



Projektovanje i proizvodnja linija za profilisanje i rasecanje limova  
Designing and manufacturing of rollforming and slitting lines





**Kvalitet. Tradicija. Poverenje.**  
Quality. Tradition. Trust.

Metalprodukt je porodična firma koja se bavi projektovanjem i proizvodnjom mašina za profilisanje i rasecanje lima. Firma METAL-PRODUKT postoji od 1991. godine i lider je u ovoj oblasti na tržištu Balkana.

Mašine proizvodimo po vlastitim projektima, imajući kao prvenstveni cilj zadovoljenje zahteva klijenata kojima omogućavamo da proizvode na najsavremeniji način uz smanjenje troškova i korišćenje najsavremenije tehnologije. Pored toga, brinemo o bezbednosti operatera koji će raditi na našim mašinama i o zaštiti životne sredine.

Firma METAL-PRODUKT od svojih početaka insistira na unapređenju kvaliteta svojih proizvoda i usluga kroz poboljšanje kadra i uz neprestano praćenje razvoja na polju modernih tehnologija. Trenutno ima 35 zaposlenih a planom razvoja predviđeno je 50 radnika. Svi projekti za naše linije izrađeni su u projektnom birou Metal-produkta i provereni pomoću licenciranog softvera za profilisanje limova UBECO-PROFIL.

U stanju smo da izađemo u susret svim zahtevima naših klijenata iz oblasti građevinarstva i automobilske industrije. Svaka mašina je prototip koji se pravi za određenu namenu.

Provera kvaliteta profilisanog lima izvodi se u saradnji sa Mašinskim fakultetom u Kragujevcu (Centar za virtuelnu proizvodnju).

Metalprodukt is a family owned company engaged in designing and manufacturing of plate rollforming and slitting machinery. The company was founded in 1991. and is the leader in this industry in the Balkan market.

We manufacture based on our own designs having fulfillment of customers' requirements primary objective, enabling them to produce in the most contemporary way, with reduced expenses and employing the most modern technology. We also take great care about the safety of operators who will be operating our machines, and environment.

METAL-PRODUKT Company has been insisting from its founding on improving the quality of its products and services through personnel improvements and keeping up with technological advances. Currently it employs 35 people which, according to development plan, should rise to 50. All designs for our products are made in our Design Department and verified by licensed plate forming software UBECO-PROFIL.

We are ready to meet all requirements of our clients in the area of construction and car industry. Every machine we produce is a prototype built for a specific application.

Quality of formed plates is verified in cooperation with the Faculty of Mechanical Engineering in Kragujevac (Virtual Manufacturing Network).



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#### **Linije za panelne limove**

Lines for panel plates



#### **Linije za profilisanje spiralnih i kutijastih klima kanala, kao i linije za profilisanje prirubnica klima kanala**

Line for the profiling of the spiral and the box-air channel, as well as a line for the profiling of air channel flange



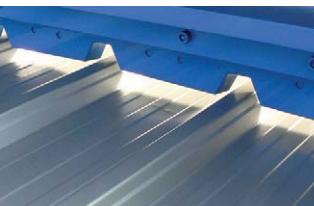
#### **Linije za profilisanje samouklapajućeg lima - klik**

Self-fitting plate forming machinery - click



#### **Linije za profilisanje horizontalnog oluka**

Rollforming gutter lines



#### **Linije za profilisanje trapeznog lima i kombinovane sratne linije**

Lines for profiling of trapezoidal sheet and combined double deck lines



#### **Linije za proizvodnju griljato profila**

Lines for the production of griljato profiles



#### **Linije za profilisanje vertikalnog oluka**

Rollforming lines downpipes



#### **Linije za proizvodnju snegobrana**

Lines for the production of snow guards



#### **Linije za profilisanje fasadnih profila**

Facade profile forming lines



#### **Linije za proizvodnju sigma profila**

Lines for the production of sigma profiles



#### **Linije za proizvodnju stubova za ograde i vinograde**

Lines for the production of pillars for fences and vineyards



#### **Linija za podužno i poprečno rasecanje lima - sliter**

Longitudinal and transverse plate slitting machine



#### **Linije za profilisanje dampe i $\Omega$ lajsne**

Rollforming Lines - Facade Plates and  $\Omega$  Profiles



#### **Linije za profilisanje sinusoide**

Rollforming Lines - Sinus Profile



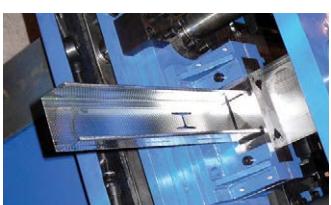
#### **Linije za profilisanje U-C-Z nosača**

Lines for forming of U-C-Z holders



#### **Linija za profilisanje lima - slemenjak**

Rollforming Lines - Pantile



#### **Konzolna linija sa promenljivim alatima i noževima za profilisanje U i C nosača za suvu gradnju**

Rollforming line with replaceable tools for U and C profiles for dry construction



#### **Linije za profilisanje crep ploče**

Rollforming Lines for Roof Tiles



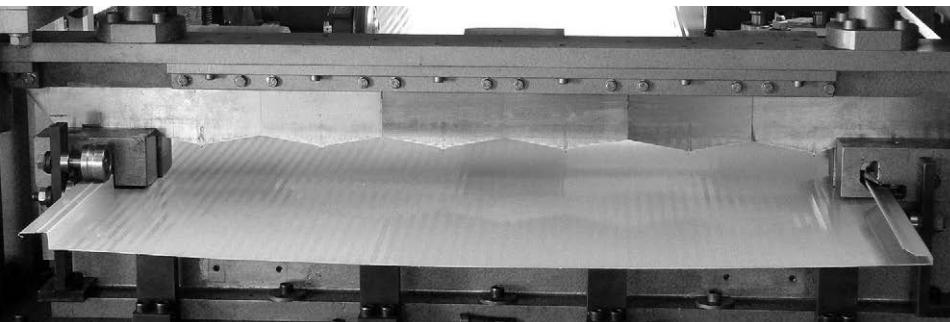
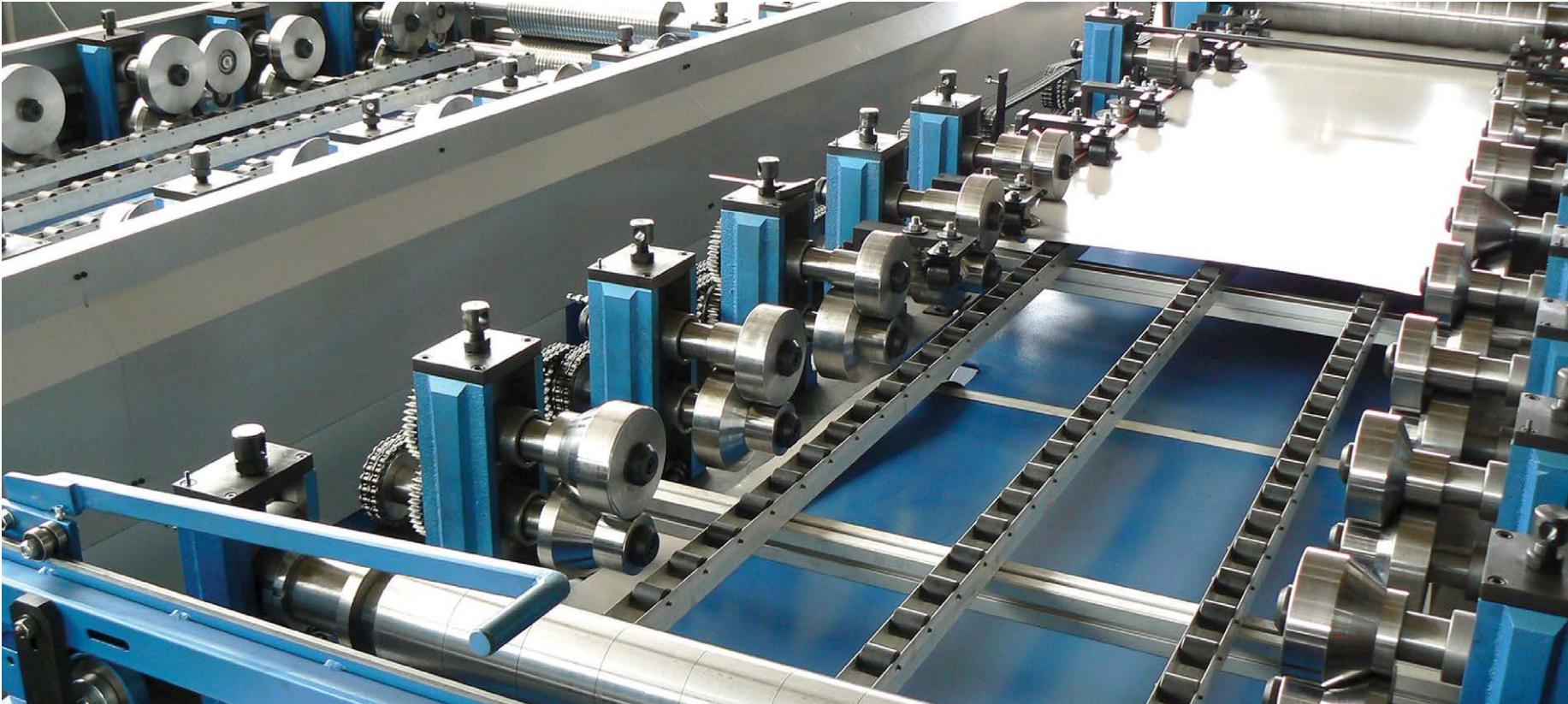
#### **Linije bez promenjivih alata za profilisanje U i C nosaca za suvu gradnju**

Rollforming line with fixed tools for U and C profiles for dry construction



#### **Odmotači - automatski, hidraulični, konzolni sa kolicima, nosivosti 5 t - 15 t**

Decoilers - Automatic, hydraulic, bracket with trolley, capacity 5 t - 15 t



## Linije za panelne limove

Lines for panel plates

Linije za proizvodnju panelnih limova različitih oblika sa mogućnošću ugradnje u kontinualne i diskontinualne linije za proizvodnju sendvič panela.

Lines for production of panel plates of various shapes with possibility of fitting in continuous and discontinuous lines for production of sandwich panels.





## Linije za profilisanje spiralnih i kutijastih klima kanala, kao i linije za profilisanje prirubnica klima kanala

Line for the profiling of the spiral and of the box-air channel, as well as a line for the profiling air channel flange

Proizvodnja linija za spiralne kanale svih standardnih prečnika kao i kutijaste klima kanale u dimenzijama stranica prema standardu ili specijalnom zahtevu. Proizvodnja linija za prirubnice klima kanala, svih oblika i dimenzija kao i alata za ugaone spojnice.

Production of lines for spiral ducts of all of standard diameters as well as box-air channels in size of sides, according standard or to special request. Manufacturing of lines for air conditioning duct flanges of all shapes and dimensions, as well as of tools for angle couplers.



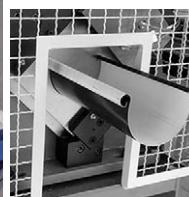
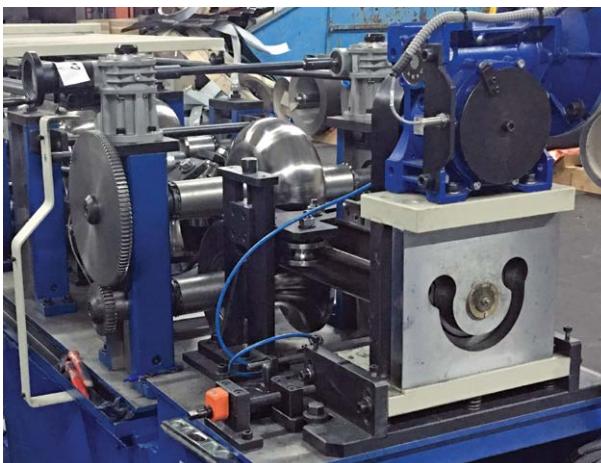


## Linije za profilisanje horizontalnog oluka

Rollforming lines gutter

Linije za proizvodnju horizontalnih oluka, svih oblika dimenzija, za sve vrste materijala, posebno prilagođene kvalitetu materijala DX51. Sečenje može biti hidraulično ili elektromotorno bez ostatka otpada.

Lines for production of horizontal rain gutters of all forms and dimensions, for all kinds of materials, specially customized to DX51 material quality. Cutting can be hydraulic or electromotoric without the rest of the waste.





## Linije za profilisanje vertikalnog oluka Rollforming lines downpipes

Linije za proizvodnju vertikalnog oluka svih dimenzija ( $\varnothing$  80, 100, 120), prilagođene svim vrstama materijala a posebno kvalitetu materijala DX51. Mogu biti u izvedbi sa rotacionim ili hidrauličnim secenjem, potpuno automatske sa putujućim ili stabilnim makazama. Proširivanje se može raditi na radnom delu mašine, preko automatskog prihvatanog stola ili sasvim zasebno u zavisnosti od zahteva. Podmazivanje setova (alata) je reverzibilno.

Lines for the production of vertical gutter of all sizes ( $\varnothing$  80, 100, 120), adapted to all types of materials especially to DX51 material quality. They can be equipped with a rotating or hydraulic cutting, fully automatic flying cutting or fix cutting. Expanding can be run on the working part of the machine, through the automatic reception table or quite separately depending on the requirements. Lubrication of sets (tools) is reversible.





## Linije za profilisanje fasadnih profila

### Facade profile forming lines

Linije za proizvodnju fasadnih profila različitih oblika i dimenzija. Širina ulazne trake je 417 mm a tehnološka brzina kretanja materijala je 20 m/min. Profilacija lima vrši se zajedno sa zaštitnom folijom koja se skida nakon montaže, kako bi se izbegla bilo kakva oštećenja krajnjeg proizvoda.

Line for production of facade plates of various forms and dimensions. Inlet strip width is 417 mm, and material processing speed is 20 m/min. The plate is formed complete with protection foil which is removed after assembling in order to avoid any damage of the final product.



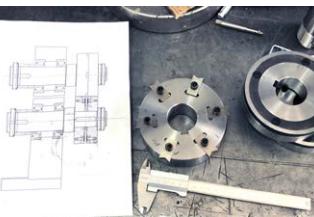
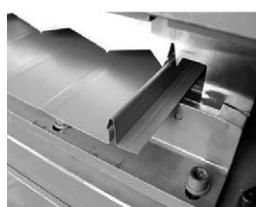
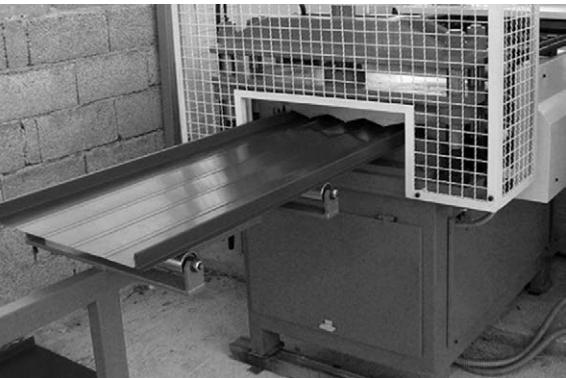


## Linija za profilisanje lamperije i međulajsne Paneling and interlining pro line.

Širina ulazne trake može biti 333 mm ili 417 mm. Na liniji se proizvode i lamperija i međulajsna.

The width of the input sheet can be 333 mm or 417 mm. Both the paneling and interlining are produced on the line.

The cutting of both profiles is profiled to the appropriate set length.



## **Linije za profilisanje samouklapajućeg lima - klik**

### Self-fitting plate forming machinery - click

Profil je samouklapajući fasadni i krovni. Širina ulazne trake je 625 mm a tehnološka brzina kretanja materijala je 15 m/min. Profil može biti sa mikroprofilacijom ili sa određenim brojem plijavica po izboru. Linija na sebi nosi rotirajući alat za bušenje otvora za vijak, što značajno olakšava montažu profila.

The profile is self-fitting intended for roofs and facades. Inlet width is 625 mm and designed material forming speed is 15 m/min. The line carries the rotating tool for drilling holes for screw, which significantly simplifies the installation of profiles.



## Linije za profilisanje trapeznog lima

### Lines for profiling of trapezoidal sheet

Proizvodnja linije za trapezne limove prilagođene različitim širinama ulazne trake i različitim debeljinama lima. Tehnološka brzina kretanja materijala je oko 20 m/min a linije se odlikuju malom potrošnjom energije.

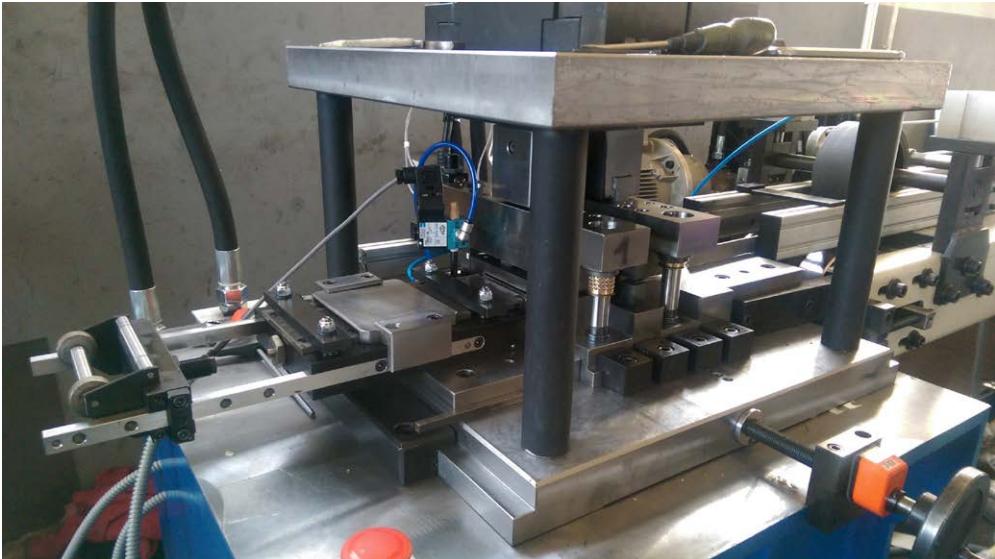
Production of line for trapezoidal sheet adapted to different widths of the input tape and different thicknesses of sheet. Technological material speed is about 20 m/min and the lines are characterized by low consumption of energy.



## Kombinovane spratne linije Combined double deck lines

Kombinovane spratne linije (duple linije) mogu biti izvedene u svim kombinacijama srodnih profila kao što su trapez, crep ploča i sinusna ploča.

Combined double deck lines can be performed using any combination of the related profile such as a trapezoidal, roof tile and sinus profile.

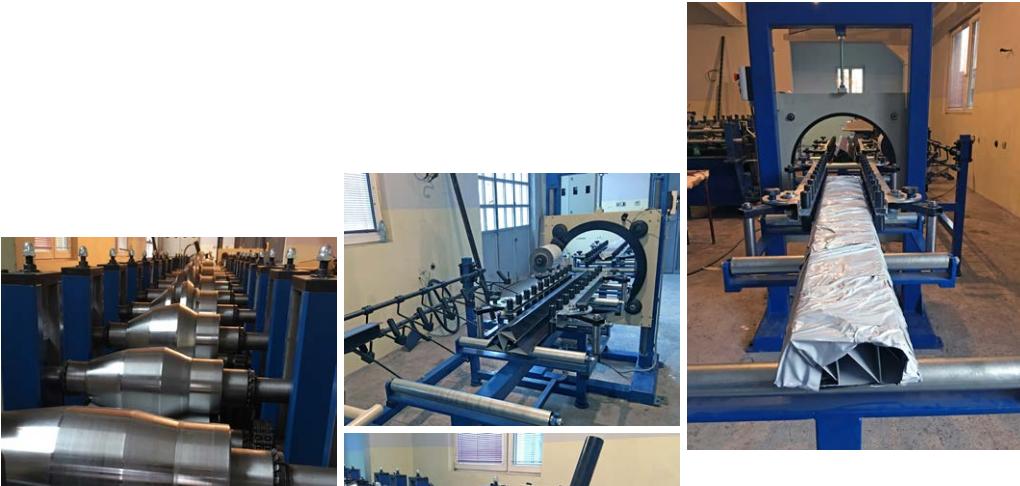
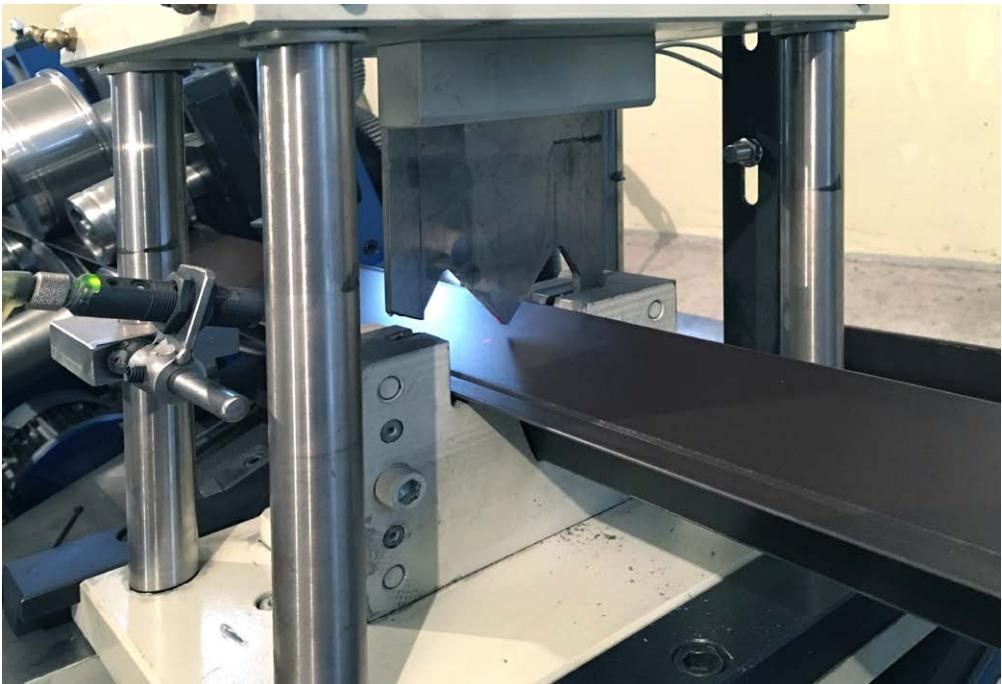


## Linije za proizvodnju griljato profila

Lines for the production of griljato profiles

Linije za proizvodnju profila za spštene plafone. Prednost ovog profila je u tome što omogućava lako postavljanje viseće rasvete u objektima različite namene (aerodromi, kongresne dvorane, fudbalski stadioni, tržni centri). Na jednoj liniji je omogućena proizvodnja i ženskog i muškog profila jednostavnom zamenom alata u presi. Linija može biti izvedena i u kombinaciji sa UCD profilima za suvu gradnju.

Lines for the production of profiles for lowered ceilings. The advantage of this profile is that it allows easy setup of hanging lighting in buildings of different purposes (airports, conference halls, football stadiums, shopping centers). On one line the production of the male and female profiles is enabled with a simple tool replacement in the press. Line can also be executed in the combination with the UCD profiles for dry construction elements.

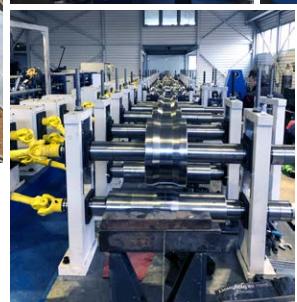


## Linije za proizvodnju snegobrana

Lines for the production of snow guards

Linije za proizvodnju snegobrana za različite tipove krovova. Mogu biti različitih dimenzija u zavisnosti od širine ulazne trake. Profilno sečenje se izvodi na kraju mašine a laserski je navodeno radi veće preciznosti. Sastavni deo linije čini i pakerica za lakše uvijanje i pakovanje dobijenih profila.

Lines for the production of snow guards for different types of roofs. They can be different sizes depending on the width of the input strip. Profiled cutting is performed at the end side of the machine and it is laser guided for greater precision. An integral part of the line is packing system for easier wrapping and packing of the obtained profiles.



## Linije za proizvodnju sigma profila

### Lines for the production of sigma profiles

Linije za proizvodnju sigma profila različite širine i visine stranice profila, debljine do 3 mm koji se koriste pri izgradnji industrijskih objekata i skladišta.

Na samoj liniji se nalazi alati za probijanje različitih tipova otvora na dnu profila i na stranici radi lakše montaže. Brzina linije je do 10 m/min

Lines for the production of sigma profiles of different width and height of the profile edge, with thickness of 3 mm, which are used in the construction of industrial buildings and warehouses.

On the line itself, there are tools for punching of different types of openings in the bottom of the profiles and on the edge for easier mounting.

The line speed is up to 10 m/min



## Linije za proizvodnju stubova za ograde i vinograde

### Lines for the production of pillars for fences and vineyards

Linije koje su pre svega namenjene za proizvodnju vinogradarskog stuba. Na liniji se nalaze alati za proizvodnju zakačke za žicu i otvora. Profilisanje se vrši sa sve zakačkom, a sečenje je profilno na kraju linije. Debljina profila može ići do 2 mm.

Lines are primarily intended for the production of the vineyard pillars. On the line itself there are tools for the production of wire hooks and openings. Profiling is done with the hook and cutting of the profile is at the end of the line. The thickness of profile can go up to 2 mm.

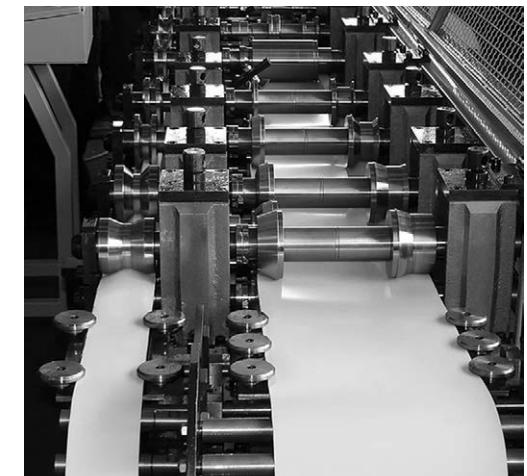


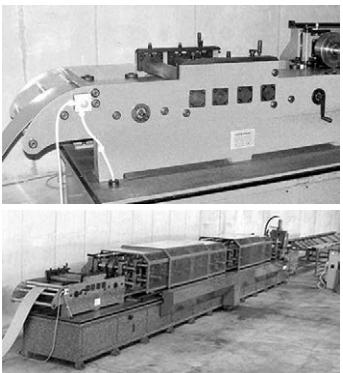
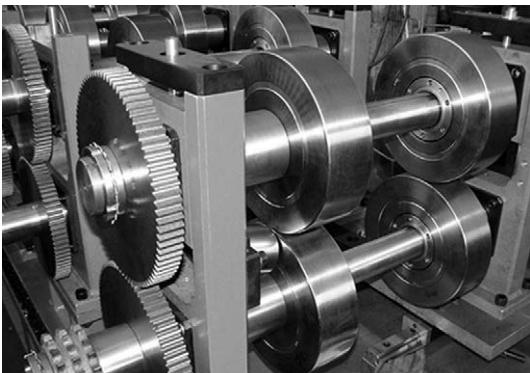
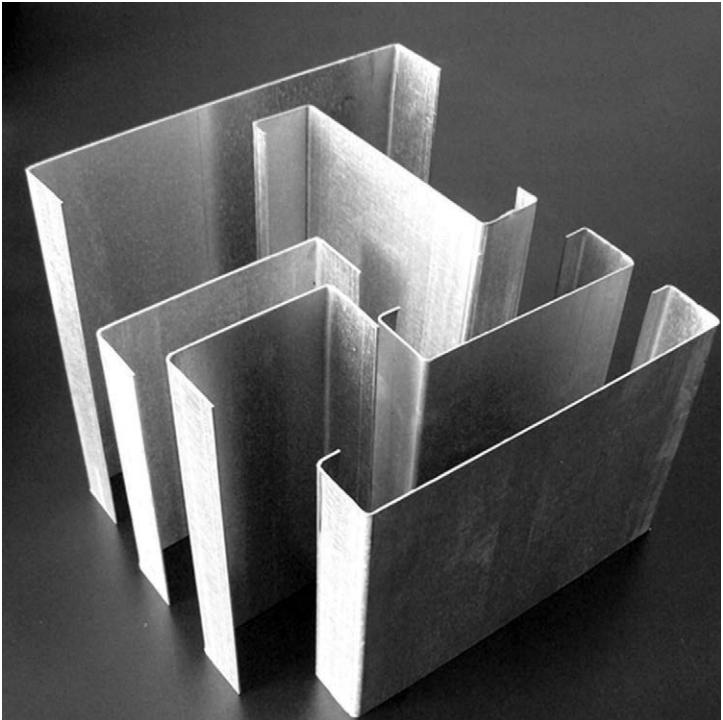
## Linije za profilisanje dampe i $\Omega$ lajsne

Rollforming Lines - Facade Plates  
and  $\Omega$  Profiles

Pruža mogućnost automatskog izbora širine profila od 110 do 400 mm. Širina ulazne trake varira od 200-495 mm a debljina zavisi od vrste materijala. Na mašini se mogu nalaziti alati koji rade pripremu profila kao i savijanje čela profila sa ciljem da se dobije profil u obliku kasete.

Offers possibility of automatic selection of plate width between 110-400 mm. Inlet width varies between 200-495 mm and thickness depends on kind of material. A tools that are used for preparation of profiles, as well as bending of profile forehead, in order to obtain a cassette form profile, can be inserted on the machine.





## Linije za profilisanje U-C-Z nosaća Lines for forming of U-C-Z holders

Linije za proizvodnju U-C-Z nosaca razlicitih debljina i dimenzija koji se koriste za izgradnju industrijskih objekata i stambenih jedinica. Linija je dizajnirana tako da se na njoj moze raditi razlicit broj U-C i Z profila bez zamene alata. Takođe softver je prilagođen krojnim listama samih objekata i moze izraditi do 1000 razlicitih duzina profila.

Line for production of U-C-Z girders of various thicknesses and dimensions, used for construction of industrial facilities and residential units. The line is designed for production of various numbers of U, C, and Z profiles without exchanging the tools. Also, its software is adjusted to cutting lists of the facilities and can prepare up to 1000 different profile lengths.



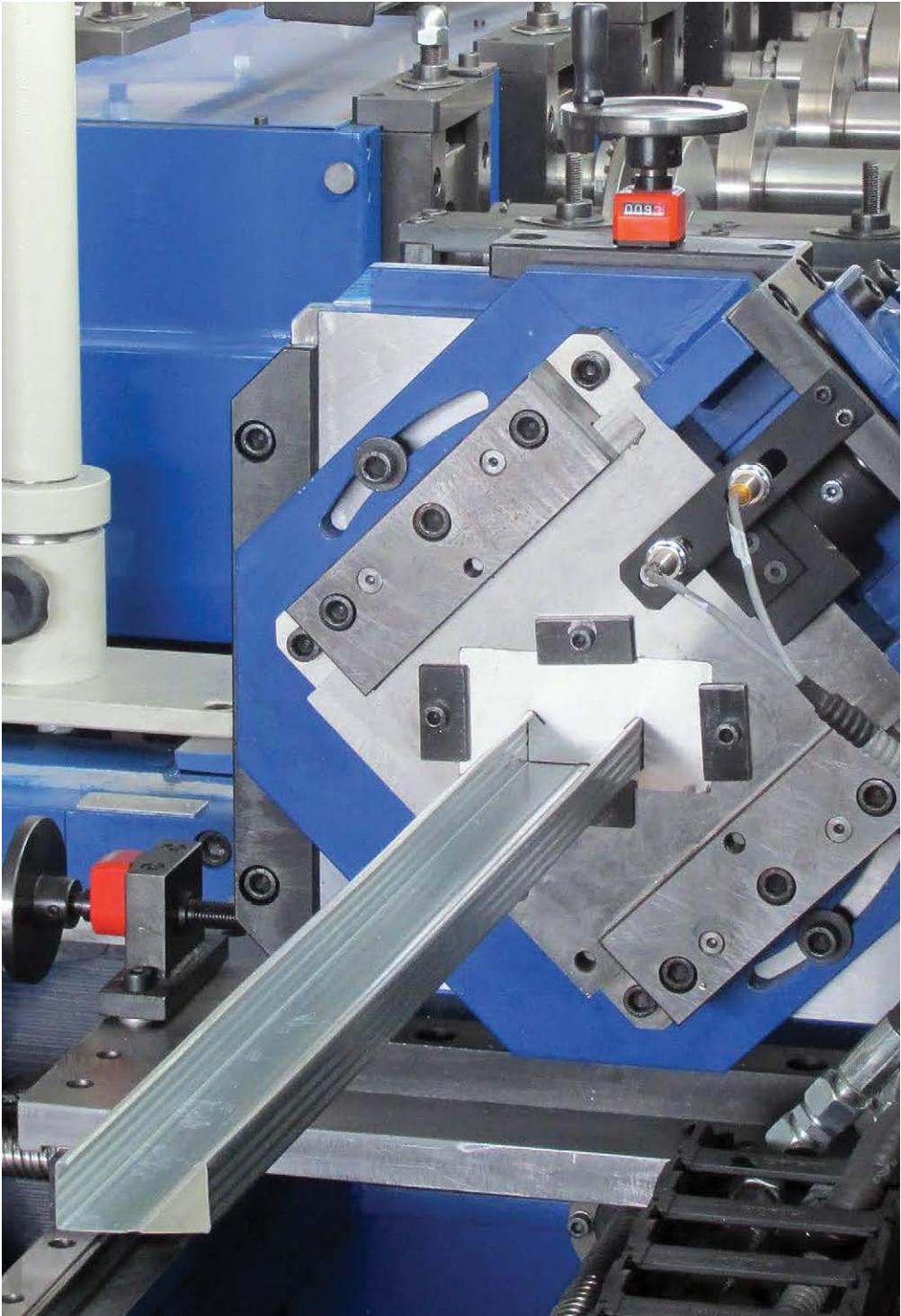
## Linija za profilaciju C kasete

### C cassette profiling line

Na liniji se nalaze alati za probijanje otvora na dnu i na bočnim stranama kasete. Linija je prilagođena proizvodnji aluminijumske kasete maksimalne debljine 1mm a u slučaju da je materijal crni ili pocinkovani lim, debljina materijala može biti i veća u skladu sa zahtevom. Sečenje je profilno i vrši se na kraju linije.

There are tools on the line for punching holes in the bottom and on the sides of the cassette. The line is adapted to the production of an aluminum cassette with a maximum thickness of 1 mm, and in case the material is black or galvanized sheet metal, the thickness of the material can be higher in accordance with the requirements. The cutting is profiled and is done at the end of the line.





## Konzolna linija sa promenljivim alatima i noževima za profilisanje U i C nosača za suvu gradnju

Rollforming line with replaceable tools for U and C profiles for dry construction

Linije za proizvodnju profila koji se koriste u suvoj gradnji sa i bez putujudh makaza, promenljivim alatima, noževima i presama za probijanje "H" i 08 otvora. Postoji mogućnost izrade duple linije jedna pored druge.

Lines for production of profiles used in dry construction with or without travelling cutter, with replaceable tools, knives and H/08 holes punching presses. Possibility of manufacturing of double parallel lines.



## **Linije bez promenjivih alata za profilisanje U i C nosaca za suvu gradnju**

Rollforming line with fixed tools for  
U and C profiles for dry construction

Linije za proizvodnju profile koji se koriste u suvoj gradnji. Na sebi imaju tri uvodna stola za tri razlike ulazne trake tako da nema zamene alata prilikom profilacije. Profilne makaze kao i prese za probijanje Ø 6 i H otvora mogu biti putujuce pomocu servo motora ili mogu biti u stabilnom radu. Tehnoloska brzina kretanja materijala može biti do 60 m/min bez probijanja otvora i do 40 m/min sa probijanjem otvora.

Line for production of profiles which are used in dry construction. They include three feeding tables for three different input strips, eliminating need for exchange of tools during forming. Profiled cutters and punching presses for Ø 6 holes and H slots can be flying, driven by servo motor, or fixed. Material processing speed can be up to 60 m/min without perforation and evenly 40 m/min with a slot perforation.

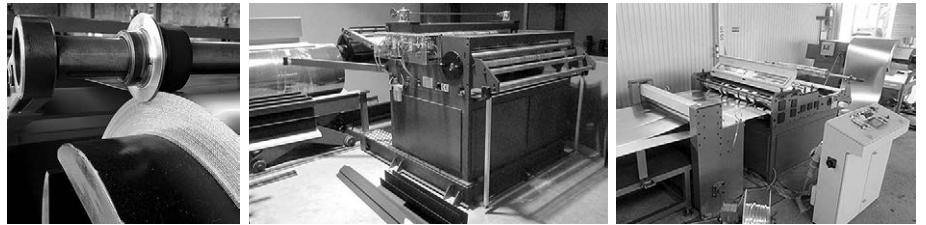


## Linija za profilisanje nosaca klima filtera

Nosači mogu biti kvadratnog ili pravougaonog oblika, pri čemu se dimenziije zadaju preko komandnog pulta. Na liniji se mogu raditi tri standardna tipa nosača: U 25, U 48 i U 95 različitih dimenzija (a x b). Linija sadrži servo pogone koji garantuju preciznost rada i brzinu profilacije. Namena nosača je prevashodno za vrećaste filtere koji imaju primenu u medicini (bele sobe), auto industriji, kao i u raznim tipovima fabričkih postrojenja.

## Air conditioning filter bracket profiling line

The brackets can be square or rectangular in shape, with the dimensions being set via the control panel. Three standard types of brackets can be made on the line: U 25, U 48 and U 95 of different dimensions (a x b). The line contains servo drives that guarantee precision operation and profiling speed. The purpose of the bracket is primarily for bag filters that have applications in medicine (white rooms), the automotive industry, as well as in various types of factory plants.

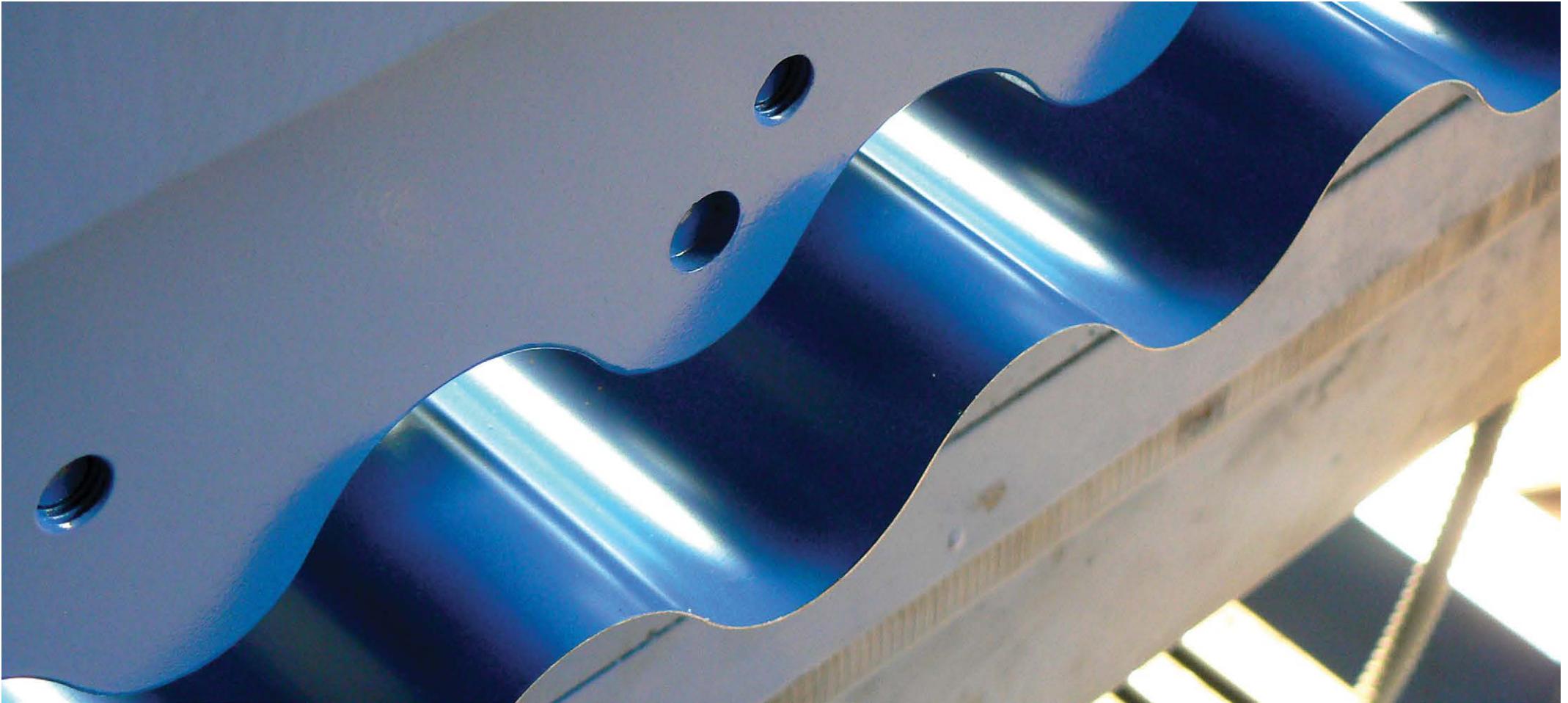


## Linija za podužno i poprečno rasecanje lima - sliter

Longitudinal and transverse plate slitting machine

Linija se sastoji od odmotača sa kolicima nosivosti 5-12 t lima, slitera, ekscentar makaza za poprečno sečenje, malog namotača sa kompenzatorom, velikog kompenzatora, namotača sa kolicima i upravljačkog pulta. Projektovana debljina lima je od 0.5-3 mm, a širina ulazne trake može varirati do 1500 mm. Tehnološka brzina kretanja materijala: do 50 m/min.

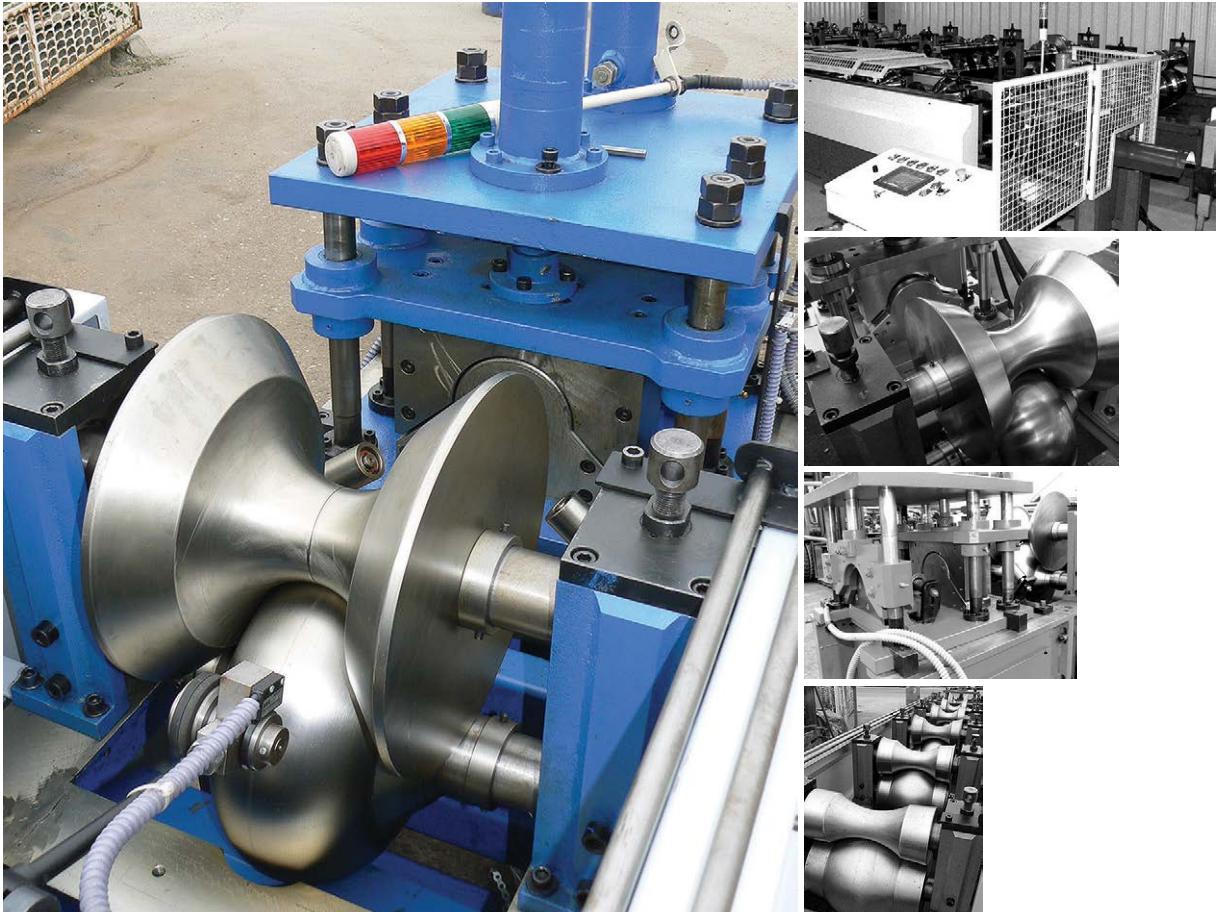
The line consists from a coil unwinder with 5-12 tons capacity trolley, slitter, cam cutter for transverse cutting, small winder with compensator, tall compensator, winder with trolley and control dashboard. Designed plate thickness is between 0.5 and 3 mm, and inlet strip width can vary up to 1500 mm. Material processing speed is up to 50 m/min.



## **Linije za profilisanje sinusoide** Rollforming Lines - Sinus Profile

Proizvodnja linija za sinusoidne profile, različitih valova i visina. Postoji mogućnost izrade i linije u dva nivoa u kombinaciji sa trapeznim profilom.

Manufacturing of lines for corrugated profiles of various waves and height. Possibility of manufacturing of double decked line in combination with trapezoid profile.



## Linija za profilisanje lima - slemenjak

### Rollforming Lines - Pantile

Proizvodnja linija za slemenjak koji se može ugrađivati kako na trapezne tako i na krovove od crep ploče.

Manufacturing of lines for ridge caps that can be fitted both to trapezoid and tile roofs.



## Linije za profilisanje crep ploče

### Rollforming Lines for Roof Tiles

Proizvodnja linija za crep ploču sa promenljivim korakom i različitim visinama profila. Tehnoloska brzina kretanja materijala može biti do 12 m u minuti.

Manufacturing of lines for tile plates with variable pitch and various profile heights. Forming speed goes up to 12 m per minute.



## Odmotači - automatski, hidraulični, konzolni sa kolicima, nosivosti 5 t - 15 t

Decoilers - Automatic, hydraulic, bracket with trolley, capacity 5 t - 15 t

Odmotači su dostupni od 5 do 15t. Svi odmotači imaju kretanje unapred i unazad.

Decoilers are available with capacity between 5-15 t. All decoilers rotate both forwards and backwards.





## Prihvati stolovi - automatski, sa kolicima za izvlačenje profila

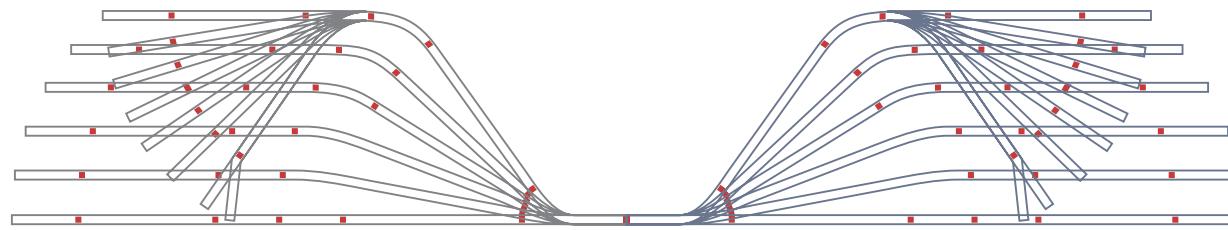
Stackers - automatic,  
with profile trolley

Prihvati stolovi su dostupni u odgovarajućim dužinama, u zavisnosti od tipa linije.  
Takođe se mogu koristiti kao univerzalni (za više linija sa istom visinom sečenja profila),  
linije u jednom nivou, kao i za spratne linije.

Stackers are available in appropriate lengths, depending on the type of line.

They can also be used as universal (for several lines with the same cutting height of profiles), single lines and double deck lines.





**Metalprodukt**