



KTC-100NF

CNC Automatic Carbide Sawing Machine High-speed for non-ferrous metals



- Amazing Precise and High-speed Cutting Speed
- Mass production requirement
- Environment Dry & Clean at cutting

Examples of cut-off speed

Solid aluminum bar
 $\varnothing 100\text{mm} / 3.937\text{in} = 3.1 \text{ (sec)}$
 $\varnothing 30\text{mm} / 1.18\text{in} = 0.5 \text{ (sec)}$
 Rectangular aluminum bar
 $72 \times 25\text{mm} / 2.83 \times 0.98\text{in} = 2.8 \text{ (sec)}$

Specifications

Cut-off Capacity		KTC-100NF
Round bar ●		10 ~ 100 mm / 0.393 ~ 3.937 in
Square bar ■		10 ~ 80 mm / 0.393 ~ 3.149 in
Round tube ○		10 ~ 100 mm / 0.393 ~ 3.937 in
Square tube □		10 ~ 80 mm / 0.393 ~ 3.149 in

Saw Head & Spindle	
TCT Carbide tipped sawblade	$\varnothing 355 \times 2.0 \text{ t mm}$
Sawblade feeding	Pivot-arm type / AC servo motor + Ball-screw
Main vise	One horizontal / One vertical / Hydraulic
Sawblade rotation speed	1600 ~ 4000 rpm Variable speed via frequency inverter

Motor	
Spindle driving motor	11.25kw (15Hp) / 2p
Hydraulic pump motor	2.25kw (3Hp) / 4p
AC servo motor / GFC	1kw
AC servo motor / Saw head	2kw

Hydraulic Device	
Work driving pressure	70 kg/cm ² (7 MPa)
Tank capacity	90 liters / 23.78 gallons

Pneumatic Device	
Work operating pressure	4 ~ 6 kg/cm ² (55 ~ 85 psi)

Others	
Gross electrical power	18kw
Dimension (L x W x H)	6966 x 1655 x 1845 mm / 22.85 x 5.43 x 6.05 in
Net weight	2700 Kgs / 5940 lbs

★ The specifications subject to change without prior notice.

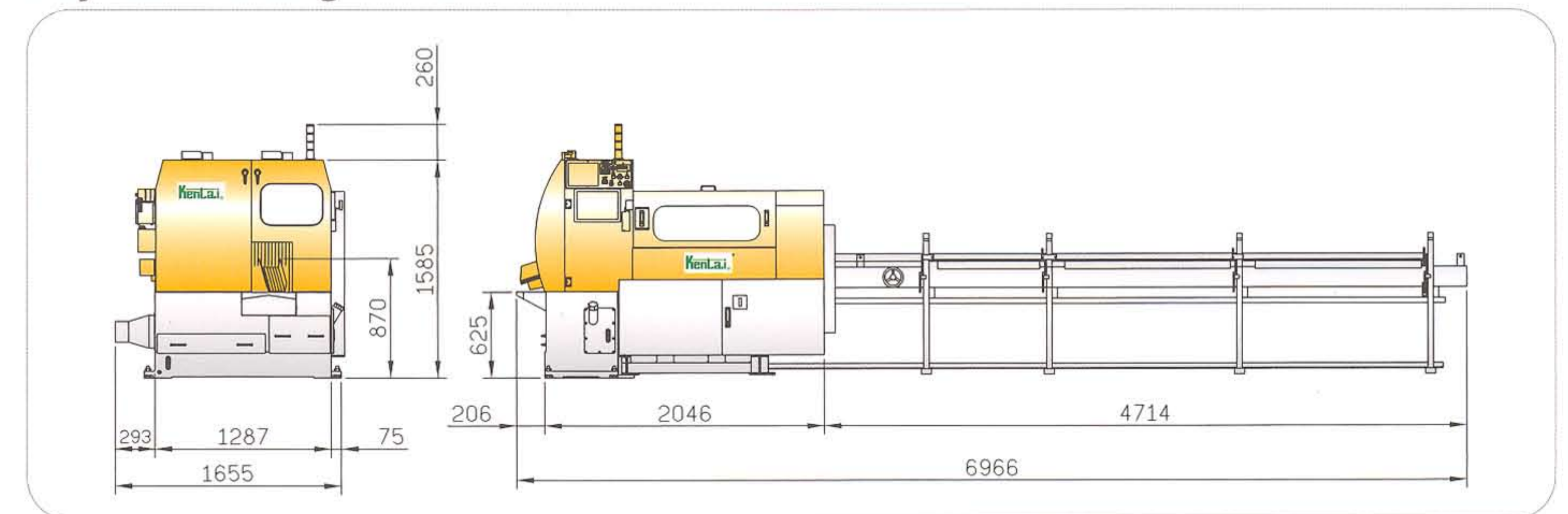
Standard Accessories

- Auto-loading magazine (Excluding protection cover)
- Central auto lubricating device
- High speed spindle lubricating device
- Material separator
- Blowing device
- Mist cooling & lubricating device
- Heat exchanger of electrical cabinet
- Halogen working lamp

Optional Accessories

- Chip suction device
- Bundle magazine
- Unloading device (For long length workpiece)
- "CE" Conformity

Layout Drawing Unit : mm



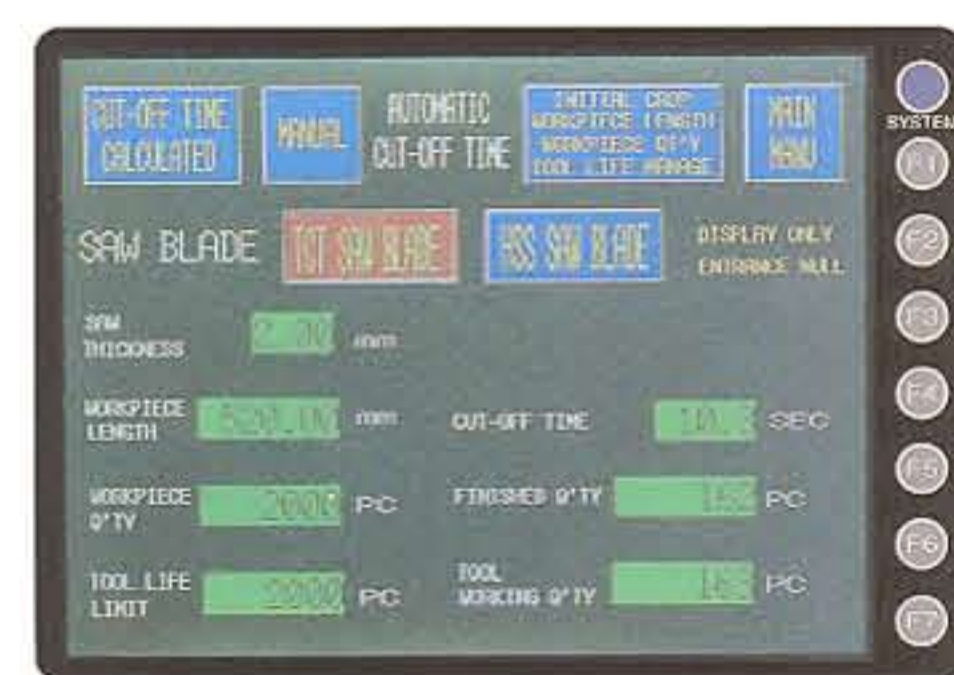
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CNC Controlled with PLC Modular Unit

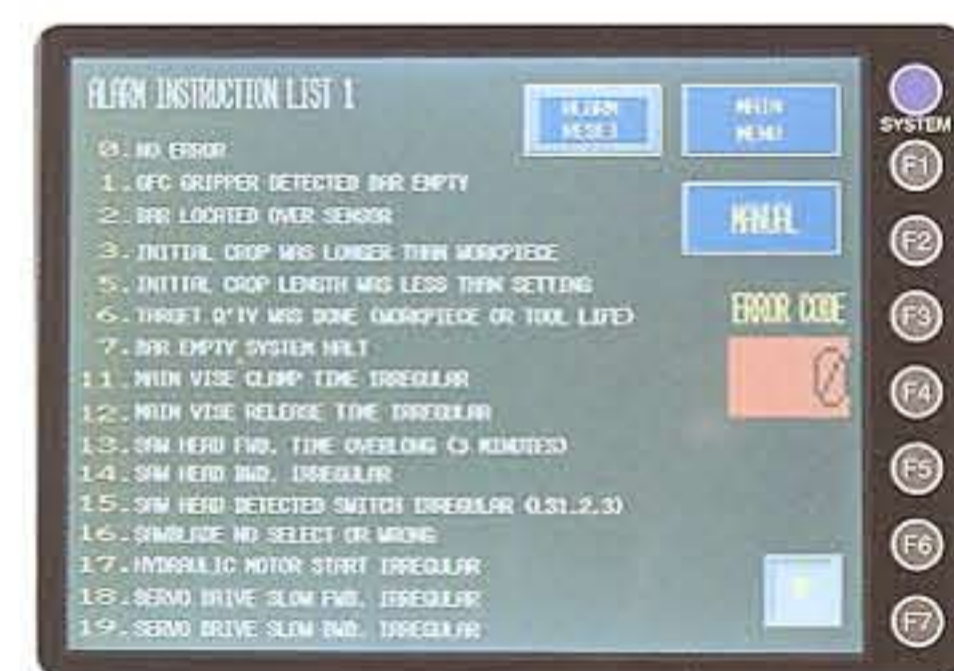


POD (Programmable Operation Display)
-7.7" color high-resolution Touch Sensing Screen



Real Time Monitoring

- Cut-off time detecting
- Workpiece quantity display
- Tool currently cut-off quantity display

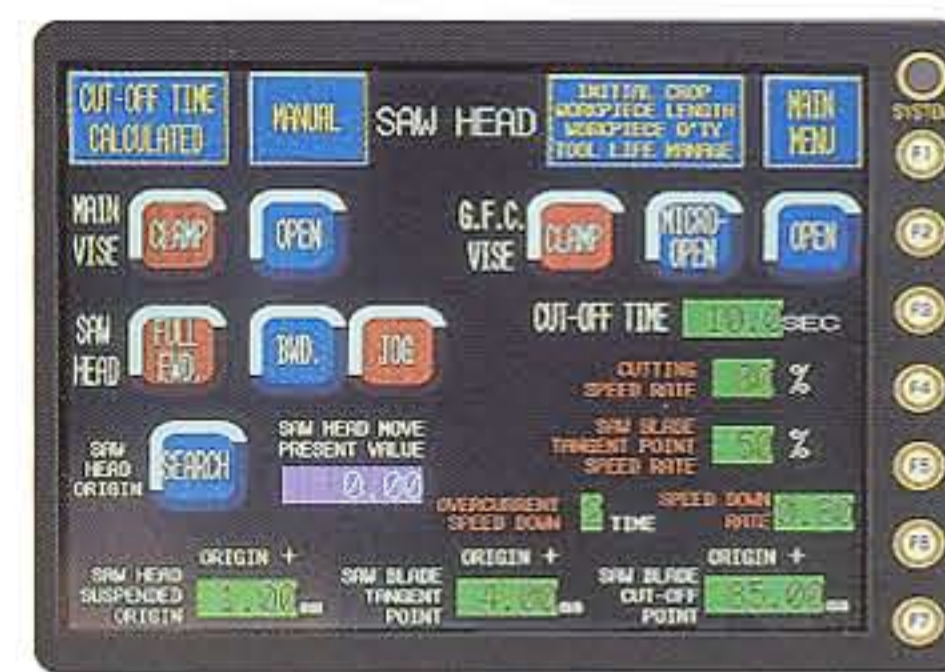


Alarm Message Display

- Error auto detecting function
- Self diagnosis function
- Troubleshooting instruction

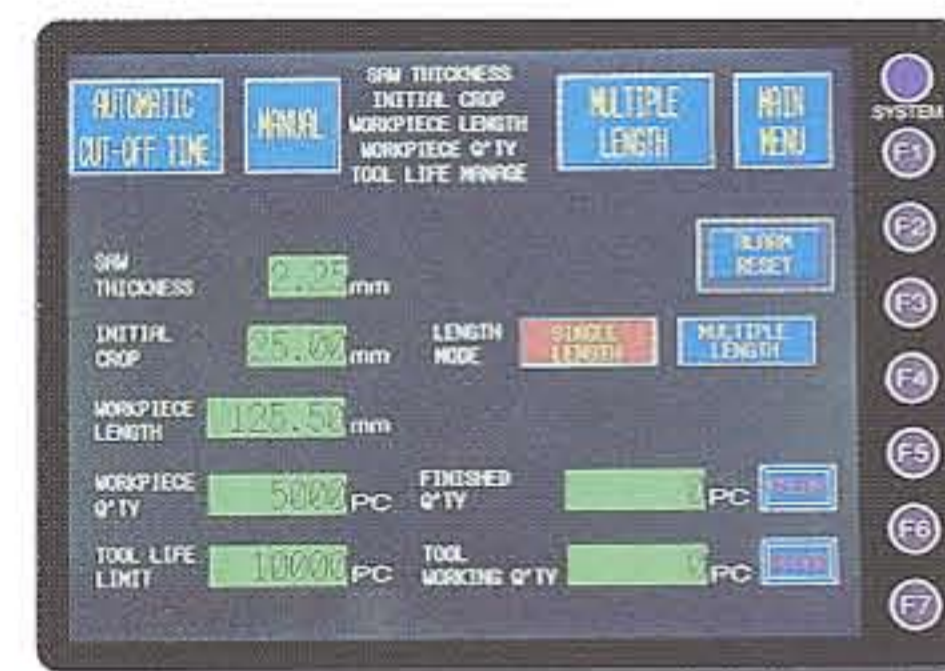
Features

- Motion controller system is used of progressive servo-positioned control unit. High capability man-machine interface design provides 100 % signal communication for no losing that have built-in perfect modular set device, error auto detecting function, self diagnosis function.
- 7.7" color LCD has a high-resolution display screen, you just only be required to touch the characters for display or inputting data by touching on the screen. User-friendliness of man-machine interface displays varied functions settings, error report, operating condition...etc..
- It combined with the centralized operating panel that provided with easily realize and handle all characteristics of machine within the shortest training period.
- Sawblade feeding was designed with Pivot-Arm type then drove by AC servo motor and Ball-screw.
- G.F.C. loading system is driven by AC servo motor that cooperates with ball-screw, backlash compensate automatically, and also the reliable precision of repeated positioning is presented.
- 2mm kerf of TCT carbide tipped sawblade, low losses from cut to cut.
- Mist cooling & lubricating system was equipped for cut-off working. It matches up the working environment dry and clean requirement, reduce fluid consumption, increase sawblade life, and dry chips recycled easily without pollution.
- Initial crop and rest piece delivered by independent direction from workpiece.



Servo Feed Saw Head

- Accurate, smooth and low vibration during cutting.
- Allow reducing speed at Tangent point before the saw cut into the bar.
- Overcurrent speed down function.



Length & Qt'y

- Length setting is controlled with Servo-Positioned unit
- Saw blade thickness by inputting
- Target quantity by inputting
- Tool life management



Cut-off Time Calculated

- System included the varied cutting data by touch on paging button



Multiple Length.

- No cost losing by long rest piece



GFC (Gripper Feed Carriage) System

GFC drivin : AC Servo motor & C5 grade Ball-Screw
 GFC speed : 20 m/min / 66 ft/min
 Section length : Once 4 ~ 800 mm / 0.157 ~ 31.496 in
 Multiple 9999 mm / 393.661 in
 Trim cut length : 8 ~ 99 mm / 0.314 ~ 3.897 in
 Rest piece length : Minimal 57 mm / 2.244 in



Auto-Loading Magazine

(Including the Sq. & hex. bar skidding-add device)
 Capacity of bar length : 2 ~ 6 mm / 6.56 ~ 20 ft
 Pre-loading width : 980 mm / 38.582 in
 Pre-loading weight : 3600 kgs / 7920 lbs
 (at static load)



Bundle Loader
(Optional device)

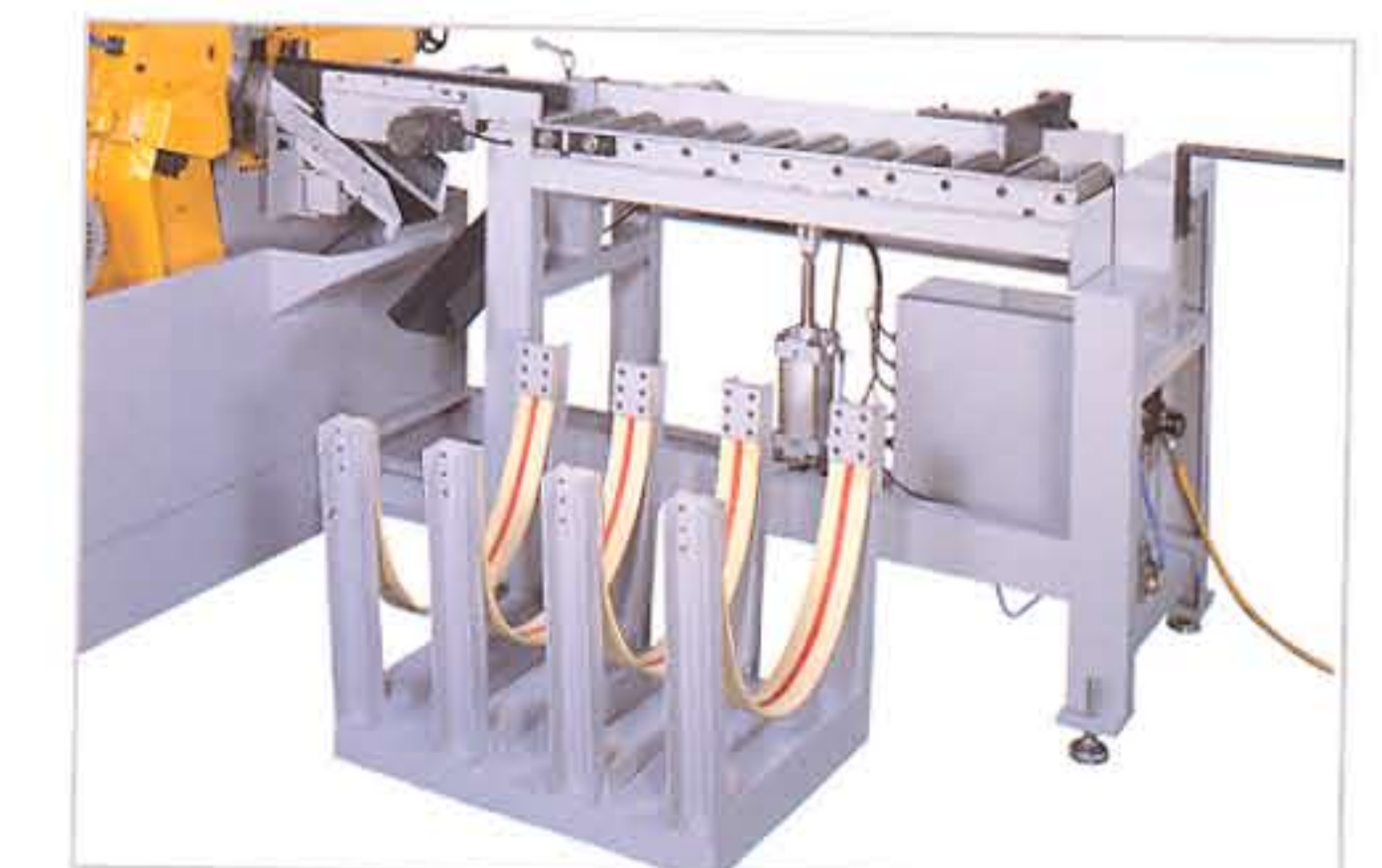


Chip Suction Device

(Optional acc.)
 Driving Motor: 2.25 Kw (3Hp)
 Throughput : 53 m³/min (1862 cfm)
 Noise level : 70 ~ 90 (db)



CE Protection Cover
(Optional acc.)



Unloading Device
(Optional acc.)