**Quality 6 – 90° Version**

Total pitch error: $GT_{f}/1000 \leq 0.036$ mm

- Teeth induction-hardened and ground
- Material C45
- Ground on all sides after hardening

Mounting racks see page ZF-2 and ZF-4-5.

To achieve precision rack joints, we recommend our patented rack assembly kit, see page ZF-4.

For lubrication of racks & pinions, we recommend our automatic lubrication systems, see page ZE-1.

For the calculation and selection of the rack & pinion drive, see page ZD-1.

<table>
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<th>Pitch</th>
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<th>of Teeth</th>
<th>$b$</th>
<th>$h_k$</th>
<th>$h_b$</th>
<th>$f$</th>
<th>$a$</th>
<th>$l$</th>
<th>$N^*$ of Holes</th>
<th>$h$</th>
<th>$d_1$</th>
<th>$d_2$</th>
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For lubrication of racks & pinions, we recommend our automatic lubrication systems, see page ZE-1.
HPIR Integrated Rack Pitch 5, 10, 13.33

Quality 6 – 180° Version

Total Pitch Error: $GT_f/1000 \leq 0.036$ mm

- Teeth induction-hardened and ground
- Material C45
- Ground on all sides after hardening

Mounting racks see page ZF-2 and ZF-4-5.

To achieve precision rack joints, we recommend our patented rack assembly kit, see page ZF-4.

For lubrication of racks & pinions, we recommend our automatic lubrication systems, see page ZE-1.

For the calculation and selection of the rack & pinion drive, see page ZD-1.