

No. 604: Hologram-free polishing

Description	This example describes hologram-free polishing of painted surfaces on vehicles.
Previous procedure	Angle polishers are preferably used for automobiles. Changes in the reflection of the light can be detected, particularly after polishing in the case of very dark paints. Objects that are reflected in the paint surface appear three dimensional. This effect is called a hologram. It is caused by micro-fine grooves in the paint surface and leads to customer complaints.
Solution	Polish with a <i>ROTEX</i> [®] . The surface is then hologram-free with a deep gloss.
Machinery/Accessories	<ul style="list-style-type: none">• <i>ROTEX</i>[®] RO 150 E or alternatively <i>ROTEX</i>[®] RO 125 E• STF D 150 polishing pad• STF D 150 polishing sponge (fine, honeycombed)• Festool MPA 11 000 (polish)• Festool MPA Microfibre (microfibre cloth green and grey)
Preparing the surface	The paint surface must be clean, dust-free and dry, otherwise grooves will be ground into the surface.
Procedure	<ol style="list-style-type: none">1. Set the side rotary button on the <i>ROTEX</i>[®] so that it is pointing to the front (coarse sanding) for <i>ROTEX</i>[®] rotary/eccentric motion.2. Place a polishing sponge on the polishing pad of the <i>ROTEX</i>[®]. Apply MPA 11 000 polish to the sponge.3. To spread the polish, set the machine's speed control to setting 1. Accelerate the machine to speed level 4 – 6. Polish the surface using a criss-cross action (resting machine flat on surface).4. Remove dry polish residue using the green microfibre cloth.5. Finally, clean the surface using the grey microfibre cloth.
Important	<ul style="list-style-type: none">• Do not work in bright sunlight.• Make sure the working environment is clean.

NB:

- The *ROTEX*[®] rotary/eccentric motion ensures an intensive polishing action and prevents the polish from being spun out of the polishing area. The paint hardly warms up because of the low speed in comparison to angle polishers. In order to prevent the polish from being spun off when switching the machine, do not switch it on until it is resting on the surface to be polished.