



C.R. ONSRUD

C.R. Onsrud, Inc. • P.O. Box 419 • 867 South Main St. • Troutman, NC 28166 • PH. (704)528-4528 • FAX (704)528-6170

MASTERCAM CAD/CAM SOFTWARE OPTIONS – (Open architecture controller links to any CAD/CAM)			
Master-Cam ROUTER "Entry" (Supports ATC, 2-axis machining, toolpath backplotting, basic CAD, & post)		\$ 3,500	
Master-Cam ROUTER (Supports ATC, 2-axis machining, toolpath back plotting, basic CAD, & post. Adds rectangular parts & toolpath nesting, tabbing, door geometry creator, stair geometry creator, raster to vector converter, solid-based toolpath verification, and <u>supports multi-drilling heads, aggregates, & positions C-Axis</u>) Includes MasterCAM ATP (Automatic Tool Path) for linking to KCDw, Pattern Systems, or Extreme XP		\$ 5,500	\$5,500
Master-Cam ROUTER - Advanced Nesting ADD-ON (Adds True Shape Nesting to ROUTER or PRO)		\$ 2,500	
Master-Cam ROUTER - Engraving ADD-ON (Adds Engraving capability to MasterCAM ROUTER or PRO)		\$ 2,500	
Master-Cam ROUTER PRO – (Adds surface machining & Full 5-axis control. Does not include Solids Add-In)		\$14,500	
STARTUP & MAINTENANCE TOOLING KIT –			
Includes:			
(1) Comprehensive Owner's Manual with pneumatic & electrical schematics. Also includes preventative maintenance, startup, and tooling information.			
(2) HSK Standard Tool Holders			
(2) Bearing Chuck Nuts			
(2) Collet Wrenches: (1) Rego Fix Spanner Wrench & (1) 1-7/16 Open End Wrench			
(1) 2mm – 8mm Folding Hex Key Set			
(1) Roll of 4508 Closed Cell Vacuum Tape			
(1) Tube of Ball Screw Lube			
(2) M20 X 60mm, & (4) M20 X80mm Leveling Bolts w/Leveling Nuts			
(1) Emergency Shut Off Cable, Tension Spring, & Tension Screws (N/A on 144G10)			
(10) Black Protective Tube Covers			
(1) Software Training and Applications guide (if applicable)			
		INCLUDED	INCLUDED
WARRANTY –			
ONE (1) Year limited warranty on all parts & labor FOB the factory. In addition to this excellent warranty, all applicable Original Equipment Manufacturer's warranties apply.			
		INCLUDED	INCLUDED
MACHINE TRAINING – C.R. Onsrud Inc. Training School			
CR Onsrud Inc. Training School consists of: At Least TWO (2) DAYS of training <u>at your facility</u> . This will involve training on your machine, cutting your parts, from your drawings, on your spoil boards, using your tools, to your specifications, & to your satisfaction. This training will be received after the machine has been shipped from CR Onsrud, arrived at your facility, been put in place, and all of the necessary utilities have been brought to the machine. This training is mostly spent at the machine, helping you set up for your production. You will be trained about proper fixture making, tooling selections, correct tool paths, any necessary machine maintenance, & we'll thoroughly train your machine operators. The technician's travel expenses are not included.			
		INCLUDED	INCLUDED
SOFTWARE TRAINING – (software training & software support is included in the price of the package)			
* With Purchase of MasterCAM ROUTER "Entry" or MasterCAM "ROUTER" from CR Onsrud: Included in our price for the software, is full training for up to 2 people, for two days, in a classroom environment in NC. Here you will learn how to: draw parts in CAD, import & export drawing files, create the tool paths to machine parts, test those tool paths for accuracy, and prepare to send the completed necessary machine code to the CNC Router. If you aren't comfortable programming in MasterCAM, by the end of training, you may re-attend the same class, at a later date, free of charge.			
* With Purchase of MasterCAM ROUTER "PRO" from CR Onsrud: Included in our price for the software, is full training for up to 2 people, for five days, in a classroom environment in NC. Here you will learn how to: draw parts in CAD, import & export drawing files, create the tool paths to machine parts, test those tool paths for accuracy, and prepare to send the completed necessary machine code to the CNC Router. If you aren't comfortable programming in MasterCAM, by the end of training, you may re-attend the same class, at a later date, free of charge.			
		INCLUDED	INCLUDED