

HAIMER®
Quality Wins.



M A S T E R C A T A L O G

HAIMER®

GRINDING WHEEL ADAPTERS

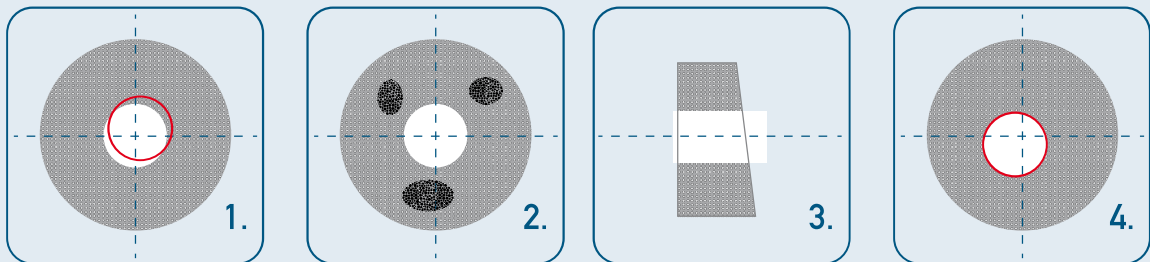
WHY BALANCE GRINDING WHEELS?

Why balance grinding wheels?

Dressing ≠ Balancing

Balancing of grinding wheels is essential no matter if you dress them or not!

Causes of unbalance on a grinding wheel:



1. Tolerance of the grinding wheel bore
2. Uniformity of the grinding wheel
3. Parallelism of the grinding wheel
4. Concentricity of the grinding wheel

- Tolerance of the grinding wheel arbor
- Dressing of the grinding wheel
- Wear of the grinding wheel
- Profiling of the grinding wheel

Consequences of unbalance

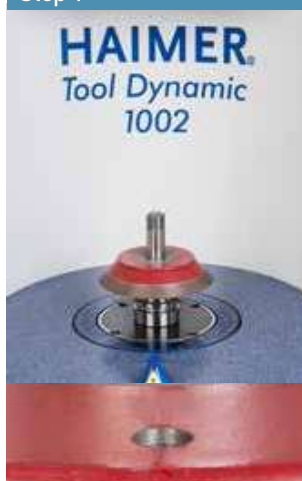
1. Reduced surface quality → Chatter marks
2. Reduced dimensional accuracy on the work piece → Increased costs for wheel dressing
3. Extremely high grinding wheel wear → Reduced tool life
4. Spindle head wear out → Danger of machine down time → Unnecessary repairs → Expensive inspections

As a result, the grinding parameters are reduced and productivity is decreased

HOW TO BALANCE AND DRESS YOUR GRINDING WHEELS CORRECTLY

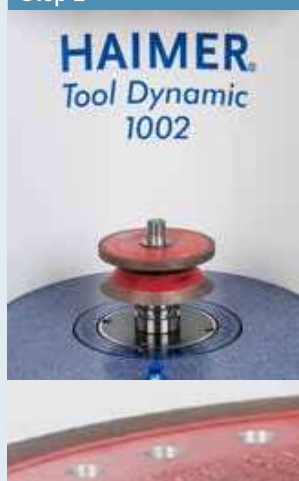
Guideline for initial balancing of a new grinding wheel pack

Step 1



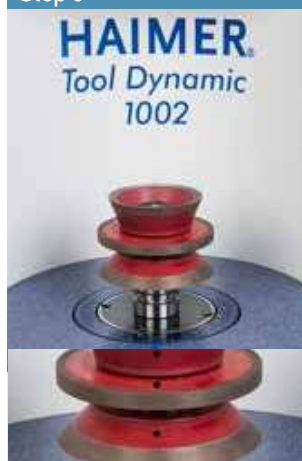
1. Add first grinding wheel on arbor
2. Add distance disk
3. Tighten nut
4. Measure unbalance
5. Correct unbalance (e.g. by axial drilling)

Step 2



1. Add 2nd grinding wheel to arbor
2. Add position reference marking on both grinding wheels
3. Tighten nut
4. Measure unbalance
5. Correct unbalance (e.g. by axial drilling)

Step 3



1. Add 3rd grinding wheel to arbor
 2. Add position reference marking on all three grinding wheels
 3. Tighten nut
 4. Measure unbalance
 5. Correct unbalance (e.g. by axial drilling)
- Prebalancing finished

Step 4



1. Dressing of complete grinding wheel
 2. Measure unbalance
 3. Correct unbalance
(e.g. by balancing screws see page 522)
- Fine-balancing and dressing finished