

A blurred background image showing a worker in a blue protective suit welding inside a large metal pipe, with bright sparks flying from the welding torch.

Transportna tehnika
Conveying Technology

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Promid d.o.o. osnovan je 1996. godine za proizvodnju transportne opreme i drvene galanterije (drvenih karniša). Daljnjim razvojem 2004. godine Promid d.o.o. preuzima firmu Dušak d.o.o. koja proizvodi istu opremu od 1990. godine i time postaje značajan proizvođač transportne opreme.

Imamo vlastiti konstrukcijski biro, proizvodnju, montažu i servis tako da nudimo kompletne rješenja unutarnjeg transporta (ključ u ruke). Proizvodnju smo opremili svim potrebnim strojevima i uređajima što nam omogućava da sami proizvodimo kompletну opremu koju nudimo (osim pogona, transportnih traka i ležajeva). Na taj način držimo visok nivo kvalitete izrade naših proizvoda i u potpunosti ispunjavamo ugovorene rokove.

Proizvodimo za sve industrijske grane, a najviše za prehrambenu (Ledo d.d. Zagreb), duhansku (TDR d.o.o. Kanfanar - Rovinj) industriju ambalaže (Hartmann d.o.o. Koprivnica), drvnu (Spin Valis d.d. Požega) te za proizvodnju drvenih peleta (Pelet grupa d.o.o. Novska). Preko 50% proizvodnje izvozimo, a najviše na tržište Austrije.

Promid d.o.o. was founded in 1996 for the production of conveying equipment and wooden accessories (wooden carnations). With further development in year 2004 Promid d.o.o. takes over the company Dušak d.o.o. which produces the same equipment since 1990 and thus becomes a significant manufacturer of conveying equipment.

We have our own construction bureau, production, assembly, installation on site, and after sales service so we offer complete solutions for interior transport. Our production hall is equipped with all the necessary machines and devices, which enables us to produce the complete equipment we offer (except for drives, conveyor belts and bearings). In this way we maintain a high level of quality in manufacturing of our products and fully meet the agreed deadlines.

We manufacture for all industrial branches, mostly for food industry (Ledo dd Zagreb), tobacco industry (TDR d.o.o. Kanfanar - Rovinj), packaging industry (Hartmann d.o.o. Koprivnica), wood industry (Spin Valis dd Požega) and for the production of wooden pellets (Pelet grupa d.o.o. Novska). We export over 50% of our products, and most to the market of Austria.



Transporteri s trakom

Transporteri s trakom su pretovorno-transportni uređaji koji se koriste u gotovo svim granama proizvodnje: od rudarstva do prehrambene industrije. Namijenjeni su za transport rasutih i komadnih tereta što je i temelj za njihovu osnovnu podjelu. Tip transportera s trakom određuje se u ovisnosti o vrsti transportiranog materijala i ostalim tehničko-tehnološkim uvjetima transporta. Naš pristup proizvodnji transportera s trakom temelji se na proizvodnji standardnih dijelova: bubenjeva, valjaka i nateznookretnih stanica.

Zahvaljujući tome, u mogućnosti smo u relativno kratkim rokovima odgovoriti i na veoma specifične zahtjeve tržišta. Glavne izmjere transportera s trakom (širina i duljina) određuju se prema zahtjevu naručitelja, tehničko-tehnološkim karakteristikama transportiranog materijala i transportnoj putanji.

Na temelju tih elemenata, odabrat ćemo odgovarajuću konstrukciju vodeći brigu ne samo o funkcionalnosti već i o primjerenom dizajnu.



Belt conveyors

Belt conveyors are reloading-transportation devices used in almost all manufacturing branches from mining to food production industry. They are used for transportation of bulk and pallet material, which serves as a basis for their main classification. Belts conveyors type is determined based on the type of transported material and other technical-technological transportation requirements. Our approach to production of belts conveyors is based on the production of standard parts: pulleys, rollers and traction and tensioning units.

Therefore, we have the capacity to respond to a very specific market demands within the shortest possible deadlines. Common dimensions of belts conveyors (width and length) are determined on the basis of client's order, technical-technological characteristics of transported materials and transportation flow.

Based on the above elements, we will select an adequate construction taking into account not only functionality but also the appropriate design.



Lančani transporteri

Lančani transporteri upotrebljavaju se u gotovo svim segmentima prehrambene, drvne, duhanske i metalne industrije. Zbog svoje primjenjivosti koriste se za transport staklene, limene i polimerne ambalaže, kao npr.:

- Staklenih i polimernih boca kao i ostale ambalaže od istih materijala
- Konzervi svih tipova i veličine
- Kartonske i polimerne ambalaže (kutije i sanduci)

Također smo specijalizirani za izradu masivnijih lančanih transporterata za drvnu i metalnu industriju:

- Transport trupaca i drvenih daski
- Transport šipki, cijevi i ostalih metalnih poluproizvoda
- Transport drvne sječke

Kao transportni lanci koriste se svi standardni tipovi čeličnih i polimernih lanaca. Duljina transporterata, broj redova lanca, širina i visina ograda, način prijelaza s jednog na drugi konvejer te visina konvejera određuje se prema zahtjevima tehnologije transporta za svaki pojedini slučaj. Lančane transporterete moguće je u transportnim linijama kombinirati sa svim ostalim tipovima lančanih, trakastih i valjčanih transporterata.

Chain conveyors

Chain conveyors are used in almost all segments of food processing, wood processing, tobacco and metal industry. Due to their applicability, they are used for transport of glass, canned and polymer packaging such as:

- Glass and polymer bottles as well as other similar materials packaging
- Cans of all types and sizes
- Cardboard and polymer packaging (boxes and crates)

We are also specialized in manufacturing of bulk chain conveyors for wooden and metal industry:

- Transportation of logs and wood planks
- Transportation of bars, barrels and other metal semi-products
- Transportation of wood chips

All standard types of steel and polymer chains are used for conveying. Length of chain conveyor, number of chain layers, width and height of paling, manner of shifting from one conveyor to another is determined on the basis of transportation requirements for each separate case. Chain conveyors can be combined in transportation lines with all other types of chain, belt and roller conveyors.

Lančani transporteri s gumenom trakom

Lančani transporteri s gumenom trakom su pretovarno-transportni uređaji koji se koriste isključivo za transport rasutih tereta. Rasuti teret se obično dovozi i akumulira u usipnom lijevku, te se zatim potrebna količina transportiranog materijala dozira i odvozi transporterom.

Tip lančanog transporterja sa gumenom trakom određuje se u ovisnosti o vrsti transportiranog materijala i ostalim tehničko-tehnološkim uvjetima transporta. Glavne izmjere transporterja određuju se prema transportnoj putanji i zahtjevu naručitelja.

Chain conveyors with rubber belt

Chain conveyors with rubber belt are reloading-transportation devices used solely for transportation of bulk materials. Bulk material is usually dropped and stored in a receiving hopper, from where the required quantity of the material for transport is gauged and transported.

Type of chain conveyors with rubber belt to be used is determined in the basis of transported material and other technical-technological requirements related to transport. Main dimensions of the rubber conveyor are determined on the basis of transportation route and client's order.



Pužni transporteri

Pužni transporteri su pretovarno-transportni uređaji za transport sipkih materijala, a koriste se u gotovo svim granama proizvodnje od rudarstva do prehrambene industrije.

Temeljna podjela pužnih transporterja, prema izvedbi pužnica, dijeli ove uređaje na:

- Cijevne
- Koritaste

U ovisnosti o transportiranom materijalu i zahtjevima projektanata odabiremo jednu od izvedbi. Elementi za odabir vrste pužnog transporterja su: kapacitet, vrsta transportiranog materijala i duljina potrebnog transportiranja. Pužni transporteri su standardizirani u smislu promjera pužnog elementa, te se u ovisnosti o potrebnom kapacitetu odabire tip odnosno nazivna veličina (promjer). Proizvodnju pužnih transporterja temeljimo na montaži već izrađenih osnovnih sklopova odnosno elemenata. Kombinacijom tih elemenata izrađujemo transporterje čije tehničke karakteristike mogu zadovoljiti široko područje tehnoloških zahtjeva.

Worm conveyors

Worm conveyors are reloading-transportation devices used for transportation of dust-emitting and adhesive materials, and are used in almost all production branches from mining to food processing industry.

Based on casing type, worm conveyors are commonly classified in two types:

- Tube based
- Trough based

Depending on transported materials and requirements of designer, we are able to select the most suitable solution. Elements for the selection of the most suitable type of worm conveyor are: capacity, type of transported material and the length of the transport route. Worm conveyors are standardized based on the diameter, therefore the size i.e. diameter is determined based on the required capacity. Production of screw conveyors is based on the installation of already manufactured standard elements. With the combination of these stanard elements we produce transporters whose technical characteristics can meet the broad range of technological requirements.





Vibracioni transporteri

Vibracioni transporteri su pretovarno-transportni uređaji koji se koriste za transport i posijavanje rasutih materijala na različitu veličinu granulacije, a u posebnim slučajevima i za ravnomjerno i kontinuirano doziranje materijala na druge uređaje. Granulacija transportiranog materijala postiže se potrebnim veličinama otvora na situ.

Osnovni princip rada transportera je pretvaranje kružnog gibanja elektromotora u pravocrtno gibanje putem ekscentra. Kod izbora tipa vibracionog transportera bitan je kapacitet, vrsta transportiranog materijala i broj granulacija koje je kod njega potrebno razvojiti, te dužina transporta.

Vibrating conveyors

Vibrating conveyors are reloading-transportation devices used for transportation and screening of bulk materials to achieve required granulation, and in special cases also for even and continuous dosing of materials to other devices. Granulation of transported material is achieved by providing required size of the holes during the screening.

Basic principle of conveyor operations is conversion of circular movement of electromotor into the linear movement around x center. In choosing the type of vibrating conveyors the following elements should be taken into consideration: capacity, type of transported material and granulation to be achieved as well as the length of the transportation route.

Transportne kotrljače

Transportne kotrljače su pretovarno-transportni uređaji koji se koriste u gotovo svim granama proizvodnje. Namijenjene su uglavnom za transport komadne i paletizirane robe.

Prema svojoj osnovnoj podjeli kotrljače se dijele na:

- Pogonjene
- Nepogonjene

Mogu biti horizontalne ili pod kutom kao gravitacijske. Kod pogonjenih kotrljača valjci se pogone motorreduktorom preko sistema lančanog prijenosa.

Tip kotrljače određuje se u ovisnosti o tehničkotehnološkim uvjetima transporta i vrsti transportiranog materijala (njegovoj težini i dimenzijama).

Roller Conveyors

Roller Conveyors are reloading-transportation devices used in almost all production branches. They are mainly used for the transportation of bulk and palletized goods.

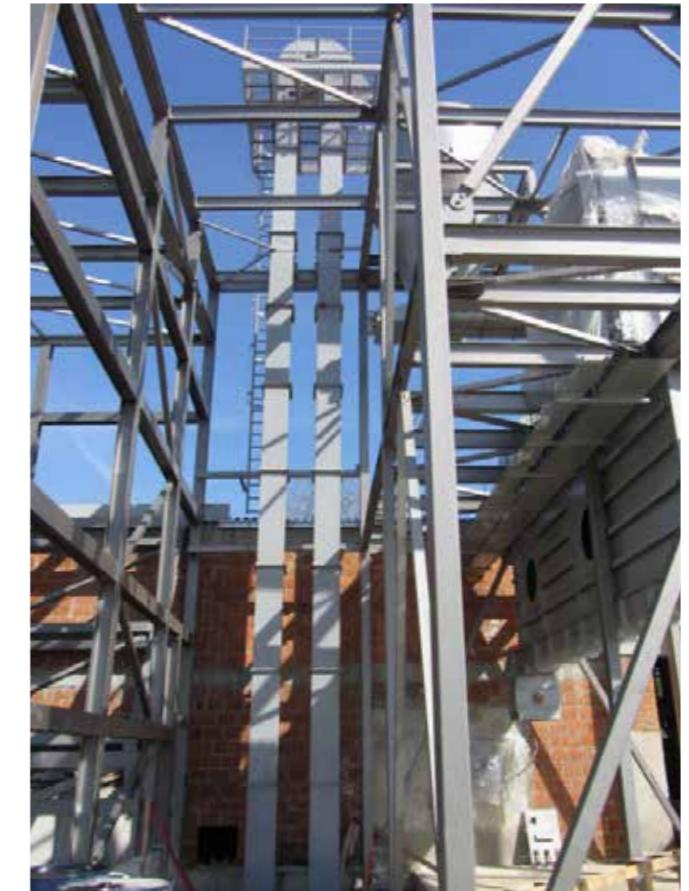
According to the basic classification we have two main types of Roller Conveyors:

- Powered Roller Conveyors
- Gravity Roller Conveyors

They may be either horizontal or angled as gravitational ones. Powered Roller Conveyors are driven by gearmotor through the system of chain transmission.

Type of the roller conveyor is determined on the basis of technical-technological transportation requirements and the type of transported material (weight and dimensions).





Elevatori

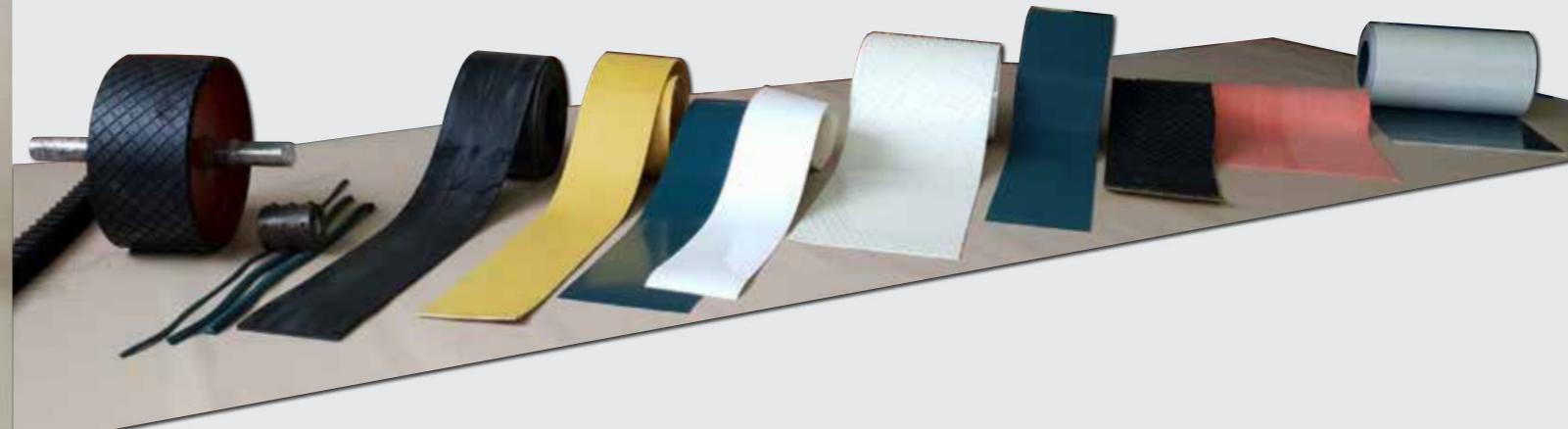
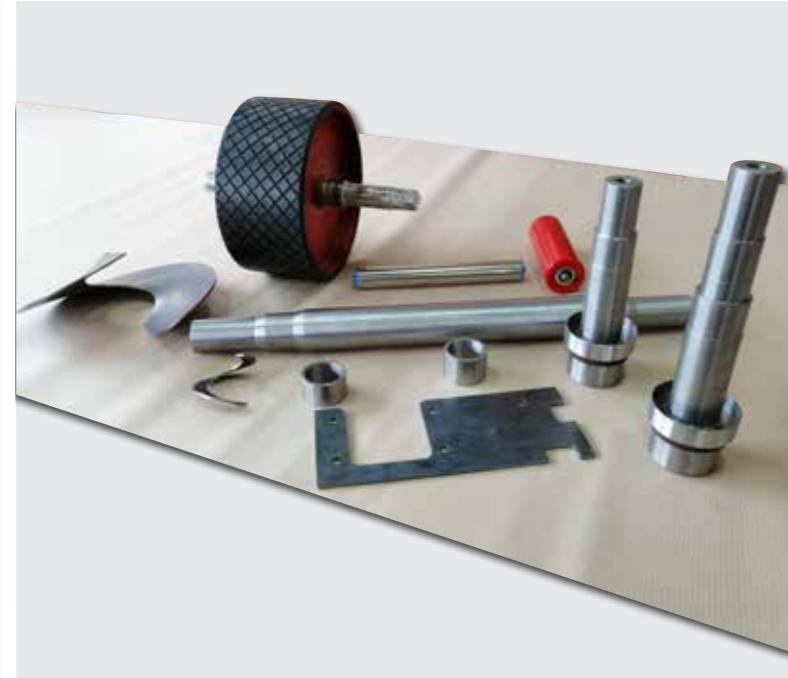
Elevatori su pretovorno-transportni uređaji namijenjeni za vertikalni transport sipkih materijala. Upotrebljavaju se u svim granama proizvodnje: od rудarstva do prehrambene industrije. Koriste se kao samostalni uređaji ili kao dijelovi većih ili manjih transportnih sustava. Za transport abrazivnih i krupnozrnatih materijala izrađujemo elevatore sa vjedricama na lancu kao vučenom elementu dok za sipke i manje abrazivne materijale izrađujemo elevatore sa vjedricama koje su pričvršćene na traku. Pored ova dva temeljna principa konstrukcije, elevatore s lancem izrađujemo i sa skretnim lančanicima radi boljeg prianjanja vjedrica, a koriste se kod transporta ljepljivih i praškastih materijala.

Program proizvodnje elevatora temeljimo na standardiziranim i pomno odabranim osnovnim dijelovima, kao što su vučni elementi te pogonski i natezni sklop. Zahvaljujući takvoj strategiji, u mogućnosti smo u relativno kratkom roku izraditi bilo koji podtip elevatora prema specifičnosti svake pojedine narudžbe. Bitni elementi za izbor tipa elevatora su kapacitet, vrsta transportiranog materijala te duljina potrebnog transportiranja. Prema tim elementima odabiremo odgovarajuću konstrukciju koja u svemu odgovara zadanoj funkciji.

Bucket Elevators

Bucket Elevators are reloading-transportation devices used for vertical transport of bulk materials. They are used in all production branches from mining industry to food processing industry. They can be used either as individual devices or as parts of a bigger or smaller transportation systems. For transportation of abrasive and bigger grain size materials we produce elevators with buckets on a chain as carrying element while for smaller granulation size and less abrasive materials we make elevators with buckets on a belt. In addition to these two main types of construction, we also make chain bucket Elevators with flexible sprocket wheels in order to provide the better adherence of buckets. This type is used in a transportation of powder and adhesive materials.

Bucket elevators manufacturing program is based on standardized and carefully selected basic parts, such as traction elements, head station and foot station. Because of this strategy, we are able to produce, within a relatively short deadline, any sub-type of elevator based on specific of each customized order. Some basic specifications that are important for the selection of suitable type of elevator are capacity, type of transported material as well as the length of the transportation route. Taking into consideration all of the above mentioned specifications we are able to suggest an appropriate type of elevator for requested function.



Rezervni dijelovi za transportere

Sastavni dio proizvodnog programa poduzeća Promid d.o.o. je izrada rezervnih dijelova za sve vrste trakastih, lančanih i valjčastih transporterera. Izrađujemo:

Nekoliko tipova valjaka

- Osnovne i lage valjke
- Gumirane valjke s ravnim ili spiralnim prstenima
- Valjke za pogonjene kotrljače

Valjci se izrađuju u različitim dužinama, a prema potrebnoj nosivosti i u različitim promjerima.

Svi valjci odlikuju se malim otporom u radu i dugim vijekom trajanja.

Nekoliko tipova bubenjeva različitih promjera

- Pogonski bubanj
- Okretni bubanj
- Samočisteći bubanj elevatora

Bubnjeve prema zahtjevu gumiramo i bombiramo.

Nekoliko tipova elemenata za prijenos snage

- Lančanici
- Remenice
- Spojke

Rezervni dijelovi izrađuju se prema tvorničkim standardima poduzeća Promid d.o.o. ili prema nacrtu naručitelja.

Conveyors spare parts

As a part of its manufacturing program, the company Promid d.o.o. manufactures spare parts for all models of belts conveyors, chain conveyors and roller conveyors. We produce:

Several types of rollers:

- Basic and light rollers
- Rubber rollers with flat or spiral rings
- Rollers for motor driven conveyors

Rollers are manufactured in different lengths, and depending on the carrying capacity, they can have different diameters.

All rollers are characterized by a small resistance in work and long durability period.

Several types of drums with different diameters:

- Drive drum
- Return pulley
- Self-cleaning basket drum

Depending on the client's requirements we can make cone on the drum and vulcanize it with rubber.

Several types of power transmission elements:

- Sprocket Wheels
- Pulleys
- Couplings

Spare parts are manufactured based on the manufacturing standards of the company Promid d.o.o. or client's design.

Vulkaniziranje

Isporučujemo više tipova gumenih i PVC transportnih traka:

- Gumene višeslojne transportne trake za teške transporte
- Narovašene trake za transport pod većim nagibom komadnih tereta
- PVC transportne trake za klizanje po limu ili valjcima različitih kvaliteta i namjena
- Gumene i PVC transportne trake s rebrima za transport rasutih tereta pod većim nagibom

Transportne trake se isporučuju vulkanizirane u beskonačnu traku ili se na zahtjev naručitelja vulkaniziraju na licu mjesta.

U najkraćem mogućem roku dolazimo i vršimo popravak i spajanje transportnih traka na licu mjesta.

Vulcanization

We provide several types of rubber and PVC conveyor belts:

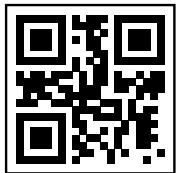
- Rubber multi-layer conveyor belts for heavy transportation
- Roughed (cupped) conveyor belts for transportation of bundled cargo under the higher inclination level
- PVC conveyor belts for sliding on steel or rollers of different characteristics and usage
- Rubber and PVC conveyor belts with rods for transportation of bulk materials under the higher inclination level

Conveyor belts are delivered in a vulcanized belt or are vulcanized on the spot, upon the request of the client.

We respond in shortest possible time and repair or connect a belt directly on site.

Reference / References

TVORNICA DUHANA ROVINJ, Kanfanar	BILOKALNIK, Koprivnica
LEDO, Zagreb	ALMERIJA, Sesvetski Kraljevac
HARTMANN (PACK & PERFORM), Koprivnica	BBS, Zagreb
ROCA CROATIA, Zaprešić	SCHWARLZ BETON, Zagreb
AGROPROTEINKA, Sesvete	CESTA MINERAL, Varaždin
SPIN VALIS, Požega	ODLAGALIŠTE SIROVINA, Zadar
PELET GRUPA, Zagreb	BRKOVIĆ, Sveta Nedelja
EKO-FLOR PLUS, Oroslavje	JOLLY, Šibenik
GAMAUF, Lipik	IVERICA, Bjelovar
ĐURO ĐAKOVIĆ TEP, Slavonski Brod	PM LIGNUM, Ogulin
ĐURO ĐAKOVIĆ KOTLOVI, Slavonski Brod	MLINAR, Križevci
GRADATIN, Sesvete	MMM-VUKELIĆ, Novska
ZAGORJE - TEHNOBETON, Varaždin	LIKA PELET, Gospic
VIRĐINIJA, Virovitica	PK JASINJE, Slavonski Brod
IGM SIRAČ, Sirač	BAP NOJORNO, Indonezija
COCA COLA BOTTLERS, Zagreb	LINDNER, Austrija
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KBE BIOENERGIE, Varaždin	FIS VITEZ, BiH
BRESTOVAC, Brestovac	C.R.S.I. SA, Švicarska
PLIVA, Zagreb	VA ERZBERG, Austrija
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