

**CUTTING, POSITIONING & WELDING EQUIPMENT**

# **FIBERTEC**

**FIBER LASER CUTTING MACHINE**



**Koike Aronson, Inc./Ransome**

# FIBERTEC



## FIBERTEC

The FIBERTEC is a high-power fiber laser machine that is equipped with IPG manufactured oscillator and using in-house development of a special cutting head for thick steel plates, combined with the unique TPS (Transformer Production System) technologies. TPS provides shuttle table, housing, stocker and various other modules, so cutting machines can be tailored for customer needs.

The fiber laser resonator structure is simple and provides extremely efficient oscillation. It is able to reduce maintenance costs by fewer external optical devices and decreases the electric power use by 70% compared with the CO<sub>2</sub> laser. It can reduce the total running costs more than 50%. Thus, good economic efficiency, power conservation and CO<sub>2</sub> emissions reduction becomes possible with the new fiber laser machine FIBERTEC.



Slag Removal Bucket



Pallet Changer



Stocker System

# OPERATING COST COMPARISON



High Speed Running

Maximum Speed 100m/min

Acceleration 1G Cutting rate 5.5m/min Corner 0.8mmR implemented.

Productivity has been improved due the possibility of cutting corner without minute processing.

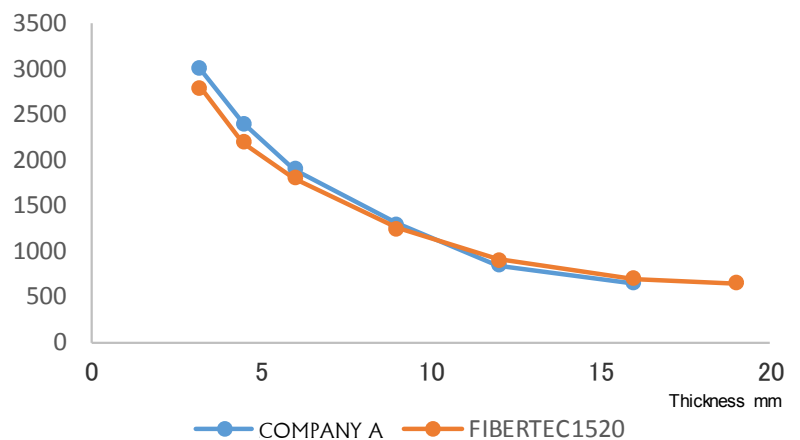
## Cost Comparison only for drive unit (Oscillator and Chiller are not included) \$US

Drive Unit	Machine Power	Hour	Day (12h)	Month (25 days)	Year (12 months)
Company A Linear motor Speed 300m/min	69kVA	\$8.28	\$99.36	\$2484.00	\$29808.00
FIBERTEC Rack & Pinion Speed 100m/min	18kVA	\$2.16	\$25.92	\$648.00	\$7776.00

The electric power average, is estimated based on our track records.  
(Company A power average is estimated as equivalent as our company)

The FIBERTEC's electric cost savings is quite significant if your main production uses 3.2mm or more plate thickness.

Mild Steel Oxygen Cutting Speed Comparison





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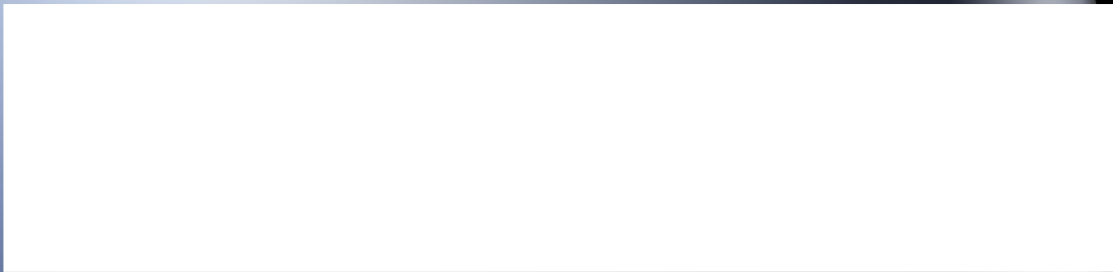
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