

# AMT ENGINEERING

AUTOMATION • MECHANICAL ENGINEERING • TECHNOLOGIES



## SHEET METAL PROCESSING EQUIPMENT CATALOGUE





# ROLLFORMING LINES

## LPRF Series

Roll forming Lines (mono) **LPRF** series are designed for manufacturing of only one type of corrugated profile (corrugated board, cassette profile, panels of prefabricated buildings, etc.) with a width of up to 1600 mm, thickness up to 3 mm, profile depth up to 250 mm. Maximum profiling speed - 40 m/min.



The lines can be equipped with flying scissors that provides the production capacity of 60 m/min, i.e. 20 sheets (4 m length) per minute.



Rollforming Lines (multy) **LPRF** series are designed for manufacturing of several types of corrugated profiles at one piece of equipment (profile depth from 8 mm up to 75 mm). Tool change is carried out by use of quick removable modules. Change-over time to move from one profile to another – 20 min. The lines can be equipped with flying scissors that provides the production capacity of 12 sheets (6 m length) per minute.

Rollforming Lines **LPRF** series are designed for manufacturing of metal tile «Monterrey», «Super Monterrey», «Kaskad», «Elit», etc. The production capacity is about 1,2...2 sheets (6 m length) per minute. When using lines with two stamps the production capacity will increase by 2 times.



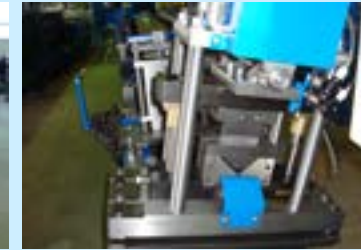
Rollforming Lines **LPEK** series are intended for manufacturing of roof elements such as «wind board», «angle», «ridge», «cornice plank» etc.



Rollforming Lines **LPKM** series are intended for manufacturing of roof elements such as «round ridge».



Rollforming lines **LPS** series are designed for manufacturing of siding-panels («ship board», «L-beam», «log», «beacon», «angle», etc.), decorative profiles, profiles for fixing plasterboard plates and other special profiles.



Rollforming Lines **LPA** series are intended for manufacturing of various reinforcing profiles (with perforations, knurling or without).

Rollforming lines **LPB** series are designed for manufacturing of beam type profiles, thermo profiles, boxes for wiring, guardrails, etc. By using modular tool design, the range of profiles can be considerably expanded. The line is adjusted for the production of another type of profile within 15 minutes.



Rollforming lines **LPP** series are designed for manufacturing of panels of different configurations (racking systems, linear and other front panels).

Rollforming lines **LPKP** series are designed for manufacturing of profiles for fixing front panels, facing of buildings, etc.

Rollforming lines **LPSHR** series are designed for manufacturing of profile type «splint rail».





## EQUIPMENT FOR PRODUCTION OF THE ELEMENTS OF RAINWATER SYSTEM

Rollforming Lines **LPKT** series are designed for manufacturing of pipes of round cross section of various diameters from 28 mm to 200 mm.



Rollforming Lines **LPKV** series are designed for manufacturing of gutters of round cross section of various diameters.



Bending Machines **MGKT** series are designed for manufacturing of corrugated round pipe bend with the required bending radius.



Rollforming Lines **LPPT** series are designed for manufacturing of pipes of rectangular cross section of different dimensions.



Rollforming Lines **LPZH** series are designed for manufacturing of gutters of rectangular cross section of different dimensions.



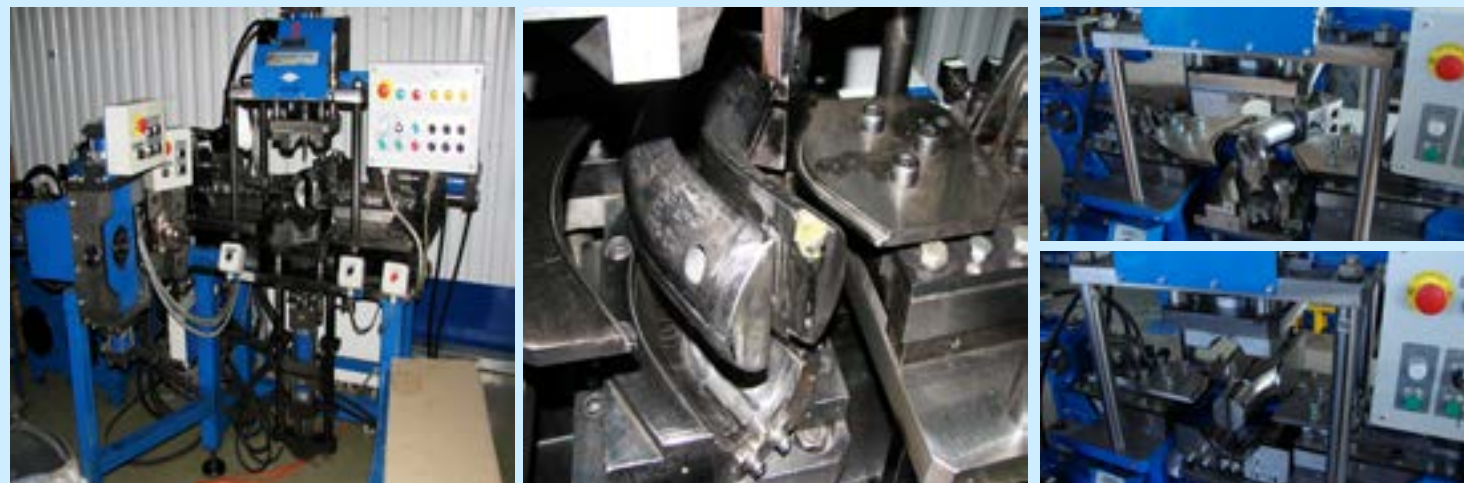
Bending Machines **MGPT** series are designed for manufacturing of corrugated rectangular pipe bend with the required bending radius.



### Stamps for the elements of rainwater systems



### Machines for funnel and pipe bend assemblage



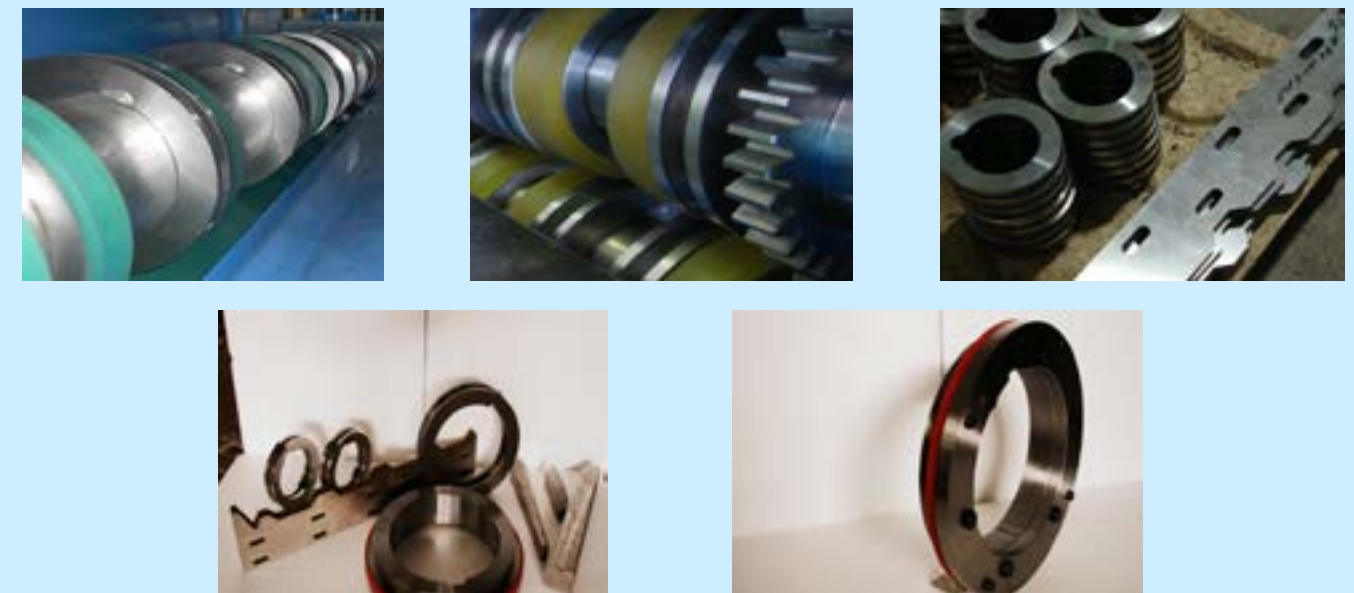
## SLITTING AND CUTTING-TO-LENGTH LINES

Slitting and Cutting-to-Length Lines are designed for longitudinal, transverse or longitudinal-transverse cutting of coiled sheet metal with widths up to 1500 mm and a thickness from 0.2 to 3.0 mm with zinc or plastic coating and speed up to 90 m/min.



### KNIVES AND GUILLOTINES FOR CUTTING

Knives and guillotines ensure cutting the material of the required thickness at the required speed saving their quality throughout the life. The list of knives starts from the guillotines for different rollforming lines to the disc knives for slitting and cutting-to-length lines.





## SPECIAL MACHINES AND SUPPORT EQUIPMENT

**Packaging machines** are designed for wrapping of packages of profiled products of different configuration by polymeric tape.



**Bending machines of MGPL series** are designed for bending sheet panels with a radius of 12 m to 100 m.

**Roller feeders UVP series** are designed to feed steel strip into a press with a maximum speed of 60 m/min.



**Perforating machines** are designed for making spherical deformation plots on the original strip by means of rotation in order to increase its rigidity.

**Flying scissors** integrated in rollforming lines are designed for cutting steel profiles to pieces without stopping.



**Conveyors and stackers** are designed for stacking sheets in a pack and issuing them along and across the axis of profiling.



## DECOILERS

**Decoiler RG series**  
(hydraulic coil clamping)  
Maximum load capacity – 12 ton  
Maximum unwinding speed – 50 m/min.



**Decoiler RM series**  
(electromechanical coil clamping)  
Maximum load capacity – 8 ton  
Maximum unwinding speed – 40 m/min.



**Coil lift chairs**  
Decoilers are equipped with coil lift chairs for coil handling.



**Decoiler RP series** (driving, with manual coil clamping)  
Maximum load capacity – 5 ton  
Maximum unwinding speed – 50 m/min  
Decoilers can have a rotary design and dual console version.



**Decoiler R series** (non-driving, with manual coil clamping)  
Maximum load capacity – 2 ton  
Maximum unwinding speed – 30 m/min.



## AUTOMATIC CONTROL SYSTEMS

The purpose of the automatic control systems is automation of profiling and cutting processes and correction of their parameters depending on material coating, hardness and thickness.

Automatic control systems allow to control the operation of the line in online mode and perform remote diagnostics.

Use of components produced by such world-famous manufacturers as Mitsubishi, Omron, Hitachi, Siemens and Allen-Bradley in our automatic control systems allows AMTEngineering to produce world-class equipment.





AMTEngineering specializes in design, engineering and manufacturing of equipment for the metal-working industry.

AMTEngineering's floor space, including its engineering center, is about 8000 square meters. At present the company employs nearly 190 people (including 76 design engineers). Many years of research activities and design developments are reflected in the high quality of our equipment. Since the company started operations in 1999, we have received 42 patents for various types of equipment and special tools. Over the years of successful operation AMTEngineering has assisted its customers to increase profitability and discover new business opportunities. Our main goal is to meet and exceed our customers' expectations and become the most advanced and respected metalworking equipment supplier worldwide.

The equipment manufactured by «AMT engineering» is successfully working at the factories of some leading enterprises of the world: "Severstal", "Gorky Automobile Plant", "Kama Automobile Plant", "Exergia", Vologda "Building Constructions and Road Machines" plant, Samara Plant «Electroschit», "Novolipetsk Metallurgical Plant", "Dimitrovgradsky Plant of Light Steel Profiles", the Group of companies «Metal profile» (all Russian), "Minsk Tractor Plant", "Mogilev Plant of Elevator Engineering", "Belarusian Potash Company" (all Belarusian), Chernigov Plant «Avtodetal», "Vinnitsa Plant of Tractor Units", Kirovogradsky Plant "Gidrosila" (all Ukrainian), "DANAHER Tool Group", "Metaldyne" (both USA), "American Axle & Manufacturing" (Mexico) and others.

AMT engineering has produced over 400 production lines for various types of profiles, more than 100 lines for longitudinal and transverse cutting of rolled metal, over 80 automatic lines for special purposes.

#### production capacity



#### produced equipment



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