



SCT 3

Universal Chamfering and Deburring Machine

SCT 3

The universal and flexible solution

The SCT 3 Universal Chamfering and Deburring Machine with two tool heads has been designed for manufacturing spur and helical gears.

The SCT 3 features a shuttle feed loader for manual loading/unloading as standard and can be easily connected to a variety of automation systems or robots.

The machine is a result of the technical collaboration between Samputensili Italy and Grind Master India in the field of advanced gear deburring and chamfering machines.

Samputensili is a world-famous global supplier of machine tools and cutting tools for the gear manufacturing. Grind Master is well-known for its expertise in metal finishing, deburring and microfinishing.



Gantry loader with double gripper



Workpiece magazine



Shuttle loader

Technical data



Deburring of a chain sprocket gears



Tool synchronisation / Tools R-type

Combined chamfering and deburring process

Deburring operation using proven and reliable Samputensili deburring tool heads, spring-loaded to compensate for face width variations.

Chamfering operation using the patented Samputensili chamfer and chamfer-roller tools for a better final result.

Self-centering tools guarantee symmetrical chamfers on both sides of the workpiece even in the instance of slight displacements between adjacent teeth (for example cluster gears).

The two tool heads are meshed with the workpiece by pneumatic cylinders to compensate workpiece runout. This results in symmetrical and constant chamfers on all teeth.

Min./max. workpiece diameter	25 - 350	mm
Max. Module	8	mm
Face width range	4 - 105	mm
Max. workpiece length		
- with gearing in centre of workpiece	750	mm
- with gearing at one end of workpiece	500	mm
Tool spindle drive output, approx.	1,5	kW
Total connected load of machine	4	kW
Compressed air pressure	5	bar
Compressed air consumption, approx.	50 - 70	l/min
Machine dimensions, L x W x H incl. electrical, pneumatic and cooling equipment	1.95 x 0.95 x 1.90	m
Machine weight, approx.	1,500*	kg
Cycle time (excl. tool synchronisation)	2 - 4	sec

* Dimensions and weight depend on options installed (number of workstations and tool heads)
Technical data is subject to change





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