

## LASER MACHINES CLEANING PARAMETERS

laser power	item to clean / remove	thickness	fiber diameter	beam quality	frequency range	pulse width	laser focus spot size	maximum single pulse energy	clean rate
<b>200 W</b>	Oxide layer	≤25μm	100μm	10	10-50kHz	90-130ns	57μm	10mJ	9m <sup>2</sup> /h
		≤50μm					43μm		4.5m <sup>2</sup> /h
		>50μm					43μm		3m <sup>2</sup> /h
	Rust layer	≤50μm					57μm		6m <sup>2</sup> /h
		≤100μm					43μm		3m <sup>2</sup> /h
		>100μm					43μm		1.5m <sup>2</sup> /h
	Paint, coating	≤50μm					57μm		2m <sup>2</sup> /h
		≤100μm					43μm		1m <sup>2</sup> /h
		>100μm					43μm		0.5m <sup>2</sup> /h
	Dirt, carbon layer	≤25μm					57μm		5m <sup>2</sup> /h
		≤50μm					43μm		3m <sup>2</sup> /h
		>50μm					43μm		2m <sup>2</sup> /h
<b>300 W</b>	Oxide layer	≤25μm	100μm	10	20-50kHz	120-140ns	71μm	12.5mJ	12m <sup>2</sup> /h
		≤50μm					54μm		6m <sup>2</sup> /h
		>50μm					54μm		4m <sup>2</sup> /h
	Rust layer	≤50μm					71μm		8m <sup>2</sup> /h
		≤100μm					54μm		4m <sup>2</sup> /h
		>100μm					54μm		2m <sup>2</sup> /h
	Paint, coating	≤50μm					71μm		2.5m <sup>2</sup> /h
		≤100μm					54μm		1.2m <sup>2</sup> /h
		>100μm					54μm		0.6m <sup>2</sup> /h
	Dirt, carbon layer	≤25μm					71μm		7m <sup>2</sup> /h
		≤50μm					54μm		5m <sup>2</sup> /h
		>50μm					54μm		3m <sup>2</sup> /h
<b>400 W</b>	available upon request								
<b>500 W</b>	Oxide layer	≤25μm	200μm	62.5	10-50kHz	90-160ns	89μm	25mJ	15m <sup>2</sup> /h
		≤50μm					68μm		7.5m <sup>2</sup> /h
		>50μm					68μm		5m <sup>2</sup> /h
	Rust layer	≤50μm					89μm		12m <sup>2</sup> /h
		≤100μm					68μm		6m <sup>2</sup> /h
		>100μm					68μm		3m <sup>2</sup> /h
	Paint, coating	≤50μm					89μm		5m <sup>2</sup> /h
		≤100μm					68μm		3m <sup>2</sup> /h
		>100μm					68μm		1.5m <sup>2</sup> /h
	Dirt, carbon layer	≤50μm					89μm		10m <sup>2</sup> /h
		≤100μm					68μm		7m <sup>2</sup> /h
		>100μm					68μm		5m <sup>2</sup> /h