

CICLOMEC 1000 OT (Brass)

Indicative Production per Hour (100 % of capacity) with conventional blade HSS.

- Material: brass
- Blade ø: 175 ÷ 200 mm
- Cutting speed: 800 rpm
- Blade thickness: 1,2 ÷ 1,5 mm

BAR DIAMETER mm	QUANTITY OF BARS	LENGTH 25 mm app.pcs./h	LENGTH 50 mm app.pcs./h	LENGTH 75 mm app.pcs./h	LENGTH 100 mm app.pcs./h
12	1 (single bar)	3500	3400	3200	3200
	2 (twin bar)	5700	5500	5200	5000
20	1	2900	2800	2600	2500
	2	4700	4500	4200	4000
30	1	2400	2200	2000	1800
	2	3800	3500	3200	2900
35	1	2000	1800	1600	1400
	2	3200	2900	2600	2200
40	1	1600	1400	1200	1000
	2	2500	2200	1900	1600
50	1	1200	1100	950	800

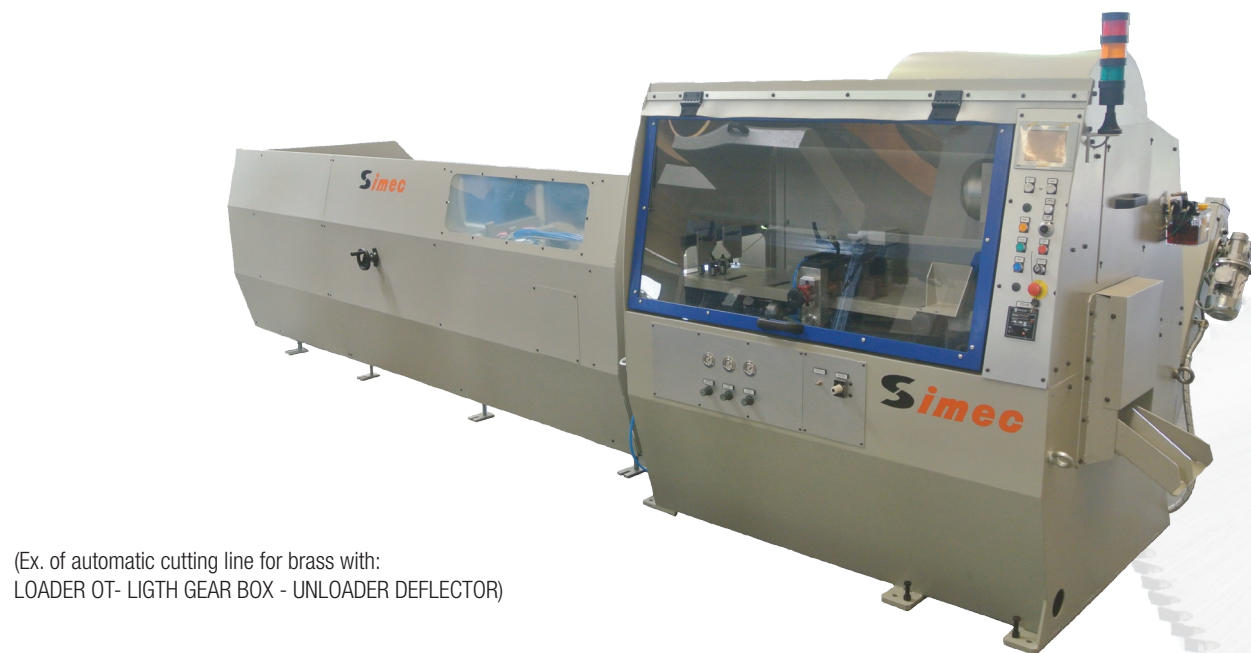
(AVAILABLE UPON REQUEST, AN INDICATIVE PRODUCTION PER HOUR FOR ECOBRASS)

CICLOMEC 1000		
SPECIFICATIONS	CICLOMEC 1000	CICLOMEC 1000 OT
Cut capacity:	min Ø 6 mm, max Ø 120 mm	min Ø 10 mm, max Ø 80 mm
Square cut capacity:	min 10 x 10 mm, max 100 x 100 mm	/
Rectangular cut capacity:	min 10 x 10 mm, max 120 x 80 mm	/
Blade diameter:	from Ø 200 mm to Ø 315 mm	from Ø 200 mm to Ø 300 mm
Cut length tolerance:	± 0.15 mm	± 0.15 mm
Blade motor:	4 kw (optional 5.5 kw)	4 kw (optional 5.5 kw)
Blade speed:	from 30 rpm to 300 rpm	800 rpm
Minimum cut length:	10 mm	10 mm
Maximum cut length:	1000 mm (with one feeding gripper stroke)	1000 mm (with one feeding gripper stroke)
Gripper feeding speed:	1 m/s	1 m/s
Cutting plane height:	975 mm	975 mm



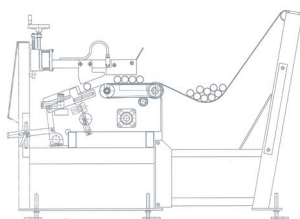
Via Lago di Misurina, 70 (Z.I.)
36015 SCHIO (VI) ITALY
Tel. +39 0445 576129 - Fax. +39 0445 575910
www.simecsrl.it - e-mail: simec@simecsrl.it





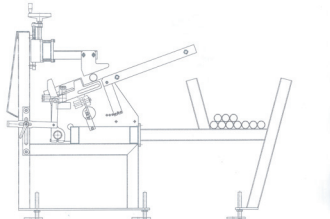
(Ex. of automatic cutting line for brass with:
LOADER OT- LIGTH GEAR BOX - UNLOADER DEFLECTOR)

LOADING DEVICES



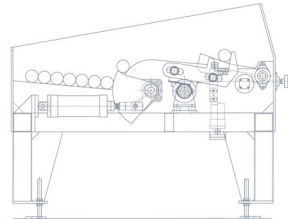
LOADER BM

- Automatic vertical and horizontal in-feeding device from the bundle of tubes to the cutting machine.
- Loader gripper to feed the material into the machine.
- Carrying capacity 4000kg (for a standard 6.5m loader).



LOADER M

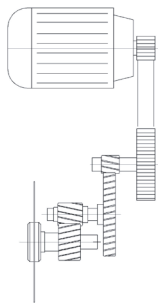
- Load capacity limited to the inclined chute.
- Loader gripper to feed the material into the machine.
- Carrying capacity 1500kg (for a standard 6.5m loader).



LOADER OT

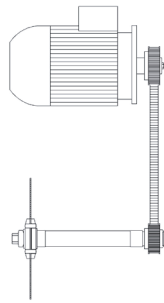
- Automatic vertical and horizontal in-feeding device from the bundle of bar to the cutting machine.
- Loader gripper to feed the material into the machine.
- Carrying capacity 4000kg (for a standard 4m loader).

CUTTING HEAD



HEAVY GEAR BOX

- Composed with hardened and ground helicoidal gears to obtain an high operating rate, without any play or vibration of the saw blade.
- **Blade speed from 30 rpm to 300 rpm** with the possibility to mount an inverter to adjust the blade speed while the machine is operating.
- HSS blade min ø 200 mm - max 350 mm.
- Suitable for Steel , Stainless steel.



LIGHT GEAR BOX

- Transmission from blade motor to blade shaft through pulleys.
- Blade speed up to 3000 rpm.
- HSS or TCT blade, min ø 175 mm - max 350 mm.
- Suitable for light alloys (aluminum, brass, Eco brass).

UNLOADING DEVICES



UNLOADER DEFLECTOR

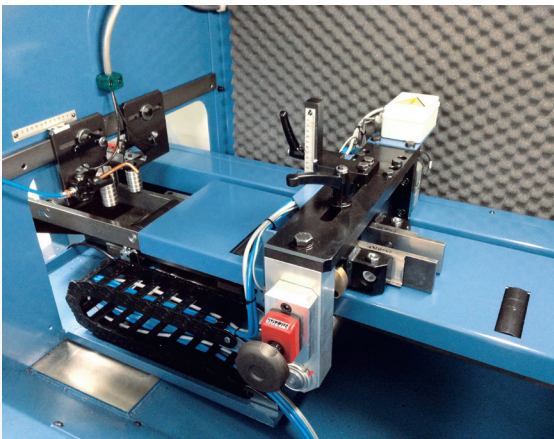
- Suitable for short pieces.
- Pneumatic cylinder to divide good pieces from scraps.



UNLOADER BELT

- Automatic unloading belt with two discharge position plus another one for trim cut and scraps.
- Standard version for pieces up to 1000mm.

CUTTING UNIT DEVICES



FEEDING GRIPPER and VICES

- CN feeding gripper powered by a servo motor, with a stroke of 1000mm.
- Feeding gripper speed 1 m/s.
- Auto centering device to avoid any scratch on the material.
- Pneumatic clamp in both side of the blade.
- Standard or special jaws according to the size of the material to cut.



ELECTRONIC DEVICE

- Electronic equipment Siemens.
- Touch screen interface between the operator and the machine.
- Simple programming of the machine through an intuitive menu.
- Possibility to install remote assistance on the machine.

CICLOMEC 1000 single tube

Indicative Production per Hour (100 % of capacity) with conventional blade HSS and bars 6000 mm long.

- Material: carbon steel
- Blade ø: 250 ÷ 315 mm
- Cutting speed: 150 ÷ 200 rpm
- Blade thickness: 1,6 ÷ 2 mm

TUBE WALL THICKNESS mm	DIAMETER mm	LENGTH 50 mm	LENGTH 100 mm	LENGTH 250 mm	LENGTH 500 mm	LENGTH 1000 mm	CUTTING TIME (approximate) sec.
1	10	3200	2700	1700	950	760	0,50
	20	2500	2300	1600	950	760	0,70
	42	1700	1600	1200	900	740	1,20
1,5	10	2800	2400	1700	950	760	0,70
	20	2200	1900	1450	950	760	0,95
	30	1750	1600	1200	920	730	1,30
	50	1200	1150	950	750	610	2,00
2	16	2100	1850	1400	950	760	1,20
	30	1400	1300	1050	800	640	1,80
	50	950	900	780	630	510	2,80
	80	740	700	620	500	400	3,70
2,5	20	1500	1400	1100	840	670	1,70
	40	980		780	620	500	2,90
	60	710	670	580	480	390	4,00
	80	610	580	510	410	330	4,65