

GENERAL INFORMATION AND PRODUCT INFORMATION

Polishing tools from LUKAS – groups P1 to P7

Whether you need to achieve certain technical surface values for your product or just want to make it shine, there are many good reasons to choose polishing tools from LUKAS.

In sectors such as the automotive industry, aerospace, and pump and turbine engineering, there are plenty of sealing surfaces and fits that must be produced with high precision to achieve the right result. In the food and pharmaceutical industries, polished surfaces ensure hygienic clean working conditions. In mould and die industry, surfaces are polished to a mirror finish; with any casting, the result is a perfect end product.

In response to the growing importance of fine machining, LUKAS has developed a wide range of polishing tools, featuring a variety of raw materials, grain combinations and hardness levels. LUKAS polishing tools are categorised into groups P1 to P7 according to the respective application. These tools include polishing wheels, points and sticks to cover a wide variety of applications. The diagram on the next page provides an overview.

Bonding type	Properties
P1	Polishing points consist of a hard rubber bonding with size 100 abrasive grains. They are suitable for fine finishing applications and the preparation of surfaces that require further polishing.
P2	Polishing points and wheels are manufactured using a soft rubber bond in grit sizes 46 to 800. These tools are perfect for creating grained to dash-dot matted finishes on small surface areas. To achieve the required result, tools with different grit sizes should be used one after the other.
P3	Felt polishing tools are used in combination with SIC or diamond polishing paste to achieve the best results, even up to a mirror finish.
P4	Polishing sticks are manufactured from polyurethane (PU). Areas of application and the results are similar to those detailed in group P2. Polishing sticks are used manually.
P5	Polishing points contain a fibre reinforcement for a longer tool life. The surface finish achieved lies between group P1 and P2.
P6	Polishing tools are available in various forms – polishing points, marbling points, rolls for satin finishes, polishing wheels and polishing discs. The hardness of the polyurethane bonding (PU) can be divided into seven grades, from soft to hard, with available grit sizes of SIC 24 to F1200. This makes the tools suitable for many different uses, including larger surfaces. The main application with polishing wheels is on stationary polishing machines, e.g. cylindrical polishing of tubes.
P7	Polishing points with a 2.35 mm shank diameter use SIC grain in sizes 240 or 400 in a silicon bond. These small tools are very soft and are ideal for polishing jewellery and other small parts.