

# Identification

Recommendation for efficient use



**Tungsten carbide**

| Colour coding of |             |              | Remark                                 | Application                   | optimal speed $\omega_{opt}$<br>rpm | Examples |
|------------------|-------------|--------------|--|-------------------------------|-------------------------------------|----------|
| Shank            | Colour ring | Working part |  |                               |                                     |          |
|                  |             |              | high-efficiency staggered toothing     | excavating                    | 1.500                               | H1SE     |
|                  |             |              | high-efficiency toothing               | excavating                    | 1.500                               | H1S      |
|                  |             |              | ceramics/metal                         | crown cutting                 | 160.000                             | H4MC/L   |
|                  |             |              | metal                                  | crown cutting                 | 160.000                             | H34      |
|                  |             |              | metal                                  | crown cutting                 | 160.000                             | H35L     |
|                  |             |              | metal                                  | crown cutting                 | 160.000                             | H40      |
|                  |             |              | coarse toothing with cross-cut         | working on titanium abutments | 160.000                             | H856G    |
|                  |             |              | finishing instruments (medium)         | finishing                     | 20.000                              | H132     |
|                  |             |              | finishing instruments (fine)           | finishing                     | 20.000                              | H132F    |
|                  |             |              | finishing instruments (ultra fine)     | finishing                     | 20.000                              | H132UF   |
|                  |             |              | Q finishing instruments with cross-cut | finishing                     | 20.000                              | H134Q    |
|                  |             |              | surgery                                | apical ectomy, etc.           | 80.000                              | H254E/LE |
|                  |             |              | adhesive removers                      | orthodontics                  | 40.000                              | H23RA    |
|                  |             |              | adhesive removers                      | orthodontics                  | 40.000                              | H22AGK   |
|                  |             |              | adhesive removers                      | removing old fillings         | 160.000                             | H32      |
|                  |             |              | cutters                                | temporary appliances          | 15.000                              | H257GSQ  |

**Diamond**

| Colour coding of |             |              | Remark   | Application  | optimal speed $\omega_{opt}$<br>rpm | Examples |
|------------------|-------------|--------------|--|--|-------------------------------------|----------|
| Shank            | Colour ring | Working part |  |  |                                     |          |
|                  |             |              | finishing (ultra fine)                             | finishing  | 20.000                              | 801UF    |
|                  |             |              | finishing (extra fine)                             | finishing  | 20.000                              | 801EF    |
|                  |             |              | finishing (fine)                                   | finishing  | 20.000                              | 8801     |
|                  |             |              | diamond preparation instruments (medium)           | preparation  | 160.000 - 300.000                   | 801      |
|                  |             |              | diamond preparation instruments (coarse)           | preparation  | 160.000 - 300.000                   | 6801     |
|                  |             |              | diamond preparation instruments (super coarse)     | preparation  | 160.000 - 300.000                   | 5801     |
|                  |             |              | All-ceramic restorations                           | separating crowns  | 160.000                             | 4ZR      |
|                  |             |              | diamond prep. instr. with special coating (fine)   | working on all-ceramic restorations (e.g. ZrO <sub>2</sub> ) | 20.000                              | ZR8881   |
|                  |             |              | diamond prep. instr. with special coating (medium) | working on all-ceramic restorations (e.g. ZrO <sub>2</sub> ) | 160.000                             | ZR862    |
|                  |             |              | diamond prep. instr. with special coating (coarse) | working on all-ceramic restorations (e.g. ZrO <sub>2</sub> ) | 160.000                             | ZR6801   |
|                  |             |              | very efficient (structured blank)                  | preparation  | 160.000                             | S6801    |
|                  |             |              | composite remover                                  | removing old fillings  | 160.000                             | 5985     |

**Polishers**

| Colour coding of |             |              | Remark  | Application                            | optimal speed $\omega_{opt}$<br>rpm | Examples |
|------------------|-------------|--------------|---|--|-------------------------------------|----------|
| Shank            | Colour ring | Working part |   |  |                                     |          |
|                  |             |              | universal polishers (used without paste)                        | universal                              | 6.000                               | 9553     |
|                  |             |              | universal polishers (used with paste)                           | prophylaxis                            | 1.500                               | 9631     |
|                  |             |              | standard polishers (used with paste)                            | prophylaxis                            | 1.500                               | 9672     |
|                  |             |              | standard polishers, hard (used with paste)                      | prophylaxis                            | 1.500                               | 9672H    |
|                  |             |              | standard polishers, soft (used with paste)                      | prophylaxis                            | 1.500                               | 94014F   |
|                  |             |              | with integrated diamond particles, initial polishing, 2-step    | composite polishers                    | 6.000                               | 94023M   |
|                  |             |              | with integrated diamond particles, high-shine polishing, 2-step | composite polishers                    | 6.000                               | 94023F   |
|                  |             |              | with integrated diamond particles, high-shine polishing, 1-step | composite polishers                    | 6.000                               | 9523UF   |
|                  |             |              | with integrated diamond particles, initial polishing, 3-step    | composite polishers                    | 6.000                               | 9436C    |
|                  |             |              | with integrated diamond particles, polishing, 3-step            | composite polishers                    | 6.000                               | 9436M    |
|                  |             |              | with integrated diamond particles, high-shine polishing, 3-step | composite polishers                    | 6.000                               | 9436F    |
|                  |             |              | with integrated diamond particles, initial polishing, 2-step    | polishers for all-ceramic restorations | 6.000                               | 94020C   |
|                  |             |              | with integrated diamond particles, high-shine polishing, 2-step | polishers for all-ceramic restorations | 6.000                               | 94020F   |
|                  |             |              | with integrated diamond particles, initial polishing, 3-step    | ceramic polishers                      | 6.000                               | 94006C   |
|                  |             |              | with integrated diamond particles, polishing, 3-step            | ceramic polishers                      | 6.000                               | 94006M   |
|                  |             |              | with integrated diamond particles, high-shine polishing, 3-step | ceramic polishers                      | 6.000                               | 94006F   |
|                  |             |              | high-performance polishers, polishing, 2-step                   | metals                                 | 6.000                               | 9608     |
|                  |             |              | high-performance polishers, high-shine polishing, 2-step        | metals                                 | 6.000                               | 9618     |
|                  |             |              | Polishers for acrylics, initial polishing, 3-step               | denture acrylics                       | 6.000                               | 9432     |
|                  |             |              | Polishers for acrylics, polishing, 3-step                       | denture acrylics                       | 6.000                               | 9424     |
|                  |             |              | Polishers for acrylics, high-shine polishing, 3-step            | denture acrylics                       | 6.000                               | 9433     |

Note: This overview serves as a basic orientation guide. The individual recommendations on the packages have to be strictly observed.

# Recommended speed

for optimum results

| Field of application  | Work step                     | Instrument   | optimal speed $\odot_{opt}$<br>rpm |
|---|-------------------------------|--|------------------------------------|
| <b>Prophylaxis</b><br>                         | polishing                     | Polishers with integrated diamond particles: Used without paste  | <b>6.000</b>                       |
|   |                               | Polishers without integrated abrasive particles: Used with paste | <b>1.500</b>                       |
| <b>Preparation of cavities</b><br>             | opening cavities              | diamond instrument   | <b>160.000</b>                     |
|   | excavating                    | TC/ceramic instrument  | <b>1.500</b>                       |
|   |                               | polymer instrument   | <b>2.000</b>                       |
|   | finishing (amalgam)           | TC instrument  | <b>20.000</b>                      |
|   | finishing (composite)         | TC/diamond instrument  | <b>20.000</b>                      |
|   | removing of:                  |  |                                    |
|   | - amalgam fillings            | TC instrument  | <b>160.000</b>                     |
| - composite fillings  | diamond instrument            | <b>160.000</b>   |                                    |
| polishing   | polishers                     | <b>6.000</b>   |                                    |
| <b>Crown preparation</b><br>                  | preparation of the crown core | diamond instrument   | <b>160.000</b>                     |
|   | finishing the crown core      | TC/diamond instrument  | <b>20.000</b>                      |
| <b>Mechanical root canal preparation</b><br> | root canal preparation        | nickel-titanium instrument                                       | <b>250 - 500</b>                   |
| <b>Pins/Posts</b><br>                        | pilot drilling                | steel instrument   | <b>1.000 - 5.000</b>               |
|   | reaming                       | steel instrument   | <b>1.000 - 2.000</b>               |
|   | roughening                    | diamond instrument   | manually                           |
| <b>Surgery</b><br>                           | work on bone                  | TC instrument  | <b>20.000</b>                      |
|   |                               | ceramic instrument   | <b>5.000</b>                       |
|   | pilot drilling                | trepan bur   | <b>1.000</b>                       |
|   |                               | ceramic instrument   | <b>1.000</b>                       |

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