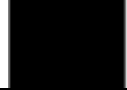


Advantages quicksharp ITM



The following table compares the most important features of quicksharp and **quicksharp ITM**:

Features	quicksharp	quicksharp ITM
Electronic control system	no	yes
	<ul style="list-style-type: none"> - Mechanical / hydraulic - Control elements: Mechanical rotary buttons and pushbuttons 	<ul style="list-style-type: none"> - Electronic - Control elements: Touch pad with LCD display
Precise regrind length	no	yes
	<ul style="list-style-type: none"> - It is not possible to preset a precise regrind length - The removal amount depends on the surface to be ground and the fixed grinding time (approx. 4 min) 	<ul style="list-style-type: none"> - Regrind length can be preset in 0.01 mm intervals using the control system - The removal amount does not depend on the area to be ground - The grinding time depends on the regrind length and the surface to be ground



Advantages quicksharp ITM

Features	quicksharp	quicksharp ITM
Visible grinding process	no	yes
	- It is not possible to watch the grinding process	- The grinding process can be watched through the front window
Tool length measurement	no	yes
	- Measuring is not possible	- By using an NC axis it is possible to measure the tool length (tool length / regrind length are issued in machine format rounded to the nearest 0.1 mm)
Ergonomic design	room for improvement	good
	- It is difficult to swing the probe plate in and out manually - The pressure point for ram feeding of the upper part is too high and requires too much power - Clamping aids are too heavy - Additional equipment (Allen key) must be used in order to clamp the punching tools	- It is no longer necessary to swing the probe plate in and out manually or to feed the upper part manually - Clamping aids are lighter - It is no longer necessary to use additional equipment to clamp the punching tools (they can be clamped manually)
Machine function monitoring	no	yes
	- Monitoring is not possible	- The control system monitors the status of important factors such as the level of cooling lubricant in the tank, filter contamination, and wear and contamination of the grinding wheel - The operating status is indicated by a signal lamp on the machine
Automatic compensation for wear to the grinding wheel	no	yes
	- Must be carried out by hand at regular intervals	- System compensates for wear after each grinding operation
Cooling lubricant pump	room for improvement	good
	- Many malfunctions observed in the field have been the result of defective gear pumps (intake problems, damage caused by contamination) - Delivery volume: 2.8 l/min	- Heavy-duty immersion pump - Delivery volume of 30 l/min
Cooling lubricant filter	room for improvement	good
	- The filter must be replaced frequently due to the small filter surface	- The filter surface has been greatly increased