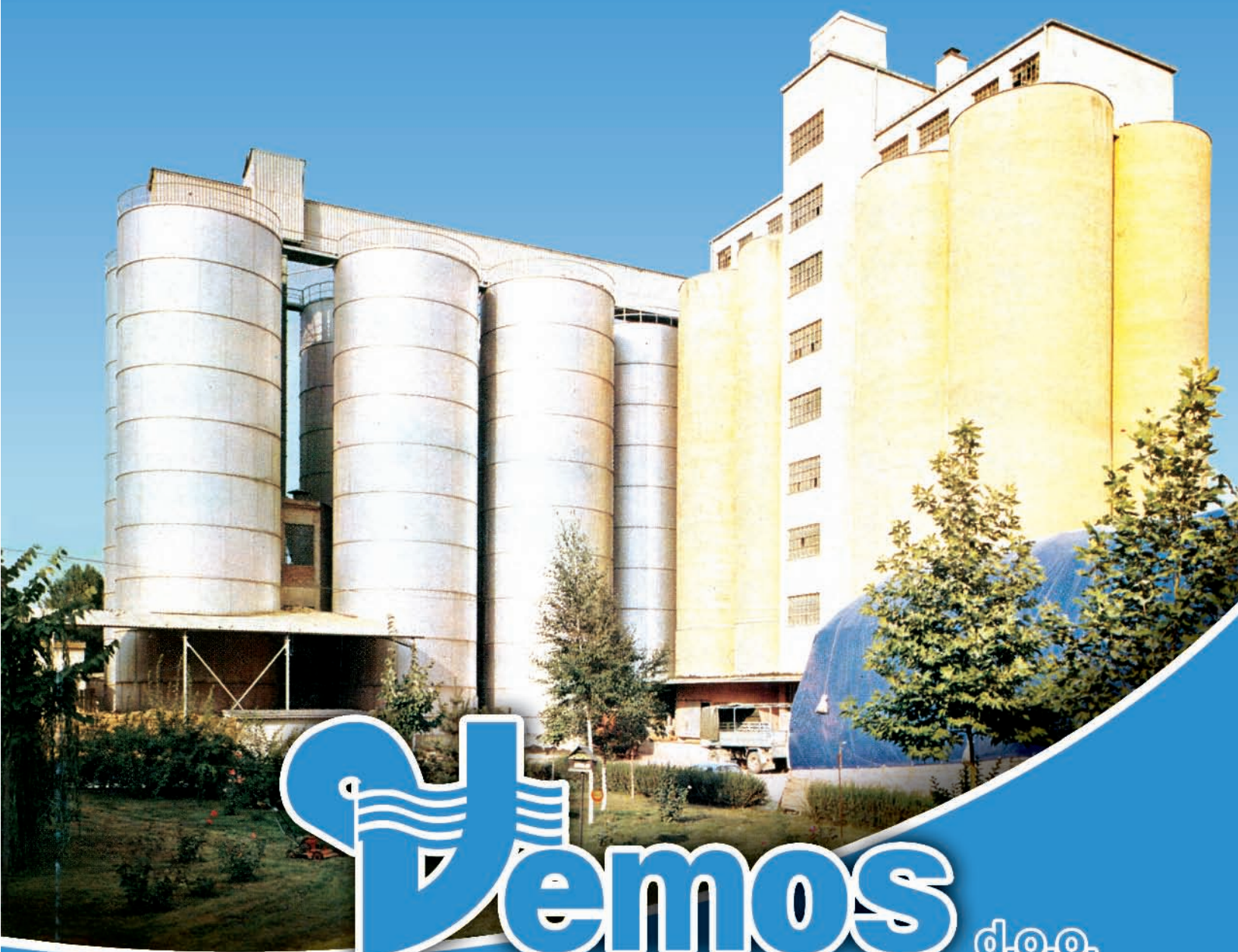


**VODORAVNI LANČANI
TRANSPORTERI**

**HORIZONTAL CHAIN
CONVEYORS**



Demos d.o.o.

**Tvornica za projektiranje, proizvodnju, montažu i servisiranje,
opreme za zaštitu okoliša**

OPĆENITO

VEMOS vodoravni lančani transporteri namijenjeni su za vodoravni i kosi transport zrnatih poljoprivrednih proizvoda (žitarica, uljarica, i sl.), te praškastih i rastresitih prehrambenih prerađevina. Primjenjuju se u silosima, mlinovima, pivovarama i mnogim drugim prehrambenim industrijama, u poljoprivredi i tvornicama stočne hrane, u lučkim pretovarnim postrojenjima, itd.

VEMOS vodoravni lančani transporteri objedinjavaju mnoge dobre konstrukcijske osobine s visokom kvalitetom izrade. Od njihovih prednosti posebice valja istaknuti ove:

- čvrsta čelična konstrukcija
- racionalno iskorišten prostor
- nizak utrošak pogonske energije
- besprijekoran i potpuno pouzdan rad
- zajamčeno postizanje nazivnih kapaciteta
- dugi vijek trajanja
- jednostavno punjenje i pražnjenje
- izvanredno djelotvorno otprašivanje
- standardizirani i stoga lako zamjenjivi dijelovi
- geometrijski lijepo oblikovana konstrukcija
- potpuna zaštita od korozije primjenom odgovarajućih zaštitnih premaza
- provedba sigurnosnih mjera u skladu s propisima o zaštiti na radu
- gotovo zanemarivi troškovi održavanja

VEMOS vodoravni lančani transporteri projektirani su po našoj vlastitoj tehničkoj dokumentaciji, uz prilagođavanje potrebama naših naručitelja. Proizvode se uz neprekidnu i strogu tehničku kontrolu u svim fazama proizvodnje, što predstavlja jamstvo visoke kvalitete njihove izrade. Montažu transportera obavljaju naši stručnjaci, čije dugogodišnje iskustvo jamči za besprijekornost ugradnje i najsvrsishodnije prilagođavanje transportera željama i potrebama naručitelja na licu mjesta. Zahvaljujući našem dugogodišnjem iskustvu u projektiranju, proizvodnji i montaži transportne opreme, te neprestanom praćenju najnovijih dostignuća na tom području, VEMOS vodoravni lančani transporteri poznati su kao vrlo korisni, suvremeni, pouzdani, trajni i ekonomični. VEMOS vodoravne lančane transportere nudimo u velikim izboru standardnih tipova s jediničnim kapacitetom u rasponu od 8 – 16 (t/h) za γ 0,75. Pored toga, na poseban zahtjev isporučujemo i transportere izvan standardnog asortimana.

KONSTRUKCIJA

VEMOS vodoravni lančani transporteri imaju nosivu konstrukciju (pogonska glava, transportno korito i zatezna glava) u cijelosti izrađenu od čelika.

Transportni uređaj sastoji se od pogonskog lančanika, transportnog lanca i zateznog lančanika. Pogonska glava sastoji se od limenog kućišta u kojem se nalazi pogonski lančanik. Osovina pogonskog lančanika uležištena je u dva kuglična ležaja, koji su zatvoreni u lijevanim ležajnim stalcima. Transportno krilo izrađeno je od profilnog čeličnog lima, a pokriveno je poklopcem koji se pričvršćuje brzorazrješivim spojkama. U koritu su smještene lako izmjenjive vodilice lanca. Na bočnim stranicama korita mogu se izvesti jedan ili više ostakljenih prozora za kontrolu razine i ravnomjernosti kretanja transportiranog materijala. Zatezna glava sastoji se od limenog kućišta u kojem se nalazi pomični zatezni lančanik i naprava za zatezanje lanca. Osovina zateznog lančanika uležištena je u dva kuglična ležaja, koji se mogu pomicati duž kliznih vodilica na bočnim stranicama kućišta. Zatezna naprava izvedena je za ručno podešavanje napetosti lanca. Samo kućište sastavljeno je od dva dijela međusobno povezana brzorazrješivim spojkama. Na gornjem dijelu kućišta nalazi se kontrolni otvor s poklopcem i priključak za otprašivanje. Transportni lanac sastavljen je od članaka izrađenih od kvalitetnog čelika i podvrgnutih naročitoj toplinskoj obradi. Članci se izrađuju u različitim oblicima ovisno o vrsti transportiranog materijala.

NAČIN DJELOVANJA

VEMOS vodoravni lančani transporteri namijenjeni su za vodoravni transport, ali se mogu koristiti i pod malim nagibom (od 15°). Transport materijala obavlja se pomoću beskrajnog transportnog lanca, čiji članci naročitog oblika zahvaćaju materijal iz ulazne kutije i u neprekidnoj ga struji povlače prema izlaznim otvorima. Lanac transportira materijal svojom donjom granom. Ulaz materijala smješta se na prikladnom mjestu transportnog korita, a može se opremiti izuzimačima koji omogućuju ravnomjerno dodavanje materijala i raspodjelu opterećenja na veću površinu transportnog lanca. Što se tiče ispuštanja materijala, transportno korito ima mogućnost da slobodno izade kroz stalno otvoreni izlaz na kraju transportera; na taj je način spriječeno blokiranje transportera zbog gomilanja materijala. Kod transportera koji mogu raditi u oba smjera, otvoreni krajnji izlaz nalazi se na oba kraja transportera.

IZBOR TRANSPORTERA

Kao što se vidi iz priloženih tablica i mjernih skica, VEMOS vodoravni lančani transporteri isporučuju se u velikom izboru standardnih tipova, što pruža široke mogućnosti za pravilan izbor. Pogonski sklop transportera je tipiziran, ali na poseban zahtjev isporučujemo i druge vrste prigona. Broj ulaza i izlaza materijala, kao i mjesta njihove ugradnje duž transportnog korita, naručitelj može odabirati po svojoj želji. To isto vrijedi i za kontrolne prozore.

UPUTE ZA NARUČIVANJE

U narudžbi trebaju biti navedeni ovi podaci: tip transportera, željeni satni kapacitet, vrsta transportiranog materijala, tip prigonskog uređaja, ukupna dužina transportera, te broj ulaza, izlaza i kontrolnih prozora (i mjesta njihove ugradnje). Pored toga, treba naznačiti montažnu visinu transportera iznad poda, kako bi se mogao odrediti način otvaranja, odnosno zatvaranja, zasuna na dodatnim izlazima.

Ako se u narudžbi ne naznače mjesta ugradnje ulaza, izlaza i kontrolnih prozora, njihov će se položaj odrediti prilikom montaže na licu mjesta.

GENERAL

VEMOS horizontal chain conveyors are intended for horizontal and slightly inclined conveyance of grain agricultural products (cereals, oleiferous seeds, and similar), as well as powdered and loose food products. They are used in silos works, flourmills, breweries and many other food industries, in agriculture and fodder-processing works, in port transhipment plants, etc.

VEMOS horizontal chain combine many good design properties of high-quality workmanship. The following advantages should be pointed out:

- solid steel structure
- economic space structure
- economic space utilization
- low drive power consumption
- faultless and absolutely reliable operation
- guaranteed obtaining of nominal output
- long service life
- simple charging and discharging
- highly efficient dust exhausting
- standardized and therefore easily interchangeable parts
- geometrically good-looking design
- perfect corrosion protection by means of appropriate protective coatings
- all safety equipment according to labour safety regulations
- almost negligible maintenance cost

VEMOS horizontal chain conveyors are designed on the basis of our own technical documentation, and can be modified in accordance to consumer's requirements. They are manufactured under continuous and rigorous in-process control, which guarantees the high-quality workmanship. On-site installation of conveyors is performed by our technicians, whose rich experience guarantees flawless assembling and the most appropriate adaptation of conveyors in accordance with customer's wishes and on-site requirements.

Thanks to our experience in designing, manufacturing and installation of conveying equipment, and continuous following of the latest achievements in the field, VEMOS horizontal chain conveyors are well known as very usable, modern, reliable, durable and profitable. VEMOS horizontal chain conveyors are offered in a variety of standard types with normal capacity of 8 – 160 (t/h) γ 0.75. Besides, at customer's request, we are ready to deliver the non-standard conveyors.

DESIGN

VEMOS horizontal chain conveyors supporting structure includes all-steel drive-assembly head, conveying rack and chain-tightening-assembly head. Conveying assembly consists of drive chain wheel, endless chain and chain-tightening wheel.

Drive-assembly head includes a steel-plate housing with build-in drive chain wheel. Drive wheel shaft is running in two ball bearings enclosed in cast bearing supports.

Conveying rack is made of profile steel plate and closed with steel-plate cover provided with quick-release couplings. The rack is equipped with easily interchangeable chain guides. One or more inspection glasses for control of material level and material running uniformity can be mounted onto the rack's sidewalls. Tightening assembly head consists of steel-plate housing with built-in movable chain wheel and chain-tightening device. Chain wheel shaft is running in two ball bearings, which are movable along slide-ways fixed on housing sidewalls. Chain-tightening device is designed for manual control. The housing is made of two sections interconnected with quick-release couplings. The upper sections provided with access door and dust exhaust connection. Conveying chain consists of chain links made of high-quality steel and heat-treated. The chain links are made in variety of shapes and sizes according to required conveyors output and type of material to be conveyed.

FUNCTION

VEMOS horizontal chain conveyors are intended for horizontal transport, but they can also be used in slightly inclined position (up to 15°). The material is performed by means of endless chain; whose chains of distinctive shape catch the material from inlet box, carrying it in continuous stream to the trough outlets. The chain transports the material with its lower strand. Material inlet is placed in a convenient point of trough and can be provided with drawing-out feeder for uniform material feeding and load distribution over larger area of conveying chain. Regarding the material discharge, the conveying trough can be provided with one or more gated outlets. Besides, the excess of material not discharged through outlets along the trough can freely flow out through permanently open outlet at the end of the conveyor, thus preventing the stopping of the conveyor. Reversing conveyors have these end outlets on both ends.

LATITUDE IN SELECTON

As the enclose tables and dimensioned sketches show, VEMOS horizontal chain conveyors are supplied in a variety of standard types, thus offering a wide possibility for the right choice. Conveyor drive assembly is standardized. Other types of transmission are supplied at request. The quantity of inlets and outlets, as well as their installation points along the trough are at customer's opinion. The same is valid for inspection glasses.

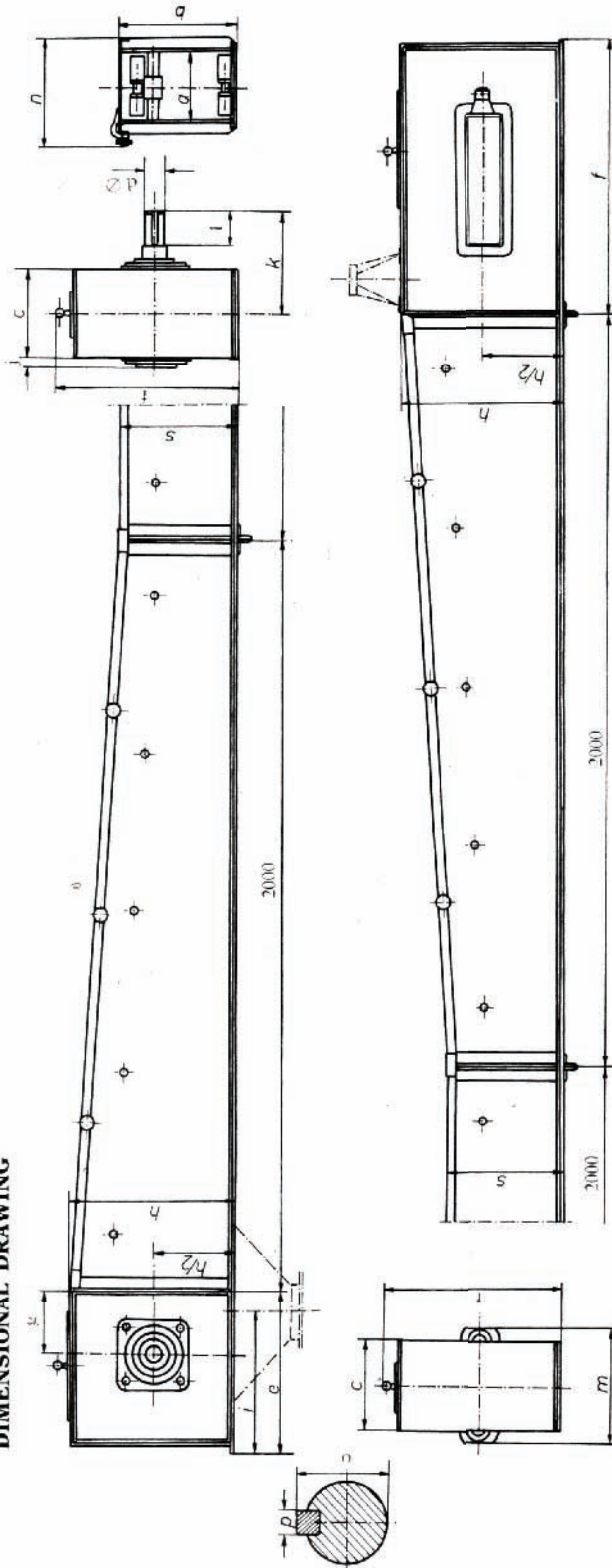
ORDERING INSTRUCTION

The order should include the following data: conveyor type, hourly output required, type of material transported, type of transmission unit, total length of conveyor, number of inlets, outlets and inspection glasses (and their installation points). Beside, floor-to-conveyor clearance should be noted to enable determination of the type of additional outlets gate control.

If the order does not have stated the installation points for inlets, outlets and inspection glasses, their position will be determined during on-site installation of conveyor.

**VODORAVNI LANČANI TRANSPORTERI
HORIZONTAL CHAIN CONVEYORS**

**MJERNA SKICA
DIMENSIONAL DRAWING**

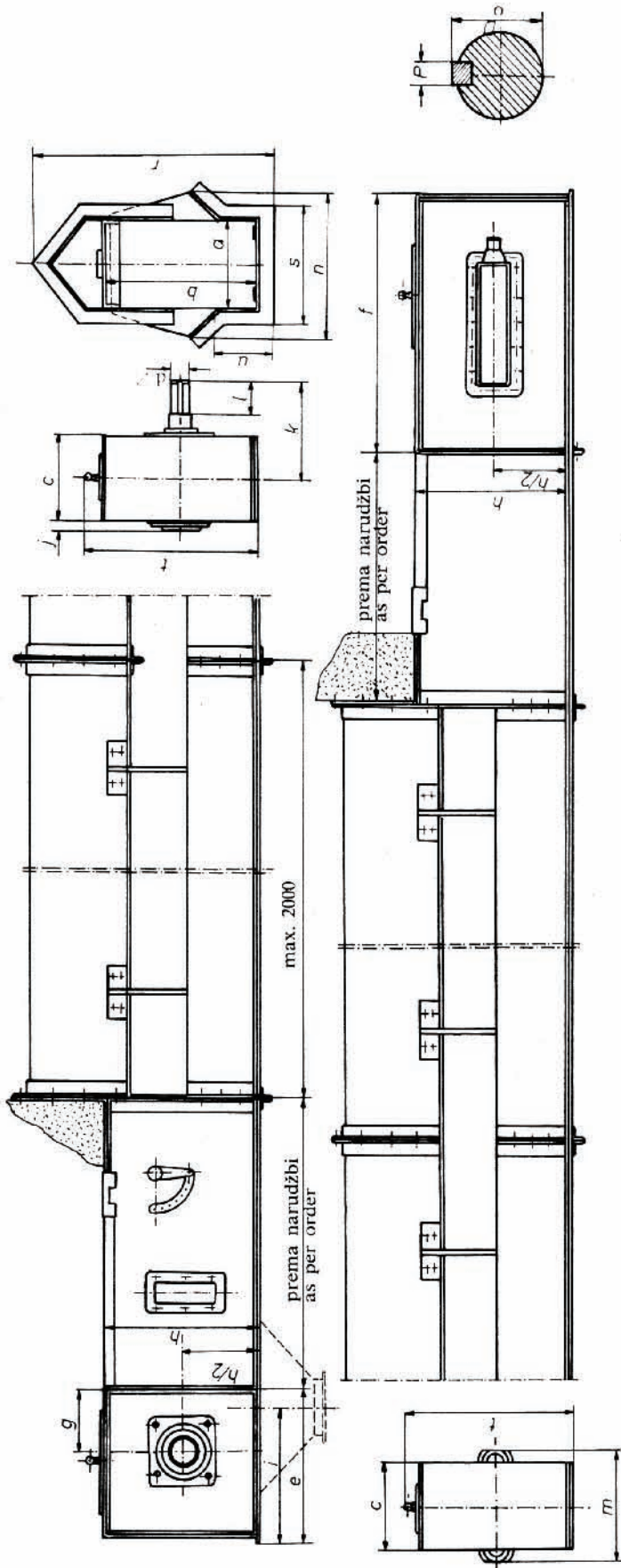


**VODORAVNI LANČANI TRANSPORTERI
HORIZONTAL CHAIN CONVEYORS**

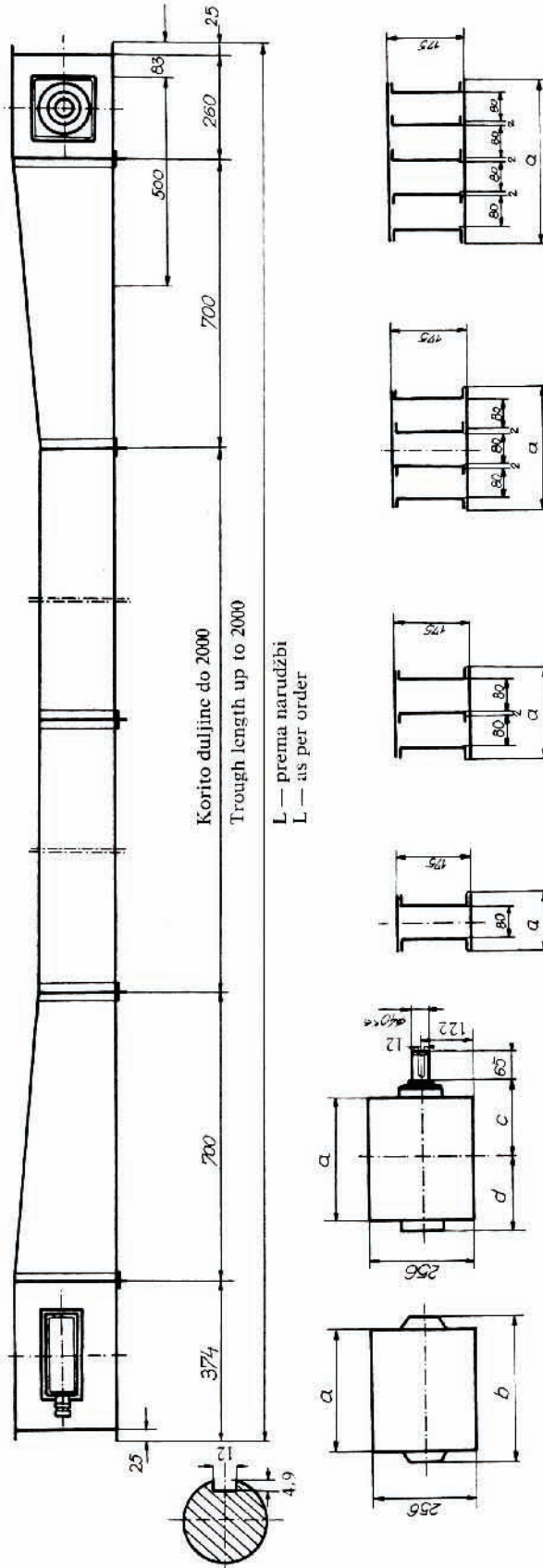
TIP MODEL	a	b	c	e	f	g	h	i	ja	za	brašno	for	corn	flower	j	k	m	n	s	t	d ⁰	l	o	p	OSOVI NA AXLE	PRITEZ NICA MM 313 TIGHTENING	glave head	
Re 23/10	100	230	164	380	510	160	356	304	354	17	179,5	228	203	235	403	45	65	49	14	A 2	B 2							
Re 23/12,5	125	189	189	380	510	160	356	304	354	17	192	253	228	235	403	45	65	49	14	A 3	B 3							
Re 30/15	150	300	216	435	735	170	428	373	423	20	242	298	255	306	475	55	80	60	16	A 4	B 4							
Re 30/17,5	175	300	241	435	735	170	428	373	423	20	254,5	323	280	306	475	55	80	60	16	A 5	B 5							
Re 38/20	200	380	266	510	780	210	520	415	465	30	295	346	310	387	567	70	100	76	20	A 6	B 6							
Re 38/22,5	225	380	291	510	780	210	520	415	465	30	307,5	371	325	387	567	70	100	76	20	A 7	B 7							
Re 38/30	300	380	366	510	780	210	520	415	465	30	345	450	410	387	572	70	100	76	20	B 12	C 12							
Re 43/25	250	430	326	570	840	245	560	446	496	40	350	416	375	437	607	80	120	87	24	B 9	C 9							
Re 43/27,5	275	430	351	570	840	245	560	446	496	40	362,5	441	400	437	607	80	120	87	24	B 10	C 10							
Re 50/30	300	500	390	625	945	270	612	501	551	60	415	470	440	508	660	85	120	92	24	B 12	C 12							
Re 50/32,5	325	500	415	625	945	270	612	501	551	60	427,5	495	455	508	660	85	120	92	24	B 13	C 13							
Re 50/35	350	500	444	625	945	270	612	501	551	60	440	520	480	508	660	85	120	92	24	B 13	C 13							

VODORAVNI LANČANI TRANSPORTERI IZUZIMAČI
HORIZONTAL CHAIN CONVEYORS DISCHARGERS

MJERNA SKICA
DIMENSIONAL DRAWING



TIP MODEL	a	b	c	e	f	g	h	i	i za žito for corn	i za brašno for flower	j	k	m	n	s	t	d	l	o	p	r	u	korita glave vodilica trough head guide	
AD 119 30 t/h	175	354	241	435	735	170	428	373	423	20	254,5	323	410	255	475	55	80	60	16	590	152	A 5	B 5	1 kom.
AD 122 60 t/h	225	435	291	510	780	210	520	415	465	30	307,5	371	495	303	567	70	100	76	20	695	215	A 7	B 7	1 kom.
AD 121 120 t/h	325	515	415	625	945	270	612	501	551	60	427,5	495	587	435	660	85	120	92	24	870	240	B 13	C 13	2 kom.
AD 114A 150 t/h	350	515	440	625	945	270	612	501	551	60	452,5	520	612	460	660	85	120	92	24	870	260	B 13	C 13	2 kom.

**VODORAVNI LANČANI TRANSPORTERI, MLINSKI
HORIZONTAL CHAIN CONVEYORS FOR MILLS**
**MJERNA SKICA
DIMENSIONAL DRAWING**


TIP	MJERE DIMENZIONS				Najveća dozvoljena dužina Maximum length allowed		Učinak za pojedini odjel u t/h spec. težine γ Capacity per Section in t/h at spec. weight γ		Najveća dozvoljena dužina Maximum length allowed		Učinak za pojedini odjel u t/h spec. težine γ Capacity per Section in t/h at spec. weight γ												
	a	b	c	d	$\gamma = 0,20$	$\gamma = 0,25$	$\gamma = 0,30$	$\gamma = 0,35$	$\gamma = 0,40$	$\gamma = 0,45$	$\gamma = 0,50$	$\gamma = 0,55$	$\gamma = 0,60$	$\gamma = 0,20$	$\gamma = 0,20$	$\gamma = 0,20$	$\gamma = 0,20$						
Rem 17 - 1-djelni	134	184	101	94	50 m	1,62	2,02	2,43	2,83	3,24	3,64	4,05	4,45	4,86	5,26	6,07	4,45	4,86	5,26	6,07			
Rem 17 - 1-section																							
Rem 19 - 2-djelni	216	266	142	135	45 m	1,62	2,02	2,43	2,83	3,24	3,64	4,05	4,45	4,86	5,26	6,07	4,86	5,26	6,07	4,86	5,26	6,07	
Rem 19 - 2-section																							
Rem 16 - 3-djelni	298	348	183	176	35 m	1,62	2,02	2,43	2,83	3,24	3,64	4,05	4,45	4,86	5,26	6,07	4,86	5,26	6,07	4,86	5,26	6,07	
Rem 16 - 3-section																							
Rem 18 - 4-djelni	380	430	224	217	35 m	1,62	2,02	2,43	2,83	3,24	3,64	4,05	4,45	4,86	5,26	6,07	4,86	5,26	6,07	4,86	5,26	6,07	
Rem 18 - 4-section																							

**GLAVNE DIMENZIJE
I OSTALI TEHNIČKI
PODACI**
**MAIN DIMENSIONS
AND OTHER
TECHNICAL DATA**

TIP TYPE	Pogonski broj okretaja u min R.P.M.	Satni učinak u m ³ /sat Capacity per hour in cb. m.	Glavne mjere u mm Main dimensions in millimeters			Najveća dozvoljena duljina Maximum permissible length
			Visina glave Height of the head	Visina korita Trough height	Najveća širina Trough max. width	
Re 23/10	28	10	356	235	164	
	32	12			189	
Re 23/25	28	16	428	306	216	
	32	16			241	
Re 30/15	22	22	520	387	266	
	25	26			291	
	28	30			366	
Re 30/17,5	22	32	560	437	326	
	25	36			351	
	28	40			390	
Re 38/20	22	55	612	508	415	
	25	65			440	
	22	72				
Re 38/22,5	25	82	612	508		
	22	81				
	25	92				
Re 43/25	22	95	560	437	326	
Re 43/27,6	22	110	612	508	390	
Re 50/30	18	135	612	508	415	
Re 50/32,5	18	160	612	508	440	
Re 50/35	18	210	612	508		

Određuje se prema vrsti materijala, koji se transportira (specif. težina),
 odnosno prema satnom kapacitetu
 One depends on the sort of the material transported (specific weight) and
 capacity per hour respectively


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