# Rack Quality and Application

| Quality | Module | Total Pitch Error (μm / 1000mm) | Tooth Thickness Tolerance (μm) | Application |
|---|---|---|---|---|
| 4 | 5 ~ 12 | 20 ~ 23 | -13 ~ 0 | • Measurement equipment<br>• Certification laboratory<br>• High-end machine tools with electrical Preload |
| 5H | 2 ~ 10 | 24 ~ 31 | -15 ~ 0 | • For the installation without back support<br>• High rigidity / high torque<br>• Multi-pinion application<br>• To replace lager module-no. |
| 5 | 2 ~ 12 | 24 ~ 33 | -15 ~ 0 | • High-end machine tools<br>• Lifting axis<br>• Multi-pinion application |
| 6 | 1 ~ 12 | 33 ~ 46 | -22 ~ 0 | • Machine tools<br>• Water-/ laser-/ plasma-cutting machines<br>• Portal machine center<br>• Tube bending machine<br>• Woodworking machine<br>• Combination with linear guide |
| 6M | 2 ~ 10 | 34 ~ 43 | -22 ~ 0 | • Combination with linear guide<br>• Automatic loading system |
| 8H | 2 ~ 4 | 66 ~ 78 | -48 ~ 0 | • Welding machine<br>• Robots<br>• Automatic loading system<br>• Linear axis with low load feed |
| 8 | 1.5 ~ 12 | 66 ~ 90 | -48 ~ 0 | • Welding machine<br>• Robots<br>• Automatic loading system<br>• Linear axis with low load feed |
| 9 | 1 ~ 6 | 91 ~ 109 | -63 ~ 0 | • Stainless<br>• Food industry / pharmaceutical industry<br>• Clean room application |
| 10 | 1 ~ 12 | 146 ~ 202 | -90 ~ 0 | • Lifting axis<br>• Automatic loading system<br>• Robots<br>• Outdoor application |