

Chuck Jaws

Program system for a quick jaw change

SCHUNK, the competence leader for clamping technology and gripping systems designed the PRONTO quick jaw change system particularly for conventional lathe chucks with screw connected chuck jaws. It lowers set-up time of a complete jaw set to 30 seconds, which is about 95% faster than conventional solutions. After the successful premiere of the SCHUNK PRONTO quick-change principle one year ago, SCHUNK presents a complete system program now, which optimizes the set-up process from the storage of the quick-change set to the jaw change on the machine.

SCHUNK PRONTO combines fine-serrated supporting jaws (1/16" x 90° or 1.5 mm x 60°) with special quick-change inserts, and extends the clamping diameter up to 45 mm in seconds. This is eight times more than with conventional lathe chucks. To achieve a fast and highly repeatable jaw change the locking of the changing inserts are loosened with an Allen key, the insert is removed and replaced with another one. This prevents an incorrect positioning. In locked condition, a six-sided form-fit clamping ensures maximum process stability, and provides high force and torque transmission. This system is suitable for clamping raw and machined parts.

As required by the application, different supporting jaw variants for small, medium, and large clamping ranges are available. For top jaws, the innovative family-owned company is offering hard claw inserts for different diameters and clamping ranges, and soft changing inserts for finished parts processing. Once they have been turned out, the latter can be used again and again on the system. The clamping depth can be varied using workpiece stops, and an adjustment aid simplifies jaw change.

SCHUNK PRONTO can be used on every fine-serrated lathe chuck in sizes 200, 250, and 315, and is independent from the manufacturer. The modular design of the program system allows individual and economical combinations of individual components. This also includes the compatibility of the changing inserts with every supporting jaw, because only the position varies. A specifically developed tool and gear wagon ensures clean storage, and fast access to the claw inserts, soft changing inserts, supporting jaws with mounted screws, T-nuts, and adjustment aids. Clearly structured technical data charts simplify the selection and assembly of the individual components. As an added bonus, storage space is integrated in the machine: All the components can be transported on a tray, and by using a quick release fastener, can be assembled directly in the machine.

For more information on PRONTO see the film:

<http://www.youtube.com/watch?v=b5fjMRTLnzU&feature=c4-overview-vl&list=PLldEHWyjh9t3ajrGu3hrmQhpmIMUDc4S>

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Captions:

PRONTO	Used on conventional lathe chucks, the SCHUNK PRONTO quick-change system reduces the jaw changing time by up to 95%.	
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