

Feature Benefit sheet

MASTERtorque Mini M8700



| KaVo Master Series | | Main sales arguments: | | | Important technical data and connectors: | | Additional features: | | Tried and tested KaVo quality features: | | Application areas | | | | | | |
|--|--|--|--|--|--|--|--|--|--|---|---|--|---|------------------------------|---------------------|------------------|--|
| <ul style="list-style-type: none"> - Best treatment quality - Maximum treatment comfort - Highest patient satisfaction <p>And of course proven KaVo Quality</p> | | <ol style="list-style-type: none"> 1. Direct Stop technology (DST) - bur stop in 1 sec. <ul style="list-style-type: none"> - SAFETY and relaxed working. - ZERO BACK SUCTION hygienic, and increases service life 2. More Power - up to 19 watts (2,8 bar) 3. Noise reduction while stopping, quiet during treatment up to 59 dB(A) 4. Better view and focused light <p>AND: Plasmatec surface and waterfilter, cuck retention</p> | | | <ul style="list-style-type: none"> • Power: up to 19 W • Noise during treatment: up to 59db(A) • Bur stop in 1 second • Head height: 12,1 mm • Head diameter: 10,8 mm • Bur cooling: 3 spray nozzles • Weight: 63 g (max 57 g für LS) • Sight angel reduced to: 22° | | <ul style="list-style-type: none"> - Plasmatec coating - Water filter easily replaceable by dentist - Pressure range 2.1 - 3.5 bar - 100° / 19° Angle combination - Connectors: KaVo Multiflex coupling and Sirona Click & Go - Kids version for market launch | | <ul style="list-style-type: none"> Bur retention force up to 32 N Tungsten carbide guide bush Original KaVo ceramic bearings Made in Germany 24 months warranty | | <ul style="list-style-type: none"> • Crown stump preparation • All work on enamel • Removal of old fillings • Crown separation • Preparatory work for molar extraction • Bridge transection • All preparatory work for endodontics | | | | | | |
| USP | Prio | Benefit category | Request/ problem | Part / Technical description | Product property Explanation of the function | Benefits/ added value What's the point? | Proof | Comparison with the competition | | | | | | | | | |
| | | | | | | | | Morita 4H Par 4HUEX-O KV | W & H TK 97 LM Synea Vision | Sirona T1 mini | NSK Z-Max Z800KL | | | | | | |
| Main selling points | | | | | | | | | | | | | | | | | |
| 1. Direct Stop technology | 1 | Safety | Dental bur stops immediately after being switched off | "Direct Stop technology" braking system brakes both rotor and bur: | DST (Direct Stop Technology) => short bur stop time; active braking system stops the bur within 1 second (0,6 sec.). Stops nearly as fast as a speed-increasing handpiece. | <ul style="list-style-type: none"> • Reduced danger of injuries for the patient - when the patient jerks and the dental bur e.g. touches soft tissue. - Effective, short stop times - you can immediately carry on with the job - Safety helps working in a relaxed atmosphere | Measured stopping times Stop test Emotional: Animation/functional model/video (brake + back suction model - from 720 km/h to 0 in 1 sec.) | Morita quickstop system. Stops within 2 sec. | measured 1.5 sec. | measured 2 - 3 sec. | measured 1,72 sec. | | | | | | |
| | | Hygiene + safety | No suck-back of aerosol | | DST (Direct Stop Technology) => Short stop time reduces the vacuum created by the turbine wheel => aerosols are no longer sucked into the rotor housing gap at the head. => Optimised design of the turbine cartridge and the head housing to reduce the vacuum. => No aerosols are sucked into the instrument during bur stop and sealing disc. | | | | | | | <ul style="list-style-type: none"> • During bur stop, no aerosols are sucked into the instrument => Reduces cross contamination => hygienic safety for dentist and patient | 1. Comparative measurement of vacuum curves, KaVo vacuum not measurable, < 0.000001 bar 2. Test with device | ASBD System = Zero Suck back | no statement | PHS System | clean head system, gets contaminated => cleaning after each patient |
| | | Service life | Long service life - clean ball bearings | | Anti-retraction valve/sealing disc keeps bearing clean, no contaminant particles in the ball bearing path=> distinct increase of the service life of the ball bearings | | | | | | | 1. Comparative measurement of vacuum curves 2. Test with device 3. Show movie of suck back | 0 bar | 3,3 mbar | 0,95 mbar | 12,3 mbar | |
| 2. POWER | 2 | Efficiency | Low torque | KaVo rotor geometry of the newest generation, air supply and exhaust channel, inflow behavior improved to increase the efficiency of the turbine wheel | 19 W at 2,8 bar (recommended) up to 26,5 W possible at 3.5 bar | <ul style="list-style-type: none"> • Faster preparation • More power and stabler speed during operation | 1. Test - mill in stone or zirkonium 2. Internal measurement with a setting | 20 W printed 18 W measured | 18 W | up to 20 printed (2,7-3,0 bar) old: 2,7 bar, new: 2,7-3,0 bar 19 W measured | (23 W at NSK-coupler) 21 W at KaVo coupler printed 18,2 W at KaVo coupler | | | | | | |
| 3. Silence - noise design | 3 | Treatment quality | Noise level during treatment | Cartridge design, inflow design, quality of the turbine cartridge, gripping mechanism | <ul style="list-style-type: none"> • Noise during treatment: up to 59 dB(A) • No annoying stopping noise | <ul style="list-style-type: none"> • Extremely quiet turbine • Gentle on the practice team's health • Pleasant sound for the patient • Distinctly less stress • Danger of finnilus averted | Turbine comparative hearing test | 66,8 dB | 62 dB | 64 dB | 63,3 dB | | | | | | |
| 4. VISIBILITY & LIGHT | 4 | Treatment quality | Viewing problem / limited access in molar area | Head height | <ul style="list-style-type: none"> • Head height: 12,1mm • Head height 17,7mm with 16mm mini-bur • Head diameter: 10,8 mm | <ul style="list-style-type: none"> • Better view of the preparation area • better access to molar regions, suitable for children and elderly men • More free space for all treatment situations | Measurements | height 12,7 mm , diameter 9 mm | height 13,1 mm , diameter 10,05 mm | height 12,8 mm , diameter 10,3 mm | height 12,1 mm, diameter 10,8 mm | | | | | | |
| | | Treatment quality | Viewing problem / limited access in molar area | Head height with burs | Allows the following bur length: Miniature - 16mm Standard - 19mm Long - 21mm | <ul style="list-style-type: none"> • Better view of the preparation area • better access to molar regions, suitable for children and elderly men • More free space for all treatment situations | Show height with short and long bur | burs up to 21 mm Shaft min. 10mm => Standard and Long | only 21 mm burs allowed | burs up to 21 mm Mini, Standard and Long | burs up to 21 mm Shaft min. 10mm => Standard and Long | | | | | | |
| | | Treatment quality | Difficult access | Combination of angles | Patented KaVo 100°/19° head/elbow angle combination | <ul style="list-style-type: none"> • Molar area always easy to view and to access • Optimum freedom of movement -> Improved treatment conditions | Measurements | No, 15° | No | No | No | | | | | | |
| | | Treatment quality | Difficult access | New head shape | <ul style="list-style-type: none"> • Improved viewing angle (22°) - Smaller head - Head angles towards the bur | <ul style="list-style-type: none"> • Improved view - Larger field of vision | Measurements | 16,75° | 21,86° | 23° | 21,35° | | | | | | |
| | | Treatment quality | Dazzling by atomized spray | Light and spray - direction of emission | Offset light and spray outlet | <ul style="list-style-type: none"> • No dazzling (no "high beam" on atomised spray) - Optimum view for precise preparations -> Safe detection of preparation margins | 1st image Head spray/light outlet Comparison: driving a car in foggy conditions | | | | | | | | | | |
| | | Treatment quality | Insufficient light at the preparation site | | <ul style="list-style-type: none"> • 25,000 LUX light power at drill bit • KaVo glass rod light optical fibre LUX | <ul style="list-style-type: none"> • Best view for precise preparations -> Safe detection of preparation margins | Measurements at the same distance | 25.000 lux | 25.000 lux | 25.000 lux | no statement | | | | | | |
| Quality | Decrease in luminance by thermo-disinfection/sterilisation | Glass rod | <ul style="list-style-type: none"> • 25,000 LUX light power at drill bit • KaVo glass rod light optical fibre LUX | <ul style="list-style-type: none"> • Thermoisinfectable • Sterilisable • No light loss • Hard, no scratches | | glass rod | penta LED for W & H couplings no hard surface | glass rod | glass rod | | | | | | | | |
| Further Points | | | | | | | | | | | | | | | | | |
| 5. Surface coating | 5 | Quality | Service life of the dental instruments and traces of wear | Plasmatec | <ul style="list-style-type: none"> • Plasmatec coating • KaVo hygienic sealing | <ul style="list-style-type: none"> • High wear resistance -> Well cared-for dental instruments -> Good-looking dental instruments | Test the grip. Hold it and dentist should try to remove Compare with competitors | ceramic coating | special coating which offers a scratch resistant surface | titanium housing | DURAgrip coating on titanium body, similar resistance to plasmatec | | | | | | |
| | | Safety | Time-consuming manual removal of contaminants from the knurl. Time required. Unpopular job | Plasmatec | <ul style="list-style-type: none"> • Plasmatec coating • KaVo hygienic sealing | <ul style="list-style-type: none"> • High hygienic safety • Quick cleaning success | more surface structure = not so easy to clean | more surface structure = not so easy to clean | Titanium is bio-compatible, good for bacteria | DURAgrip coating on titanium body, similar resistance to plasmatec | | | | | | | |
| 6. Warranty | 7 | Quality | Long service life and investment security | 2 years warranty | 2 years warranty | Investment security | | 2 years warranty | 2 years warranty | 2 years warranty (only CA have 3) | not defined | | | | | | |
| 7. Bur guide | 8 | Quality | Perfect bur guide | Hard metal guide bushing | Hard metal guide bushing | Perfect concentricity of the dental bur | Quiet turbine thanks to excellent concentricity Show the darker part | | | | | | | | | | |
| 8. Microfilter | 9 | Safety | Poor spray quality due to contamination in the spray channel | Microfilter | • Spray microfilter | <ul style="list-style-type: none"> • Constant cooling -> Best protection of the tooth against thermal damage | 1. Mounting situation in drawing | No | No | No | exchangeable only by technician | | | | | | |
| | | Easy to handle | Time-consuming removal of contaminants from the spray channel | Microfilter | • Spray microfilter easily replaceable | <ul style="list-style-type: none"> • Instrument quickly ready for use • Low susceptibility to time-consuming maintenance work | Demonstrate filter exchange Video of the filter exchange | No | No | No | exchangeable only by technician | | | | | | |
| 9. Surface | 11 | Treatment comfort | Rough surfaces result in painful pressure points, smooth surfaces cause undue muscle fatigue (high effort) | Plasmatec | • Plasmatec coating | <ul style="list-style-type: none"> • Relaxed treatment • More "sensitivity" in the fingers • No more re-gripping required -> No pressure points on the hands -> No fatigue from long-term treatment -> Safe handling | Visual and tactile test | less grip | less grip | very smooth titanium surface | good grip at the beginning, loss of grip | | | | | | |