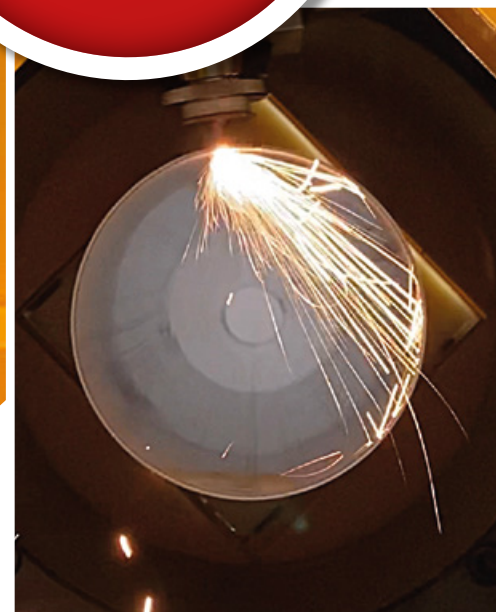




**TUBE MILLS**

**NEW**



## IN-LINE ORBITAL FIBER-LASER FLYING CUTTING

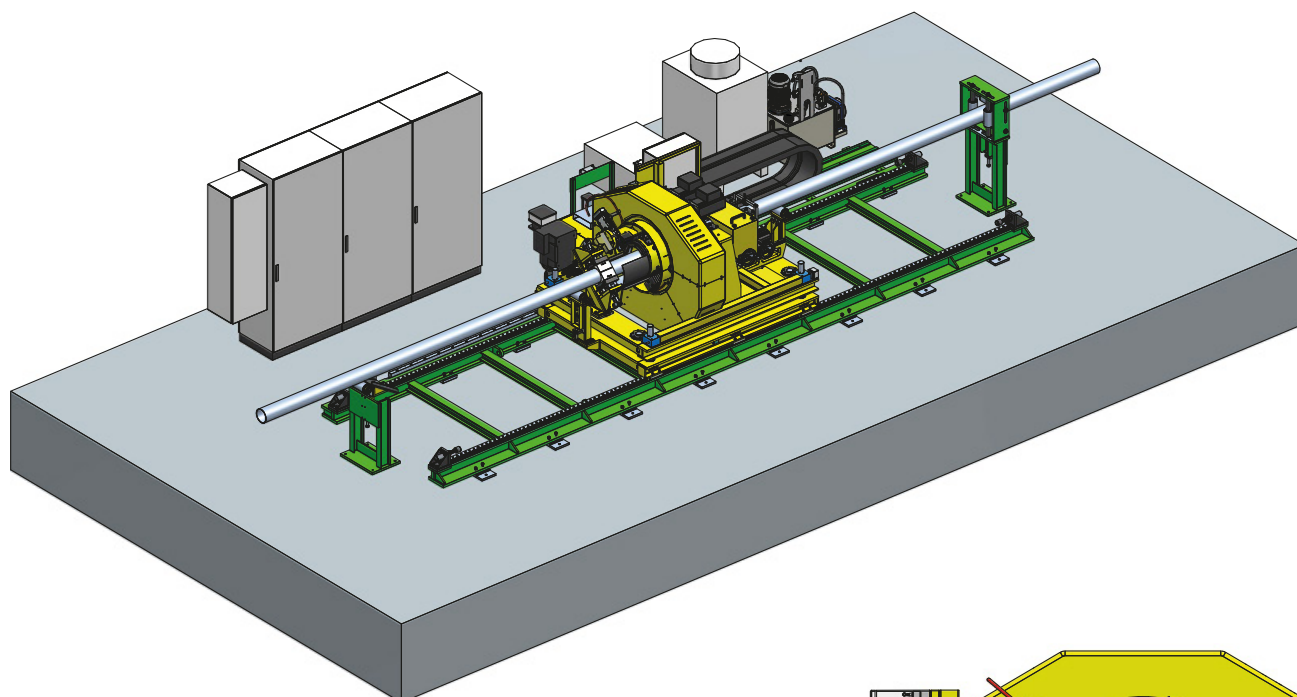
(BURRS AND SPATTER FREE)

**MATERIAL:** Stainless steel

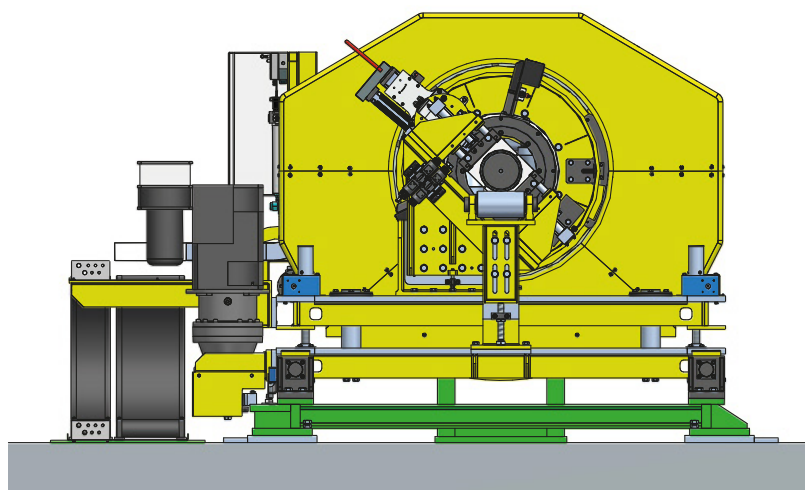
MODELS	SIZE RANGE		THICKNESS RANGE	
	Min	Max	Min	Max
<b>Model 170</b>	Ø 60	170	1 mm	6 mm
	▣ 50 x 50	130 x 130		
	▣ 80 x 20	200 x 60		
<b>Model 219</b>	Ø 76	219	1 mm	6 mm
	▣ 65 x 65	175 x 175		
	▣ 100 x 25	230 x 80		
<b>Model 323</b>	Ø 114	323	2 mm	8 mm
	▣ 90 x 90	250 x 250		
	▣ 150 x 30	350 x 150		
<b>Model 406</b>	Ø 152	406	3 mm	10 mm
	▣ 120 x 120	300 x 300		
	▣ 200 x 40	400 x 200		

**TUBE SPEED:** Max 30 m/min





- » Welded steel base with recirculating roller guides.
- » Welded steel carriage with A.C. vectorial motor and gearbox on-board.
- » Height adjustment of the carriage by means of 4 screw-jacks controlled by a hydraulic motor and position locking by means of 4 hydraulic clamping sleeves.
- » Rotation of the main group by means of a fifth-wheel driven by twin brushless motor system and gearbox with backlash control.
- » Movement of the laser head by linear ball actuator and brushless motor, rotation by torque motor.
- » Fiber optic laser source for cutting round and shaped tubes up to the max wall thickness.
- » Head with motorized focal adjustment.
- » Computerized control system for the collection of spattering in both round and shaped tubes.
- » Vertical front and rear hydraulic vices.
- » Safety cabin with inspection windows in accordance with the EC standards.



**The cutting time is drastically reduced compared to a standard 2-blade orbital cut; we have achieved the following results:**

- strip thickness 1 mm → cutting speed: 13 m/min
- strip thickness 6 mm → cutting speed: 1.2 m/min

**That means:**

- for a tube O.D. 168x1 mm the cutting time is 5 sec
- for a tube O.D. 168x6 mm the cutting time is 28 sec

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