6 mm	ø 12.6 mm	ø 12.6 mm	ø 10.3 mm	ø 12.6 mm
Maximum power:	27 W	22 W	22 W	17 W	23 W
Lubrication:	by LubriONCE® grease or SO2000 service oil	by LubriONCE® grease or SO2000 service oil	by LubriONCE® grease or SO2000 service oil	by LubriONCE® grease or SO2000 service oil	by SO2000 service oil
Sterilization:	by autoclave up to 134°C/2 bar	by autoclave up to 134°C/2 bar	by autoclave up to 134°C/2 bar	by autoclave up to 134°C/2 bar	by autoclave up to 134°C/2 bar
Thermoisinfection:	yes	yes	yes	yes	yes
Maximum noise level:	58 dBA	58 dBA	60 dBA	62 dBA	66 dBA
Weight:	39 g.	39 g.	45 g.	44 g.	52 g.
Standard conformity:	EN ISO 14457, CEI EN 60601-1, ISO 9168, Directive Européenne 93/42/CEE (Classe IIa) e 2007/47/CE.				
Guarantee:	2 years	2 years	1 year	1 year	1 year

Product:	GYROFLEX®	GYROFLEX®LED
Reference:	REF 316.30/ 316.40	REF 316.62/ 316.62.09
Light source:	-	High-brightness white LED
Power supply:	-	3.5 ± 0.2 Vdc
Output illumination:	-	> 25.000 lux
Standard conformity:	CEI EN 60601-1, ISO 9168	CEI EN 60601-1, ISO 9168
Guarantee:	1 year	1 year

Product:	BRAVIA®XLN	BRAVIA®LN	BRAVIA®XLS	BRAVIA®LS
Reference:	REF 162.04.01	REF 162.04	REF 162.06.01	REF 162.06
Connection:	NSK PTL-CL - compatible	NSK PTL-CL - compatible	Sirona R/F - compatible	Sirona R/F - compatible

Product:	BRAVIA®XLB	BRAVIA®LB
Reference:	REF 162.08.01	REF 162.08
Connection:	Bien-Air Unifix® - compatible	Bien-Air Unifix® - compatible



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# SENIOR TURBINE

Graphic: simonemattucco.it

TURBINE/Cat.105UK/2024

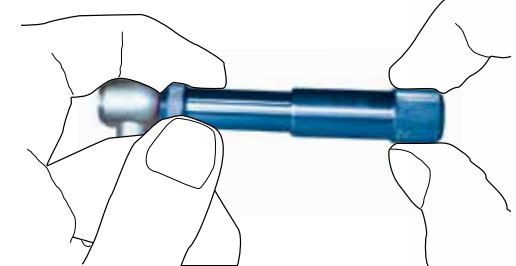
- BRAVIA®XL
- BRAVIA®L
- MICRA®L
- THALIA®
- GYROFLEX®LED

## BRAVIA®XL

Special version with improved dynamics

Manufactured from high-quality materials, the improved high-speed ball-bearing BRAVIA®XL turbine with elegant and ergonomic styling provides the perfect answer for the most discerning professional. Compactness, increased power, highly-efficient illumination, reduced noise level and light weight are but a few of the various features offered by this new turbine. The use of special integral-structure high-precision ceramic ball bearings, together with a perfectly balanced rotor, makes the turbine with superior quietness and reliability.

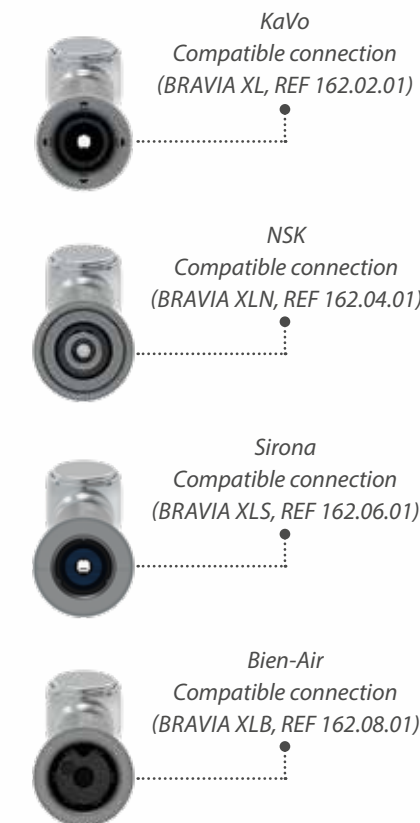
Every BRAVIA L / XL / LB / XLB and MICRA L turbine is delivered with a **LubriONCE®** grease lubricator.



The special LubriONCE® lubrication system provides the best way to ensure optimal turbine performance, ease of application and low-cost maintenance. The special formulation of the grease, which is resistant to the high temperature of sterilization, allows the turbine to be lubricated just ONCE a day. The used medical grease is hygienically safe and does not soil. Optionally, turbines can also be lubricated with oil.



Versions available



## BRAVIA®XL special edition

With selected high-performance components

On occasion of its 50th anniversary, TKD presents this special high-speed high-performance turbine which is the result of many years of know-how and passion for micromechanics.

HIGHER POWER: The improved drive air nozzle geometry and the use of a re-designed impeller now produce a tangible higher power level: **27 W**.

TITANIUM BODY: The main part of the handpiece is made in solid titanium with a non-slip surface; light, strong and absolutely biocompatible.

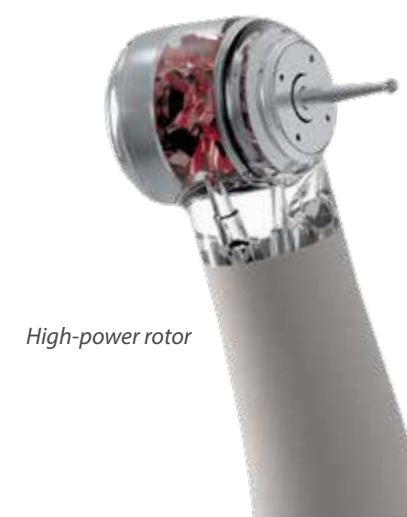
ADVANCED SPINDLE: The new wear-resistant spindle with advanced clamp-pad technology, avoids bur eccentricity and ensures a safe and long-lasting bur retention; only the perfectly-balanced rotors are used on this turbine.

SUPERIOR CERAMIC BEARINGS: Only the very best high-performance ceramic ball bearings are used on this turbine; reliability and stability are pushed to the highest levels.

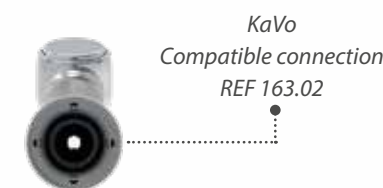
MULTI-JET SPRAY: Four spray ports allows the most ideal cooling effect on the entire operation area.

CELLULAR OPTIC SYSTEM: The used cellular glass optic system allows a highly-efficient LED illumination of the operation area.

DOUBLE LUBRICATION SYSTEM: Even this turbine can get the advantage of the double lubrication possibility, i.e. by means of ordinary handpiece lubricating oil or by means of the special LubriONCE® lubricator.



Version available





## BRAVIA® L

Compact smart look

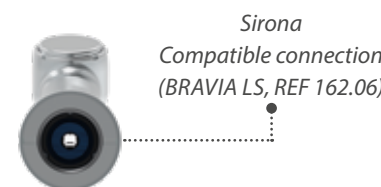
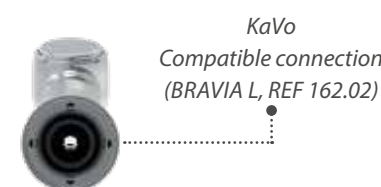
Robust high-speed turbine with improved power, ceramic ball-bearings, triple spray, easy-to-clean ergonomic surface and long-life LED illumination.

All turbines are equipped with a high-precision spindle which ensures high concentricity, and a highly-efficient fiberoptics solid rod which can withstand repeated autoclave cycles without any deterioration.

Turbines can be used together with the GYROFLEX®LED rapid couplings (MULTiflex®-compatible) which also provides for turbine illumination.

Other types of connection are also available.

Versions available



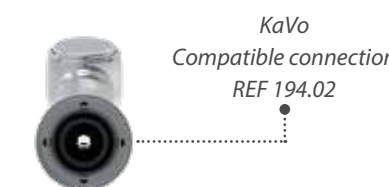
## MICRA® L

Small and precise

Precise ceramic ball-bearing turbines with small-size head and single spray. Designed to facilitate access to the most hidden places, they are the logical subsidiary instruments to the normal-size turbines.

Turbine can be used together with the GYROFLEX®LED rapid coupling (MULTiflex®-compatible) which also provides for turbine illumination.

Version available



Head diameter: ø10,3 mm



## THALIA®

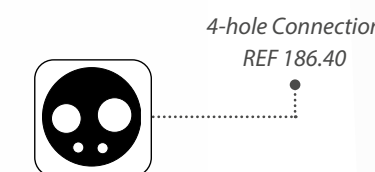
Simple yet powerful

Economical turbine with single spray and fixed connection.

Designed for tough, daily use, turbine is light-weight, easy to clean and features extremely high torque.

Lubrication by means of the SO2000 service oil or any other lubrication oil for dental handpieces.

Turbine is also equipped with a non-return valve for spray water and is available with 3-hole or 4-hole standard connection.



Universal Service Oil for dental  
Turbines and Handpieces



## GYROFLEX®LED

No more bulbs

The GYROFLEX®LED rapid coupling with integrated LED provides for turbine illumination and is available with or without nut for cooling spray adjustment.

Once coupled to the GYROFLEX®LED rapid coupling, any dental turbine with fiber-optics and MULTiflex® connection can immediately get advantage of the LED technology which, allows natural daylight quality illumination of the operating area and produces a superior uniform light pattern.

Lastly, rapid coupling is equipped with a non-return valve for spray water.



The rapid connection, together with the GYROFLEX®LED rapid coupling, allows the instrument to turn freely and smoothly throughout 360 degrees.



GYROFLEX®  
REF 316.30  
3-hole Connection  
MULTiflex® compatible



GYROFLEX®  
REF 316.40  
4-hole Connection  
MULTiflex® compatible



GYROFLEX®LED  
REF 316.62  
6-pin connection with integrated LED  
MULTiflex® compatible



GYROFLEX®LED  
REF 316.62.09  
6-pin connection with integrated LED  
and cooling spray adjustment nut  
MULTiflex® compatible