



**TESS CONEX**  
INDUSTRIE

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## WHO WE ARE

TESS CONEX SA Iasi - part of Conex Industrial Group - has been present on Romanian market since 1993. The company is one of the leading manufacturers of automotive parts and components for machinery and industrial equipment.

Our product portfolio is composed mainly of automotive and industrial exhaust systems, body parts and industrial products produced by specific operations of pressing, punching, stamping, welding, etc..

In recent years there have been investments of over 3 million € in the latest technologies and equipments such as electrostatic painting, abkant, press with automatic feeding machines, shaping, forming, crimping, welding equipment etc..

Production is based mainly on operations such as:

- » cutting (metal sheet and pipe),
- » pressing (stamping, drawing, bending,
- » bending (metal sheet and pipe),
- » MIG - MAG and WIG welding,
- » electrostatic painting;





## OUR VALUES

We're **proud of what we do** - we act sensitively with the highest standards of integrity and social responsibility.

We **value each other** - we seek and benefit from diverse people and perspectives. We strive to create mutually fulfilling relationships and partnerships.

**Responsibility** - You can count on us. We take action, are results-oriented and hold ourselves accountable. We fulfill our commitments. We don't give up.

**Excellence** - We are learning from our partners and employees to achieve excellence. We give and receive feedback to help us to improve continuously.

*We have come a long way since 1993 until today. A road full of challenges and achievements. Today we are the same, only better, more mature, more responsible.*

*Alex CĂRBUNAREA,  
CEO*

## HISTORY

**1993**

TESS CONEX was established

**1995**

First exhaust system for Dacia auto-vehicle were designed and produced

The first plastic injected item for automotive use was manufactured

**1997**

First export contract was concluded with Middle East partner regarding delivery of U650 exhaust mufflers

Becoming supplier for assembly line for Automobile Dacia

**2000**

Implementation of the quality system according ISO 9001/1995

**2001**

TESS CONEX products were certified by the National Institute for Vehicle Certification (RAR) according new legislation;

**2006**

EN ISO 14001:2005 (ISO 14001: 2004) Environmental certification was awarded

**2010**

new line of exhaust systems and electrostatic painting equipment was purchased

**2012**

new pressing line was purchased

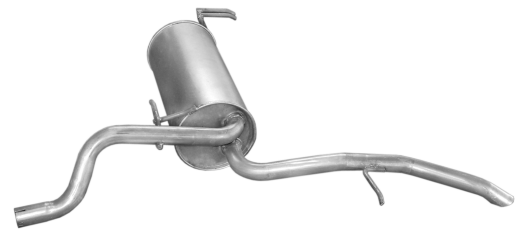
**PARTERS & SUPPLIERS**



## PRODUCT PORTFOLIO

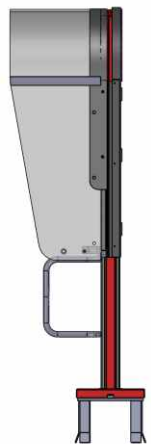
### Automotive industry

- ☑ aftermarket automotive body parts
- ☑ aftermarket exhaust systems
- ☑ OEM parts
- ☑ engine shields
- ☑ towing devices



### Industrial products

- ☑ Exhaust systems for industrial application
- ☑ Metal components for children car seats
- ☑ Metal frames for construction equipment
- ☑ Phone booths
- ☑ Custom made products made by pressing, punching, bending, rolling, welding



## PARTNERS



## SUPPLIERS



EINEN SCHRITT VORAUSS.







## METAL SHEET CUTTING

### Hydraulic CNC guillotine

Sheet type	sheet
Maximum width	2000mm
Maximum thickness	12 mm
Minimum thickness	0,5 mm

### Mechanical CNC guillotine

Sheet type	sheet / coil
Maximum width	4000 mm
Maximum thickness	6 mm
Minimum thickness	0,5 mm

### Automatic pipe cutting

Pipe type	stainless steel, low alloy steel
Maximum length	6000 mm
Maximum thickness	10 mm
Maximum diameter	100 mm



## AUTOMATIC FEEDING PRESS

Press strength - 130 Tf  
 Table size: 1000x640 mm  
 Cadence: 60 strokes /min

### Decoiler

Maximum coil width	450 mm
Coil max. exterior diameter	1400 mm
Coil max. interior diameter	450÷540 mm

### Feeder

Raw material width	450 mm
Raw material thickness	0,4÷2,00 mm
Max. stock cross section	900 m <sup>2</sup>
Feeding accuracy	0,05 mm







## CNC PRESS BRAKE - ABKANT CNC

Bending strength	90 Tf
Bending length	2500 mm
Maximum bending thickness	10 mm
Distance between columns	2150 mm
Processed materials	low alloy steel, stainless steel



## CNC PUNCH PRESS

Maximum force	30 Tf
Cadence	60 strokes/min
Raw material thickness	6 mm
Size of working table	2500x1250 mm
Operations	punching, drilling, marking, fining, flanging, small stamping







## BENDING, ROLLING, FLANGING

CNC pipe bending machine  
6 axes, booster, bending  $\varnothing$  max. 80x5mm  
square tube: 65x65x5 mm

Filter drilling CNC machine

CNC rolling machine

Pipe bending CNC machine

Case CNC longitudinal seaming machine

Sonometer

Case CNC pre-flanging machine

Dedicated software for muffler design

CNC Caps spinner machine



### Drilling forms

Ellipse	min. radius 60 mm	Trapeze	height 125 - 600 mm
Round	diameter 97- 650 mm	Stadium	length 125 - 650 mm

### Used pipes

Aluminized tube	$\varnothing$ 40 x 1,5 mm ÷ $\varnothing$ 60 x 2 mm
Low alloy steel pipe	$\varnothing$ 40 x 1,2 mm ÷ $\varnothing$ 60 x 2 mm





## PRESSING

### Light pressing - Mechanical presses

Type	Headwork stroke	Table size	Headwork size	Tooling max dim	Tooling min dim
63 Tf	150 mm	710x480	350x300	400x300x400	250x200
100 Tf	150 mm	990x690	550x350	600x400x400	400x300

### Heavy pressing - Mechanical presses

Type	Headwork stroke	Table size	Headwork size	Tooling max dim	Tooling min dim
150 Tf	220	1200x650	800x600	1000x600x400	800x600
160 Tf	200	2000x1250	1685x1000	1685x1000x500	200x300
250 Tf	250	2500x1250	2670x1000	2100x1000x500	250x200
315 Tf	165	1400x1400	900x900	900x900x600	200x300
400 Tf PP	200	1100x1600	800x800	800x800x700	200x300
400 Tf PP DE	250	1000x1000	800x800	800x800x700	200x300
630 Tf	320	1250x1250	800x800	800x800x700	200x300

### Heavy pressing - Hydraulic presses

Type	Headwork stroke	Table size	Headwork size	Tooling max dim	Tooling min dim
160 Tf	600	1000x800	700x700	700x700x650	400x400
160 Tf	700	1500x1400	1500x1400	1500x1400x700	400x400
250 Tf	700	1000x1000	1000x1000	1000x1000x700	300x300
400 Tf GP SE	1500	1200x1200	1200x1200	1500x1000x1000	350x350
400 Tf GP DE	1500	2500x1500	2500x1500	2500x1500x1000	300x300
1000 Tf	1500	1200x1000	1200x1000	1450x1000x650	350x350



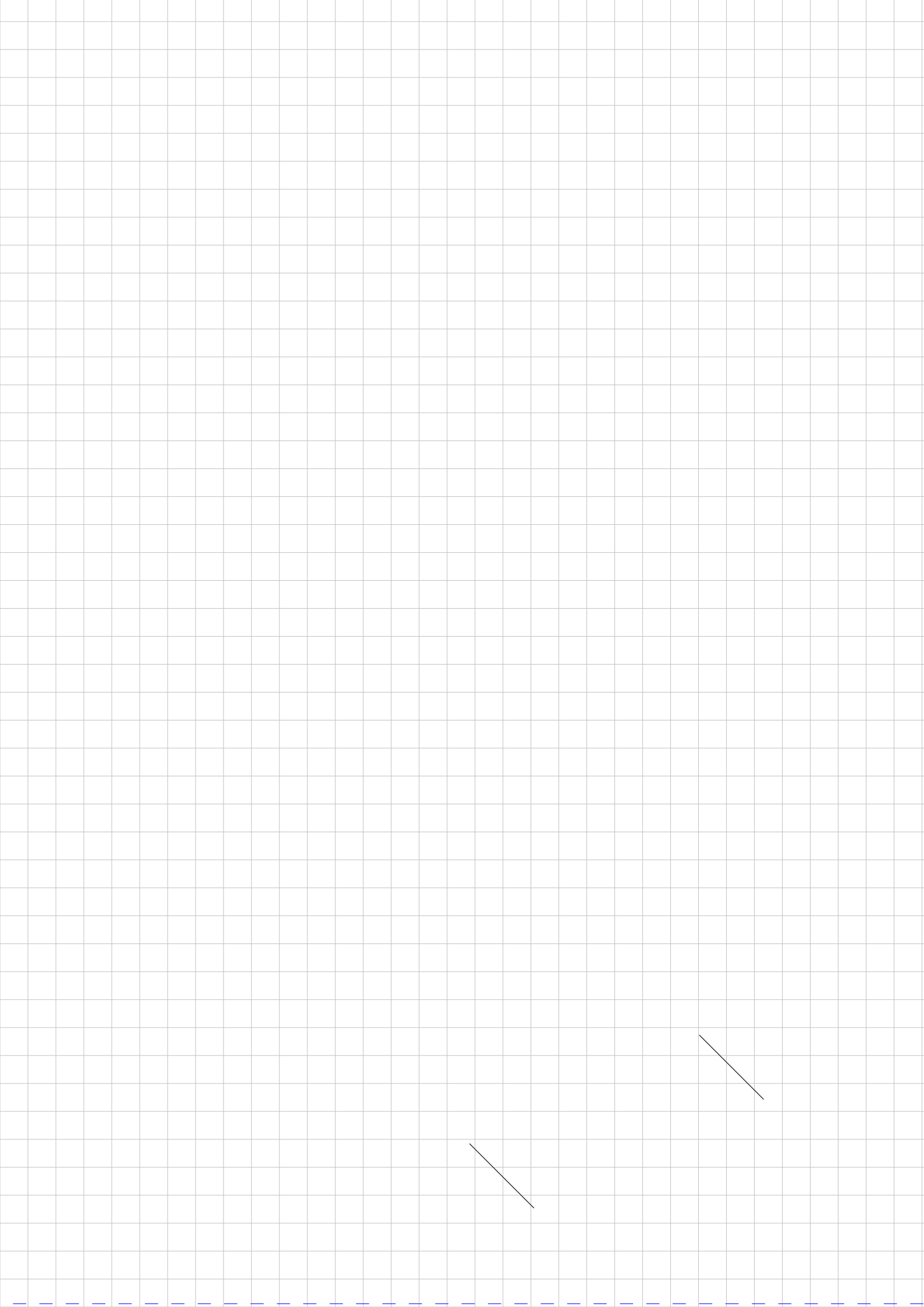




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REPERE AMBUTISATE PENTRU CARPATO

WARN  
No Smoking  
No Open Flame







## WELDING EQUIPMENTS

MIG-MAG synergistic and CMT welding equipments

Welding converters (welding with coated electrode)

Automatic equipment for linear welds

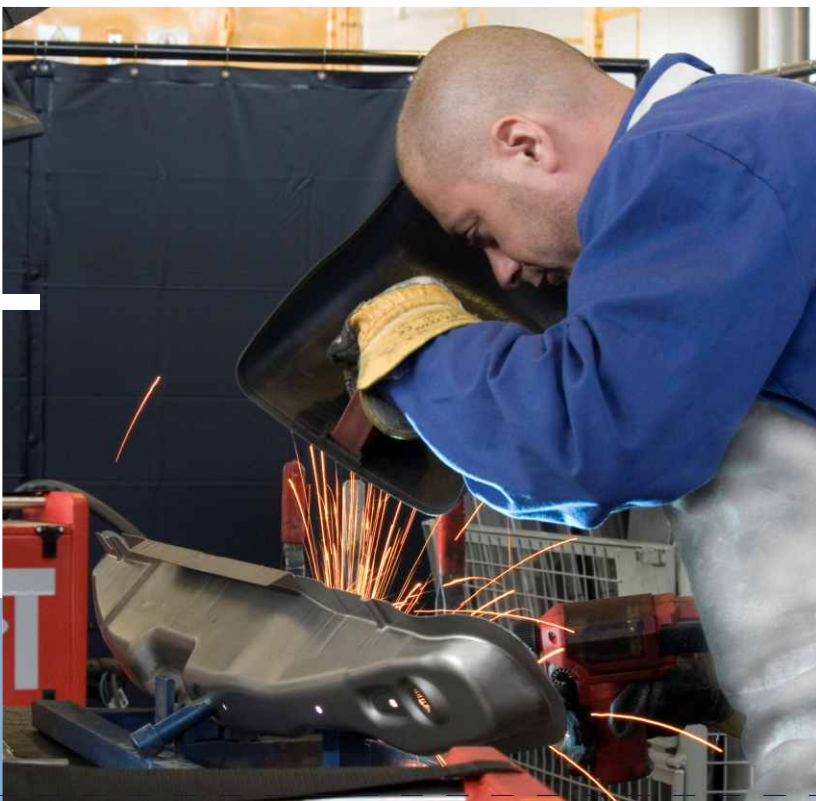
Spot welding equipments

### Welding technology

with coated electrodes (fine supertit, superbasics)

MIG, MAG, WIG

Pressure welding



## ELECTROSTATIC PAINTING

Maximum piece dimensions- (L x l x H) - mm	800 x 600 x 1700
Maximum piece weight / hook (kg)	75
Salt fog spray maximum resistance (h)	700
Conveyor speed (m/min)	0,5 ÷ 1,2
Paint type	powder
Forecasted volumes (m <sup>2</sup> /luna)	15.000 - 16.000

The technological process of painting comprises the following steps:

- ☑ surface preparations
  - ☑ pre-cleaning,
  - ☑ degreasing,
  - ☑ washing (industrial water),
  - ☑ iron phosphating,
  - ☑ washing (industrial water),
  - ☑ final wash (demineralised water),
  - ☑ spray (virgin demineralised water),
- ☑ drying (80 - 110° C);
- ☑ painting (2 posts);
- ☑ polymerization (180 - 210° C);

The technological process of surface preparation can be adapted to nano-ceramic technology.







## QUALITY POLICY

TESS CONEX goal is to be the best service provider for our customers. We can do that by:

- » carrying out agreements concluded with customers
- » delivering products and services promptly as agreed
- » fulfilling customer requests quickly and flexibly
- » acting on feedback from customers immediately
- » ensuring the development of our operations through a process of continuous improvement
- » ensuring premium knowhow through systematic training.

## CERTIFICATIONS

ISO 9001:2008, ISO 14001:2004, SR OHSAS 18001:2008

ISO TS 16949:2009 certificate since 2007 till 2010. The system is still working according ISO TS specifications





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