Modification with corrosion protection

To lengthen the life of grippers used in corrosive environments, it is recommended that they be provided with corrosion protection. Although the majority of the gripper is made of aluminum, it also has some steel parts (e.g. base jaws). Different coatings are available to protect these components against corrosion:

- **DLC** (diamond-like carbon) coating: simultaneously also increases the surface hardness and reduces friction
- **TiAlN/TiN/TiCN coating:** metastable hard coatings for wear protection and longer life
- **Hard chromium plating or ATC coating:** high hardness and high resistance to many chemicals

Application:

- For steel components in corrosive environments
- For gripper fingers or other components requiring special hardness, wear protection or corrosion resistance

Additional benefits	Additional expense
- Corrosion protection - Higher hardness and wear protection - Less friction for the most part	- Additional coating of the respective components; remachining may be necessary

Note:

- The available anti-corrosion option applies only to pistons and base jaws
- Coated parts can become discolored

Figure 1: With DLC coated drill

Figure 2: Hard chromium plated component
(Source: Johann Maffei GmbH & Co. KG)