

BLM Adige LT8.10 4kW fiber

Year 11/2018

Machine hours: about 24.000 h



Cutting characteristics:

- Round, depending on loader:
- 12 to 220 mm diameter
- Square 12 to 200 mm side
- rightangled and flat oval in einem 280 mm envelope circle
- 2500 mm minimal length and 6500 mm maximum length for raw tubes
- 40 kg/m max weight.

The machine is for processing of following open profiles:

- Flat material: 40 x 5 mm to 200 x 12 mm;
- C- and U-profiles: 30 x 20 mm to 200 x 200 mm;
- L-profiles: same as C- and U-profiles
- Guiding bezel wagon
- Support arms for tube
- Metal belt conveyor for backside unloading (rest pieces up to 450 mm length)
- automatic control + correction of torsion and centering of right angled tubes.
- Cutting gas supply system with proportional valve.
- Air conditioned electric cabinet
- Automatic cutting optimizing
- Operator interface with text and pictures and help function.
- Active Marking function to marking of each part (Artube SW necessary)
- Automatic reduction of off-time.
- Automatic optimizing of relationship cutting quality/cycle time
- Complete database of technological processing parameter for each tube type

- NC control:
 - Siemens 840D SL with NC axis, with motors + digital drives.
 - NCU 730.2, program memory 3 MB
- Operator interface:
 - Intel Core i7-610E 2,53 GHz Prozessor, 4 GB RAM, 50 GB SSD
 - 19" Touch colour screen, USB interface
 - Ethernet network card for fast data transfer (up to 1000 Mbit/s)
 - Remote diagnosis package for VPN internet connection
 - Safety devices
 - Ce sign

Suitable for material out of steel, alloyed steel and stainless steel, copper and brass, as well as aluminium alloy

ADIGE TubeCutter 3D focus head with rotatable axis with +45° - -45° bevelling
Pressure of assist gases up to 25 bar.

Wiring of electric, gases and hydraulic inside the head

Fast exchange system of protective window with removable cassette.

Active Focus device

Active Speed mode, with automatic adjustment of parameter

Automatic bundle loader for round, square, right angled and flat oval tubes.

Loadable min. length 2500 mm and max. length 6500 mm.

Max. weight 4000 kg.

2 possible loading procedure, out of bundle Bündel or out of loading trough

Light barriers for monitoring of max. height of loaded materials.

Separation device with tube guidance

Sensors for determination of length of loaded tubes

With own cabinet, release buttons, fixed safety devices.

Push-off device for tubes stored in rectangular packages, on the bundle loader.

Automatic step conveyor for profiles

Loadable min. length 2500 mm and max. length 6500 mm.

Separation device with profile guidance

Sensors for determination of length of loaded profiles

Execution on machine front side

Loading portal main module

Machine module for unloading, aligning, measuring and transport of rod from loader to cutting line

6500 mm loading portal extension module with 4 transport arms

2500 mm min. length and 6500 mm max. length of rods

Main module support unloader L=4500 mm.

Automatic sorting out of cutted parts

Active tube support during rotation

Tiltable support table with rollers for discharge

Controlled self centering unloading gripper

Sorting of parts in front of machine up to 4500/3400 mm and backside up to 3400 mm

Unloader support extension module for sorting of parts on front side up to 6500 / 5400 mm and on back side up to 3400 mm

In-line discharge system

Discharge system on front side, containing of metal belt conveyor and discharge table with motor driven chains

2000 mm discharge system extension module

Discharge table

Main module with 3400 mm length

Table for reception of cutted parts, with horizontal motor driven and with rubber covered conveyor chains.

Collection area with 500 mm buffer way and max. level monitoring.

Tiltable holder at end of buffer way, for unloading of parts into a box

6 conveyor chains with adjustable distance

Min. part length 300 mm.

Frame installed on rollers

Execution discharge table on machine back side

Fiber laser source IPG - YLS 4000.

Power: 4000 W.

Wave length: 1.07 μm .

Fiber diameter: 100 μm .

Impulse frequency: 0-3 kHz.

Impulse generator and control panel

Chiller unit with closed circuit and connection attachment for IPG - YLS

Extraction system [D] 2.000 m³/h extraction performance

Optical device for recognition and alignment of seam line

Active Piercing - Device for optimized laser piercing

Specific sequence for profile centering

Active Scan device for measuring and fault balancing of profile deflection and torsion.

2 network cameras for easy video monitoring of machine at main operator panel

Bezel clamping jaws (4 pieces) with double rolls





